

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

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

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: S & S Dairy

Physical address of dairy:

5311 Avenue 272

Number and Street

Visalia

Tulare

93277

City

County

Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 10/01/1993

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0118-0050-0009-0000

B. OPERATORS

Scheenstra, Steve

Operator name: Scheenstra, Steve

Telephone no.: (559) 687-2620

Landline

Cellular

5311 Ave 272

Mailing Address Number and Street

Visalia

CA

93277

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Scheenstra, Steve

Legal owner name: Scheenstra, Steve

Telephone no.: (559) 687-2620

Landline

Cellular

5311 Ave 272

Mailing Address Number and Street

Visalia

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AVAILABLE NUTRIENTS**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	600	1,150	1,400	400	0
Number under roof	3,200	0	0	0	0	0
Maximum number	3,200	600	1,150	1,400	400	0
Average number	3,200	600	1,150	1,400	400	0
Avg live weight (lbs)	1,350	1,400	1,000	750		

Predominant milk cow breed: HolsteinAverage milk production: 75 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 119,513.73 tons per reporting periodTotal nitrogen from manure: 1,469,702.68 lbs per reporting periodAfter ammonia losses (30% loss applied): 1,028,791.88 lbs per reporting periodTotal phosphorus from manure: 243,055.79 lbs per reporting periodTotal potassium from manure: 623,341.53 lbs per reporting periodTotal salt from manure: 1,644,690.00 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 22,105,732 gallonsTotal nitrogen generated: 110,283.02 lbs

$$\begin{array}{r}
 22,105,732 \text{ gallons applied} \\
 + \quad \quad \quad 0 \text{ gallons exported} \\
 - \quad \quad \quad 0 \text{ gallons imported} \\
 = \quad \quad \quad 22,105,732 \text{ gallons generated}
 \end{array}$$

Total phosphorus generated: 13,541.72 lbsTotal potassium generated: 129,559.13 lbsTotal salt generated: 609,465.70 lbs**D. FRESH WATER SOURCES**

Source Description	Type
Canal	Surface water
Well #1	Ground water
Well #10	Ground water
Well #11	Ground water
Well #12	Ground water

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Source Description	Type
Well #13	Ground water
Well #16	Ground water
Well #2	Ground water
Well #4	Ground water
Well #5	Ground water
Well #7	Ground water
Well #8	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
ARSL 101	29	29	1	both	X118-X050-X051-XXXX
ARSL 102	34	34	2	both	X118-X050-X051-XXXX
ARSL 103	38	38	2	both	X118-X050-X049-XXXX
ARSL 104	36	36	1	both	X118-X050-X010-XXXX
ARSL 105	77	77	1	both	X118-X050-X017-XXXX
ARSL 106	77	77	2	both	X118-X050-X017-XXXX
PT 109	6	6	2	both	X118-X050-X009-XXXX
PT 111	31	31	2	both	X118-X050-X009-XXXX
PT 112	22	22	2	both	X118-X050-X009-XXXX
PT 113	9	9	2	both	X118-X050-X027-XXXX
PT 114	36	36	2	both	X118-X050-X039-XXXX
PT 115	71	71	2	both	X118-X050-X039-XXXX
PT 116E	70	70	2	both	X148-X020-X017-XXXX
PT 116W	55	55	2	both	X148-X020-X017-XXXX
PT 117	75	75	2	both	X148-X020-X017-XXXX
PT 118	39	39	1	both	X148-X020-X002-XXXX
PT 119	38	38	1	both	X148-X020-X026-XXXX
Totals for areas that were used for application	743	743	29		
Totals for areas that were not used for application					
Land application area totals	743	743	29		

B. CROPS AND HARVESTS

ARSL 101

Field name: ARSL 101

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ARSL 101

04/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 29 Plant date: 04/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/25/2023	870.00 ton	As-is		66.5	4,600.00	800.00	5,600.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	30.00	276.00	48.00	336.00	1,145.70

ARSL 102

Field name: ARSL 102

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 34 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	714.00 ton	As-is		70.6	5,300.00	900.00	7,300.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	222.60	37.80	306.60	1,469.41

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 34 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,020.00 ton	As-is		72.8	3,700.00	700.00	4,900.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	222.00	42.00	294.00	1,060.80

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ARSL 103Field name: ARSL 103

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 38 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	760.00 ton	As-is		63.6	6,600.00	1,200.00	7,800.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	264.00	48.00	312.00	1,601.60

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,140.00 ton	As-is		68.4	4,300.00	1,100.00	5,900.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	258.00	66.00	354.00	1,497.84

ARSL 104Field name: ARSL 104

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/25/2023	1,080.00 ton	As-is		65.8	4,800.00	1,000.00	5,700.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	30.00	288.00	60.00	342.00	1,354.32

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ARSL 105Field name: ARSL 105

04/15/2023: Corn, silage

Crop: Corn, silageAcres planted: 77 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/25/2023	2,387.00 ton	As-is		70.0	4,300.00	500.00	3,900.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	31.00	266.60	31.00	241.80	1,302.00

ARSL 106Field name: ARSL 106

11/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 11/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,540.00 ton	As-is		68.9	5,900.00	1,000.00	8,100.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	236.00	40.00	324.00	1,455.48

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	2,079.00 ton	As-is		68.3	4,300.00	1,000.00	6,700.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.00	232.20	54.00	361.80	1,266.73

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PT 109

Field name: PT 109

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 6 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	120.00 ton	As-is		70.3	5,400.00	900.00	7,800.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	216.00	36.00	312.00	1,389.96

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 6 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	180.00 ton	As-is		74.5	3,700.00	800.00	5,700.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	222.00	48.00	342.00	1,315.80

PT 111

Field name: PT 111

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 31 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	620.00 ton	As-is		70.0	5,700.00	900.00	8,100.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	228.00	36.00	324.00	1,536.00

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PT 111

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	837.00 ton	As-is		69.7	4,100.00	800.00	5,300.00		7.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.00	221.40	43.20	286.20	1,161.70

PT 112

Field name: PT 112

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 22 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	440.00 ton	As-is		68.8	5,600.00	900.00	7,900.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	224.00	36.00	316.00	1,435.20

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 22 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	594.00 ton	As-is		72.7	4,100.00	500.00	6,100.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.00	221.40	27.00	329.40	1,208.84

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PT 113

Field name: PT 113

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 9 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	171.00 ton	As-is		67.6	5,300.00	1,000.00	7,400.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	19.00	201.40	38.00	281.20	1,428.19

06/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 9 Plant date: 06/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	252.00 ton	As-is		64.2	4,900.00	800.00	7,500.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.00	274.40	44.80	420.00	1,583.79

PT 114

Field name: PT 114

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	792.00 ton	As-is		67.0	5,200.00	900.00	7,400.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	22.00	228.80	39.60	325.60	1,742.40

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PT 114

07/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 07/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,080.00 <i>ton</i>	As-is		68.5	4,200.00	900.00	6,000.00		7.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	252.00	54.00	360.00	1,341.90

PT 115

Field name: PT 115

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,491.00 <i>ton</i>	As-is		72.7	5,700.00	1,100.00	8,100.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	239.40	46.20	340.20	1,307.12

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	2,130.00 <i>ton</i>	As-is		67.8	3,500.00	700.00	7,300.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	210.00	42.00	438.00	1,352.40

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PT 116E

Field name: PT 116E

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 45 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	900.00 ton	As-is		73.3	5,400.00	1,100.00	8,300.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	216.00	44.00	332.00	1,260.24

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 06/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,350.00 ton	As-is		67.8	4,300.00	800.00	5,300.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	258.00	48.00	318.00	1,313.76

PT 116W

Field name: PT 116W

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 55 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	1,100.00 ton	As-is		69.8	6,100.00	1,000.00	8,200.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	244.00	40.00	328.00	1,292.56

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PT 116W

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 Plant date: 06/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,705.00 <i>ton</i>	As-is		73.9	3,800.00	700.00	5,800.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.00	235.60	43.40	359.60	1,197.47

PT 117

Field name: PT 117

11/24/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 75 Plant date: 11/24/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,500.00 <i>ton</i>	As-is		71.9	6,200.00	1,100.00	8,000.00		12.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	248.00	44.00	320.00	1,360.04

07/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 07/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	2,175.00 <i>ton</i>	As-is		70.6	4,100.00	800.00	4,600.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.00	237.80	46.40	266.80	1,295.95

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PT 118

Field name: PT 118

05/18/2023: Corn, silage

Crop: Corn, silage

Acres planted: 39 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	1,365.00 ton	As-is		71.4	3,300.00	700.00	5,800.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	231.00	49.00	406.00	1,321.32

PT 119

Field name: PT 119

05/19/2023: Corn, silage

Crop: Corn, silage

Acres planted: 38 Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	1,330.00 ton	As-is		72.8	3,100.00	700.00	5,500.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	217.00	49.00	385.00	1,294.72

