

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: | <u>Javier Echeverria</u> | Telephone no.: | <u>(661) 074-7063</u> |
| | | Landline | Cellular |
| 4403 Bear Mountain Blvd Mailing Address Number and Street | Bakersfield City | Kern County | 93313 Zip Code |

C. OWNERS

| | | | |
|--|--------------------------|----------------|-----------------------|
| Javier Echeverria | | | |
| Owner Name: | <u>Javier Echeverria</u> | Telephone no.: | <u>(661) 074-7063</u> |
| | | Landline | Cellular |
| 4403 Bear Mountain Blvd Mailing Address Number and Street | Bakersfield City | Kern County | 93313 Zip Code |

AVAILABLE NUTRIENTS

A. HERD INFORMATION

| | Milk Cows | Dry Cows | Bred Heifers (15-24 mo.) | Heifers (7-14 mo.to breeding) | Calves (4-6 mo.) | Calves (0-3 mo.) |
|---------------------------|-----------|----------|--------------------------|-------------------------------|------------------|------------------|
| Number open confinement | 2,760 | 469 | 526 | 416 | 0 | 0 |
| Number under roof | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum 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: | <u>86,541.14 tons per reporting period</u> | |
| Total nitrogen from manure: | <u>1,100,637.37 lbs per reporting period</u> | After ammonia losses (30% loss applied): <u>770,446.16 lbs per reporting period</u> |
| Total phosphorus from manure: | <u>183,133.55 lbs per reporting period</u> | |
| Total potassium from manure: | <u>528,565.47 lbs per reporting period</u> | |
| Total salt from manure: | <u>1,407,392.55 lbs per reporting period</u> | |

C. PROCESS WASTEWATER GENERATED

| | | |
|-------------------------------|------------------------------|--|
| Process wastewater generated: | <u>19,750,490.11 gallons</u> | $ \begin{array}{r} 19,750,490.11 \text{ gallons applied} \\ + 0 \text{ gallons exported} \\ - 0 \text{ gallons imported} \\ = 19,750,490.11 \text{ gallons generated} \end{array} $ |
| Total nitrogen generated: | <u>55,745.62 lbs</u> | |
| Total phosphorus generated: | <u>96,816,454.40 lbs</u> | |
| Total potassium generated: | <u>61,076.84 lbs</u> | |
| Total salt generated: | <u>544,289.45 lbs</u> | |

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 |

35-5N

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 |

35-5S

Field Name: 35-5S

10/25/2022: Triticale

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 gal |
| Atmospheric Deposition | Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 | 1,048.60 Lbs |
| Application event totals | | 14.00 | 1,166.55 | 29,047.09 | 110.82 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 05/05/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.00 | 1,121.68 | 27,929.89 | 106.56 | 10,067,586.97 gal |
| Application event totals | | 0.00 | 1,121.68 | 27,929.89 | 106.56 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|---|--------------|--------------|--------------|-----------------|-------------|
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 35.39 | 0.00 | 0.00 | 0.00 | 749.00 Gal. |
| Application event totals | | 35.39 | 0.00 | 0.00 | 0.00 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|------------------|
| Canal Water | Ground water | 0.00 | 1,110.35 | 27,647.77 | 105.48 | 9,965,894.76 gal |
| Lagoon Water Effluent | Process wastewater | 37.53 | 58,736.28 | 45.48 | 342.99 | 962,013.88 gal |
| Application event totals | | 37.53 | 59,846.63 | 27,693.25 | 448.47 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,414.00 | 1.65 | 342.89 | 12,691,261.18 gal |
| Lagoon Water Effluent | Process wastewater | 75.15 | 117,596.74 | 91.06 | 686.70 | 1,926,061.72 gal |
| 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 gal |
| Well Water | Ground water | 0.00 | 1,377.06 | 1.61 | 333.94 | 12,359,743.40 gal |
| 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 gal |
| Lagoon Water Effluent | Process wastewater | 73.64 | 115,237.35 | 89.23 | 672.92 | 1,887,418.34 gal |
| 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 gal |
| Application event totals | | 0.00 | 1,200.99 | 1.40 | 291.24 | |

10/15/2022: Tricale

| 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 ton |
| 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 gal |
| 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 gal |
| Lagoon Water Effluent | Process wastewater | 16.80 | 33,660.90 | 25.64 | 249.25 | 522,701.00 gal |
| 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 gal |
| Application event totals | | | 0.65 | 936.10 | 1.64 | 326.70 | |
| 01/05/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | | Ground water | 0.00 | 1,087.69 | 27,083.53 | 103.33 | 9,762,509.35 gal |
| Application event totals | | | 0.00 | 1,087.69 | 27,083.53 | 103.33 | |
| 01/31/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon Water Effluent | | Process wastewater | 13.65 | 32,713.25 | 3.20 | 127.97 | 380,331.09 gal |
| Well Water | | Ground water | 0.00 | 1,019.71 | 1.19 | 247.28 | 9,152,352.15 gal |
| Application event totals | | | 13.65 | 33,732.96 | 4.39 | 375.25 | |
| 02/15/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | | Ground water | 0.00 | 963.06 | 23,980.21 | 91.49 | 8,643,888.14 gal |
| Application event totals | | | 0.00 | 963.06 | 23,980.21 | 91.49 | |
| 03/08/2023 | 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 |
| Well Water | | Ground water | 0.00 | 940.40 | 1.10 | 228.05 | 8,440,502.73 gal |
| Lagoon Water Effluent | | Process wastewater | 14.09 | 33,762.87 | 3.31 | 132.08 | 392,534.22 gal |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |

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

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 06/27/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.00 | 1,390.43 | 34,621.78 | 132.09 | 13,162,877.35 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 395.00 Gal. |
| Application event totals | | 17.70 | 1,390.43 | 34,621.78 | 132.09 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 07/11/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,167.00 | 1.36 | 283.00 | 11,047,721.30 gal |
| Application event totals | | 0.00 | 1,167.00 | 1.36 | 283.00 | |

10/25/2022: Tricale

| 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 ton |
| 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 |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.38 | 0.00 | 29,008.75 | 201.22 | 10,296,905.51 gal |
| Application event totals | | 0.38 | 0.00 | 29,008.75 | 201.22 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.37 | 0.00 | 28,404.40 | 197.03 | 10,082,385.83 gal |
| Lagoon Water Effluent | Process wastewater | 27.64 | 55,402.96 | 42.21 | 410.25 | 907,414.78 gal |
| Application event totals | | 28.01 | 55,402.96 | 28,446.61 | 607.28 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 | 0.63 | 917.74 | 1.61 | 320.29 | 8,688,014.09 gal |
|--------------------------|---|--------------|------------------|------------------|------------------|-------------------|
| Application event totals | | 0.63 | 917.74 | 1.61 | 320.29 | |
| 01/15/2023 | 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 | 1,117.15 | 1.30 | 270.91 | 10,575,780.27 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 395.00 Gal. |
| Application event totals | | 17.70 | 1,117.15 | 1.30 | 270.91 | |
| 02/10/2023 | 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 | 1,076.36 | 1.26 | 261.02 | 10,189,645.67 gal |
| Application event totals | | 0.00 | 1,076.36 | 1.26 | 261.02 | |
| 02/25/2023 | 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 | 951.73 | 23,698.09 | 90.41 | 9,009,791.55 gal |
| Application event totals | | 0.00 | 951.73 | 23,698.09 | 90.41 | |
| 03/18/2023 | 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 | 15.48 | 37,086.67 | 3.63 | 145.08 | 454,779.97 gal |
| Well Water | Ground water | 0.00 | 1,086.33 | 1.27 | 263.44 | 10,284,033.26 gal |
| 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 gal |
| Application event totals | | 17.30 | 28,430.46 | 22.55 | 487.79 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 06/19/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.00 | 1,323.59 | 32,957.27 | 125.74 | 11,164,430.00 gal |
| Lagoon Water Effluent | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 416,683.04 gal |
| Application event totals | | 17.30 | 28,394.43 | 32,978.23 | 283.82 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 07/03/2023 | 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 | 1,390.43 | 34,621.78 | 132.09 | 11,728,290.24 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 351.95 Gal. |
| Application event totals | | 17.70 | 1,390.43 | 34,621.78 | 132.09 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 07/17/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|------------------|
| Well Water | Ground water | 0.00 | 1,178.33 | 1.38 | 285.75 | 9,939,228.40 gal |
| 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 ton | |
| Well Water | | Ground water | 0.34 | 0.00 | 25,563.96 | 177.33 | 8,348,215.88 gal | |
| Atmospheric Deposition | | Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 | 1,017.52 Lbs | |
| Application event totals | | | 162.67 | 50.77 | 25,724.89 | 5,671.09 | | |
| 05/01/2023 | | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount | |
| Canal Water | | Ground water | 0.00 | 1,154.77 | 28,753.68 | 109.70 | 10,057,329.93 gal | |
| Application event totals | | | 0.00 | 1,154.77 | 28,753.68 | 109.70 | | |
| 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 | 1,133.01 | 1.32 | 274.76 | 9,867,867.43 gal | |
| Application event totals | | | 0.00 | 1,133.01 | 1.32 | 274.76 | | |
| 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 | 1,144.34 | 28,494.14 | 108.71 | 9,966,546.48 gal | |
| Un 32 | | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 363.40 Gal. | |
| Application event totals | | | 17.70 | 1,144.34 | 28,494.14 | 108.71 | | |
| 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 | |
| Canal Water | | Ground water | 0.00 | 1,332.42 | 33,177.33 | 126.58 | 11,604,612.32 gal | |
| Lagoon Water Effluent | | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 430,239.01 gal | |
| Application event totals | | | 17.30 | 28,403.26 | 33,198.29 | 284.66 | | |
| 06/13/2023 | | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---|--------------|------------------|------------------|------------------|-------------------|
| Lagoon Water Effluent | Process wastewater | 33.01 | 51,658.12 | 40.00 | 301.65 | 821,006.59 gal |
| Canal Water | Ground water | 0.00 | 1,323.59 | 32,957.27 | 125.74 | 11,527,642.89 gal |
| Application event totals | | 33.01 | 52,981.71 | 32,997.27 | 427.39 | |
| 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 |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 363.40 Gal. |
| Well Water | Ground water | 0.00 | 1,363.69 | 1.59 | 330.70 | 11,876,965.49 gal |
| Application event totals | | 17.70 | 1,363.69 | 1.59 | 330.70 | |
| 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 | 1,200.99 | 1.40 | 291.24 | 10,459,939.85 gal |
| Application event totals | | 0.00 | 1,200.99 | 1.40 | 291.24 | |

