

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

J&R Dairy

Physical address of dairy:

4403 Bear Mountain Blvd

Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

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:

0184-0450-0002-0000 0184-0450-0008-0000 0184-0450-0031-0000 0184-0450-0032-0000

B. OPERATORS

Javier Echeverria

Operator Name:

Javier Echeverria

Telephone no.:

(661) 074-7063

Landline

Cellular

4403 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

City

Kern

County

93313

Zip Code

C. OWNERS

Javier Echeverria

Owner Name:

Javier Echeverria

Telephone no.:

(661) 074-7063

Landline

Cellular

4403 Bear Mountain Blvd

Mailing Address Number and Street

Bakersfield

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo.to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	2,760	469	526	416	0	0
Number under roof	0	0	0	0	0	0
Maxiumu number	2,762	480	540	438	0	0
Average number	2,760	469	526	416	0	0
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: 86,541.14 tons per reporting period

Total nitrogen from manure: 1,100,637.37 lbs per reporting period

After ammonia losses (30% loss applied): 770,446.16 lbs per reporting period

Total phosphorus from manure: 183,133.55 lbs per reporting period

Total potassium from manure: 528,565.47 lbs per reporting period

Total salt from manure: 1,407,392.55 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 19,750,490.11 gallons

Total nitrogen generated: 55,745.62 lbs

Total phosphorus generated: 96,816,454.40 lbs

Total potassium generated: 61,076.84 lbs

Total salt generated: 544,289.45 lbs

	19,750,490.11 gallons applied
+	0 gallons exported
-	0 gallons imported
=	19,750,490.11 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Canal - Kern Island	Surface Water
JR-DW2	Ground Water
W300-04	Ground Water
W300-05	Ground Water
W300-10	Ground Water
W300-11	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 (%)
01/28/2023	Separator solids	3,164 tons	as-is	69.9	14,900.00	130.00	29,520.00	42.00
06/02/2023	Separator solids	7,913 tons	as-is	69.7	15,660.00	5,360.00	16,990.00	58.00
06/12/2023	Separator solids	3,917 tons	as-is	69.8	21,940.00	5,620.00	10,050.00	20.00
06/22/2023	Separator solids	5,869 tons	as-is	65.4	21,940.00	5,620.00	10,050.00	20.00
06/23/2023	Separator solids	4,169 tons	as-is	67.8	21,940.00	5,620.00	10,050.00	20.00
07/19/2023	Separator solids	6,497 tons	as-is	66.5	21,940.00	5,620.00	10,050.00	20.00
08/07/2023	Separator solids	2,154 tons	as-is	70.1	21,940.00	5,620.00	10,050.00	20.00
08/14/2023	Separator solids	8,293 tons	as-is	70.4	21,940.00	5,620.00	10,050.00	20.00
08/17/2023	Separator solids	2,356 tons	as-is	67.8	21,940.00	5,620.00	10,050.00	20.00
08/17/2023	Separator solids	3,278 tons	as-is	70.1	21,940.00	5,620.00	10,050.00	20.00
08/29/2023	Separator solids	4,763 tons	as-is	70.1	21,940.00	5,620.00	10,050.00	20.00
09/12/2023	Separator solids	7,182 tons	as-is	69.7	21,940.00	5,620.00	10,050.00	20.00
09/19/2023	Separator solids	6,947 tons	as-is	68.4	27,200.00	10,960.00	43,320.00	37.00
12/01/2023	Separator solids	4,050 tons	as-is	68.2	27,200.00	10,960.00	43,320.00	37.00
12/20/2023	Separator solids	3,298 tons	as-is	63.8	27,200.00	10,960.00	43,320.00	37.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	3,246,985.00	943,889.12	2,668,612.90	41,806,340.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	3,246,985.00	943,889.12	2,668,612.90	41,806,340.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
26-4	77.22	74.90	1	BOTH	0184-0450-0002-0000
35-1	80.26	79.00	1	BOTH	0184-0450-0008-0000
35-3	74.93	72.68	1	BOTH	0184-0450-0008-0000
35-4	75.70	75.00	8	NONE	0184-0450-0008-0000
35-5N	41.26	41.00	1	BOTH	0184-0450-0008-0000
35-5S	36.88	36.00	1	BOTH	0184-0450-0008-0000
Totals for areas that were used for application	386.25	378.58	13.00		
Totals for areas that were not used for application	7.67	7.67			
Land application area totals	386.25	386.25	13.00		

B. CROPS AND HARVESTS

26-4

Field Name: 26-4

10/15/2022: Triticale

Crop: Triticale Acres planted: 74.9 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/06/2023	1,353.97 ton	As-is		0.00	6,307.20	993.60	7,113.60	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	18.08	228.03	35.92	257.19	0.00

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 74.9 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 (%)
09/11/2023	2,100.94 ton	As-is		0.00	4,861.50	1,204.00	5,946.50	21.00	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	28.05	272.73	67.54	333.60	0.00

Field Name: 35-3

10/28/2022: Triticale

Crop: Triticale Acres planted: 72.68 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/19/2023	1,581.15 ton	As-is		0.00	5,367.60	874.80	6,004.80	201.60	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	21.75	233.54	38.06	261.27	0.00

Field Name: 35-5N

10/25/2022: Triticale

Crop: Triticale Acres planted: 41 Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/18/2023	1,068.91 ton	As-is		0.00	5,817.60	864.00	6,357.60	424.80	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	26.07	303.34	45.05	331.50	0.00

Field Name: 35-5S

10/25/2022: Triticale

Crop: Triticale Acres planted: 36 Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/18/2023	780.30 ton	As-is		0.00	5,619.60	946.80	5,522.40	108.00	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	21.67	243.61	41.04	239.40	0.00

Field Name: 35-1

10/25/2022: Triticale

Crop: Triticale Acres planted: 79 Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/16/2023	1,639.80 ton	As-is		0.00	5,716.80	907.20	6,094.80	162.00	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	20.76	237.33	37.66	253.02	0.00

Field Name: 35-4

01/01/2022: Alfalfa

Crop: Alfalfa Acres planted: 75 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/26/2023	101.25 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
04/26/2023	92.25 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
05/26/2023	97.50 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
06/24/2023	112.50 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
07/24/2023	105.00 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
08/22/2023	105.00 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/19/2023	90.00 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
12/30/2023	82.50 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	10.48	216.21	42.81	236.17	0.00

Field Name: 35-1

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 79 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 (%)
09/23/2023	2,102.58 ton	As-is		0.00	4,252.50	906.50	6,296.50	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	26.61	226.36	48.25	335.16	0.00

Field Name: 35-2

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 70.39 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 (%)
08/06/2023	1,450.46 ton	As-is		0.00	4,949.00	864.50	6,037.50	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	20.61	203.96	35.63	248.82	0.00

Field Name: 35-3

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 72.68 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 (%)
07/25/2023	1,751.59 ton	As-is		0.00	4,791.50	1,158.50	6,338.50	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	24.10	230.95	55.84	305.52	0.00

Field Name: 35-5N

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 41 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	974.77 ton	As-is		0.00	3,986.50	896.00	5,673.50	21.00	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	23.77	189.56	42.60	269.77	0.00

Field Name: 35-5S

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 36 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 (%)
08/08/2023	864.43 ton	As-is		0.00	4,749.50	1,207.50	6,093.50	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	24.01	228.09	57.99	292.63	0.00

Field Name: 35-6

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 80 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 (%)
09/16/2023	2,143.76 ton	As-is		0.00	5,561.50	1,200.50	6,240.50	42.00	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	26.80	298.06	64.34	334.45	0.00

Field Name: 35-8

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 38 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 (%)
08/12/2023	919.79 ton	As-is		0.00	5,078.50	1,151.50	6,258.00	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	24.20	245.85	55.74	302.95	0.00

Field Name: 35-7S

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 35.91 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 (%)
08/03/2023	831.10 ton	As-is		0.00	5,663.00	938.00	5,033.00	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	23.14	262.13	43.42	232.97	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

26-4

Field name: 26-4 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
Canal Water	Ground water	0.00	1,166.55	29,047.09	110.82	10,470,290.38 <i>gal</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,048.60 <i>Lbs</i>
Application event totals		14.00	1,166.55	29,047.09	110.82	

05/05/2023	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	1,121.68	27,929.89	106.56	10,067,586.97 <i>gal</i>
Application event totals		0.00	1,121.68	27,929.89	106.56	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	749.00 <i>Gal.</i>
Application event totals		35.39	0.00	0.00	0.00	

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	1,110.35	27,647.77	105.48	9,965,894.76 <i>gal</i>
Lagoon Water Effluent	Process wastewater	37.53	58,736.28	45.48	342.99	962,013.88 <i>gal</i>
Application event totals		37.53	59,846.63	27,693.25	448.47	

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
Well Water	Ground water	0.00	1,414.00	1.65	342.89	12,691,261.18 <i>gal</i>
Lagoon Water Effluent	Process wastewater	75.15	117,596.74	91.06	686.70	1,926,061.72 <i>gal</i>
Application event totals		75.15	119,010.74	92.71	1,029.59	

06/22/2023		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		
Lagoon Water Effluent		Process wastewater	71.58	112,008.72	86.73	654.07	1,834,538.16 <i>gal</i>		
Well Water		Ground water	0.00	1,377.06	1.61	333.94	12,359,743.40 <i>gal</i>		
Application event totals			71.58	113,385.78	88.34	988.01			
07/06/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water		Ground water	0.00	1,403.80	1.64	340.42	12,599,738.47 <i>gal</i>		
Lagoon Water Effluent		Process wastewater	73.64	115,237.35	89.23	672.92	1,887,418.34 <i>gal</i>		
Application event totals			73.64	116,641.15	90.87	1,013.34			
07/20/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Well Water		Ground water	0.00	1,200.99	1.40	291.24	10,779,437.36 <i>gal</i>		
Application event totals			0.00	1,200.99	1.40	291.24			

10/15/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/01/2022	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
Corral Solids	Corral Solids	243.39	90.62	239.25	2,116.40	374.50 <i>ton</i>
Application event totals		243.39	90.62	239.25	2,116.40	
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
Canal Water	Ground water	0.39	0.00	29,915.27	207.51	10,067,586.97 <i>gal</i>
Application event totals		0.39	0.00	29,915.27	207.51	
11/10/2022	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	0.74	1,076.36	1.89	375.65	9,660,816.16 <i>gal</i>
Lagoon Water Effluent	Process wastewater	16.80	33,660.90	25.64	249.25	522,701.00 <i>gal</i>
Application event totals		17.54	34,737.26	27.53	624.90	
12/10/2022	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	0.65	936.10	1.64	326.70	8,401,859.36 <i>gal</i>
Application event totals		0.65	936.10	1.64	326.70	

01/05/2023	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	1,087.69	27,083.53	103.33	9,762,509.35 <i>gal</i>
Application event totals		0.00	1,087.69	27,083.53	103.33	

01/31/2023	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
Lagoon Water Effluent	Process wastewater	13.65	32,713.25	3.20	127.97	380,331.09 <i>gal</i>
Well Water	Ground water	0.00	1,019.71	1.19	247.28	9,152,352.15 <i>gal</i>
Application event totals		13.65	33,732.96	4.39	375.25	

02/15/2023	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	963.06	23,980.21	91.49	8,643,888.14 <i>gal</i>
Application event totals		0.00	963.06	23,980.21	91.49	

03/08/2023	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
Well Water	Ground water	0.00	940.40	1.10	228.05	8,440,502.73 <i>gal</i>
Lagoon Water Effluent	Process wastewater	14.09	33,762.87	3.31	132.08	392,534.22 <i>gal</i>
Application event totals		14.09	34,703.27	4.41	360.13	

Field name: 35-1

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	1,106.00 <i>Lbs</i>
Corral Solids	Corral Solids	129.79	44.42	140.81	4,807.04	553.00 <i>ton</i>
Application event totals		143.79	44.42	140.81	4,807.04	

05/01/2023	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
Canal Water	Ground water	0.00	1,201.90	29,927.30	114.18	11,378,079.92 <i>gal</i>
Application event totals		0.00	1,201.90	29,927.30	114.18	