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

ARSL 101 - 04/13/2023: Corn, silage

Field name: ARSL 101

Crop: Corn, silage

Plant date: 04/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/08/2022	Broadcast/incorporate	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	201.00	53.00	263.00	0.00	145.00 ton
Application event totals		201.00	53.00	263.00	0.00	
03/27/2023	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
Process Wastewater	Process wastewater	51.85	3.58	63.12	309.43	215,061.66 gal
Canal	Surface water	2.27	0.00	0.00	600.28	39,359,542.29 gal
Application event totals		54.11	3.58	63.12	909.71	
05/12/2023	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
Process Wastewater	Process wastewater	52.73	11.06	59.00	231.04	286,748.88 gal
Application event totals		52.73	11.06	59.00	231.04	

ARSL 102 - 11/12/2022: Wheat, silage, soft dough

Field name: ARSL 102

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
09/08/2022	Broadcast/incorporate	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.60	31.80	157.80	0.00	102.00 ton
Application event totals		120.60	31.80	157.80	0.00	

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ARSL 102 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	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
Process Wastewater	Process wastewater	11.27	1.21	16.04	111.84	599,565.84 gal
Well #4	Ground water	66.79	0.00	0.00	774.97	4,278,423.63 gal
Well #5	Ground water	9.45	0.00	0.00	177.68	3,968,865.18 gal
Application event totals		87.51	1.21	16.04	1,064.49	
03/02/2023	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
Process Wastewater	Process wastewater	58.96	4.08	71.79	351.90	286,748.88 gal
Canal	Surface water	0.54	0.00	0.00	143.99	11,069,158.47 gal
Application event totals		59.51	4.08	71.79	495.89	

ARSL 102 - 06/28/2023: Corn, silage

Field name: ARSL 102

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	141.60	60.00	288.00	0.00	408.00 ton
Application event totals		141.60	60.00	288.00	0.00	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	37.82	7.93	42.32	165.71	241,129.74 gal
Canal	Surface water	1.87	0.00	0.00	496.41	38,160,410.61 gal
Application event totals		39.69	7.93	42.32	662.12	

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ARSL 102 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	60.08	3.85	70.31	371.61
Application event totals		60.08	3.85	70.31	371.61
					286,748.88 gal

ARSL 103 - 11/14/2022: Wheat, silage, soft dough

Field name: ARSL 103

Crop: Wheat, silage, soft dough Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	160.80	42.40	210.40	0.00
Application event totals		160.80	42.40	210.40	0.00
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	6.03	0.65	8.58	59.82
Well #4	Ground water	54.57	0.00	0.00	633.19
Well #13	Ground water	24.62	0.00	0.00	363.51
Application event totals		85.22	0.65	8.58	1,056.53
03/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	39.57	2.73	48.17	236.14
Canal	Surface water	0.53	0.00	0.00	141.43
Application event totals		40.10	2.73	48.17	377.57

ARSL 103 - 06/28/2023: Corn, silage

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ARSL 103 - 06/28/2023: Corn, silage

Field name: ARSL 103

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	570.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/10/2023	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
Process Wastewater	Process wastewater	50.30	10.55	56.28	220.40	358,436.10 gal
Canal	Surface water	1.52	0.00	0.00	403.34	34,654,253.85 gal
Application event totals		51.82	10.55	56.28	623.74	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	40.31	2.58	47.18	249.37	215,061.66 gal
Well #4	Ground water	28.79	0.00	0.00	422.10	7,364,232.60 gal
Application event totals		69.10	2.58	47.18	671.46	

ARSL 104 - 04/17/2023: Corn, silage

Field name: ARSL 104

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.80	42.40	210.40	0.00	144.00 ton
Application event totals		160.80	42.40	210.40	0.00	

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ARSL 104 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/29/2023	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
Process Wastewater	Process wastewater	93.03	6.43	113.26	555.18	479,000.97 gal
Canal	Surface water	2.15	0.00	0.00	570.47	46,433,767.50 gal
Application event totals		95.18	6.43	113.26	1,125.65	
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
Process Wastewater	Process wastewater	53.09	11.13	59.41	232.64	358,436.10 gal
Application event totals		53.09	11.13	59.41	232.64	

ARSL 105 - 04/15/2023: Corn, silage

Field name: ARSL 105

Crop: Corn, silage

Plant date: 04/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.80	42.40	210.40	0.00	308.00 ton
Application event totals		160.80	42.40	210.40	0.00	
03/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	68.64	4.74	83.57	409.65	755,974.32 gal
Canal	Surface water	2.07	0.00	0.00	549.71	95,702,438.70 gal
Application event totals		70.72	4.74	83.57	959.36	

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ARSL 105 - 04/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	62.28	13.06	69.69	272.91
Application event totals		62.28	13.06	69.69	272.91
					899,348.76 gal

ARSL 106 - 11/27/2022: Wheat, silage, soft dough

Field name: ARSL 106

Crop: Wheat, silage, soft dough Plant date: 11/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/08/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	201.00	53.00	263.00	0.00
Application event totals		201.00	53.00	263.00	0.00
11/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	4.79	0.52	6.81	47.51
Well #1	Ground water	5.16	0.00	0.00	123.17
Well #13	Ground water	20.37	0.00	0.00	300.79
Application event totals		30.32	0.52	6.81	471.46
03/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	43.49	3.01	52.95	259.56
Canal	Surface water	0.52	0.00	0.00	137.87
Application event totals		44.01	3.01	52.95	397.43

ARSL 106 - 06/29/2023: Corn, silage

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ARSL 106 - 06/29/2023: Corn, silage

Field name: ARSL 106

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	1,155.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/07/2023	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
Process Wastewater	Process wastewater	53.26	11.17	59.59	233.36	769,008.36 gal
Canal	Surface water	1.46	0.00	0.00	387.57	67,473,966.57 gal
Application event totals		54.72	11.17	59.59	620.93	
07/27/2023	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
Process Wastewater	Process wastewater	33.16	2.12	38.81	205.11	358,436.10 gal
Well #1	Ground water	0.83	0.00	0.00	152.99	19,127,453.70 gal
Application event totals		33.99	2.12	38.81	358.09	

PT 109 - 11/02/2022: Wheat, silage, soft dough

Field name: PT 109

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/08/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	201.00	53.00	263.00	0.00	30.00 ton
Application event totals		201.00	53.00	263.00	0.00	

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PT 109 - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	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
Process Wastewater	Process wastewater	2.43	0.26	3.46	24.11	22,809.57 gal
Well #5	Ground water	7.91	0.00	0.00	148.80	586,531.80 gal
Well #13	Ground water	25.25	0.00	0.00	372.79	1,019,913.63 gal
Application event totals		35.59	0.26	3.46	545.70	
03/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	26.58	1.84	32.36	158.62	22,809.57 gal
Canal	Surface water	0.52	0.00	0.00	137.15	1,860,609.21 gal
Application event totals		27.10	1.84	32.36	295.77	

PT 109 - 06/24/2023: Corn, silage

Field name: PT 109

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	90.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/07/2023	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
Process Wastewater	Process wastewater	43.44	9.11	48.61	190.35	48,877.65 gal
Canal	Surface water	1.89	0.00	0.00	499.85	6,780,959.31 gal
Application event totals		45.33	9.11	48.61	690.20	

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PT 109 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Process Wastewater	Process wastewater	27.08	1.74	31.69	167.50
Application event totals		27.08	1.74	31.69	167.50
					Amount
					22,809.57 gal

PT 111 - 11/02/2022: Wheat, silage, soft dough

Field name: PT 111

Crop: Wheat, silage, soft dough Plant date: 11/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/08/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	120.60	31.80	157.80	0.00
Application event totals		120.60	31.80	157.80	0.00
11/04/2022	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)
Process Wastewater	Process wastewater	7.93	0.85	11.28	78.66
Well #5	Ground water	7.21	0.00	0.00	135.52
Well #13	Ground water	23.00	0.00	0.00	339.56
Application event totals		38.13	0.85	11.28	553.74
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	97.74	6.75	119.00	583.32
Canal	Surface water	0.54	0.00	0.00	142.49
Application event totals		98.28	6.75	119.00	725.81

PT 111 - 06/29/2023: Corn, silage

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PT 111 - 06/29/2023: Corn, silage

Field name: PT 111

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	465.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/10/2023	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
Process Wastewater	Process wastewater	66.14	13.87	74.01	289.82	384,504.18 gal
Canal	Surface water	1.88	0.00	0.00	499.44	35,006,172.93 gal
Application event totals		68.03	13.87	74.01	789.26	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	32.95	2.11	38.56	203.78	143,374.44 gal
Application event totals		32.95	2.11	38.56	203.78	

PT 112 - 11/14/2022: Wheat, silage, soft dough

Field name: PT 112

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.80	42.40	210.40	0.00	88.00 ton
Application event totals		160.80	42.40	210.40	0.00	