| 10/28/2022: Tricale | | | | | | |
|--------------------------|----------------------|------------------------------|------------------|----------------------------------|------------------|----------------------------------|
| Application date | Application method | Precipitation 24 hours prior | | Precipitation during application | | Precipitation 24 hours following |
| 10/15/2022 | Surface (Irrigation) | No precipitation | | No precipitation | | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Corral Solids | Corral Solids | 243.39 | 90.62 | 239.25 | 2,116.40 | 363.40 ton |
| Application event totals | | 243.39 | 90.62 | 239.25 | 2,116.40 | |
| 10/28/2022 | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well Water | Ground water | 0.78 | 1,133.01 | 1.99 | 395.42 | 9,867,867.43 gal |
| Application event totals | | 0.78 | 1,133.01 | 1.99 | 395.42 | |
| 11/23/2022 | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well Water | Ground water | 0.69 | 997.05 | 1.75 | 347.97 | 8,683,723.53 gal |
| Lagoon Water Effluent | Process wastewater | 15.55 | 31,172.35 | 23.75 | 230.83 | 469,710.50 gal |
| Application event totals | | 16.24 | 32,169.40 | 25.50 | 578.80 | |
| 12/23/2022 | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation | No precipitation |

| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|----------------------|--------------------|------------------|--------------|------------------|-----------------|------------------|
| Canal Water | | Ground water | 0.33 | 0.00 | 25,273.87 | 175.32 | 8,253,484.63 gal |
| Application event totals | | | 0.33 | 0.00 | 25,273.87 | 175.32 | |
| 01/18/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | | Ground water | 0.00 | 1,087.69 | 27,083.53 | 103.33 | 9,473,153.11 gal |
| Application event totals | | | 0.00 | 1,087.69 | 27,083.53 | 103.33 | |
| 02/13/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon Water Effluent | | Process wastewater | 17.31 | 41,460.10 | 4.06 | 162.19 | 467,736.92 gal |
| Well Water | | Ground water | 0.00 | 963.06 | 1.12 | 233.54 | 8,387,687.31 gal |
| Application event totals | | | 17.31 | 42,423.16 | 5.18 | 395.73 | |
| 02/28/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | | Ground water | 0.00 | 1,065.03 | 26,519.29 | 101.18 | 9,275,795.01 gal |
| Application event totals | | | 0.00 | 1,065.03 | 26,519.29 | 101.18 | |
| 03/21/2023 | Surface (Irrigation) | | No precipitation | | No precipitation | | No precipitation |
| Source description | | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Lagoon Water Effluent | | Process wastewater | 17.31 | 41,460.10 | 4.06 | 162.19 | 467,736.92 gal |
| Well Water | | Ground water | 0.00 | 1,087.69 | 1.27 | 263.77 | 9,473,153.11 gal |
| 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 gal |
| Application event totals | | 0.00 | 1,200.99 | 29,904.74 | 114.09 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 08/01/2023 | 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 | 1,441.19 | 1.68 | 349.49 | 12,952,594.50 gal |
| Application event totals | | 0.00 | 1,441.19 | 1.68 | 349.49 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 08/29/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,414.00 | 1.65 | 342.89 | 12,708,205.19 gal |
| Application event totals | | 0.00 | 1,414.00 | 1.65 | 342.89 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 09/26/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,386.81 | 1.62 | 336.30 | 12,463,816.86 gal |
| Application event totals | | 0.00 | 1,386.81 | 1.62 | 336.30 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 10/28/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Canal Water | Ground water | 0.00 | 1,346.02 | 33,515.87 | 127.87 | 12,097,234.35 gal |
| 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 gal |
| Application event totals | | 17.30 | 28,375.84 | 32,515.56 | 282.06 | |
| 06/13/2023 | | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | Ground water | 0.00 | 1,402.90 | 34,932.12 | 133.28 | 6,892,599.45 gal |
| Lagoon Water Effluent | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 242,705.00 gal |
| Application event totals | | 17.30 | 28,473.74 | 34,953.08 | 291.36 | |
| 06/27/2023 | | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Canal Water | Ground water | 0.00 | 1,133.92 | 28,234.58 | 107.72 | 5,571,082.06 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 205.00 Gal. |
| Application event totals | | 17.70 | 1,133.92 | 28,234.58 | 107.72 | |
| 07/11/2023 | | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well Water | Ground water | 0.00 | 1,170.63 | 1.37 | 283.88 | 5,751,440.49 gal |
| 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 ton |
| Application event totals | | 340.74 | 126.87 | 334.95 | 2,962.96 | |
| 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 | 0.76 | 1,099.02 | 1.93 | 383.56 | 5,399,629.59 gal |
| Application event totals | | 0.76 | 1,099.02 | 1.93 | 383.56 | |
| 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 |
| Canal Water | Ground water | 0.34 | 0.00 | 25,684.83 | 178.17 | 4,731,634.27 gal |

| | | | | | | |
|--------------------------|----------------------|--------------|------------------|------------------|------------------|------------------|
| Lagoon Water Effluent | Process wastewater | 15.55 | 31,172.35 | 23.75 | 230.83 | 264,971.52 gal |
| Application event totals | | 15.89 | 31,172.35 | 25,708.58 | 409.00 | |
| 12/20/2022 | Surface (Irrigation) | | No precipitation | No precipitation | No precipitation | No precipitation |
| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
| Well Water | Ground water | 0.64 | 924.54 | 1.62 | 322.66 | 4,542,368.81 gal |
| Application event totals | | 0.64 | 924.54 | 1.62 | 322.66 | |
| 01/15/2023 | 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 | 1,142.08 | 28,437.71 | 108.50 | 5,611,161.53 gal |
| Application event totals | | 0.00 | 1,142.08 | 28,437.71 | 108.50 | |
| 02/10/2023 | 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 | 985.72 | 1.15 | 239.04 | 4,842,966.73 gal |
| Lagoon Water Effluent | Process wastewater | 17.31 | 41,460.10 | 4.06 | 162.19 | 263,858.20 gal |
| Application event totals | | 17.31 | 42,445.82 | 5.21 | 401.23 | |
| 02/25/2023 | 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 | 1,019.71 | 1.19 | 247.28 | 5,009,965.69 gal |
| Application event totals | | 0.00 | 1,019.71 | 1.19 | 247.28 | |
| 03/18/2023 | 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 | 929.07 | 23,133.85 | 88.26 | 4,564,635.30 gal |
| Lagoon Water Effluent | Process wastewater | 17.31 | 41,460.10 | 4.06 | 162.19 | 263,858.20 gal |
| 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 gal |
| Lagoon Water Effluent | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 213,106.83 gal |
| 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 Gal. |
| Canal Water | Ground water | 0.00 | 1,377.06 | 34,288.88 | 130.82 | 5,940,597.51 gal |
| 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 gal |
| Application event totals | | 0.00 | 1,178.33 | 1.38 | 285.75 | |