05/05/2023	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	1,110.35	1.30	269.26	10,511,424.16 <i>gal</i>
Application event totals		0.00	1,110.35	1.30	269.26	

05/16/2023	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	1,133.01	1.32	274.76	10,725,942.81 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	395.00 <i>Gal.</i>
Application event totals		17.70	1,133.01	1.32	274.76	

05/30/2023	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
Lagoon Water Effluent	Process wastewater	43.01	67,304.57	52.11	393.02	1,162,692.19 <i>gal</i>
Canal Water	Ground water	0.00	1,346.02	33,515.87	127.87	12,742,420.18 <i>gal</i>
Application event totals		43.01	68,650.59	33,567.98	520.89	

06/13/2023	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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Well Water	Ground water	0.00	1,390.43	1.62	337.18	13,162,877.35 <i>gal</i>
Lagoon Water Effluent	Process wastewater	43.96	68,794.71	53.27	401.72	1,188,434.51 <i>gal</i>
Application event totals		43.96	70,185.14	54.89	738.90	

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
Canal Water	Ground water	0.00	1,390.43	34,621.78	132.09	13,162,877.35 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	395.00 <i>Gal.</i>
Application event totals		17.70	1,390.43	34,621.78	132.09	

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	0.00	1,167.00	1.36	283.00	11,047,721.30 <i>gal</i>
Application event totals		0.00	1,167.00	1.36	283.00	

10/25/2022: Triticale

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/18/2022	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	243.39	90.62	239.25	2,116.40	395.00 <i>ton</i>
Application event totals		243.39	90.62	239.25	2,116.40	

10/25/2022	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	0.38	0.00	29,008.75	201.22	10,296,905.51 <i>gal</i>
Application event totals		0.38	0.00	29,008.75	201.22	

11/20/2022	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	0.37	0.00	28,404.40	197.03	10,082,385.83 <i>gal</i>
Lagoon Water Effluent	Process wastewater	27.64	55,402.96	42.21	410.25	907,414.78 <i>gal</i>
Application event totals		28.01	55,402.96	28,446.61	607.28	

12/20/2022	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
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Well Water	Ground water	0.63	917.74	1.61	320.29	8,688,014.09 <i>gal</i>
Application event totals		0.63	917.74	1.61	320.29	

01/15/2023	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	1,117.15	1.30	270.91	10,575,780.27 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	395.00 <i>Gal.</i>
Application event totals		17.70	1,117.15	1.30	270.91	

02/10/2023	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
Well Water	Ground water	0.00	1,076.36	1.26	261.02	10,189,645.67 <i>gal</i>
Application event totals		0.00	1,076.36	1.26	261.02	

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
Canal Water	Ground water	0.00	951.73	23,698.09	90.41	9,009,791.55 <i>gal</i>
Application event totals		0.00	951.73	23,698.09	90.41	

03/18/2023	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	15.48	37,086.67	3.63	145.08	454,779.97 <i>gal</i>
Well Water	Ground water	0.00	1,086.33	1.27	263.44	10,284,033.26 <i>gal</i>
Application event totals		15.48	38,173.00	4.90	408.52	

Field name: 35-2

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	985.46 <i>Lbs</i>
Corral Solids	Corral Solids	129.79	44.42	140.81	4,807.04	492.73 <i>ton</i>
Application event totals		143.79	44.42	140.81	4,807.04	
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
Canal Water	Ground water	0.36	0.00	27,509.96	190.83	8,700,648.04 <i>gal</i>
Application event totals		0.36	0.00	27,509.96	190.83	
05/07/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,166.55	1.36	282.89	9,839,836.02 <i>gal</i>
Application event totals		0.00	1,166.55	1.36	282.89	
05/11/2023	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	0.00	1,110.35	1.30	269.26	9,365,811.90 <i>gal</i>
Application event totals		0.00	1,110.35	1.30	269.26	
05/22/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	351.95 <i>Gal.</i>
Canal Water	Ground water	0.00	1,133.01	28,212.01	107.64	9,556,950.73 <i>gal</i>
Application event totals		17.70	1,133.01	28,212.01	107.64	
06/05/2023	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
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	416,683.04 <i>gal</i>

Well Water	Ground water	0.00	1,359.62	1.59	329.71	11,468,340.88 <i>gal</i>
Application event totals		17.30	28,430.46	22.55	487.79	
06/19/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,323.59	32,957.27	125.74	11,164,430.00 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	416,683.04 <i>gal</i>
Application event totals		17.30	28,394.43	32,978.23	283.82	
07/03/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,390.43	34,621.78	132.09	11,728,290.24 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	351.95 <i>Gal.</i>
Application event totals		17.70	1,390.43	34,621.78	132.09	
07/17/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,178.33	1.38	285.75	9,939,228.40 <i>gal</i>
Application event totals		0.00	1,178.33	1.38	285.75	

Field name: 35-3

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	148.33	50.77	160.93	5,493.76	581.44 <i>ton</i>
Well Water	Ground water	0.34	0.00	25,563.96	177.33	8,348,215.88 <i>gal</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,017.52 <i>Lbs</i>
Application event totals		162.67	50.77	25,724.89	5,671.09	

05/01/2023	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
Canal Water	Ground water	0.00	1,154.77	28,753.68	109.70	10,057,329.93 <i>gal</i>
Application event totals		0.00	1,154.77	28,753.68	109.70	

05/05/2023	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	1,133.01	1.32	274.76	9,867,867.43 <i>gal</i>
Application event totals		0.00	1,133.01	1.32	274.76	

05/16/2023	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	9,966,546.48 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	363.40 <i>Gal.</i>
Application event totals		17.70	1,144.34	28,494.14	108.71	

05/30/2023	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
Canal Water	Ground water	0.00	1,332.42	33,177.33	126.58	11,604,612.32 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	430,239.01 <i>gal</i>
Application event totals		17.30	28,403.26	33,198.29	284.66	

06/13/2023	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	33.01	51,658.12	40.00	301.65	821,006.59 <i>gal</i>
Canal Water	Ground water	0.00	1,323.59	32,957.27	125.74	11,527,642.89 <i>gal</i>
Application event totals		33.01	52,981.71	32,997.27	427.39	

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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	363.40 <i>Gal.</i>
Well Water	Ground water	0.00	1,363.69	1.59	330.70	11,876,965.49 <i>gal</i>
Application event totals		17.70	1,363.69	1.59	330.70	

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	0.00	1,200.99	1.40	291.24	10,459,939.85 <i>gal</i>
Application event totals		0.00	1,200.99	1.40	291.24	

10/28/2022: 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	243.39	90.62	239.25	2,116.40	363.40 <i>ton</i>
Application event totals		243.39	90.62	239.25	2,116.40	

10/28/2022	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
Well Water	Ground water	0.78	1,133.01	1.99	395.42	9,867,867.43 <i>gal</i>
Application event totals		0.78	1,133.01	1.99	395.42	

11/23/2022	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
Well Water	Ground water	0.69	997.05	1.75	347.97	8,683,723.53 <i>gal</i>
Lagoon Water Effluent	Process wastewater	15.55	31,172.35	23.75	230.83	469,710.50 <i>gal</i>
Application event totals		16.24	32,169.40	25.50	578.80	

12/23/2022	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	0.33	0.00	25,273.87	175.32	8,253,484.63 <i>gal</i>
Application event totals		0.33	0.00	25,273.87	175.32	

01/18/2023	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	1,087.69	27,083.53	103.33	9,473,153.11 <i>gal</i>
Application event totals		0.00	1,087.69	27,083.53	103.33	

02/13/2023	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	17.31	41,460.10	4.06	162.19	467,736.92 <i>gal</i>
Well Water	Ground water	0.00	963.06	1.12	233.54	8,387,687.31 <i>gal</i>
Application event totals		17.31	42,423.16	5.18	395.73	

02/28/2023	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
Canal Water	Ground water	0.00	1,065.03	26,519.29	101.18	9,275,795.01 <i>gal</i>
Application event totals		0.00	1,065.03	26,519.29	101.18	

03/21/2023	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	17.31	41,460.10	4.06	162.19	467,736.92 <i>gal</i>
Well Water	Ground water	0.00	1,087.69	1.27	263.77	9,473,153.11 <i>gal</i>
Application event totals		17.31	42,547.79	5.33	425.96	

Field name: 35-4

Crop: Alfalfa

Plant date: 01/01/2022

01/01/2022: 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	1,050.00 <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
Well Water	Ground water	0.00	1,036.93	1.21	251.46	9,319,350.28 <i>gal</i>
Application event totals		0.00	1,036.93	1.21	251.46	
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	9,571,885.29 <i>gal</i>
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	0.00	1,144.34	1.34	277.50	10,284,686.06 <i>gal</i>
Application event totals		0.00	1,144.34	1.34	277.50	
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	0.00	1,110.35	1.30	269.26	9,979,200.15 <i>gal</i>
Application event totals		0.00	1,110.35	1.30	269.26	
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	1,121.68	27,929.89	106.56	10,081,028.14 <i>gal</i>
Application event totals		0.00	1,121.68	27,929.89	106.56	
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	1,200.99	29,904.74	114.09	10,793,828.91 <i>gal</i>
Application event totals		0.00	1,200.99	29,904.74	114.09	
08/01/2023	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	1,441.19	1.68	349.49	12,952,594.50 <i>gal</i>
Application event totals		0.00	1,441.19	1.68	349.49	
08/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,414.00	1.65	342.89	12,708,205.19 <i>gal</i>
Application event totals		0.00	1,414.00	1.65	342.89	
09/26/2023	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	1,386.81	1.62	336.30	12,463,816.86 <i>gal</i>
Application event totals		0.00	1,386.81	1.62	336.30	
10/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,346.02	33,515.87	127.87	12,097,234.35 <i>gal</i>
Application event totals		0.00	1,346.02	33,515.87	127.87	

Field name: 35-5N

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	574.00 <i>Lbs</i>
Corral Solids	Corral Solids	129.79	44.42	140.81	4,807.04	287.00 <i>ton</i>
Application event totals		143.79	44.42	140.81	4,807.04	
04/21/2023	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	0.41	0.00	31,311.32	217.20	5,768,140.76 <i>gal</i>
Application event totals		0.41	0.00	31,311.32	217.20	
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	910.49	1.06	220.79	4,473,342.84 <i>gal</i>
Application event totals		0.00	910.49	1.06	220.79	
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	1,261.50	1.47	305.91	6,197,884.13 <i>gal</i>
Application event totals		0.00	1,261.50	1.47	305.91	
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	17.70	0.00	0.00	0.00	205.00 <i>Gal.</i>
Canal Water	Ground water	0.00	1,011.78	25,193.33	96.12	4,970,999.46 <i>gal</i>
Application event totals		17.70	1,011.78	25,193.33	96.12	
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	17.30	27,070.84	20.96	158.08	242,705.00 <i>gal</i>

Canal Water	Ground water	0.00	1,305.00	32,494.60	123.98	6,411,642.57 <i>gal</i>
Application event totals		17.30	28,375.84	32,515.56	282.06	

06/13/2023	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	1,402.90	34,932.12	133.28	6,892,599.45 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	242,705.00 <i>gal</i>
Application event totals		17.30	28,473.74	34,953.08	291.36	

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
Canal Water	Ground water	0.00	1,133.92	28,234.58	107.72	5,571,082.06 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	205.00 <i>Gal.</i>
Application event totals		17.70	1,133.92	28,234.58	107.72	

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	0.00	1,170.63	1.37	283.88	5,751,440.49 <i>gal</i>
Application event totals		0.00	1,170.63	1.37	283.88	

10/25/2022: 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	340.74	126.87	334.95	2,962.96	287.00 <i>ton</i>
Application event totals		340.74	126.87	334.95	2,962.96	

10/25/2022	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
Well Water	Ground water	0.76	1,099.02	1.93	383.56	5,399,629.59 <i>gal</i>
Application event totals		0.76	1,099.02	1.93	383.56	

11/20/2022	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	0.34	0.00	25,684.83	178.17	4,731,634.27 <i>gal</i>