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PT 112 - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Process Wastewater	Process wastewater	12.59	1.35	17.92	124.94	433,381.83 gal
Well #5	Ground water	7.24	0.00	0.00	136.17	1,968,140.04 gal
Well #13	Ground water	23.10	0.00	0.00	341.07	3,421,435.50 gal
Application event totals		42.93	1.35	17.92	602.17	
03/07/2023	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
Process Wastewater	Process wastewater	61.10	4.22	74.38	364.62	192,252.09 gal
Canal	Surface water	0.55	0.00	0.00	144.77	7,201,307.10 gal
Application event totals		61.64	4.22	74.38	509.40	

PT 112 - 06/29/2023: Corn, silage

Field name: PT 112

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	330.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/12/2023	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
Process Wastewater	Process wastewater	69.50	14.58	77.77	304.55	286,748.88 gal
Canal	Surface water	1.90	0.00	0.00	502.98	25,018,839.78 gal
Application event totals		71.40	14.58	77.77	807.53	

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PT 112 - 06/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	30.60	1.96	35.81	189.26
Application event totals		30.60	1.96	35.81	189.26

PT 113 - 11/14/2022: Wheat, silage, soft dough

Field name: PT 113

Crop: Wheat, silage, soft dough Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	120.60	31.80	157.80	0.00
Application event totals		120.60	31.80	157.80	0.00
11/15/2022	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)
Process Wastewater	Process wastewater	7.64	0.82	10.87	75.78
Well #5	Ground water	7.15	0.00	0.00	134.47
Well #13	Ground water	22.80	0.00	0.00	336.66
Application event totals		37.59	0.82	10.87	546.91
03/09/2023	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)
Process Wastewater	Process wastewater	73.41	5.07	89.37	438.10
Canal	Surface water	0.53	0.00	0.00	141.56
Application event totals		73.94	5.07	89.37	579.65

PT 113 - 06/29/2023: Corn, silage

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PT 113 - 06/29/2023: Corn, silage

Field name: PT 113

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	135.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/12/2023	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
Process Wastewater	Process wastewater	113.91	23.89	127.46	499.13	192,252.09 gal
Canal	Surface water	1.89	0.00	0.00	499.93	10,173,068.22 gal
Application event totals		115.79	23.89	127.46	999.06	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	18.05	1.16	21.13	111.67	22,809.57 gal
Application event totals		18.05	1.16	21.13	111.67	

PT 114 - 11/16/2022: Wheat, silage, soft dough

Field name: PT 114

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.60	31.80	157.80	0.00	108.00 ton
Application event totals		120.60	31.80	157.80	0.00	

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PT 114 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/17/2022	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
Process Wastewater	Process wastewater	4.28	0.46	6.09	42.48	241,129.74 gal
Well #4	Ground water	63.08	0.00	0.00	731.92	4,278,423.63 gal
Well #5	Ground water	8.92	0.00	0.00	167.81	3,968,865.18 gal
Application event totals		76.28	0.46	6.09	942.21	
03/09/2023	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
Process Wastewater	Process wastewater	74.67	5.16	90.91	445.65	384,504.18 gal
Canal	Surface water	0.55	0.00	0.00	145.96	11,880,527.46 gal
Application event totals		75.22	5.16	90.91	591.61	

PT 114 - 07/01/2023: Corn, silage

Field name: PT 114

Crop: Corn, silage

Plant date: 07/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	540.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	70.95	14.88	79.39	310.90	479,000.97 gal
Canal	Surface water	1.88	0.00	0.00	498.69	40,591,259.07 gal
Application event totals		72.83	14.88	79.39	809.59	

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PT 114 - 07/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	28.37	1.82	33.20	175.48
Application event totals		28.37	1.82	33.20	175.48
					143,374.44 gal

PT 115 - 11/18/2022: Wheat, silage, soft dough

Field name: PT 115

Crop: Wheat, silage, soft dough Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	201.00	53.00	263.00	0.00
Application event totals		201.00	53.00	263.00	0.00
11/19/2022	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)
Process Wastewater	Process wastewater	4.55	0.49	6.47	45.12
Well #7	Ground water	9.51	0.00	0.00	186.33
Well #16	Ground water	8.89	0.00	0.00	167.65
Application event totals		22.94	0.49	6.47	399.10
03/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	47.17	3.26	57.43	281.50
Canal	Surface water	0.55	0.00	0.00	145.78
Application event totals		47.72	3.26	57.43	427.28

PT 115 - 06/20/2023: Corn, silage

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PT 115 - 06/20/2023: Corn, silage

Field name: PT 115

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	141.60	60.00	288.00	0.00	852.00 ton
Application event totals		141.60	60.00	288.00	0.00	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	32.55	6.83	36.42	142.63	433,381.83 gal
Canal	Surface water	1.89	0.00	0.00	500.07	80,276,652.36 gal
Application event totals		34.44	6.83	36.42	642.70	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	76.83	4.92	89.91	475.21	765,749.85 gal
Application event totals		76.83	4.92	89.91	475.21	

PT 116E - 11/21/2022: Wheat, silage, soft dough

Field name: PT 116E

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	160.80	42.40	210.40	0.00	180.00 ton
Application event totals		160.80	42.40	210.40	0.00	

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PT 116E - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	5.09	0.55	7.25	50.52	358,436.10 gal
Well #7	Ground water	10.18	0.00	0.00	199.54	6,099,930.72 gal
Well #8	Ground water	9.17	0.00	0.00	197.56	5,044,173.48 gal
Application event totals		24.44	0.55	7.25	447.62	
03/02/2023	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
Process Wastewater	Process wastewater	67.33	4.65	81.98	401.84	433,381.83 gal
Canal	Surface water	0.52	0.00	0.00	138.00	14,040,919.59 gal
Application event totals		67.85	4.65	81.98	539.84	

PT 116E - 06/30/2023: Corn, silage

Field name: PT 116E

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/29/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	675.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/12/2023	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
Process Wastewater	Process wastewater	68.35	14.33	76.47	299.48	576,756.27 gal
Canal	Surface water	2.11	0.00	0.00	559.09	56,883,809.07 gal
Application event totals		70.45	14.33	76.47	858.56	

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PT 116E - 06/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	51.06	3.27	59.76	315.87
Application event totals		51.06	3.27	59.76	315.87
					322,592.49 gal

PT 116W - 11/22/2022: Wheat, silage, soft dough

Field name: PT 116W

Crop: Wheat, silage, soft dough Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	160.80	42.40	210.40	0.00
Application event totals		160.80	42.40	210.40	0.00
11/24/2022	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)
Process Wastewater	Process wastewater	8.37	0.90	11.91	83.04
Well #7	Ground water	10.08	0.00	0.00	197.62
Well #8	Ground water	9.08	0.00	0.00	195.68
Application event totals		27.53	0.90	11.91	476.34
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	73.32	5.07	89.26	437.55
Canal	Surface water	0.54	0.00	0.00	142.84
Application event totals		73.85	5.07	89.26	580.38

PT 116W - 06/30/2023: Corn, silage

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PT 116W - 06/30/2023: Corn, silage

Field name: PT 116W

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/29/2023	Shank	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	825.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/12/2023	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
Process Wastewater	Process wastewater	55.92	11.73	62.57	245.03	576,756.27 gal
Canal	Surface water	2.05	0.00	0.00	544.30	67,685,769.72 gal
Application event totals		57.97	11.73	62.57	789.33	
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
Process Wastewater	Process wastewater	56.13	3.60	65.69	347.19	433,381.83 gal
Application event totals		56.13	3.60	65.69	347.19	

PT 117 - 11/24/2022: Wheat, silage, soft dough

Field name: PT 117

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	201.00	53.00	263.00	0.00	375.00 ton
Application event totals		201.00	53.00	263.00	0.00	

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PT 117 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/27/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	5.72	0.62	8.14	56.76	671,253.06 gal
Well #7	Ground water	10.35	0.00	0.00	202.87	10,335,993.72 gal
Well #8	Ground water	9.32	0.00	0.00	200.93	8,550,330.24 gal
Application event totals		25.39	0.62	8.14	460.56	
03/07/2023	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
Process Wastewater	Process wastewater	53.76	3.72	65.46	320.87	576,756.27 gal
Canal	Surface water	0.54	0.00	0.00	143.31	24,301,967.58 gal
Application event totals		54.31	3.72	65.46	464.18	

PT 117 - 07/01/2023: Corn, silage

Field name:	PT 117					
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	177.00	75.00	360.00	0.00	1,125.00 ton
Application event totals		177.00	75.00	360.00	0.00	
06/11/2023	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
Process Wastewater	Process wastewater	53.75	11.27	60.14	235.52	755,974.32 gal
Canal	Surface water	1.86	0.00	0.00	492.71	83,551,454.91 gal
Application event totals		55.61	11.27	60.14	728.24	

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PT 117 - 07/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	34.04	2.18	39.84	210.58
Application event totals		34.04	2.18	39.84	210.58
					358,436.10 gal