| | | | | | | |
|----------------------------|----------------------|------------------|------------------------------|------------------|----------------------------------|------------------|
| 10/25/2022: Tricale | | | | | | |
| Application date | Application method | | Precipitation 24 hours prior | | Precipitation during application | |
| 10/15/2022 | Surface (Irrigation) | | 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 ton |
| 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 gal |
| 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 gal |
| Canal Water | Ground water | 0.36 | 0.00 | 26,893.53 | 186.55 | 4,350,116.37 gal |
| Application event totals | | 15.91 | 31,172.35 | 26,917.28 | 417.38 | |

| | | | | | | |
|--|---|------------------|------------------|------------------|--------|------------------|
| 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 | | | | | | |
| 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 ton |
| Atmospheric Deposition | Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 | 1,120.00 Lbs |
| 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 gal |
| 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 gal |
| 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 gal |
| 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 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 400.00 Gal. |
| 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 gal |

| | | | | | | |
|--------------------------|--------------|-------|-----------|-------|--------|-------------------|
| Well Water | Ground water | 0.00 | 1,373.21 | 1.60 | 333.00 | 13,164,397.53 gal |
| Application event totals | | 32.61 | 52,410.44 | 41.12 | 631.03 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 06/13/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|-------------------|
| Lagoon Water Effluent | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 473,570.73 gal |
| Canal Water | Ground water | 0.00 | 1,350.32 | 33,623.08 | 128.28 | 12,944,991.27 gal |
| Application event totals | | 17.30 | 28,421.16 | 33,644.04 | 286.36 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 06/27/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,323.59 | 1.55 | 320.97 | 12,688,654.75 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 35.39 | 0.00 | 0.00 | 0.00 | 800.00 Gal. |
| Application event totals | | 35.39 | 1,323.59 | 1.55 | 320.97 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 07/11/2023 | Surface (Irrigation) | No precipitation | No precipitation | No precipitation |
|------------|----------------------|------------------|------------------|------------------|

| Source description | Material type | N (lbs/acre) | P (lbs/acre) | K (lbs/acre) | Salt (lbs/acre) | Amount |
|--------------------------|---------------|--------------|--------------|--------------|-----------------|-------------------|
| Well Water | Ground water | 0.00 | 1,178.33 | 1.38 | 285.75 | 11,296,182.40 gal |
| 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 gal |
| Application event totals | | 17.30 | 28,403.26 | 33,198.29 | 284.66 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|--------------------|--------------|--------------|--------------|-----------------|------------------|
| Well Water | Ground water | 0.00 | 1,323.59 | 1.55 | 320.97 | 5,695,619.88 gal |
| Lagoon Water Effluent | Process wastewater | 17.30 | 27,070.84 | 20.96 | 158.08 | 212,574.06 gal |
| Application event totals | | 17.30 | 28,394.43 | 22.51 | 479.05 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 |
|--------------------------|---|--------------|--------------|--------------|-----------------|------------------|
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 179.55 Gal. |
| Well Water | Ground water | 0.00 | 1,363.69 | 1.59 | 330.70 | 5,868,214.46 gal |
| Application event totals | | 17.70 | 1,363.69 | 1.59 | 330.70 | |

| | | | | |
|------------|----------------------|------------------|------------------|------------------|
| 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 | 5,168,085.26 gal |
| 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 ton |
| Atmospheric Deposition | Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 | 532.00 Lbs |
| 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 gal |
| 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 gal |
| 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 gal |
| 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 gal |
| Un 32 | Commercial fertilizer / Other: Liquid commercial fertilizer | 17.70 | 0.00 | 0.00 | 0.00 | 190.00 Gal. |
| 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 gal |

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

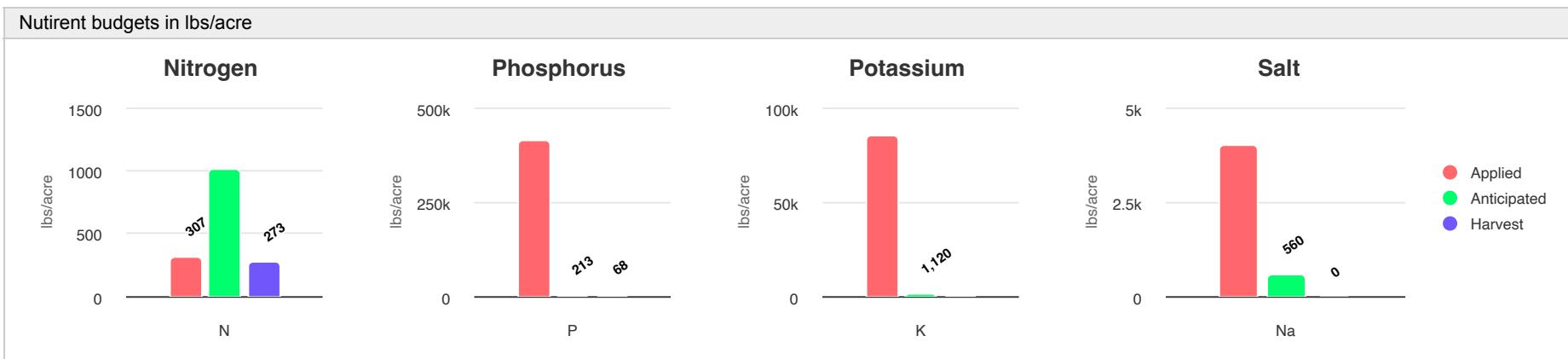
B. NUTRIENT BUDGET

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 |

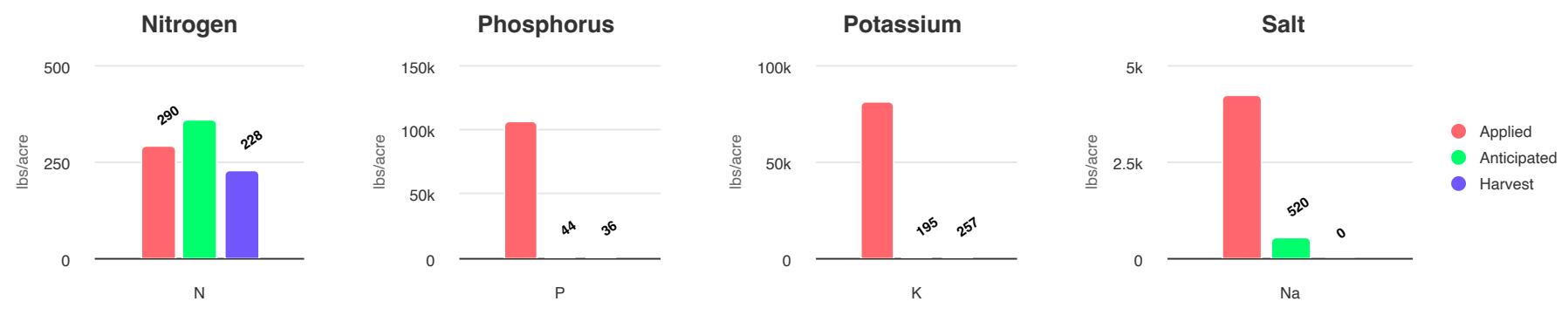
| Total Harvests for the crop |
|-----------------------------|
| 1 harvests |