Lagoon Water Effluent	Process wastewater	15.55	31,172.35	23.75	230.83	264,971.52 <i>gal</i>
Application event totals		15.89	31,172.35	25,708.58	409.00	
12/20/2022	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	0.64	924.54	1.62	322.66	4,542,368.81 <i>gal</i>
Application event totals		0.64	924.54	1.62	322.66	
01/15/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,142.08	28,437.71	108.50	5,611,161.53 <i>gal</i>
Application event totals		0.00	1,142.08	28,437.71	108.50	
02/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	985.72	1.15	239.04	4,842,966.73 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.31	41,460.10	4.06	162.19	263,858.20 <i>gal</i>
Application event totals		17.31	42,445.82	5.21	401.23	
02/25/2023	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
Well Water	Ground water	0.00	1,019.71	1.19	247.28	5,009,965.69 <i>gal</i>
Application event totals		0.00	1,019.71	1.19	247.28	
03/18/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	929.07	23,133.85	88.26	4,564,635.30 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.31	41,460.10	4.06	162.19	263,858.20 <i>gal</i>
Application event totals		17.31	42,389.17	23,137.91	250.45	

Field name: 35-5S

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	504.00 <i>Lbs</i>
Corral Solids	Corral Solids	185.41	63.46	201.16	6,867.20	360.00 <i>ton</i>
Application event totals		199.41	63.46	201.16	6,867.20	
04/23/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.33	0.00	24,983.78	173.30	4,041,209.23 <i>gal</i>
Application event totals		0.33	0.00	24,983.78	173.30	
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	1,190.12	29,633.90	113.06	5,134,114.95 <i>gal</i>
Application event totals		0.00	1,190.12	29,633.90	113.06	
05/09/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,155.67	28,776.25	109.79	4,985,526.74 <i>gal</i>
Application event totals		0.00	1,155.67	28,776.25	109.79	
05/20/2023	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
Well Water	Ground water	0.00	1,133.01	1.32	274.76	4,887,771.41 <i>gal</i>
Application event totals		0.00	1,133.01	1.32	274.76	
06/03/2023	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	1,373.21	34,192.96	130.46	5,923,978.89 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	213,106.83 <i>gal</i>
Application event totals		17.30	28,444.05	34,213.92	288.54	

06/17/2023		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		
Well Water		Ground water	0.00	1,323.59	1.55	320.97	5,709,894.64 <i>gal</i>		
Lagoon Water Effluent		Process wastewater	17.30	27,070.84	20.96	158.08	213,106.83 <i>gal</i>		
Application event totals			17.30	28,394.43	22.51	479.05			
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		
Un 32		Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	180.00 <i>Gal.</i>		
Canal Water		Ground water	0.00	1,377.06	34,288.88	130.82	5,940,597.51 <i>gal</i>		
Application event totals			17.70	1,377.06	34,288.88	130.82			
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		
Well Water		Ground water	0.00	1,178.33	1.38	285.75	5,083,282.08 <i>gal</i>		
Application event totals			0.00	1,178.33	1.38	285.75			

10/25/2022: 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	243.39	90.62	239.25	2,116.40	180.00 <i>ton</i>
Application event totals		243.39	90.62	239.25	2,116.40	
10/25/2022	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	0.79	1,144.34	2.01	399.38	4,936,649.31 <i>gal</i>
Application event totals		0.79	1,144.34	2.01	399.38	
11/20/2022	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	15.55	31,172.35	23.75	230.83	232,657.92 <i>gal</i>
Canal Water	Ground water	0.36	0.00	26,893.53	186.55	4,350,116.37 <i>gal</i>
Application event totals		15.91	31,172.35	26,917.28	417.38	

12/20/2022		Surface (Irrigation)		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	4,287,552.77 gal	
Application event totals		0.35	0.00	26,506.74	183.87		

01/15/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	180.00 Gal.			
Canal Water	Ground water	0.00	1,223.65	30,468.98	116.25	5,278,793.21 gal			
Application event totals		17.70	1,223.65	30,468.98	116.25				

02/10/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Well Water	Ground water	0.00	906.41	1.06	219.80	3,910,217.13 gal			
Lagoon Water Effluent	Process wastewater	17.31	41,460.10	4.06	162.19	231,680.37 gal			
Application event totals		17.31	42,366.51	5.12	381.99				

02/25/2023		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			
Well Water	Ground water	0.00	1,099.02	1.28	266.51	4,741,138.17 gal			
Application event totals		0.00	1,099.02	1.28	266.51				

03/18/2023		Surface (Irrigation)		No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount			
Lagoon Water Effluent	Process wastewater	17.31	41,460.10	4.06	162.19	231,680.37 gal			
Well Water	Ground water	0.00	1,087.69	1.27	263.77	4,692,260.74 gal			
Application event totals		17.31	42,547.79	5.33	425.96				

Field name: 35-6

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	203.96	69.81	221.28	7,553.92	880.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,120.00 <i>Lbs</i>
Application event totals		217.96	69.81	221.28	7,553.92	
04/27/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,055.97	26,293.60	100.32	10,123,117.34 <i>gal</i>
Application event totals		0.00	1,055.97	26,293.60	100.32	
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	1,201.90	1.40	291.46	11,522,106.25 <i>gal</i>
Application event totals		0.00	1,201.90	1.40	291.46	
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	1,133.01	28,212.01	107.64	10,861,714.24 <i>gal</i>
Application event totals		0.00	1,133.01	28,212.01	107.64	
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	1,133.01	28,212.01	107.64	10,861,714.24 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	400.00 <i>Gal.</i>
Application event totals		17.70	1,133.01	28,212.01	107.64	
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	32.61	51,037.23	39.52	298.03	892,832.94 <i>gal</i>

Well Water	Ground water	0.00	1,373.21	1.60	333.00	13,164,397.53 <i>gal</i>
Application event totals		32.61	52,410.44	41.12	631.03	
06/13/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	473,570.73 <i>gal</i>
Canal Water	Ground water	0.00	1,350.32	33,623.08	128.28	12,944,991.27 <i>gal</i>
Application event totals		17.30	28,421.16	33,644.04	286.36	
06/27/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,323.59	1.55	320.97	12,688,654.75 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	800.00 <i>Gal.</i>
Application event totals		35.39	1,323.59	1.55	320.97	
07/11/2023	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	1,178.33	1.38	285.75	11,296,182.40 <i>gal</i>
Application event totals		0.00	1,178.33	1.38	285.75	

Field name: 35-7S

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	502.74 <i>Lbs</i>
Corral Solids	Corral Solids	185.41	63.46	201.16	6,867.20	359.10 <i>ton</i>
Application event totals		199.41	63.46	201.16	6,867.20	
04/29/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,136.19	28,291.01	107.94	4,889,203.44 <i>gal</i>
Application event totals		0.00	1,136.19	28,291.01	107.94	
05/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,201.90	29,927.30	114.18	5,171,985.42 <i>gal</i>
Application event totals		0.00	1,201.90	29,927.30	114.18	
05/14/2023	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
Well Water	Ground water	0.00	1,121.68	1.31	272.01	4,826,796.25 <i>gal</i>
Application event totals		0.00	1,121.68	1.31	272.01	
05/25/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	179.55 <i>Gal.</i>
Canal Water	Ground water	0.00	1,121.68	27,929.89	106.56	4,826,796.25 <i>gal</i>
Application event totals		17.70	1,121.68	27,929.89	106.56	
06/08/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,332.42	33,177.33	126.58	5,733,649.22 <i>gal</i>

Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	212,574.06 <i>gal</i>
Application event totals		17.30	28,403.26	33,198.29	284.66	
06/22/2023	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	1,323.59	1.55	320.97	5,695,619.88 <i>gal</i>
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	212,574.06 <i>gal</i>
Application event totals		17.30	28,394.43	22.51	479.05	
07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	179.55 <i>Gal.</i>
Well Water	Ground water	0.00	1,363.69	1.59	330.70	5,868,214.46 <i>gal</i>
Application event totals		17.70	1,363.69	1.59	330.70	
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	1,200.99	1.40	291.24	5,168,085.26 <i>gal</i>
Application event totals		0.00	1,200.99	1.40	291.24	

Field name: 35-8

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

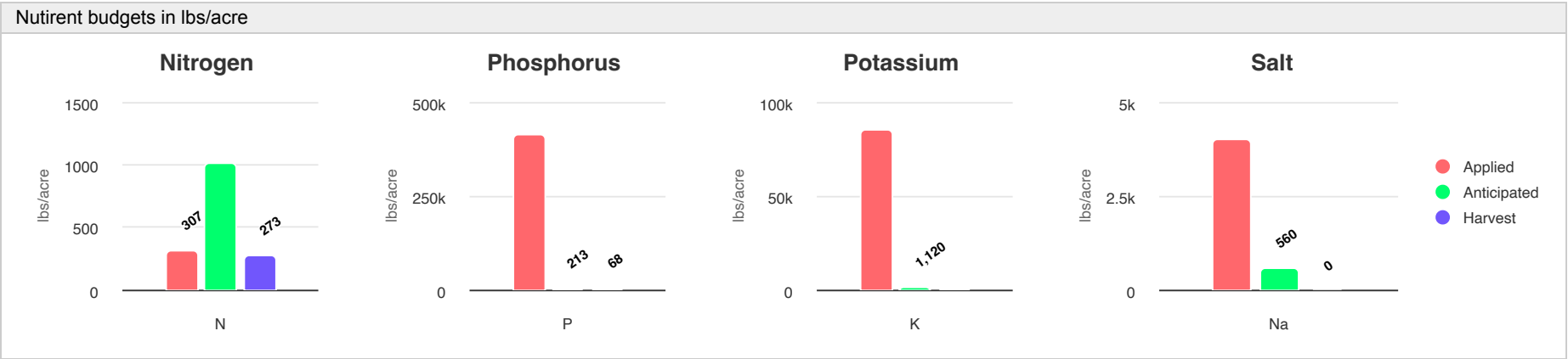
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	203.96	69.81	221.28	7,553.92	418.00 <i>ton</i>
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	532.00 <i>Lbs</i>
Application event totals		217.96	69.81	221.28	7,553.92	
04/29/2023	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	0.00	1,152.50	28,697.26	109.49	5,248,054.43 <i>gal</i>
Application event totals		0.00	1,152.50	28,697.26	109.49	
05/12/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,166.55	29,047.09	110.82	5,312,029.72 <i>gal</i>
Application event totals		0.00	1,166.55	29,047.09	110.82	
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	5,056,128.08 <i>gal</i>
Application event totals		0.00	1,110.35	27,647.77	105.48	
05/27/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,133.01	1.32	274.76	5,159,314.26 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	190.00 <i>Gal.</i>
Application event totals		17.70	1,133.01	1.32	274.76	
06/10/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	224,946.10 <i>gal</i>

Canal Water	Ground water	0.00	1,332.42	33,177.33	126.58	6,067,353.69 <i>gal</i>
Application event totals		17.30	28,403.26	33,198.29	284.66	
06/24/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	17.30	27,070.84	20.96	158.08	224,946.10 <i>gal</i>
Well Water	Ground water	0.00	1,390.43	1.62	337.18	6,331,510.63 <i>gal</i>
Application event totals		17.30	28,461.27	22.58	495.26	
07/08/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,363.69	33,955.98	129.55	6,209,750.78 <i>gal</i>
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	190.00 <i>Gal.</i>
Application event totals		17.70	1,363.69	33,955.98	129.55	
07/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,167.00	1.36	283.00	5,314,093.79 <i>gal</i>
Application event totals		0.00	1,167.00	1.36	283.00	

B. NUTRIENT BUDGET

26-4 - 05/01/2023: Corn Silage

Field name: 26-4 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	35.39	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	257.90	403,579.09	312.50	2,356.68
Fresh water	0.00	8,794.43	84,631.05	1,631.35
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	307.29	412,373.52	84,943.55	3,988.03
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	272.73	67.54	333.60	0.00
Nutrient balance	34.56	412,305.98	84,609.95	3,988.03
Applied to removed ratio	1.13	6,105.22	254.63	0.00