PT 118 - 05/18/2023: Corn, silage

Field name: PT 118

Crop: Corn, silage

Plant date: 05/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Manure	Corral solids	120.60	31.80	157.80	0.00
Application event totals		120.60	31.80	157.80	0.00
04/30/2023	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)
Process Wastewater	Process wastewater	88.66	18.59	99.21	388.50
Canal	Surface water	2.14	0.00	0.00	566.09
Application event totals		90.80	18.59	99.21	954.59
07/12/2023	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)
Process Wastewater	Process wastewater	39.28	2.52	45.97	242.97
Application event totals		39.28	2.52	45.97	242.97
					215,061.66 gal

PT 119 - 05/19/2023: Corn, silage

Field name: PT 119

Crop: Corn, silage

Plant date: 05/19/2023

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

PT 119 - 05/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/14/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.60	31.80	157.80	0.00	114.00 ton
Application event totals		120.60	31.80	157.80	0.00	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	85.51	17.93	95.68	374.68	609,341.37 gal
Canal	Surface water	2.13	0.00	0.00	565.67	48,600,676.65 gal
Application event totals		87.64	17.93	95.68	940.35	
07/15/2023	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
Process Wastewater	Process wastewater	40.31	2.58	47.18	249.37	215,061.66 gal
Application event totals		40.31	2.58	47.18	249.37	

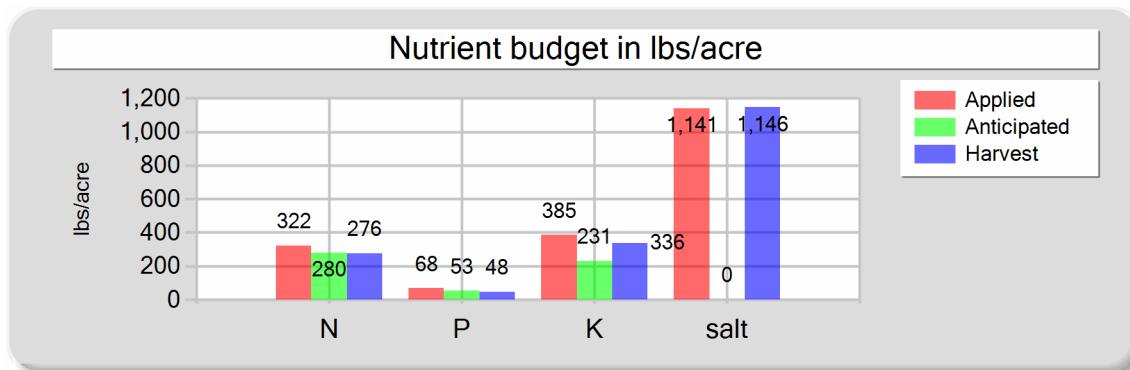
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

ARSL 101 - 04/13/2023: Corn, silage

Field name: ARSL 101 Crop: Corn, silage Plant date: 04/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.00	53.00	263.00	0.00
Process wastewater	104.57	14.64	122.12	540.47
Fresh water	2.27	0.00	0.00	600.28
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	321.84	67.64	385.12	1,140.75
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	276.00	48.00	336.00	1,145.70
Nutrient balance	45.84	19.64	49.12	-4.95
Applied to removed ratio	1.17	1.41	1.15	1.00

Fresh water applied
39,359,542.29 gallons
1,449.48 acre-inches
49.98 inches/acre
Process wastewater applied
501,810.54 gallons
18.48 acre-inches
0.64 inches/acre
Total harvests for the crop
1 harvests

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

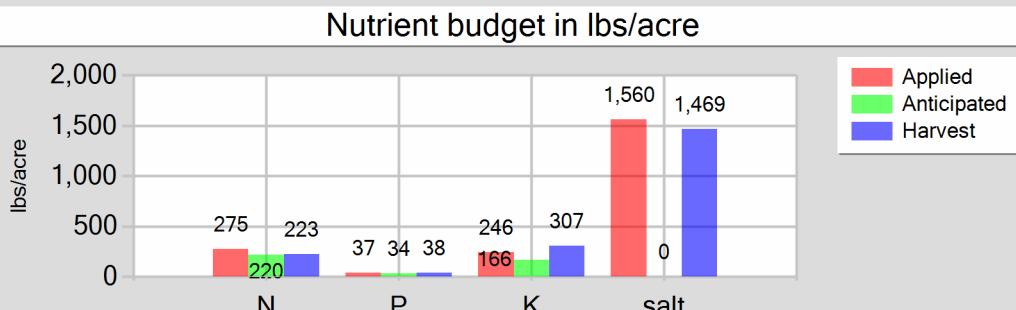
Reporting period 01/01/2023 to 12/31/2023.

ARSL 102 - 11/12/2022: Wheat, silage, soft dough

Field name: ARSL 102

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	70.24	5.29	87.83	463.74
Fresh water	76.78	0.00	0.00	1,096.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	274.62	37.09	245.63	1,560.39
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	222.60	37.80	306.60	1,469.41
Nutrient balance	52.02	-0.71	-60.97	90.97
Applied to removed ratio	1.23	0.98	0.80	1.06

Fresh water applied

19,316,447.28 gallons
711.36 acre-inches
20.92 inches/acre

Process wastewater applied

886,314.72 gallons
32.64 acre-inches
0.96 inches/acre

Total harvests for the crop

1 harvests

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

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

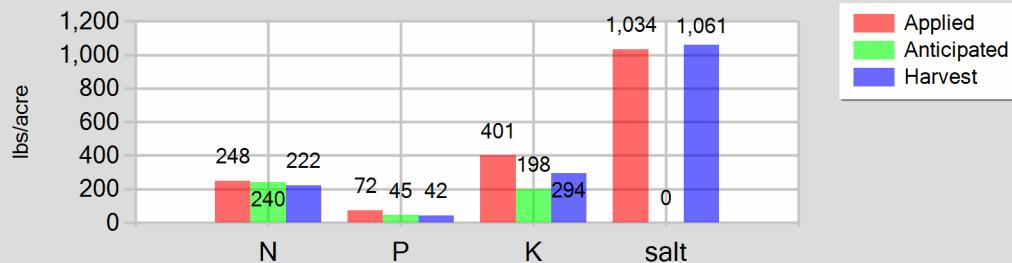
ARSL 102 - 06/28/2023: Corn, silage

Field name: ARSL 102

Crop: Corn, silage

Plant date: 06/28/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	38,160,410.61 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,405.32 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	41.33 inches/acre
Dry manure	141.60	60.00	288.00	0.00	
Process wastewater	97.89	11.78	112.63	537.32	
Fresh water	1.87	0.00	0.00	496.41	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	248.37	71.78	400.63	1,033.72	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	527,878.62 gallons
Actual crop nutrient removal	222.00	42.00	294.00	1,060.80	19.44 acre-inches
Nutrient balance	26.37	29.78	106.63	-27.08	0.57 inches/acre
Applied to removed ratio	1.12	1.71	1.36	0.97	Total harvests for the crop
					1 harvests

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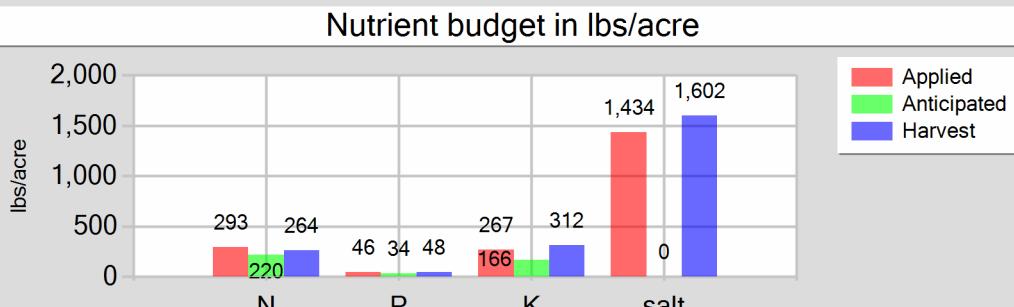
Reporting period 01/01/2023 to 12/31/2023.