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

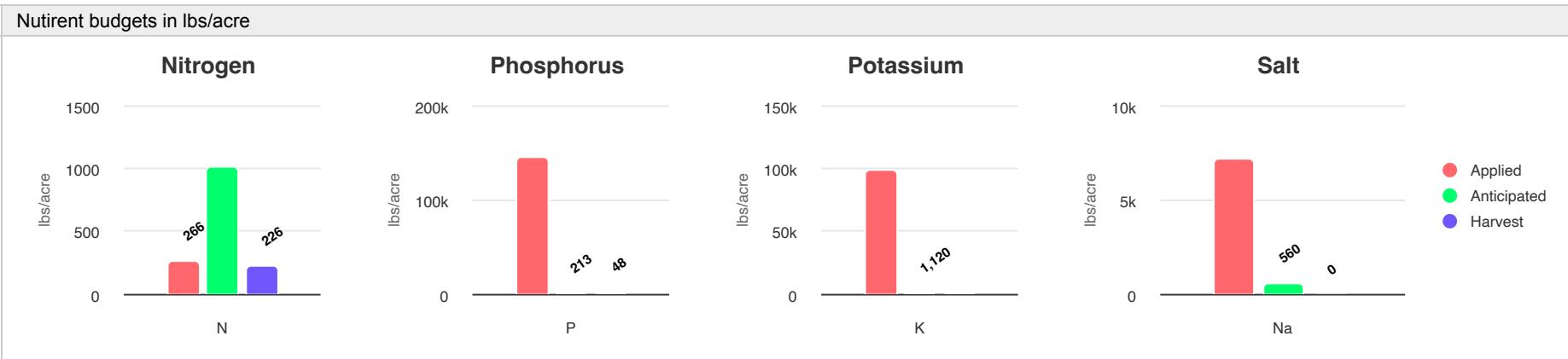
Process wastewater applied

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



| | 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 | |

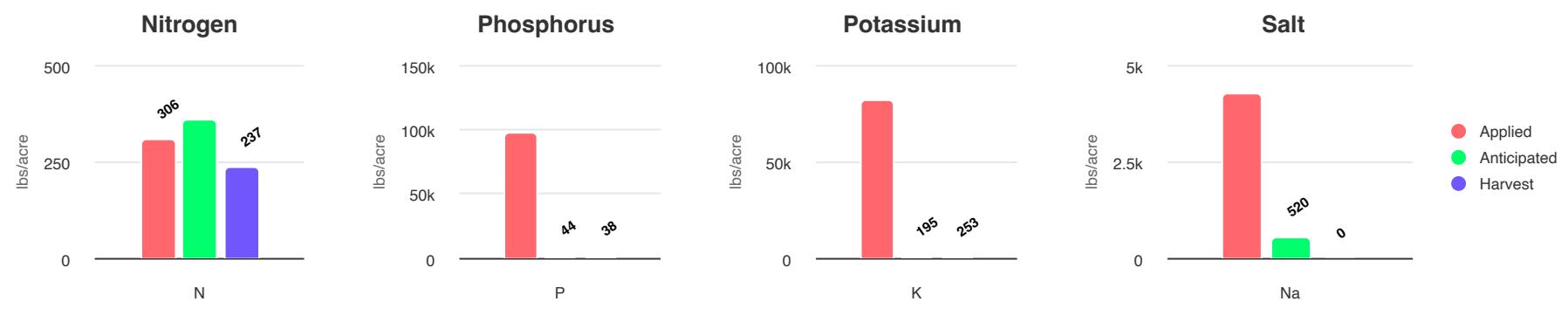
| Total Harvests for the crop | | |
|-----------------------------|----------|--|
| 1 | harvests | |

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 |

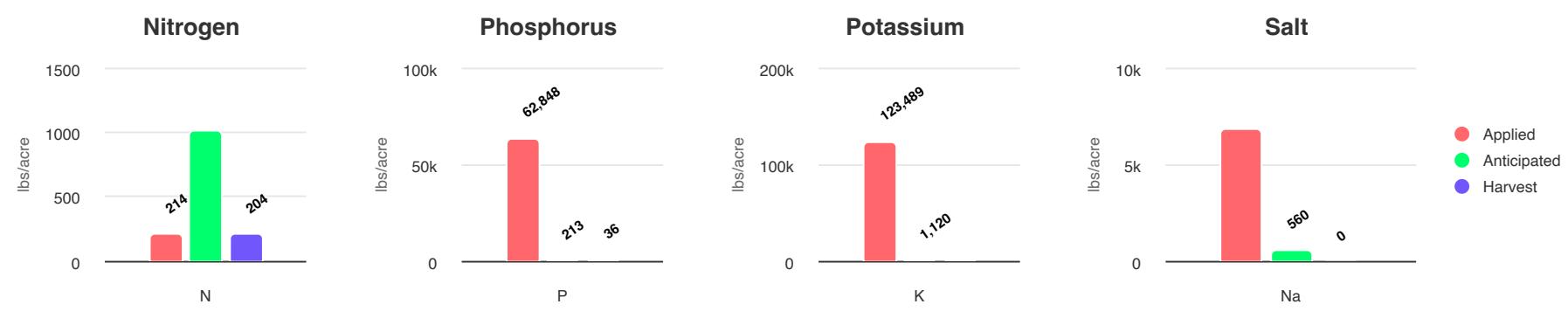
| Fresh water applied | | |
|-----------------------------|-------------|--|
| 69,126,556.19 | gallons | |
| 2,545.70 | acre-inches | |
| 32.22 | inches/acre | |
| Process wastewater applied | | |
| 1,362,194.75 | gallons | |
| 50.17 | acre-inches | |
| 0.64 | inches/acre | |
| Total Harvests for the 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

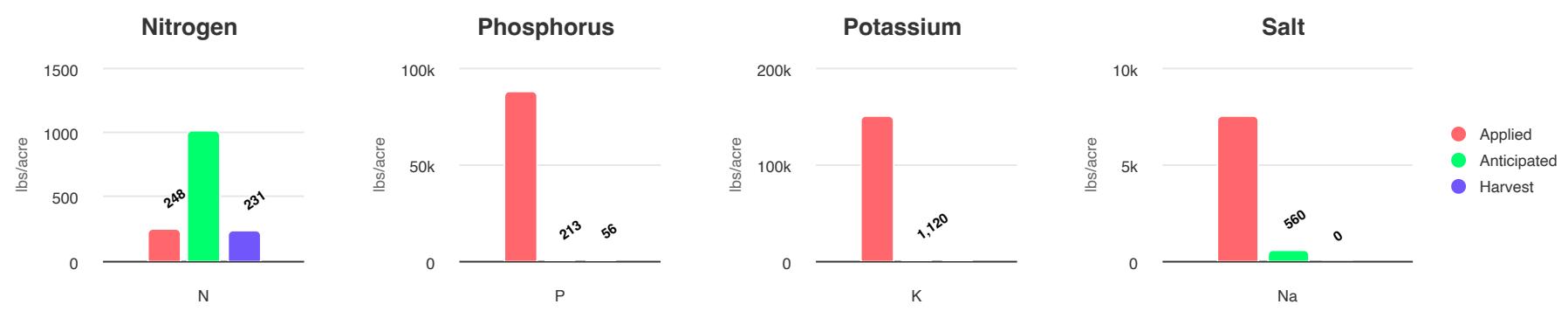
| | |
|---|----------|
| 1 | harvests |
|---|----------|

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

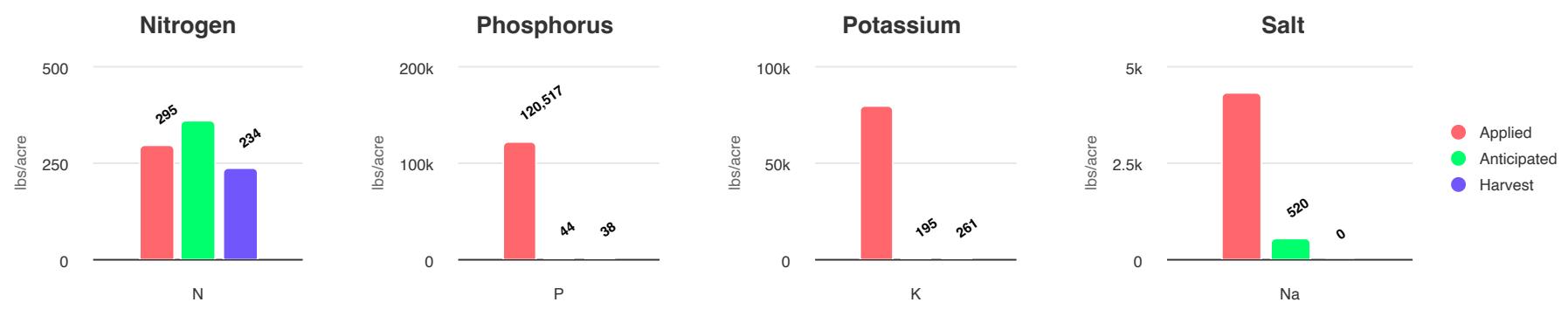
| | |
|---|----------|
| 1 | harvests |
|---|----------|