Fresh water applied	
78,933,952.52	gallons
2,906.87	acre-inches
38.81	inches/acre

Process wastewater applied	
6,610,032.11	gallons
243.43	acre-inches
3.25	inches/acre

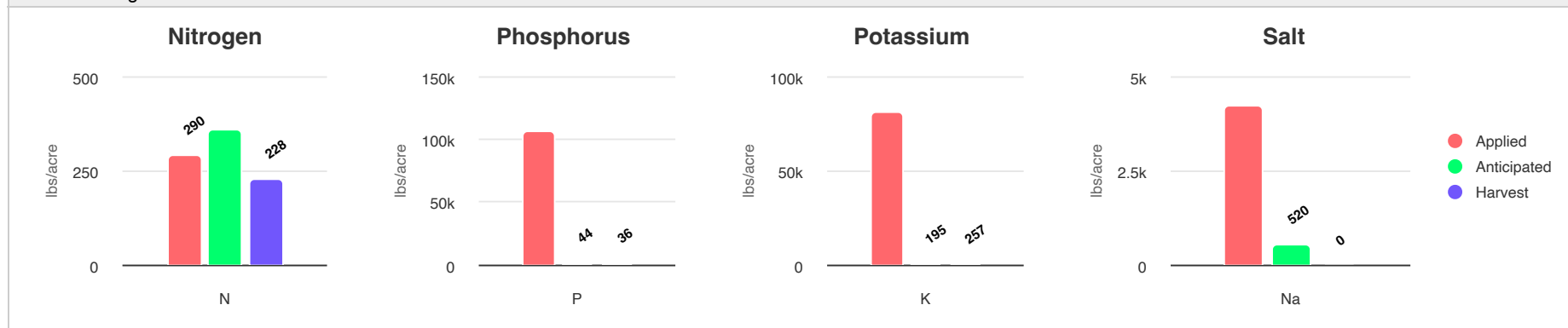
Total Harvests for the crop	
1	harvests

Field name: 26-4

Crop: Triticale

Plant date: 10/15/2022

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	243.39	90.62	239.25	2,116.40
Process wastewater	44.54	100,137.02	32.15	509.30
Fresh water	1.78	6,023.32	80,984.83	1,580.01
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	289.71	106,250.96	81,256.23	4,205.71
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	228.03	35.92	257.19	0.00
Nutrient balance	61.68	106,215.04	80,999.04	4,205.71
Applied to removed ratio	1.27	2,957.77	315.94	0.00

Fresh water applied

64,129,514.85 gallons
 2,361.67 acre-inches
 31.53 inches/acre

Process wastewater applied

1,295,566.31 gallons
 47.71 acre-inches
 0.64 inches/acre

Total Harvests for the crop

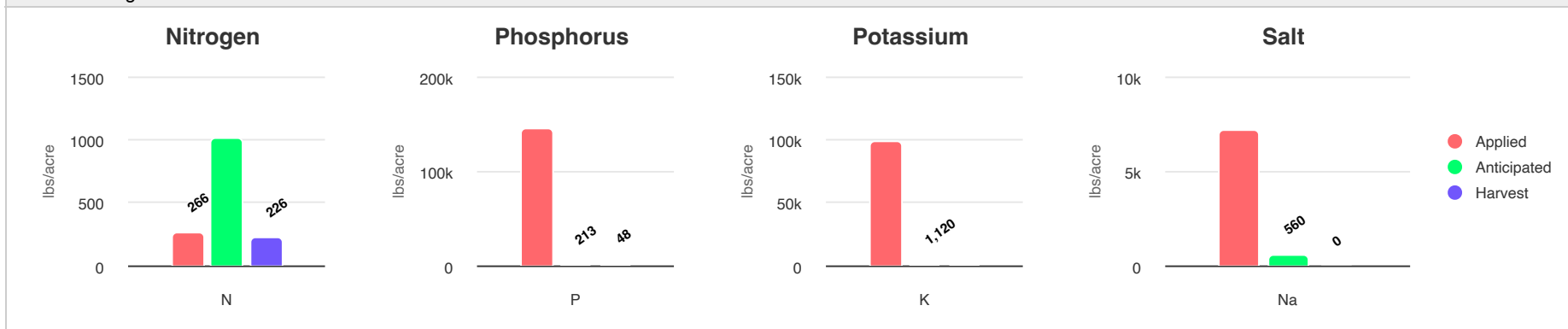
1 harvests

Field name: 35-1

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	129.79	44.42	140.81	4,807.04
Process wastewater	86.97	136,099.28	105.38	794.74
Fresh water	0.00	8,739.14	98,070.55	1,538.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	266.16	144,882.84	98,316.74	7,140.12
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	226.36	48.25	335.16	0.00
Nutrient balance	39.80	144,834.59	97,981.58	7,140.12
Applied to removed ratio	1.18	3,002.57	293.34	0.00

Fresh water applied

82,731,343.09 gallons
 3,046.71 acre-inches
 38.57 inches/acre

Process wastewater applied

2,351,126.70 gallons
 86.58 acre-inches
 1.10 inches/acre

Total Harvests for the crop

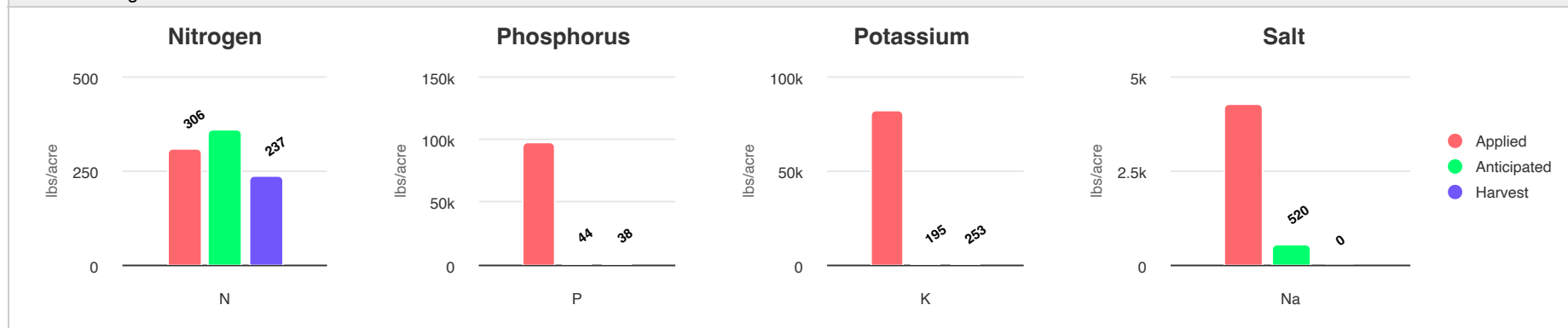
1 harvests

Field name: 35-1

Crop: Triticale

Plant date: 10/25/2022

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	17.70	0.00	0.00	0.00
Dry manure	243.39	90.62	239.25	2,116.40
Process wastewater	43.12	92,489.63	45.84	555.33
Fresh water	1.38	5,149.31	81,116.68	1,604.32
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	305.59	97,729.56	81,401.77	4,276.05
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	237.33	37.66	253.02	0.00
Nutrient balance	68.26	97,691.90	81,148.75	4,276.05
Applied to removed ratio	1.29	2,594.95	321.72	0.00

Fresh water applied

69,126,556.19 gallons
 2,545.70 acre-inches
 32.22 inches/acre

Process wastewater applied

1,362,194.75 gallons
 50.17 acre-inches
 0.64 inches/acre

Total Harvests for the crop

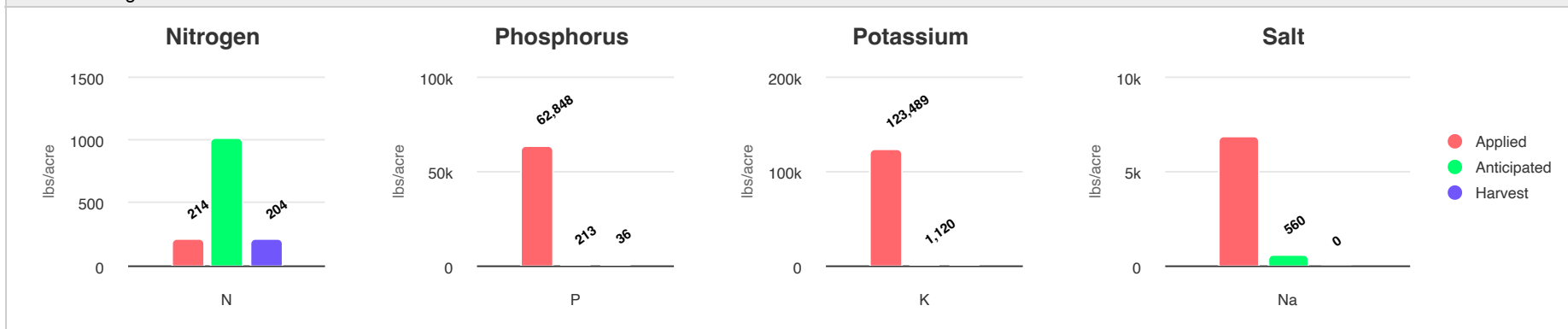
1 harvests

Field name: 35-2

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	129.79	44.42	140.81	4,807.04
Process wastewater	34.60	54,141.68	41.92	316.16
Fresh water	0.36	8,661.88	123,306.65	1,723.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	214.15	62,847.98	123,489.38	6,847.11
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	203.96	35.63	248.82	0.00
Nutrient balance	10.19	62,812.36	123,240.57	6,847.11
Applied to removed ratio	1.05	1,764.02	496.31	0.00

Fresh water applied

81,763,536.22 gallons
 3,011.07 acre-inches
 42.78 inches/acre

Process wastewater applied

833,366.08 gallons
 30.69 acre-inches
 0.44 inches/acre

Total Harvests for the crop

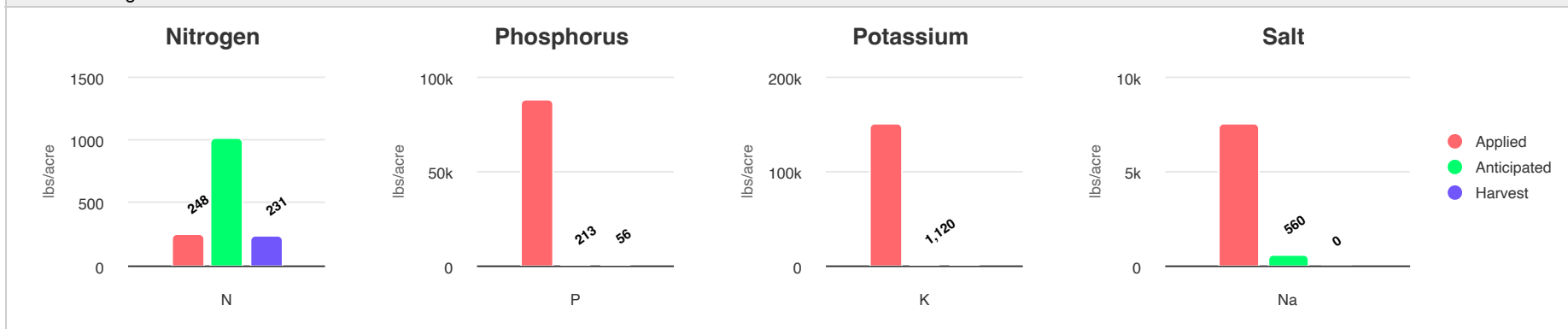
1 harvests

Field name: 35-3

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	148.33	50.77	160.93	5,493.76
Process wastewater	50.31	78,728.96	60.96	459.73
Fresh water	0.34	8,652.81	148,950.69	1,544.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	248.38	87,432.54	149,172.58	7,498.25
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	230.95	55.84	305.52	0.00
Nutrient balance	17.43	87,376.70	148,867.06	7,498.25
Applied to removed ratio	1.08	1,565.78	488.26	0.00