ARSL 103 - 11/14/2022: Wheat, silage, soft dough

Field name: ARSL 103

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	160.80	42.40	210.40	0.00
Process wastewater	45.60	3.38	56.75	295.97
Fresh water	79.72	0.00	0.00	1,138.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.12	45.78	267.15	1,434.10
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	264.00	48.00	312.00	1,601.60
Nutrient balance	29.12	-2.22	-44.85	-167.50
Applied to removed ratio	1.11	0.95	0.86	0.90

Fresh water applied

22,356,637.11 gallons
823.32 acre-inches
21.67 inches/acre

Process wastewater applied

573,497.76 gallons
21.12 acre-inches
0.56 inches/acre

Total harvests for the crop

1 harvests

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

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

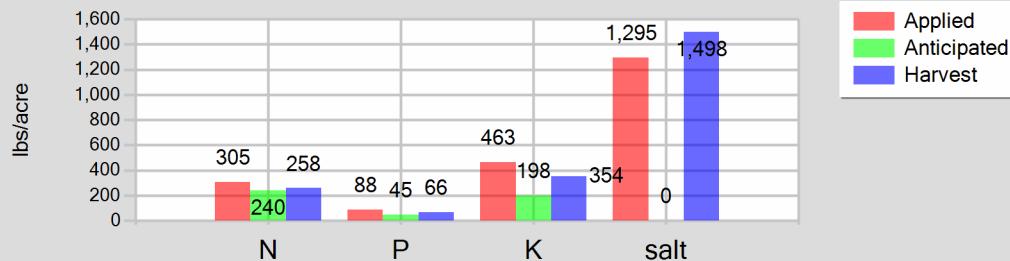
ARSL 103 - 06/28/2023: Corn, silage

Field name: ARSL 103

Crop: Corn, silage

Plant date: 06/28/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	90.61	13.13	103.46	469.77
Fresh water	30.31	0.00	0.00	825.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.92	88.13	463.46	1,295.21
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	258.00	66.00	354.00	1,497.84
Nutrient balance	46.92	22.13	109.46	-202.63
Applied to removed ratio	1.18	1.34	1.31	0.86

Fresh water applied

42,018,486.45 gallons
1,547.40 acre-inches
40.72 inches/acre

Process wastewater applied

573,497.76 gallons
21.12 acre-inches
0.56 inches/acre

Total harvests for the crop

1 harvests

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

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

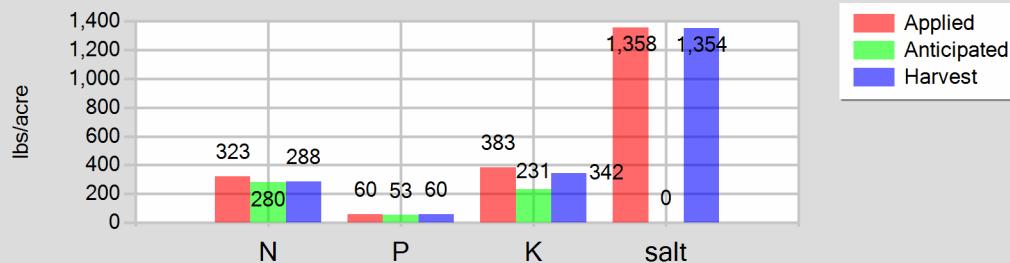
ARSL 104 - 04/17/2023: Corn, silage

Field name: ARSL 104

Crop: Corn, silage

Plant date: 04/17/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	160.80	42.40	210.40	0.00
Process wastewater	146.12	17.56	172.66	787.82
Fresh water	2.15	0.00	0.00	570.47
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	323.07	59.96	383.06	1,358.29
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	288.00	60.00	342.00	1,354.32
Nutrient balance	35.07	-0.04	41.06	3.97
Applied to removed ratio	1.12	1.00	1.12	1.00

Fresh water applied

46,433,767.50 gallons
1,710.00 acre-inches
47.50 inches/acre

Process wastewater applied

837,437.07 gallons
30.84 acre-inches
0.86 inches/acre

Total harvests for the crop

1 harvests

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

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

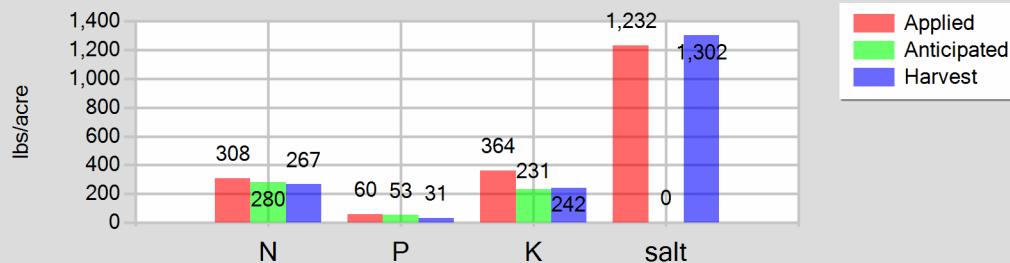
ARSL 105 - 04/15/2023: Corn, silage

Field name: ARSL 105

Crop: Corn, silage

Plant date: 04/15/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	160.80	42.40	210.40	0.00
Process wastewater	130.92	17.80	153.26	682.56
Fresh water	2.07	0.00	0.00	549.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	307.80	60.20	363.66	1,232.27
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	266.60	31.00	241.80	1,302.00
Nutrient balance	41.20	29.20	121.86	-69.73
Applied to removed ratio	1.15	1.94	1.50	0.95

Fresh water applied

95,702,438.70 gallons
3,524.40 acre-inches
45.77 inches/acre

Process wastewater applied

1,655,323.08 gallons
60.96 acre-inches
0.79 inches/acre

Total harvests for the crop

1 harvests

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

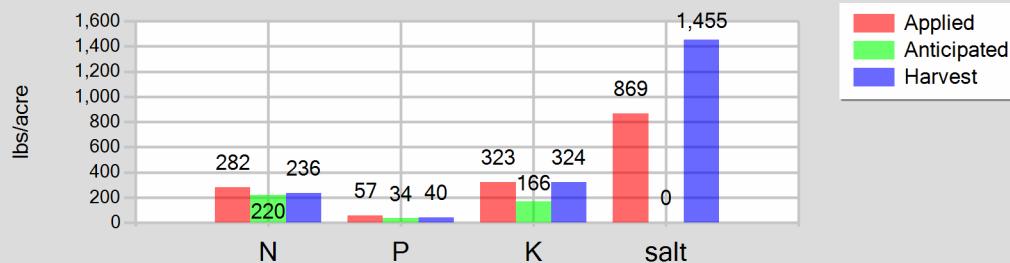
ARSL 106 - 11/27/2022: Wheat, silage, soft dough

Field name: ARSL 106

Crop: Wheat, silage, soft dough

Plant date: 11/27/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.00	53.00	263.00	0.00
Process wastewater	48.28	3.52	59.76	307.07
Fresh water	26.05	0.00	0.00	561.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.33	56.52	322.76	868.89
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	236.00	40.00	324.00	1,455.48
Nutrient balance	46.33	16.52	-1.24	-586.59
Applied to removed ratio	1.20	1.41	1.00	0.60

Fresh water applied

43,540,210.62 gallons
1,603.44 acre-inches
20.82 inches/acre

Process wastewater applied

1,055,757.24 gallons
38.88 acre-inches
0.50 inches/acre

Total harvests for the crop

1 harvests

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

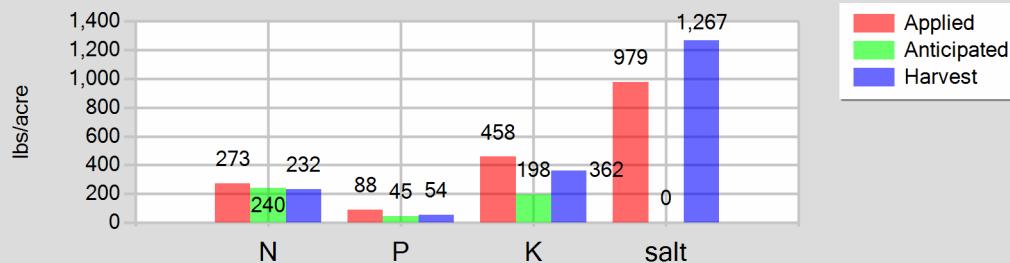
ARSL 106 - 06/29/2023: Corn, silage

Field name: ARSL 106

Crop: Corn, silage

Plant date: 06/29/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	86.41	13.29	98.40	438.47
Fresh water	2.29	0.00	0.00	540.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.71	88.29	458.40	979.02
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	232.20	54.00	361.80	1,266.73
Nutrient balance	40.51	34.29	96.60	-287.71
Applied to removed ratio	1.17	1.64	1.27	0.77

Fresh water applied

86,601,420.27 gallons
3,189.24 acre-inches
41.42 inches/acre

Process wastewater applied

1,127,444.46 gallons
41.52 acre-inches
0.54 inches/acre

Total harvests for the crop

1 harvests

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

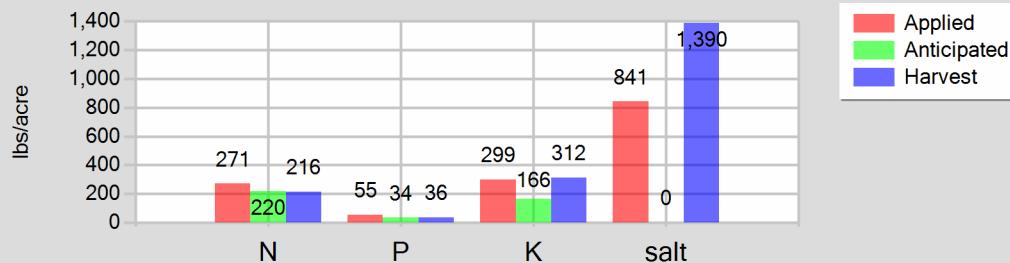
PT 109 - 11/02/2022: Wheat, silage, soft dough

Field name: PT 109

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.00	53.00	263.00	0.00
Process wastewater	29.01	2.10	35.82	182.73
Fresh water	33.68	0.00	0.00	658.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.69	55.10	298.82	841.47
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	216.00	36.00	312.00	1,389.96
Nutrient balance	54.69	19.10	-13.18	-548.49
Applied to removed ratio	1.25	1.53	0.96	0.61