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 |

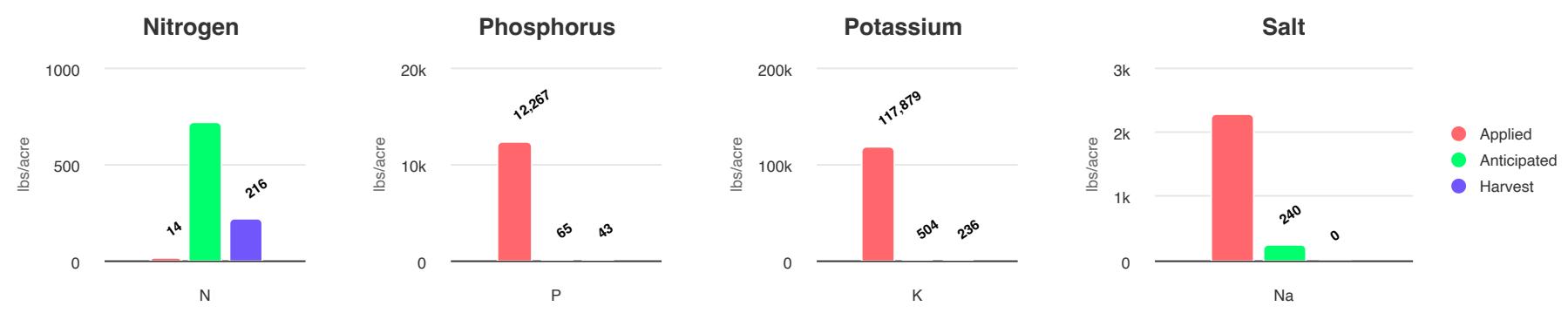
| Fresh water applied |
|-----------------------------|
| 63,414,864.12 gallons |
| 2,335.35 acre-inches |
| 32.13 inches/acre |
| Process wastewater applied |
| 1,405,184.35 gallons |
| 51.75 acre-inches |
| 0.71 inches/acre |
| Total Harvests for the crop |
| 1 harvests |

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

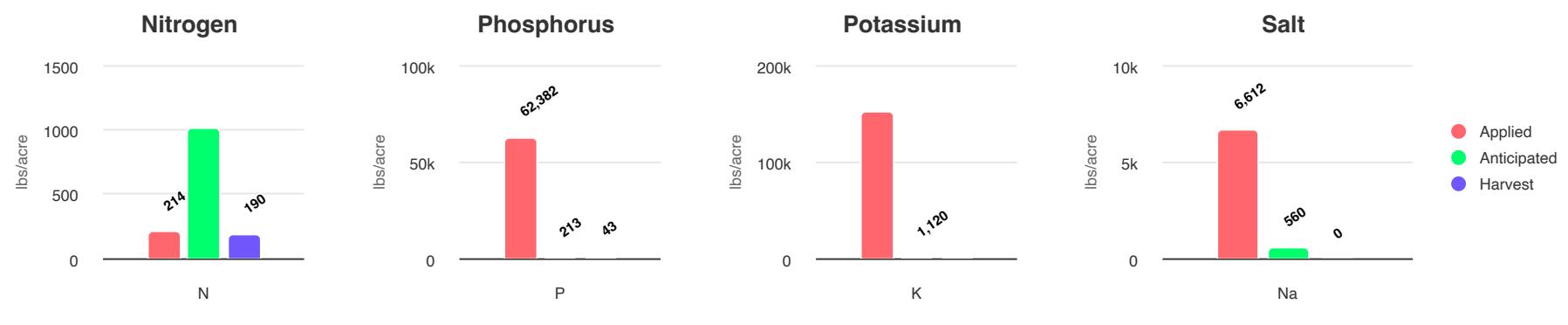
8 harvests

Field name: 35-5N

Crop: Corn Silage

Plant date: 05/01/2023

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 | 0.41 | 8,196.22 | 152,169.85 | 1,488.88 |
| Atmospheric deposition | 14.00 | 0.00 | 0.00 | 0.00 |
| Total nutrients applied | 214.20 | 62,382.32 | 152,352.58 | 6,612.08 |
| Anticipated crop nutrient removal | 1,008.00 | 212.80 | 1,120.00 | 560.00 |
| 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 |
| Applied to removed ratio | 1.13 | 1,464.21 | 564.74 | 0.00 |

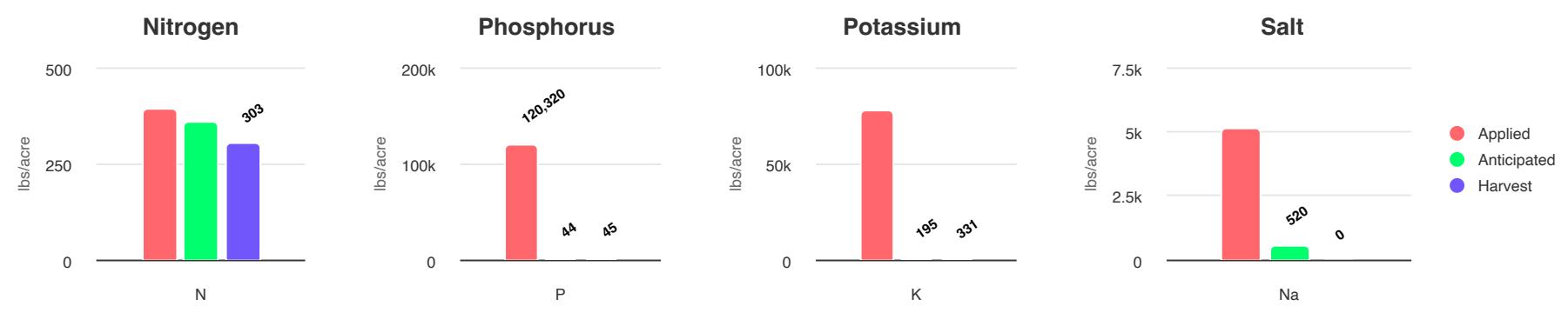
| Fresh water applied | | |
|-----------------------------|-------------|--|
| 46,037,131.76 | gallons | |
| 1,695.39 | acre-inches | |
| 41.35 | inches/acre | |
| Process wastewater applied | | |
| 485,410.00 | gallons | |
| 17.88 | acre-inches | |
| 0.44 | inches/acre | |
| Total Harvests for the crop | | |
| 1 | harvests | |

Field name: 35-5N

Crop: Triticale

Plant date: 10/25/2022

Nutrient budgets in lbs/acre



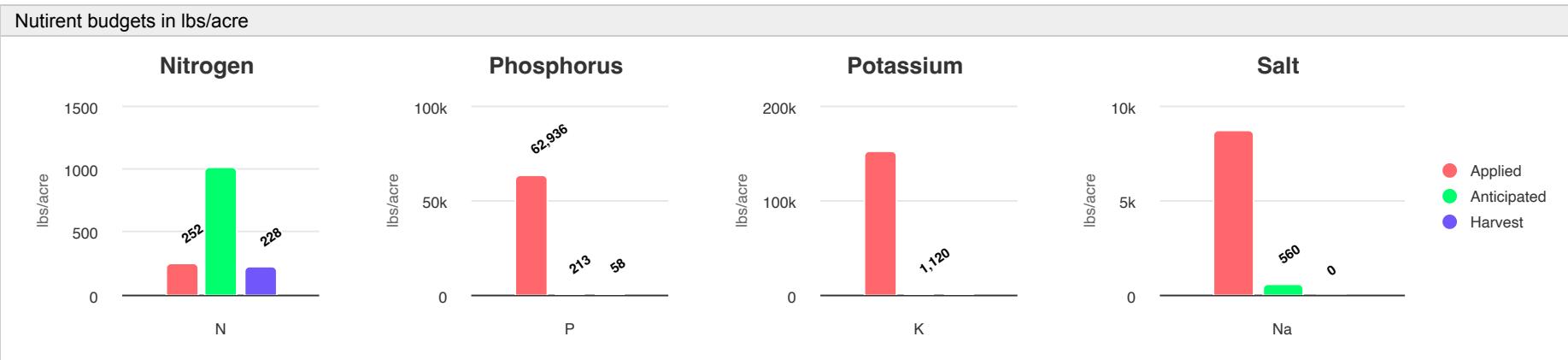
| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 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