Fresh water applied

83,709,120.26 gallons
 3,082.72 acre-inches
 42.42 inches/acre

Process wastewater applied

1,251,245.60 gallons
 46.08 acre-inches
 0.63 inches/acre

Total Harvests for the crop

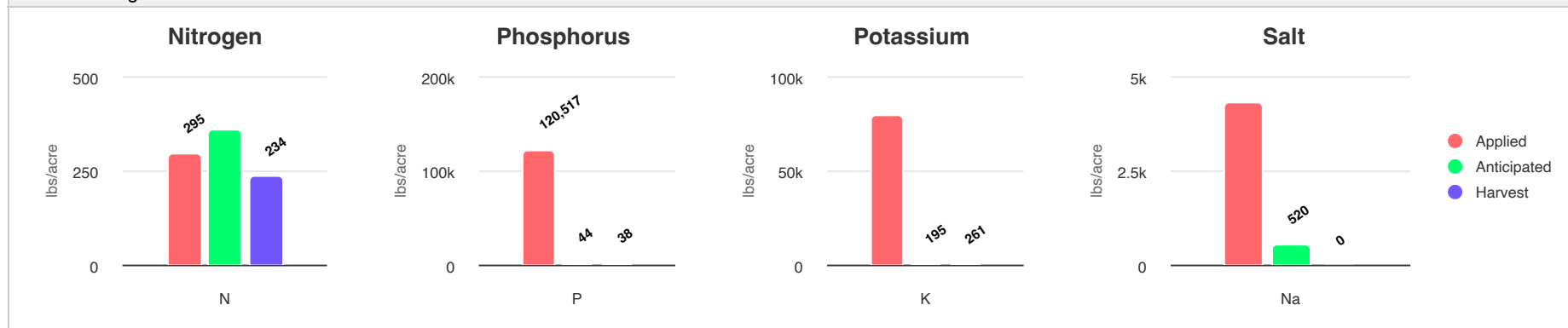
1 harvests

Field name: 35-3

Crop: Triticale

Plant date: 10/28/2022

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	243.39	90.62	239.25	2,116.40
Process wastewater	50.17	114,092.55	31.87	555.21
Fresh water	1.80	6,333.53	78,882.82	1,620.53
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	295.36	120,516.70	79,153.94	4,292.14
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	233.54	38.06	261.27	0.00
Nutrient balance	61.81	120,478.64	78,892.67	4,292.14
Applied to removed ratio	1.26	3,166.28	302.96	0.00

Fresh water applied

63,414,864.12 gallons
 2,335.35 acre-inches
 32.13 inches/acre

Process wastewater applied

1,405,184.35 gallons
 51.75 acre-inches
 0.71 inches/acre

Total Harvests for the crop

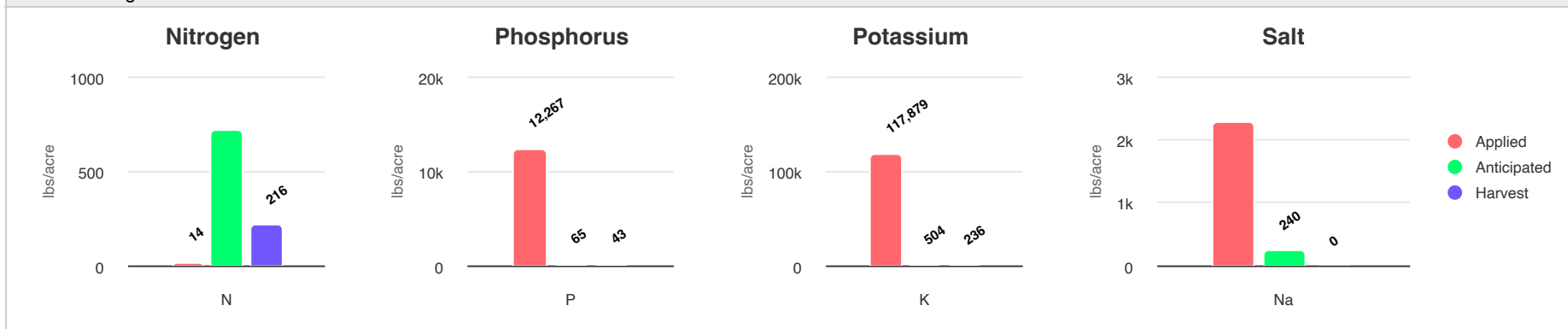
1 harvests

Field name: 35-4

Crop: Alfalfa

Plant date: 01/01/2022

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	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	12,267.34	117,878.59	2,276.60
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	12,267.34	117,878.59	2,276.60
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	216.21	42.81	236.17	0.00
Nutrient balance	-202.21	12,224.53	117,642.42	2,276.60
Applied to removed ratio	0.06	286.56	499.12	0.00

Fresh water applied

110,251,829.74 gallons
 4,060.20 acre-inches
 54.14 inches/acre

Process wastewater applied

0.00 gallons
 0.00 acre-inches
 0.00 inches/acre

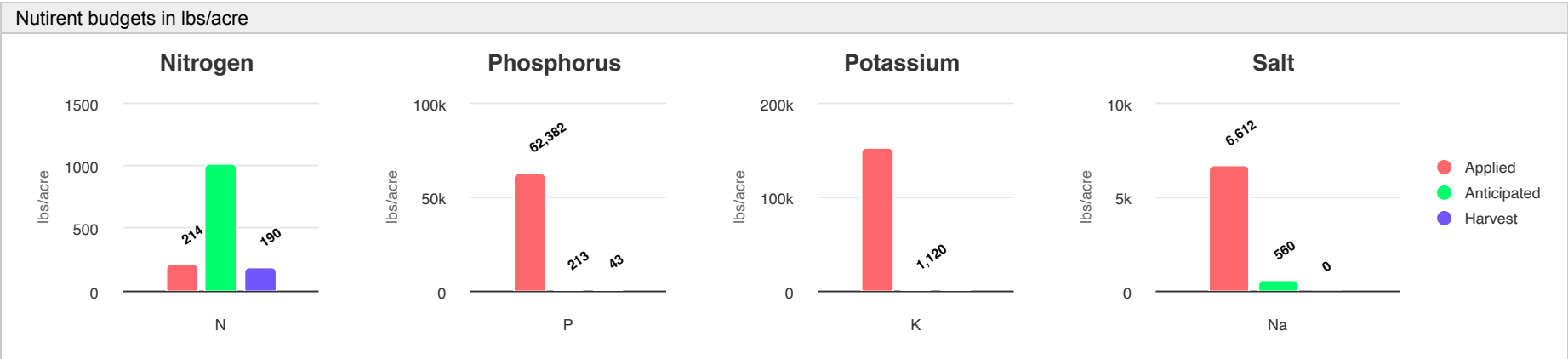
Total Harvests for the crop

8 harvests

Field name: 35-5N

Crop: Corn Silage

Plant date: 05/01/2023



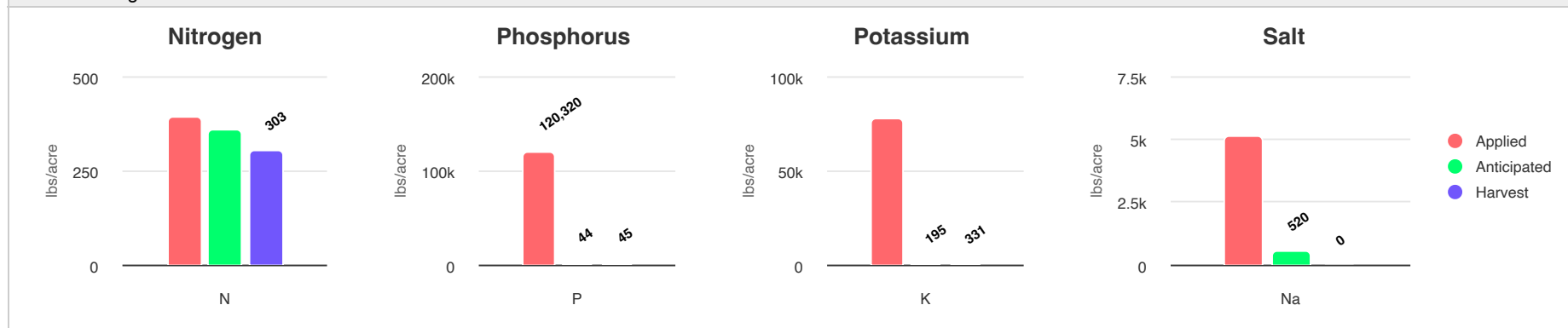
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	
Existing soil nutrient content	0.00	0.00	0.00	0.00	Fresh water applied
Plowdown credit	0.00	0.00	0.00	0.00	46,037,131.76 gallons
Commercial fertilizer / Other	35.40	0.00	0.00	0.00	1,695.39 acre-inches
Dry manure	129.79	44.42	140.81	4,807.04	41.35 inches/acre
Process wastewater	34.60	54,141.68	41.92	316.16	
Fresh water	0.41	8,196.22	152,169.85	1,488.88	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	485,410.00 gallons
Total nutrients applied	214.20	62,382.32	152,352.58	6,612.08	17.88 acre-inches
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00	0.44 inches/acre
Actual crop nutrient removal	189.56	42.60	269.77	0.00	
Nutrient balance	24.64	62,339.72	152,082.81	6,612.08	Total Harvests for the crop
Applied to removed ratio	1.13	1,464.21	564.74	0.00	1 harvests

Field name: 35-5N

Crop: Triticale

Plant date: 10/25/2022

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	340.74	126.87	334.95	2,962.96
Process wastewater	50.17	114,092.55	31.87	555.21
Fresh water	1.74	6,100.14	77,262.28	1,567.47
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	392.65	120,319.56	77,629.10	5,085.64
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	303.34	45.05	331.50	0.00
Nutrient balance	89.31	120,274.51	77,297.60	5,085.64
Applied to removed ratio	1.29	2,670.76	234.18	0.00

Fresh water applied

34,702,361.92 gallons
 1,277.97 acre-inches
 31.17 inches/acre

Process wastewater applied

792,687.92 gallons
 29.19 acre-inches
 0.71 inches/acre

Total Harvests for the crop

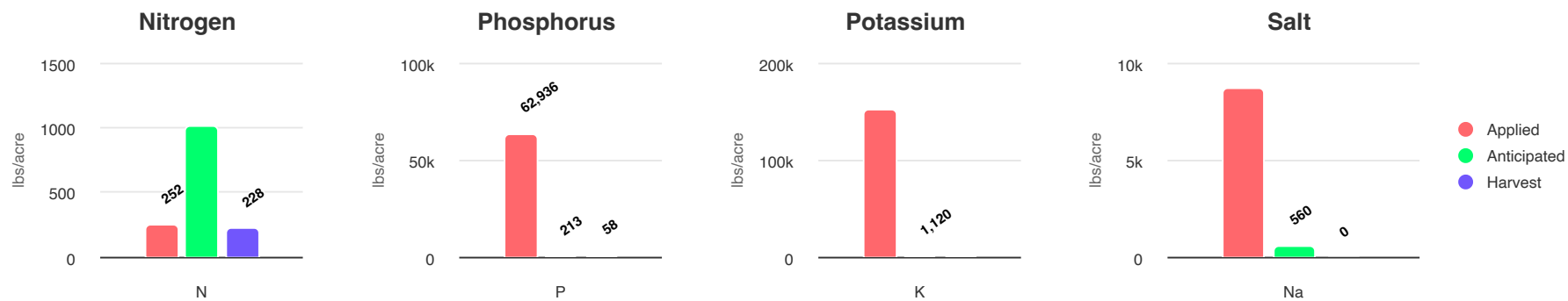
1 harvests

Field name: 35-5S

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	185.41	63.46	201.16	6,867.20
Process wastewater	34.60	54,141.68	41.92	316.16
Fresh water	0.33	8,730.99	151,880.02	1,538.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	252.04	62,936.13	152,123.10	8,722.27
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	228.09	57.99	292.63	0.00
Nutrient balance	23.95	62,878.14	151,830.47	8,722.27
Applied to removed ratio	1.11	1,085.31	519.84	0.00