Fresh water applied

3,467,054.64 gallons
127.68 acre-inches
21.28 inches/acre

Process wastewater applied

45,619.14 gallons
1.68 acre-inches
0.28 inches/acre

Total harvests for the crop

1 harvests

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

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

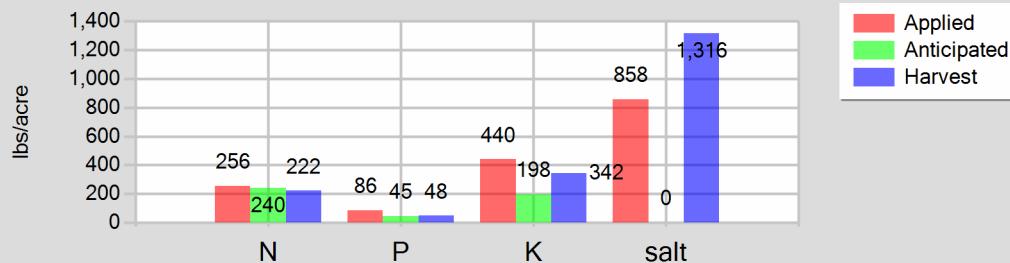
PT 109 - 06/24/2023: Corn, silage

Field name: PT 109

Crop: Corn, silage

Plant date: 06/24/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	70.52	10.84	80.30	357.85
Fresh water	1.89	0.00	0.00	499.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.41	85.84	440.30	857.70
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	222.00	48.00	342.00	1,315.80
Nutrient balance	34.41	37.84	98.30	-458.10
Applied to removed ratio	1.15	1.79	1.29	0.65

Fresh water applied

6,780,959.31 gallons
249.72 acre-inches
41.62 inches/acre

Process wastewater applied

71,687.22 gallons
2.64 acre-inches
0.44 inches/acre

Total harvests for the crop

1 harvests

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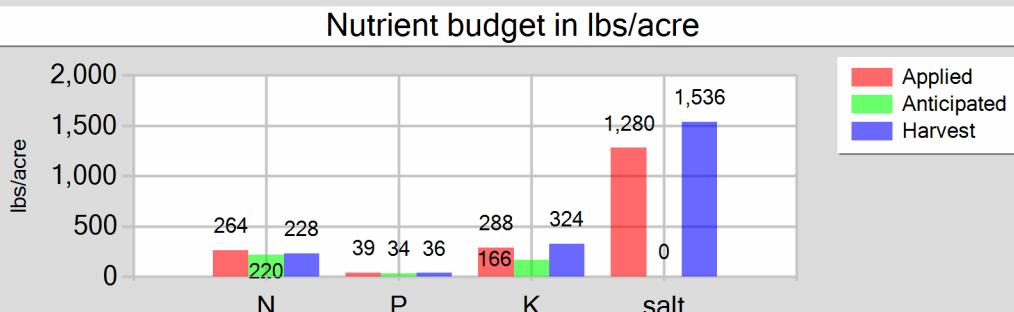
Reporting period 01/01/2023 to 12/31/2023.

PT 111 - 11/02/2022: Wheat, silage, soft dough

Field name: PT 111

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	105.67	7.61	130.28	661.98
Fresh water	30.74	0.00	0.00	617.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.01	39.41	288.08	1,279.55
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	228.00	36.00	324.00	1,536.00
Nutrient balance	36.01	3.41	-35.92	-256.45
Applied to removed ratio	1.16	1.09	0.89	0.83

Fresh water applied

17,547,076.35 gallons
646.20 acre-inches
20.85 inches/acre

Process wastewater applied

817,886.01 gallons
30.12 acre-inches
0.97 inches/acre

Total harvests for the crop

1 harvests

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

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

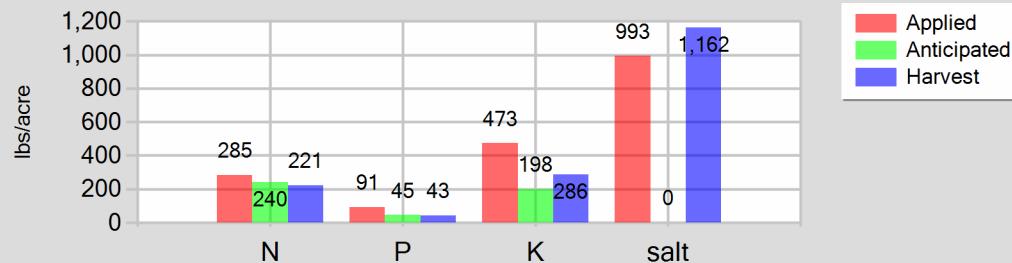
PT 111 - 06/29/2023: Corn, silage

Field name: PT 111

Crop: Corn, silage

Plant date: 06/29/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	99.09	15.98	112.56	493.60
Fresh water	1.88	0.00	0.00	499.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.97	90.98	472.56	993.04
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	221.40	43.20	286.20	1,161.70
Nutrient balance	63.57	47.78	186.36	-168.66
Applied to removed ratio	1.29	2.11	1.65	0.85

Fresh water applied

35,006,172.93 gallons
1,289.16 acre-inches
41.59 inches/acre

Process wastewater applied

527,878.62 gallons
19.44 acre-inches
0.63 inches/acre

Total harvests for the crop

1 harvests

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

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

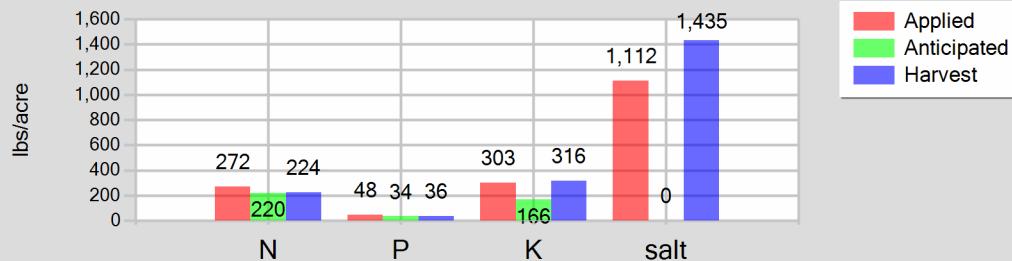
PT 112 - 11/14/2022: Wheat, silage, soft dough

Field name: PT 112

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	12,590,882.64 gallons
Plowdown credit	0.00	0.00	0.00	0.00	463.68 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.08 inches/acre
Dry manure	160.80	42.40	210.40	0.00	
Process wastewater	73.69	5.58	92.30	489.56	625,633.92 gallons
Fresh water	30.89	0.00	0.00	622.01	23.04 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.05 inches/acre
Total nutrients applied	272.38	47.98	302.70	1,111.57	
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	224.00	36.00	316.00	1,435.20	
Nutrient balance	48.38	11.98	-13.30	-323.63	
Applied to removed ratio	1.22	1.33	0.96	0.77	
Total harvests for the crop					1 harvests

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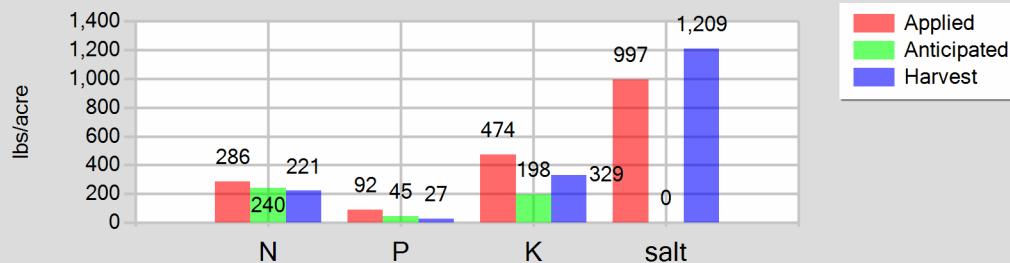
PT 112 - 06/29/2023: Corn, silage

Field name: PT 112

Crop: Corn, silage

Plant date: 06/29/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	100.10	16.54	113.58	493.81
Fresh water	1.90	0.00	0.00	502.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.00	91.54	473.58	996.79
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	221.40	27.00	329.40	1,208.84
Nutrient balance	64.60	64.54	144.18	-212.06
Applied to removed ratio	1.29	3.39	1.44	0.82