| | 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 | |

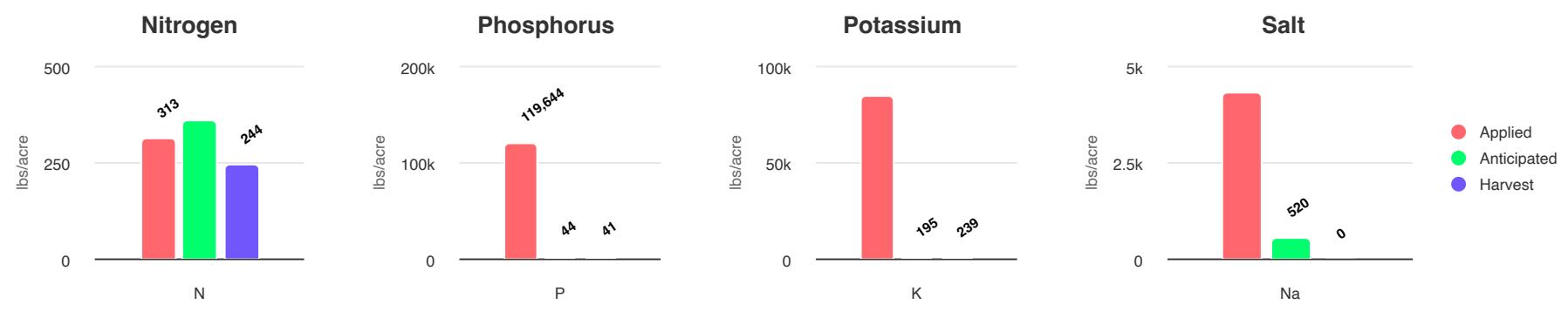
| Total Harvests for the crop | | |
|-----------------------------|----------|--|
| 1 | harvests | |

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

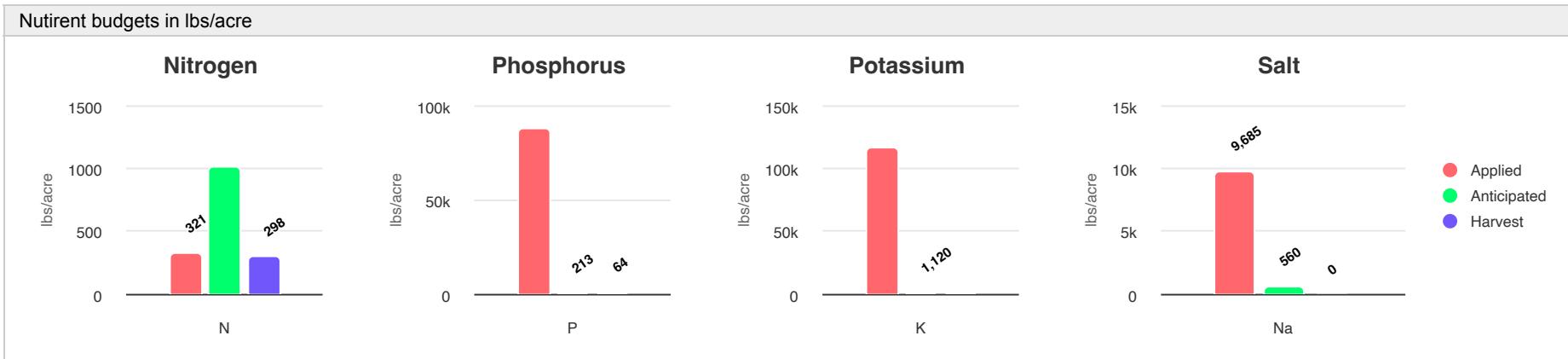
Process wastewater applied

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



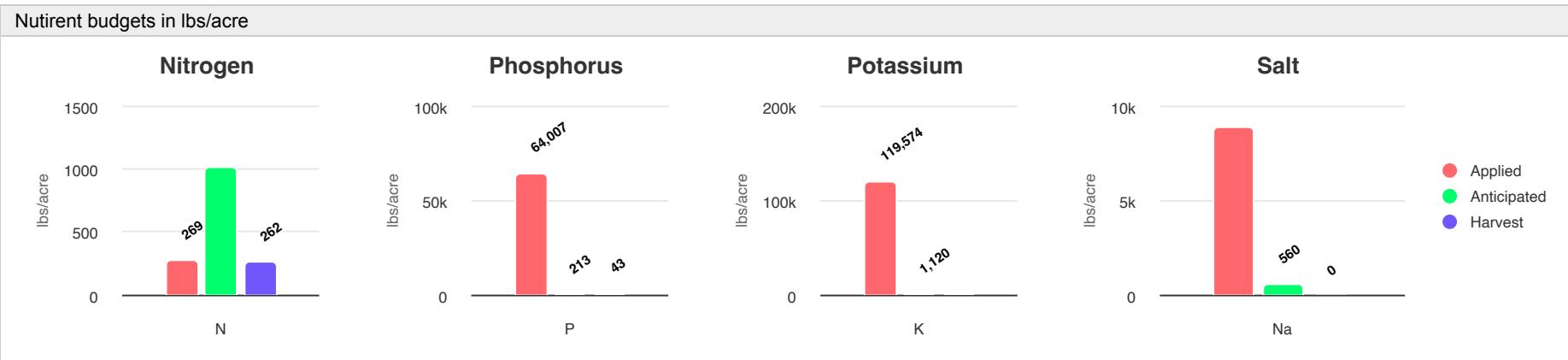
| | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) | Total salt (lbs/acre) |
|-----------------------------------|--------------------|--------------------|--------------------|-----------------------|
| Existing soil nutrient content | 0.00 | 0.00 | 0.00 | 0.00 |
| Plowdown credit | 0.00 | 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



| | 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

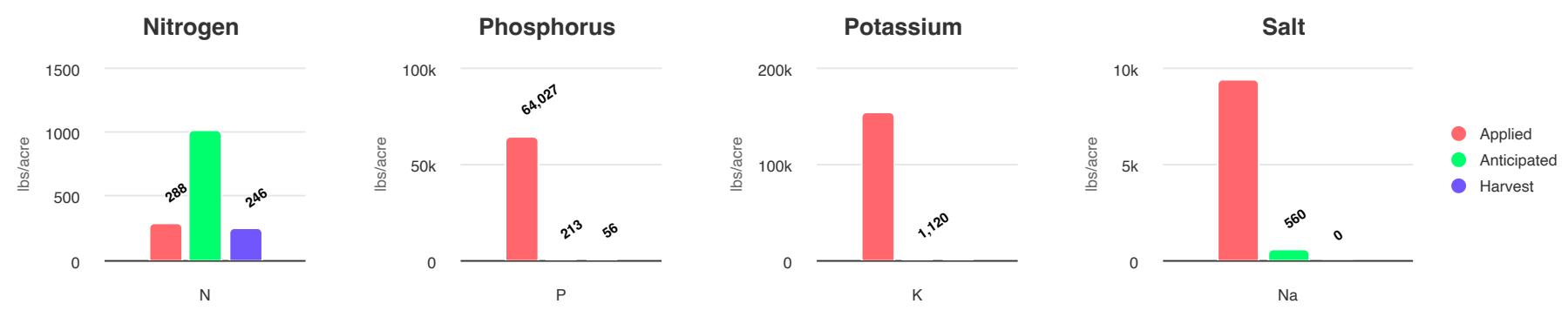
| | |
|---|----------|
| 1 | harvests |
|---|----------|

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) |
| Value | 322.00 | 0.00 | 187.60 | 0.24 | 77.20 | 75.60 | 188.79 | 75.60 | 188.63 | 0.00 | 0.00 |

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) |
| Value | 350.00 | 0.00 | 207.20 | 0.18 | 54.80 | 424.32 | 156.89 | 68.36 | 167.52 | 0.00 | 0.00 |