Fresh water applied

41,706,375.44 gallons
 1,535.90 acre-inches
 42.66 inches/acre

Process wastewater applied

426,213.66 gallons
 15.70 acre-inches
 0.44 inches/acre

Total Harvests for the crop

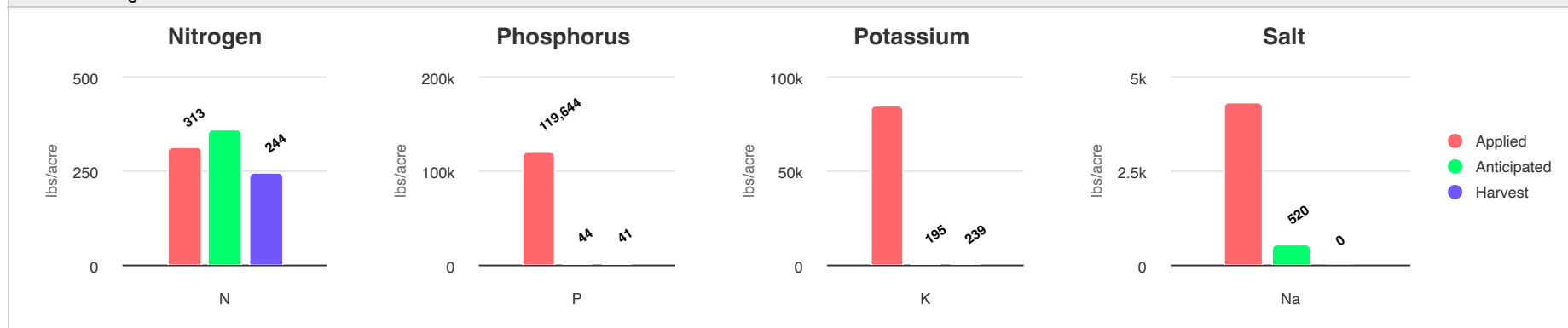
1 harvests

Field name: 35-5S

Crop: Triticale

Plant date: 10/25/2022

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	17.70	0.00	0.00	0.00
Dry manure	243.39	90.62	239.25	2,116.40
Process wastewater	50.17	114,092.55	31.87	555.21
Fresh water	1.50	5,461.11	83,874.87	1,636.13
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	312.76	119,644.28	84,145.99	4,307.74
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	243.61	41.04	239.40	0.00
Nutrient balance	69.15	119,603.24	83,906.59	4,307.74
Applied to removed ratio	1.28	2,915.04	351.49	0.00

Fresh water applied

32,196,727.69 gallons
 1,185.70 acre-inches
 32.94 inches/acre

Process wastewater applied

696,018.66 gallons
 25.63 acre-inches
 0.71 inches/acre

Total Harvests for the crop

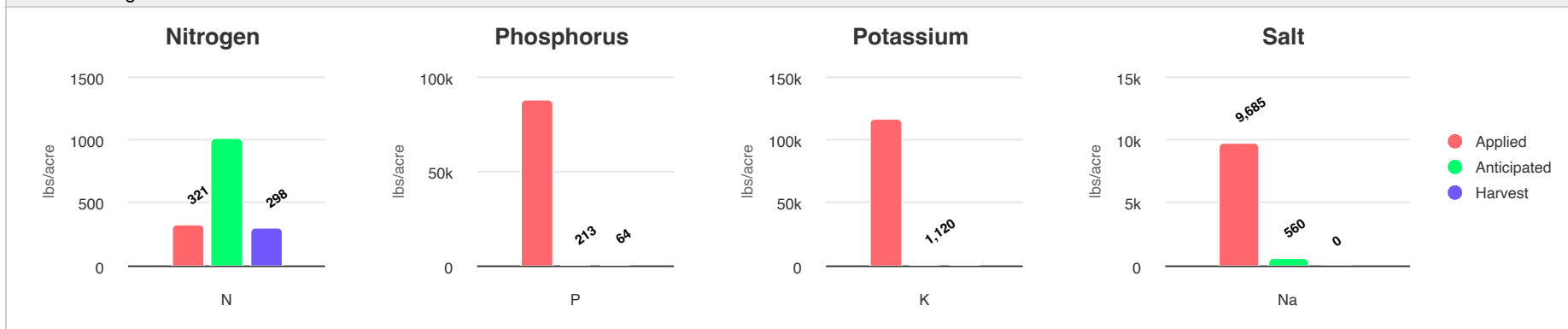
1 harvests

Field name: 35-6

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	53.09	0.00	0.00	0.00
Dry manure	203.96	69.81	221.28	7,553.92
Process wastewater	49.91	78,108.07	60.48	456.11
Fresh water	0.00	9,749.34	116,346.63	1,675.06
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	320.96	87,927.22	116,628.39	9,685.09
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	298.06	64.34	334.45	0.00
Nutrient balance	22.89	87,862.88	116,293.93	9,685.09
Applied to removed ratio	1.08	1,366.61	348.71	0.00

Fresh water applied

93,462,878.02 gallons
 3,441.92 acre-inches
 43.02 inches/acre

Process wastewater applied

1,366,403.67 gallons
 50.32 acre-inches
 0.63 inches/acre

Total Harvests for the crop

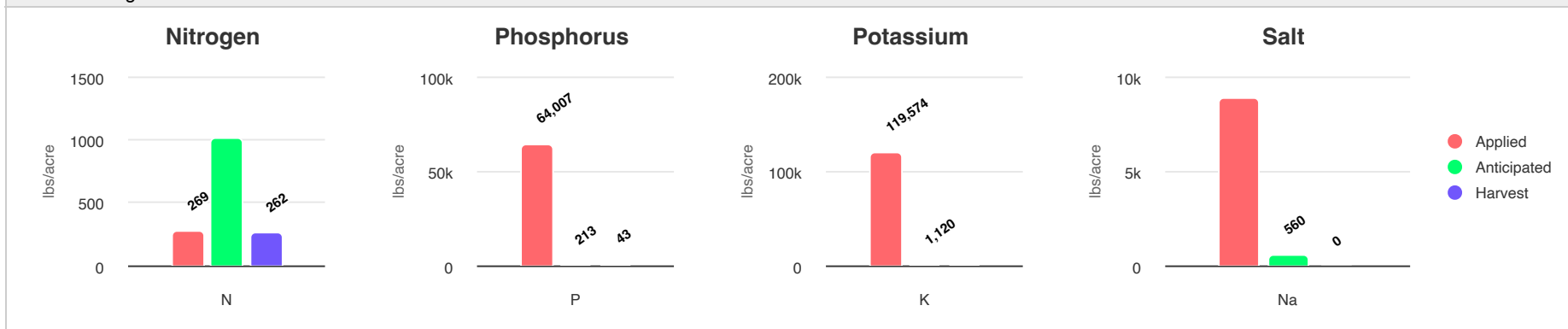
1 harvests

Field name: 35-7S

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	185.41	63.46	201.16	6,867.20
Process wastewater	34.60	54,141.68	41.92	316.16
Fresh water	0.00	9,802.14	119,331.38	1,670.18
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	269.41	64,007.28	119,574.46	8,853.54
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	262.13	43.42	232.97	0.00
Nutrient balance	7.29	63,963.86	119,341.49	8,853.54
Applied to removed ratio	1.03	1,474.21	513.27	0.00

Fresh water applied

42,180,350.19 gallons
 1,553.36 acre-inches
 43.26 inches/acre

Process wastewater applied

425,148.12 gallons
 15.66 acre-inches
 0.44 inches/acre

Total Harvests for the crop

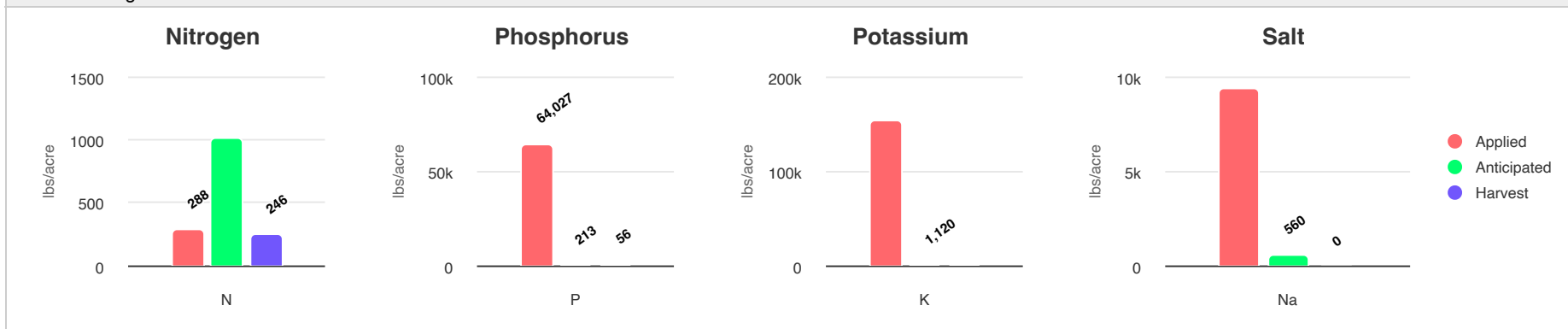
1 harvests

Field name: 35-8

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	35.40	0.00	0.00	0.00
Dry manure	203.96	69.81	221.28	7,553.92
Process wastewater	34.60	54,141.68	41.92	316.16
Fresh water	0.00	9,815.95	152,529.73	1,476.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	287.96	64,027.44	152,792.93	9,346.94
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	245.85	55.74	302.95	0.00
Nutrient balance	42.11	63,971.69	152,489.98	9,346.94
Applied to removed ratio	1.17	1,148.60	504.35	0.00

Fresh water applied

44,698,235.38 gallons
 1,646.08 acre-inches
 43.32 inches/acre

Process wastewater applied

449,892.19 gallons
 16.57 acre-inches
 0.44 inches/acre

Total Harvests for the crop

1 harvests

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090013A

Sample and source description name: T3090013A

Sample date: 03/17/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 40.8%

	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	15,660.00	5,360.00	16,990.00	13,620.00	9,670.00	6,160.00	3,700.00	1,130.00	16,990.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167053A

Sample and source description name: T3167053A

Sample date: 06/12/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 8.2%

	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	21,940.00	5,620.00	10,050.00	10,580.00	8,120.00	4,570.00	2,600.00	866.00	10,050.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263087A

Sample and source description name: T3263087A

Sample date: 09/15/2023 Material type: Corral solids Source of analysis: Lab Analysis Method of reporting: As-is

Moisture: 9%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	27,200.00	10,960.00	43,320.00	28,430.00	10,080.00	10,570.00	6,970.00	2,229.00	43,320.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362046A

Sample and source description name: T3362046A

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

Moisture: 77.7%

	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	13,430.00	2,130.00	6,850.00	6,800.00	2,560.00	1,770.00	1,670.00	489.00	6,850.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089024A

Sample and source description name: T3089024A

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	322.00	0.00	187.60	0.24	77.20	75.60	188.79	75.60	188.63	0.00	0.00	139.33	246.98	4.43	3,020.00
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

T3167014A

Sample and source description name: T3167014A

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	350.00	0.00	207.20	0.18	54.80	424.32	156.89	68.36	167.52	0.00	0.00	208.62	222.87	4.13	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

T3263052A

Sample and source description name: T3263052A

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	238.00	0.00	173.60	0.10	45.50	283.64	110.34	44.75	150.20	0.00	0.00	130.34	190.16	3.95	2,060.00
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

T3362080A

Sample and source description name: T3362080A

Sample date: 12/22/2023 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	350.00	0.00	212.80	0.10	59.50	443.87	145.13	56.79	144.15	0.00	0.00	200.08	169.00	4.16	3,300.00
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

T3362084A

Sample and source description name: T3362084A

Sample date: 12/22/2023 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	658.00	0.00	296.80	0.05	78.00	391.03	100.01	77.19	168.67	0.00	0.00	245.11	228.57	4.87	3,840.00
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

W300-04

T3228027A

Sample and source description name: T3228027A

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	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	0.00	0.00	0.00	71.41	1.11	92.58	0.00	0.00	136.96	46.43	0.85	405.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