Fresh water applied

25,018,839.78 gallons
921.36 acre-inches
41.88 inches/acre

Process wastewater applied

381,245.67 gallons
14.04 acre-inches
0.64 inches/acre

Total harvests for the crop

1 harvests

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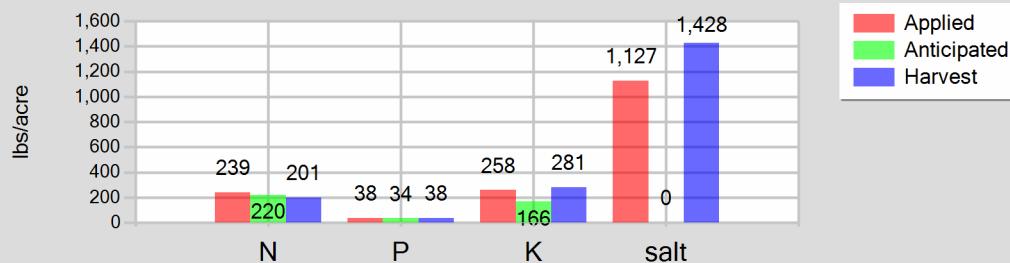
PT 113 - 11/14/2022: Wheat, silage, soft dough

Field name: PT 113

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	81.05	5.89	100.24	513.87
Fresh water	30.49	0.00	0.00	612.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.13	37.69	258.04	1,126.56
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	201.40	38.00	281.20	1,428.19
Nutrient balance	37.73	-0.31	-23.16	-301.63
Applied to removed ratio	1.19	0.99	0.92	0.79

Fresh water applied

5,057,207.52 gallons
186.24 acre-inches
20.69 inches/acre

Process wastewater applied

202,027.62 gallons
7.44 acre-inches
0.83 inches/acre

Total harvests for the crop

1 harvests

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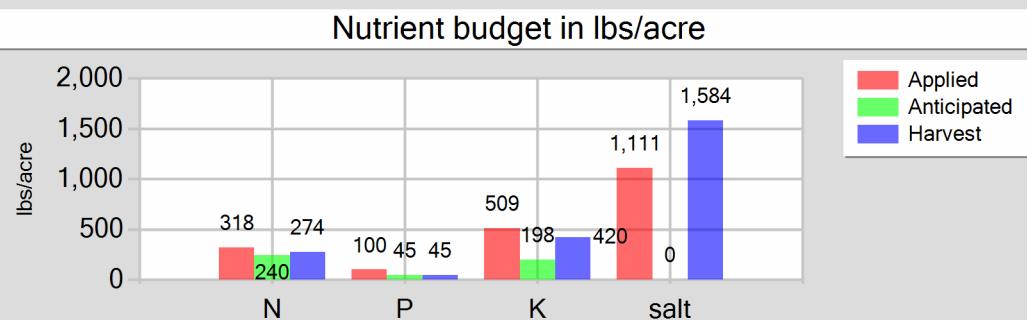
Reporting period 01/01/2023 to 12/31/2023.

PT 113 - 06/29/2023: Corn, silage

Field name: PT 113

Crop: Corn, silage

Plant date: 06/29/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	131.96	25.04	148.58	610.80
Fresh water	1.89	0.00	0.00	499.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	317.85	100.04	508.58	1,110.73
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	274.40	44.80	420.00	1,583.79
Nutrient balance	43.45	55.24	88.58	-473.06
Applied to removed ratio	1.16	2.23	1.21	0.70

Fresh water applied

10,173,068.22 gallons
374.64 acre-inches
41.63 inches/acre

Process wastewater applied

215,061.66 gallons
7.92 acre-inches
0.88 inches/acre

Total harvests for the crop

1 harvests

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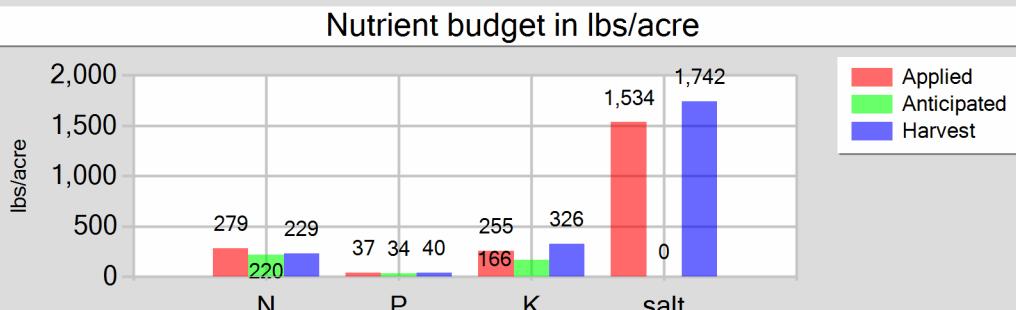
Reporting period 01/01/2023 to 12/31/2023.

PT 114 - 11/16/2022: Wheat, silage, soft dough

Field name: PT 114

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	78.95	5.62	97.01	488.13
Fresh water	72.55	0.00	0.00	1,045.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.11	37.42	254.81	1,533.82
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	228.80	39.60	325.60	1,742.40
Nutrient balance	50.31	-2.18	-70.79	-208.58
Applied to removed ratio	1.22	0.94	0.78	0.88

Fresh water applied

20,127,816.27 gallons
741.24 acre-inches
20.59 inches/acre

Process wastewater applied

625,633.92 gallons
23.04 acre-inches
0.64 inches/acre

Total harvests for the crop

1 harvests

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

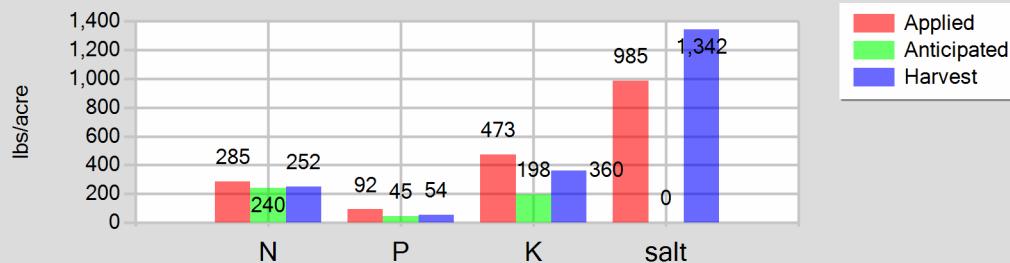
PT 114 - 07/01/2023: Corn, silage

Field name: PT 114

Crop: Corn, silage

Plant date: 07/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	99.32	16.70	112.59	486.38
Fresh water	1.88	0.00	0.00	498.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	285.20	91.70	472.59	985.07
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	252.00	54.00	360.00	1,341.90
Nutrient balance	33.20	37.70	112.59	-356.83
Applied to removed ratio	1.13	1.70	1.31	0.73

Fresh water applied

40,591,259.07 gallons
1,494.84 acre-inches
41.52 inches/acre

Process wastewater applied

622,375.41 gallons
22.92 acre-inches
0.64 inches/acre

Total harvests for the crop

1 harvests

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

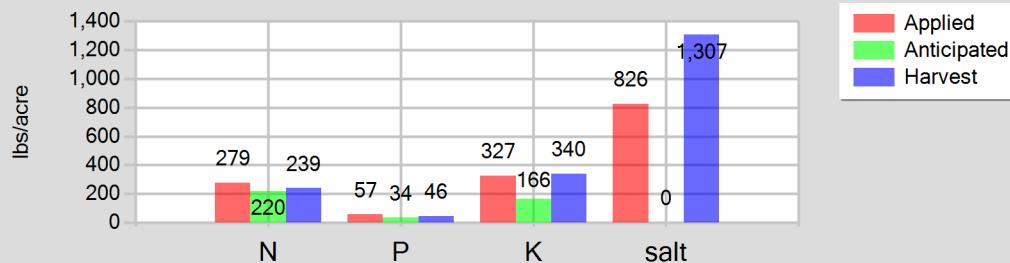
PT 115 - 11/18/2022: Wheat, silage, soft dough

Field name: PT 115

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	40,790,028.18 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,502.16 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.16 inches/acre
Dry manure	201.00	53.00	263.00	0.00	
Process wastewater	51.71	3.75	63.90	326.61	984,070.02 gallons
Fresh water	18.94	0.00	0.00	499.76	36.24 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.51 inches/acre
Total nutrients applied	278.66	56.75	326.90	826.38	
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00	
Actual crop nutrient removal	239.40	46.20	340.20	1,307.12	
Nutrient balance	39.26	10.55	-13.30	-480.75	
Applied to removed ratio	1.16	1.23	0.96	0.63	
Total harvests for the crop					1 harvests

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

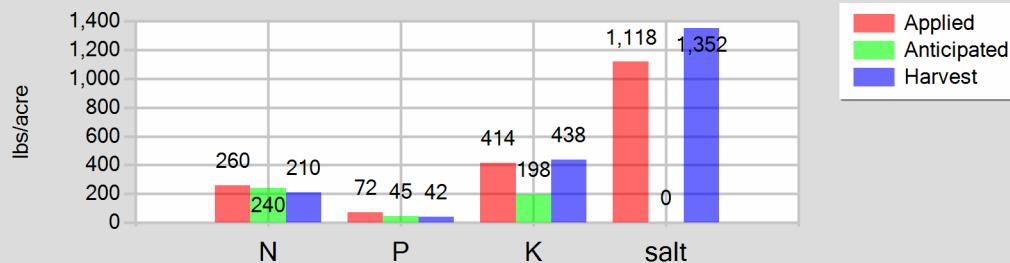
PT 115 - 06/20/2023: Corn, silage

Field name: PT 115

Crop: Corn, silage

Plant date: 06/20/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	141.60	60.00	288.00	0.00
Process wastewater	109.38	11.75	126.33	617.84
Fresh water	1.89	0.00	0.00	500.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.86	71.75	414.33	1,117.91
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	210.00	42.00	438.00	1,352.40
Nutrient balance	49.86	29.75	-23.67	-234.49
Applied to removed ratio	1.24	1.71	0.95	0.83