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) |
| Value | 238.00 | 0.00 | 173.60 | 0.10 | 45.50 | 283.64 | 110.34 | 44.75 | 150.20 | 0.00 | 0.00 |

| T3362080A | | | | | | | | | | | | | | | | | |
|-------------------------------------|-------------------|--------------|--------------|------------------|----------------|----------------|----------------|--------------------|---------------|----------------|--------------|---------------------|-----------------|---------------|--------------|--|--|
| Sample and source description name: | | | | T3362080A | | | | | | | | | | | | | |
| Sample date: | | 12/22/2023 | | Material type: | | | | Process wastewater | | | | Source of analysis: | | | Lab Analysis | | |
| | 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: | | | | 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 | | |

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 |
|---------------------|--------|

35-1

3344 1

Sample

description:

Sample date:

3344_1

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

Sample
description:

Sample date:

2873 1

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 | |
| PL | 0.50 | 0.20 | 0.20 | 0.50 | 1.00 | 0.10 | |

35-3

3344 2

Sample

Sample
description:

35-4

7360 1

Sample

description:

Sample date:

7360_1

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:

Sample date:

2873_2

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

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:

Sample date:

3344_3

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:

Sample date:

3344_5

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: |
| Mositure: | 0% | | | Dry | |
| | 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: |
| Mositure: | 0% | | | Dry | |
| | 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
Moisture: 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
Moisture: 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
Moisture: 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
Moisture: 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

Moisture: 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

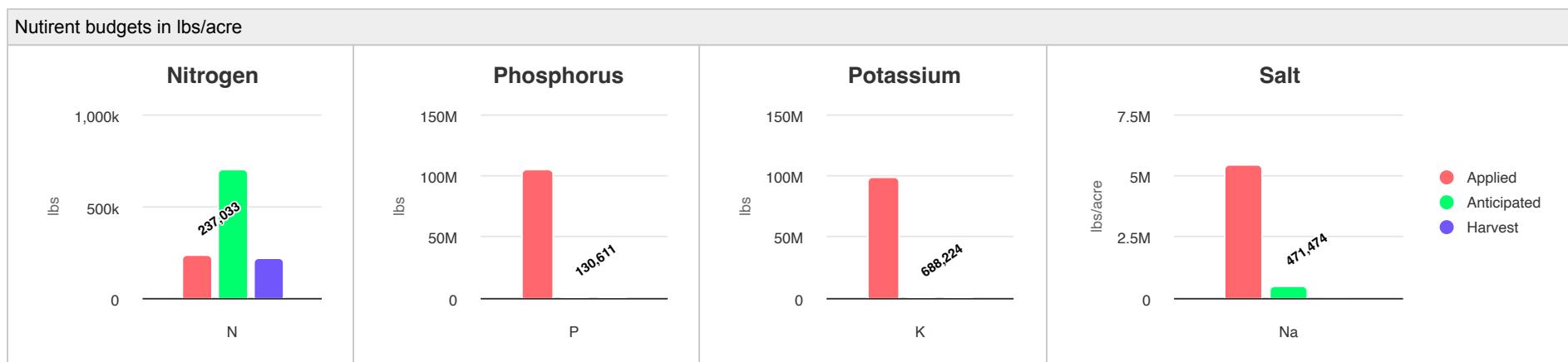
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

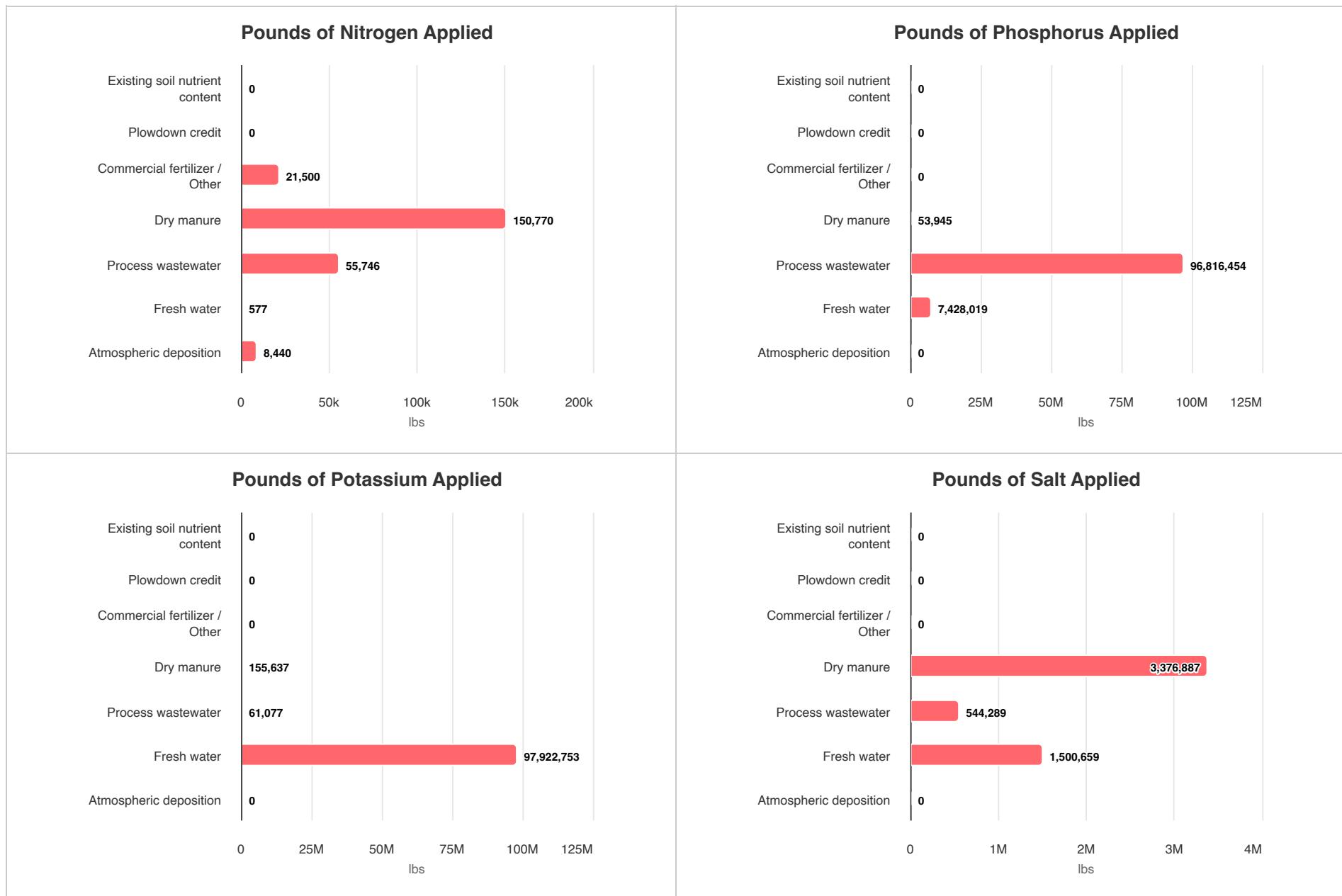
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

| | 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



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?

Yes

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

Yes

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

Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?