W300-05

T3228027B

Sample and source description name: T3228027B

Sample date: 08/14/2023 Source of analysis: Lab Analysis

	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	0.00	0.00	0.00	68.22	1.23	79.91	0.00	0.00	145.06	58.06	0.84	375.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

Canal - Kern Island

T3362072D-164-170

Sample and source description name: T3362072D-164-170

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	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

JR-DW2

T3362061A

Sample and source description name: T3362061A

Sample date: 12/27/2023 Source of analysis: Lab Analysis

	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	2.80	0.00	0.00	41.04	1.37	69.34	0.00	0.00	71.69	18.11	0.50	180.00
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

26-4

3220_1

Sample
description: 3220_1

Sample date: 09/09/2022 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	32.34	0.00	0.00	0.00	0.83	3.89	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-1

3344_1

Sample
description: 3344_1

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	34.70	0.00	0.00	0.00	0.95	3.07	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-2

2873_1

Sample
description: 2873_1

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	51.10	0.00	0.00	0.00	0.73	1.86	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-3

3344_2

Sample
description: 3344_2

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	18.97	0.00	0.00	0.00	0.61	1.57	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-4

7360_1

Sample
description: 7360_1

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	6.00	0.00	0.00	0.00	0.57	0.00	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-5N

2873_2

Sample
description: 2873_2

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	24.69	0.00	0.00	0.00	1.07	1.18	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-5S

2873_3

Sample
description: 2873_3

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	36.04	0.00	0.00	0.00	1.28	2.14	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-6

3344_3

Sample
description: 3344_3

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	33.51	0.00	0.00	0.00	1.01	1.45	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-8

3344_5

Sample
description: 3344_5

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	20.45	0.00	0.00	0.00	1.17	2.82	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-7S

3344_4

Sample
description: 3344_4

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	19.12	0.00	0.00	0.00	0.73	2.01	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

E. PLANT TISSUE ANALYSES

35-3 - 10/15/2022: Triticale

T3167034D

Sample description:	T3167034D				
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	14,910.00	2,430.00	16,680.00	560.00	0.00
DL	100.00	200.00	500.00		0.10

35-1 - 10/18/2022: Triticale

T3167034B

Sample description:	T3167034B				
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	15,880.00	2,520.00	16,930.00	450.00	0.00
DL	100.00	200.00	500.00		0.10

26-4 - 10/01/2022: Triticale

T3167034A

Sample
description: T3167034A

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	17,520.00	2,760.00	19,760.00	690.00	0.00
DL	100.00	200.00	500.00		0.10

35-5N - 10/15/2022: Triticale

T3167034E

Sample
description: T3167034E

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	16,160.00	2,400.00	17,660.00	1,180.00	0.00
DL	100.00	200.00	500.00		0.10

35-5S - 10/15/2022: Triticale

T3167034F

Sample
description: T3167034F

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	15,610.00	2,630.00	15,340.00	300.00	0.00
DL	100.00	200.00	500.00		0.10

35-2 - 04/20/2023: Corn Silage

T3342014C

Sample
description: T3342014C

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	14,140.00	2,470.00	17,250.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

35-8 - 04/20/2023: Corn Silage

T3348013C

Sample
description: T3348013C

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	14,510.00	3,290.00	17,880.00	100.00	0.00
DL	100.00	200.00	500.00		0.10

35-3 - 04/20/2023: Corn Silage

T3342014D

Sample
description: T3342014D

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	13,690.00	3,310.00	18,110.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

35-7S - 04/20/2023: Corn Silage

T3348013B

Sample
description: T3348013B

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	16,180.00	2,680.00	14,380.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

35-5S - 04/20/2023: Corn Silage

T3348011A

Sample
description: T3348011A

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	13,570.00	3,450.00	17,410.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

35-6 - 04/20/2023: Corn Silage

T3348013A

Sample
description: T3348013A

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	15,890.00	3,430.00	17,830.00	120.00	0.00
DL	100.00	200.00	500.00		0.10

35-1 - 04/20/2023: Corn Silage

T3342014B

Sample
description: T3342014B

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	12,150.00	2,590.00	17,990.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

35-5N - 04/20/2023: Corn Silage

T3342014F

Sample
description: T3342014F

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	11,390.00	2,560.00	16,210.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

35-4 - 01/01/2023: Alfalfa

T3342014E

Sample
description: 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

26-4 - 04/20/2023: Corn Silage

T3342014A

Sample
description: T3342014A

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	13,890.00	3,440.00	16,990.00	60.00	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

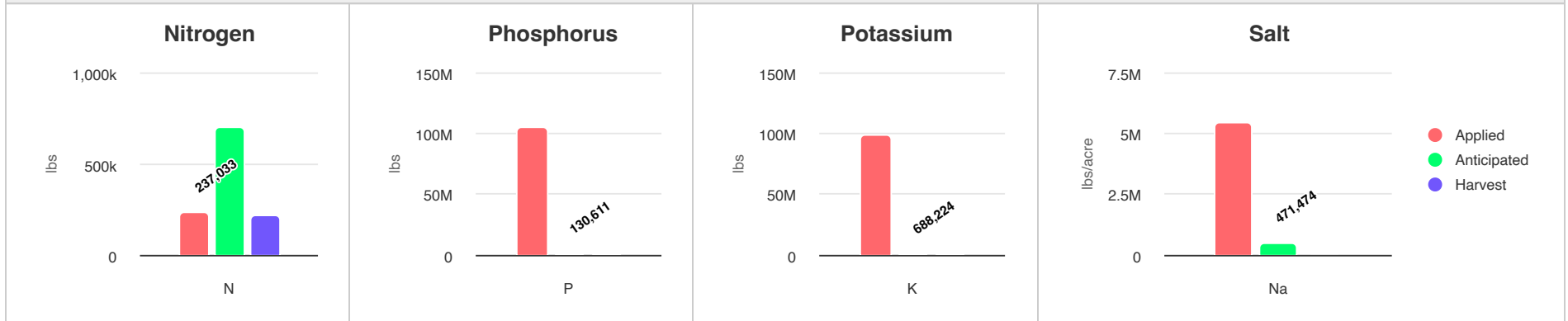
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

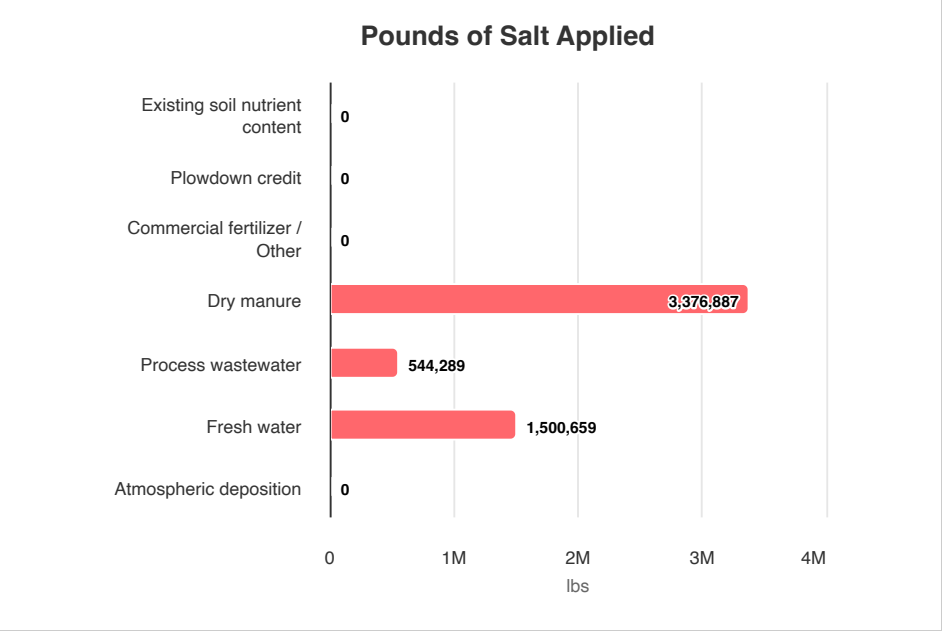
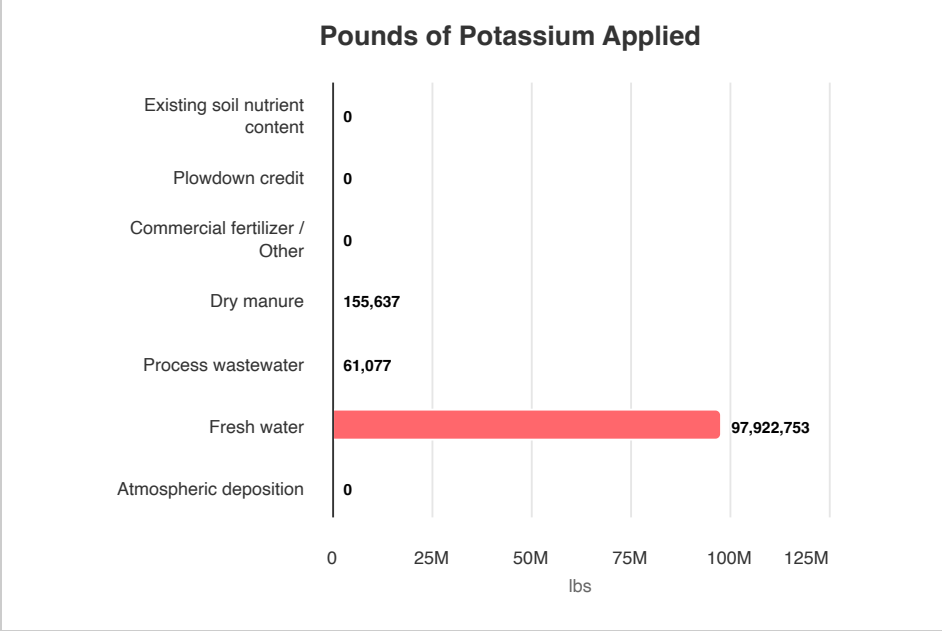
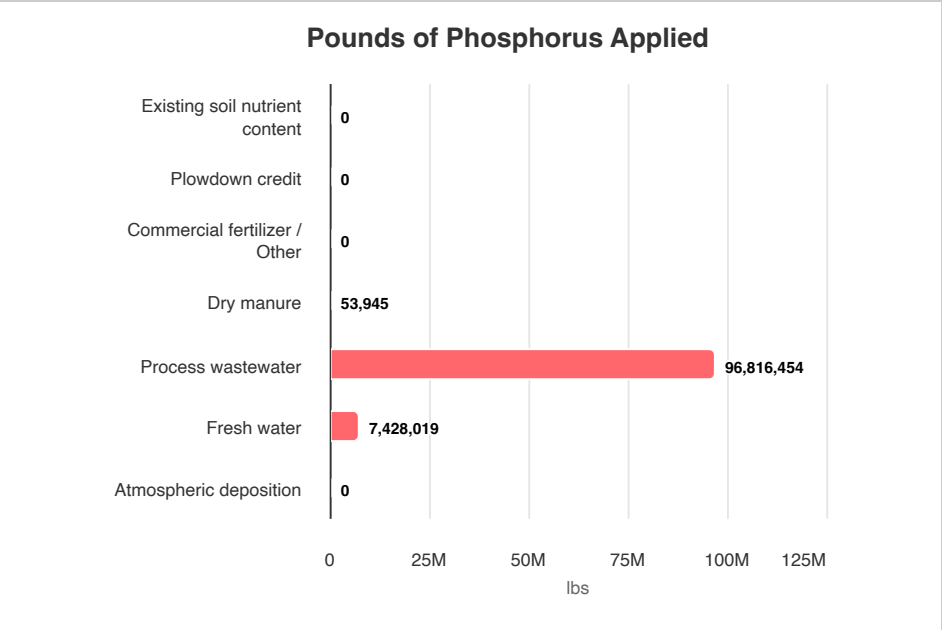
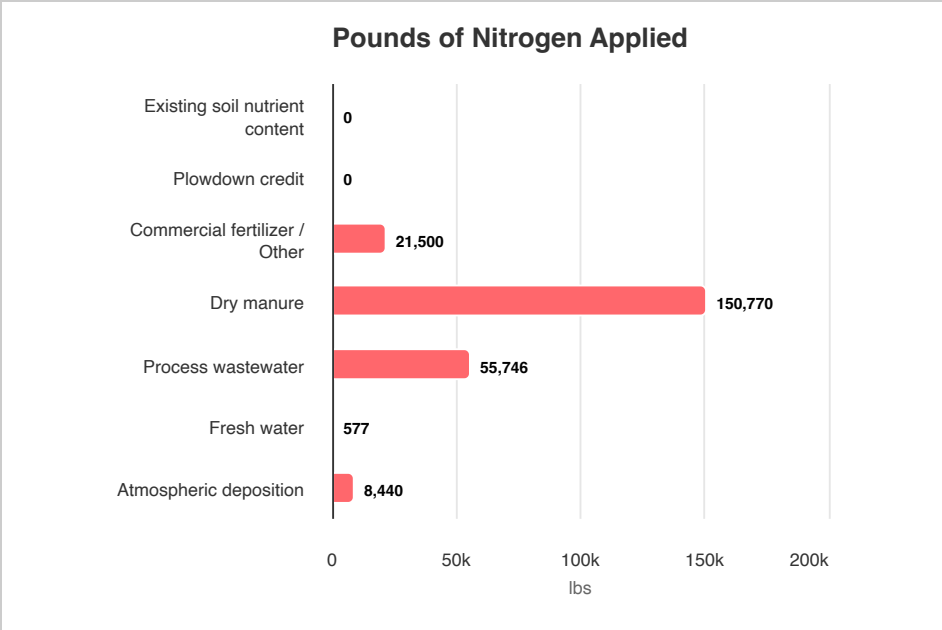
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	21,499.70	0.00	0.00	0.00
Dry manure	150,770.06	53,945.50	155,637.08	7,553.92
Process wastewater	55,745.62	96,816,454.40	61,076.84	316.16
Fresh water	577.25	7,428,018.98	97,922,753.03	1,476.86
Atmospheric deposition	8,440.32	0.00	0.00	0.00
Total nutrients applied	237,032.95	104,298,418.87	98,139,466.94	5,421,835.61
Anticipated crop nutrient removal	695,027.53	130,611.10	688,223.70	471,474.40
Actual crop nutrient removal	218,260.82	43,063.88	257,576.59	0.00
Nutrient balance	18,772.13	104,255,355.00	97,881,890.36	5,421,835.61
Applied to removed ratio	1.09	2,421.95	381.01	0.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