No

ADDITIONAL NOTES

A. NOTES

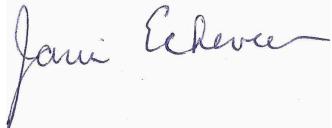
Well Specific Notes

2023 Non Op Wells: W300-10, 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.



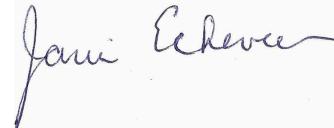
SIGNATURE OF OWNER OF FACILITY

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 PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Discharge Maps

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

Discharge Lab Reports

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

Groundwater Monitoring

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

Storm Water Monitoring

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

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: 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

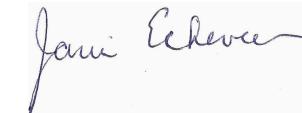
Manure Destination Farmer

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

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Contact:

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

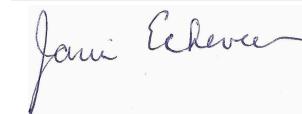
Manure Destination Farmer

Destination Information:

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

Contact:

Name: Kirschenman Enterprises
Number: _____

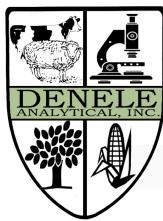
Signature of Owner:**Date:**

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 | | |



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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

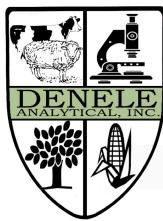
Boron (B)

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 SM 2320B-2011 | 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 (SO4) | EPA 375.2 | 71.7 | mg/L |
| | | Sodium (Na) | EPA 200.7 | 69.3 | mg/L |
| | | Ammonia Nitrogen (NH3-N) | SM 4500-NH3 D,C | < 0.500 | mg/L |
| | | Magnesium (Mg) | EPA 200.7 | 1.37 | mg/L |
| | | Nitrate Nitrogen (NO3-N) | EPA 353.2 | < 0.140 | mg/L |
| | | Total Dissolved Solids (TDS) | SM 2540 C-1997 and EPA 200.7 | 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 (NH3-N) | 90.6 | 95.8 (T3362012A) | 94.0 (T3362012A) | | | 1.89 |
| Calcium (Ca) | 98.8 | 103 (W4002001A) | 109 (W4002001A) | | | 5.58 |
| Chloride (Cl) | 106 | 110 (W4002001A) | 108 (W4002001A) | | | 1.91 |
| Magnesium (Mg) | 107 | 88.2 (W4002001A) | 93.5 (W4002001A) | | | 5.85 |
| Nitrate Nitrogen (NO3-N) | 103 | 96.7 (W4002001A) | 95.2 (W4002001A) | | | 1.58 |
| Sodium (Na) | 104 | 112 (W4002001A) | 119 (W4002001A) | | | 5.80 |
| Sulfate (SO4) | 102 | 111 (W4002001A) | 108 (W4002001A) | | | 3.31 |
| Total Dissolved Solids (TDS) | 105 | | | 130 (T3362071B) | 135 (Dup) | 3.77 |

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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

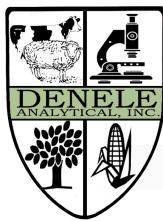
Icon Sampling Fee (ISF)

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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Bakersfield, CA 93313

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Icon Ag
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Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/8/24

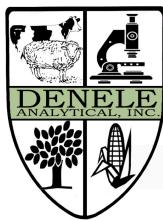
pH (pH)

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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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

Danell

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, Bicarb, SO4, Cl, B

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

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

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

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

Location:

1.

| Analysis | Weather | Temp (°F) | # of Bags/Bottles |
|----------|---------|-----------|-------------------|
| W2 | SW | 68 | 1 |

CHAIN



23.01

J&R Dairy

JR-DW2

W

Ranch: J&R Ranch

Date: 12/27/23 11:40A

IW 35.206745, -119.050118

Location:

2.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

3.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

4.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

5.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

6.

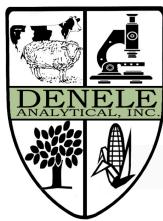
| Analysis | Weather | Temp (°F) | # of Bags/Bottles |
|----------|---------|-----------|-------------------|
| | | | |

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

| | Signature | Company | Received Date/Time | Relinquished Date/Time | Laboratory Use Only |
|-----|--------------------|---------|--------------------|------------------------|--------------------------------|
| 1st | Dominic P | ICON Ag | | 12/28/23 10:15A | Logged in By: Laboratory #: |
| 2nd | Albert Meltzer Jr. | | | 12-28-23 10:15 | |
| 3rd | | | | | |
| 4th | Danell | | 12-28-23 10:00 | | T33620el |



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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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Compliance Analysis Report

Customer

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Bakersfield, CA 93312

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SUBMITTED BY: Courier
ANALYZED DATE: 8/17/23

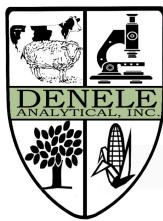
Irrigation /Ground Water (H14)

SOURCE: Well Water

| Sample ID | Lab ID | Analyte | Method Ref | Result | Units |
|-----------|-----------|--------------------------------|------------------------------|---------|----------|
| W300-04 | T3228027A | Electrical Conductivity (EC) | EPA 120.1 and SM 2320B-2011 | 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 (SO4) | EPA 375.2 | 137 | mg/L |
| | | Sodium (Na) | EPA 200.7 | 92.6 | mg/L |
| | | Ammonia Nitrogen (NH3-N) | SM 4500-NH3 D,C | < 0.500 | mg/L |
| | | Magnesium (Mg) | EPA 200.7 | 1.11 | mg/L |
| | | Nitrate Nitrogen (NO3-N) | EPA 353.2 | < 0.140 | mg/L |
| | | Total Dissolved Solids (TDS) | SM 2540 C-1997 and EPA 200.7 | 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 (NH3-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 (NO3-N) | 103 | 97.1 (T3228024C) | 94.4 (T3228024C) | | | 2.88 |
| Sodium (Na) | 98.5 | 102 (T3228029B) | 117 (T3228029B) | | | 13.5 |
| Sulfate (SO4) | 102 | 114 (T3228024C) | 105 (T3228024C) | | | 7.89 |
| Total Dissolved Solids (TDS) | 99.5 | | | 115 (T3230006A) | 120 (Dup) | 4.26 |

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Denele Analytical, Inc.

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

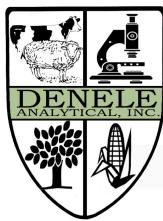
pH (pH)

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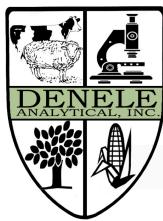
RECEIVED DATE: 8/16/23 10:00 AM
SUBMITTED BY: Courier
ANALYZED DATE: 8/22/23

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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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 |
|-----------|-----------|-----------|------------|--------|-------|
| W300-05 | T3228027B | Boron (B) | EPA 200.7 | 0.159 | ppm |

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

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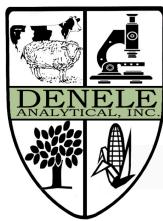
Irrigation /Ground Water (H14)

SOURCE: Well Water

| Sample ID | Lab ID | Analyte | Method Ref | Result | Units |
|-----------|-----------|--------------------------------|------------------------------|---------|----------|
| W300-05 | T3228027B | Electrical Conductivity (EC) | EPA 120.1 and SM 2320B-2011 | 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 (SO4) | EPA 375.2 | 145 | mg/L |
| | | Sodium (Na) | EPA 200.7 | 79.9 | mg/L |
| | | Ammonia Nitrogen (NH3-N) | SM 4500-NH3 D,C | < 0.500 | mg/L |
| | | Magnesium (Mg) | EPA 200.7 | 1.23 | mg/L |
| | | Nitrate Nitrogen (NO3-N) | EPA 353.2 | < 0.140 | mg/L |
| | | Total Dissolved Solids (TDS) | SM 2540 C-1997 and EPA 200.7 | 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 (NH3-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 (NO3-N) | 103 | 97.1 (T3228024C) | 94.4 (T3228024C) | | | 2.88 |
| Sodium (Na) | 98.5 | 102 (T3228029B) | 117 (T3228029B) | | | 13.5 |
| Sulfate (SO4) | 102 | 114 (T3228024C) | 105 (T3228024C) | | | 7.89 |
| Total Dissolved Solids (TDS) | 99.5 | | | 115 (T3230006A) | 120 (Dup) | 4.26 |

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Bakersfield, CA 93312

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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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Bakersfield, CA 93312

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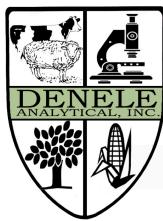
pH (pH)

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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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

Location:

1.

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

CHAIN



J&R Dairy

W300-04

W

Ranch: J&R Ranch

Date: 8-14-2023 12:30 pm

IV 35.193955. -119.048274

2.

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

CHAIN



J&R Dairy

W300-05

W

Ranch: J&R Ranch

Date: 8-14-2023 12:45 pm

IV 35.186827. -119.047845

3.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

4.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

5.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

6.

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

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

| | Signature | Company | Received Date/Time | Relinquished Date/Time | Laboratory Use Only |
|-----|--------------|---------|--------------------|------------------------|----------------------------|
| 1st | Antonio Nera | Icon Ag | | 8-14-2023 7:00 am | Logged in By: Laboratory # |
| 2nd | | | | | |
| 3rd | | | | | |
| 4th | Denele | | 8-16-23 10:20 | | T3228027 |