Nutrient budgets in lbs/acre



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

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?	<u>No</u>
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ADDITIONAL NOTES

A. NOTES

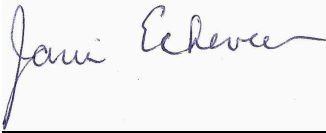
Well Specific Notes

2023 Non Op Wells: W300-10, W300-11

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.



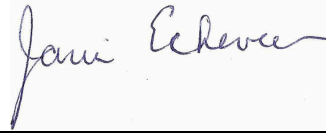
SIGNATURE OF OWNER OF FACILITY

Javier Echeverria

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

Javier 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 PDF/A 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: Javier Echeverria
Facility Name: J&R Dairy
Facility Address: 4403 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Javier 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

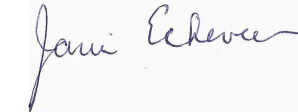
Destination Information:

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 %
Jan 1, 2023 - Jan, 31 2023	3,164	ton	70 %
Jun 1, 2023 - Jun, 30 2023	4,169	ton	68 %
Jul 1, 2023 - Jul, 31 2023	6,497	ton	66 %
Aug 1, 2023 - Aug, 31 2023	18,488	ton	70 %
Dec 1, 2023 - Dec, 31 2023	7,348	ton	66 %
Total	39,666		

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Javier Echeverria
Facility Name: J&R Dairy
Facility Address: 4403 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Javier 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

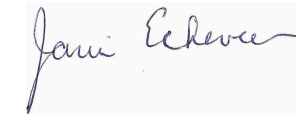
Destination Information:

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

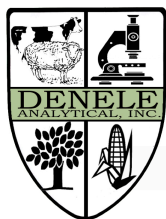
Signature of Hauler:



Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	17,699	ton	68 %
Aug 1, 2023 - Aug, 31 2023	2,356	ton	68 %
Sep 1, 2023 - Sep, 30 2023	14,129	ton	69 %
Total	34,184		

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

J & R Dairy
4403 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

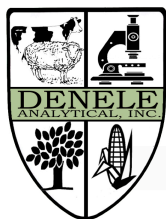
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
JR-DW2	T3362061A	Boron (B)	EPA 200.7	0.190	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

J & R Dairy
4403 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

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

PURCHASE ORDER:

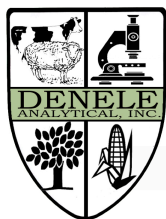
RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/2/24

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
JR-DW2	T3362061A	Electrical Conductivity (EC)	EPA 120.1 and	0.503	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	150	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	71.7	mg/L
		Sodium (Na)	EPA 200.7	69.3	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.37	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	180	mg/L
		Calcium (Ca)	EPA 200.7	41.0	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	18.1	mg/L
		Soluble Salts (SALT-SOL)	Calculation	322	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -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 (NO ₃ -N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO ₄)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

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Compliance Analysis Report

Customer

J & R Dairy
4403 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: 1/2/24

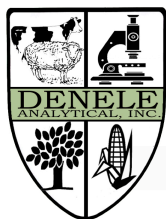
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
JR-DW2	T3362061A	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Compliance Analysis Report

Customer

J & R Dairy
4403 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: 1/8/24

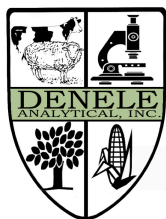
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
JR-DW2	T3362061A	pH (pH)	SM4500-H+ B-2000	7.9	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

J & R Dairy
4403 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: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
JR-DW2	T3362061A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.80	%

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

Dominic P

Lab Name

Donell

J&R Dairy

Ranch: J&R 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

1. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	SW	68	1



CHAIN J&R Dairy
JR-DW2 W
Ranch: J&R Ranch
Date: 12/27/23 11:40A
IW 35.206745, -119.050118

2. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here
Place additional labels on sample bags/bottles

3. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here
Place additional labels on sample bags/bottles

4. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place **CHAIN** Label Here
Place additional labels on sample bags/bottles

5. Location:			
Analysis	Weather	Temp (°F)	# of Bags/Bottles

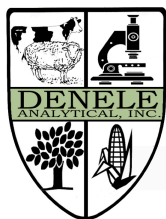
Place **CHAIN** Label Here
Place additional labels on sample bags/bottles

6. Location:			
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		ICON Ag		12/28 10:15A	Logged in By:	Laboratory #
2nd	Albert M. Lopez Jr.			12-28-23 10:15		
3rd						
4th		Donell	12-28-23 12:00		T3362061	

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Compliance Analysis Report

Customer

J & R Dairy
4403 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

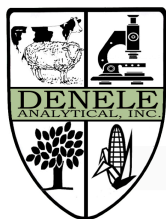
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-04	T3228027A	Boron (B)	EPA 200.7	0.149	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Grower**Consultant:**

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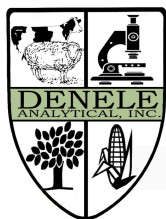
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-04	T3228027A	Electrical Conductivity (EC)	EPA 120.1 and	0.846	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	210	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	137	mg/L
		Sodium (Na)	EPA 200.7	92.6	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.11	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	405	mg/L
		Calcium (Ca)	EPA 200.7	71.4	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	46.4	mg/L
		Soluble Salts (SALT-SOL)	Calculation	541	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.6	101 (T3228024C)	98.8 (T3228024C)			1.80
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	99.6 (T3228024C)	98.1 (T3228024C)			1.56
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO ₃ -N)	103	97.1 (T3228024C)	94.4 (T3228024C)			2.88
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO ₄)	102	114 (T3228024C)	105 (T3228024C)			7.89
Total Dissolved Solids (TDS)	99.5			115 (T3230006A)	120 (Dup)	4.26

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Compliance Analysis Report

Customer

J & R Dairy
4403 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/18/23

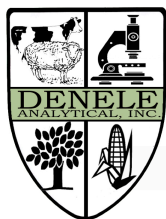
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-04	T3228027A	pH (pH)	SM4500-H+ B-2000	8.3	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
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Bakersfield, CA 93312

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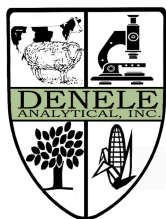
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-04	T3228027A	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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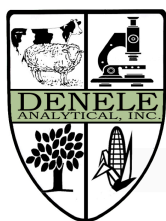
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-05	T3228027B	Boron (B)	EPA 200.7	0.159	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Grower

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PURCHASE ORDER:

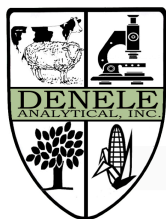
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

Irrigation /Ground Water (H14)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-05	T3228027B	Electrical Conductivity (EC)	EPA 120.1 and	0.839	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	154	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO ₄)	EPA 375.2	145	mg/L
		Sodium (Na)	EPA 200.7	79.9	mg/L
		Ammonia Nitrogen (NH ₃ -N)	SM 4500-NH ₃ D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	1.23	mg/L
		Nitrate Nitrogen (NO ₃ -N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and	375	mg/L
		Calcium (Ca)	EPA 200.7	68.2	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	58.1	mg/L
		Soluble Salts (SALT-SOL)	Calculation	537	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH ₃ -N)	97.6	101 (T3228024C)	98.8 (T3228024C)			1.80
Calcium (Ca)	95.3	103 (T3228029B)	112 (T3228029B)			8.90
Chloride (Cl)	103	99.6 (T3228024C)	98.1 (T3228024C)			1.56
Magnesium (Mg)	95.1	94.5 (T3228029B)	105 (T3228029B)			10.5
Nitrate Nitrogen (NO ₃ -N)	103	97.1 (T3228024C)	94.4 (T3228024C)			2.88
Sodium (Na)	98.5	102 (T3228029B)	117 (T3228029B)			13.5
Sulfate (SO ₄)	102	114 (T3228024C)	105 (T3228024C)			7.89
Total Dissolved Solids (TDS)	99.5			115 (T3230006A)	120 (Dup)	4.26

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Compliance Analysis Report

Customer

J & R Dairy
4403 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

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

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/16/23

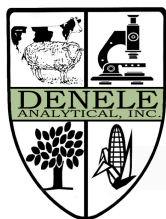
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-05	T3228027B	Icon Sampling Fee (ISF)	1664B	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Compliance Analysis Report

Customer

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4403 Bear Mountain Blvd
Bakersfield, CA 93313

Grower**Consultant:**

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

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ANALYZED DATE: 8/18/23

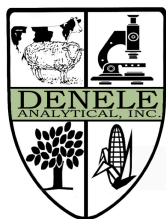
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-05	T3228027B	pH (pH)	SM4500-H+ B-2000	8.4	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
----------------------------	-------	------	-------	-------

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Compliance Analysis Report

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Bakersfield, CA 93313

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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-05	T3228027B	Total Nitrogen (TN)	SM 4500-NH3 D,C	< 1.50	%

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

8-14-2023

Sampled By

TONY

Lab Name

Denele

J&R Dairy

Ranch: J&R 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

1. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles
W2	SH	96	1

CHAIN



23-01

J&R Dairy

W300-04

W

Ranch: J&R Ranch

Date: 8-14-2023

17:30

pm

IW

35.193955. -119.048274

2. Location:

Analysis	Weather	Temp (°F)	# of Bags/ Bottles
W2	SH	96	1

CHAIN



23-01

J&R Dairy

W300-05

W

Ranch: J&R Ranch

Date: 8-14-2023

12:45

pm

IW

35.186827. -119.047845

3. Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

4. Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

5. Location:

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

6. Location:

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 Nera	Icon Ag		8-15-2023 7:00 am	Logged in By:	Laboratory #
2nd						
3rd		Denele	8-16-23 10:00			
4th						T3228027