Fresh water applied

80,276,652.36 gallons
2,956.32 acre-inches
41.64 inches/acre

Process wastewater applied

1,199,131.68 gallons
44.16 acre-inches
0.62 inches/acre

Total harvests for the crop

1 harvests

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

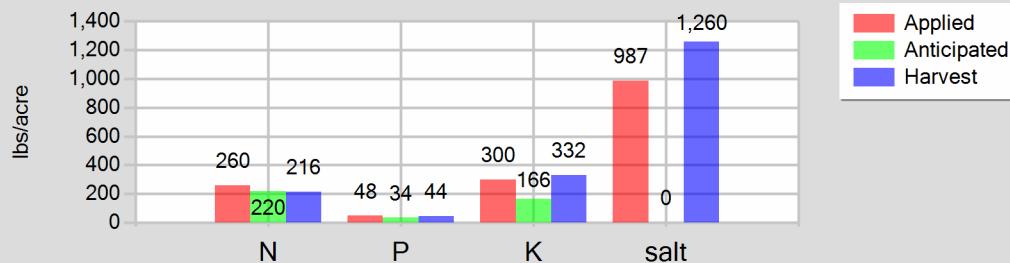
PT 116E - 11/21/2022: Wheat, silage, soft dough

Field name: PT 116E

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	160.80	42.40	210.40	0.00
Process wastewater	72.42	5.20	89.22	452.36
Fresh water	19.87	0.00	0.00	535.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	260.09	47.60	299.62	987.46
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	216.00	44.00	332.00	1,260.24
Nutrient balance	44.09	3.60	-32.38	-272.78
Applied to removed ratio	1.20	1.08	0.90	0.78

Fresh water applied

25,185,023.79 gallons
927.48 acre-inches
20.61 inches/acre

Process wastewater applied

791,817.93 gallons
29.16 acre-inches
0.65 inches/acre

Total harvests for the crop

1 harvests

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

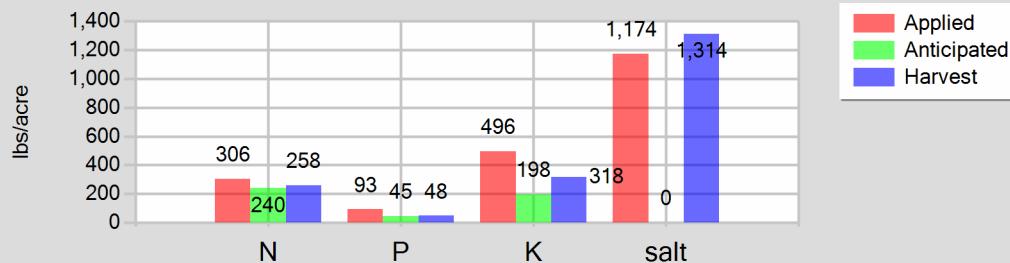
PT 116E - 06/30/2023: Corn, silage

Field name: PT 116E

Crop: Corn, silage

Plant date: 06/30/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	56,883,809.07 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,094.84 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	46.55 inches/acre
Dry manure	177.00	75.00	360.00	0.00	
Process wastewater	119.41	17.60	136.24	615.34	
Fresh water	2.11	0.00	0.00	559.09	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	305.52	92.60	496.24	1,174.43	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	899,348.76 gallons
Actual crop nutrient removal	258.00	48.00	318.00	1,313.76	33.12 acre-inches
Nutrient balance	47.52	44.60	178.24	-139.33	0.74 inches/acre
Applied to removed ratio	1.18	1.93	1.56	0.89	Total harvests for the crop
					1 harvests

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

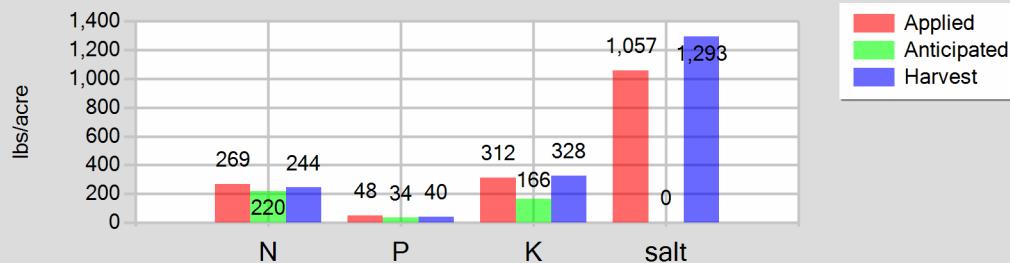
PT 116W - 11/22/2022: Wheat, silage, soft dough

Field name: PT 116W

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	160.80	42.40	210.40	0.00
Process wastewater	81.69	5.97	101.17	520.59
Fresh water	19.70	0.00	0.00	536.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	269.19	48.37	311.57	1,056.73
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	244.00	40.00	328.00	1,292.56
Nutrient balance	25.19	8.37	-16.43	-235.83
Applied to removed ratio	1.10	1.21	0.95	0.82

Fresh water applied

31,252,369.41 gallons
1,150.92 acre-inches
20.93 inches/acre

Process wastewater applied

1,296,886.98 gallons
47.76 acre-inches
0.87 inches/acre

Total harvests for the crop

1 harvests

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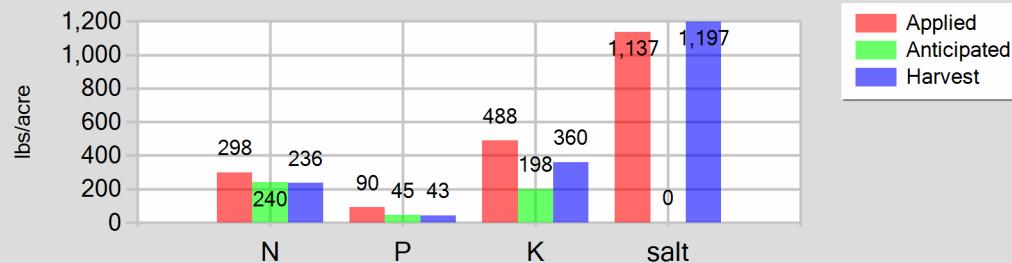
PT 116W - 06/30/2023: Corn, silage

Field name: PT 116W

Crop: Corn, silage

Plant date: 06/30/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	67,685,769.72 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,492.64 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.32 inches/acre
Dry manure	177.00	75.00	360.00	0.00	
Process wastewater	112.05	15.32	128.26	592.22	Process wastewater applied
Fresh water	2.05	0.00	0.00	544.30	1,010,138.10 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	37.20 acre-inches
Total nutrients applied	298.10	90.32	488.26	1,136.52	0.68 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	235.60	43.40	359.60	1,197.47	Total harvests for the crop
Nutrient balance	62.50	46.92	128.66	-60.95	1 harvests
Applied to removed ratio	1.27	2.08	1.36	0.95	

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

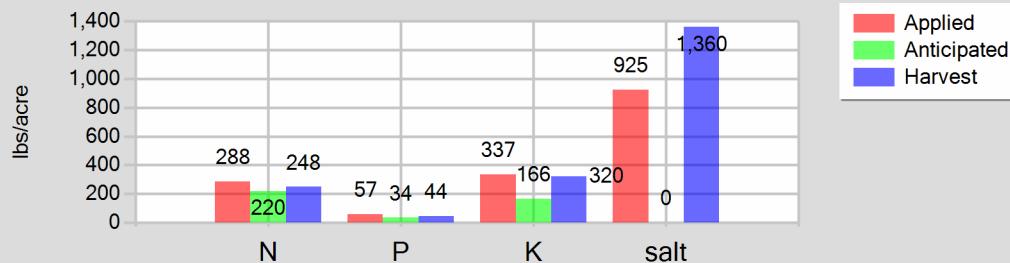
PT 117 - 11/24/2022: Wheat, silage, soft dough

Field name: PT 117

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.00	53.00	263.00	0.00
Process wastewater	59.49	4.33	73.60	377.63
Fresh water	20.21	0.00	0.00	547.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.70	57.33	336.60	924.74
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	248.00	44.00	320.00	1,360.04
Nutrient balance	39.70	13.33	16.60	-435.30
Applied to removed ratio	1.16	1.30	1.05	0.68

Fresh water applied

43,188,291.54 gallons
1,590.48 acre-inches
21.21 inches/acre

Process wastewater applied

1,248,009.33 gallons
45.96 acre-inches
0.61 inches/acre

Total harvests for the crop

1 harvests

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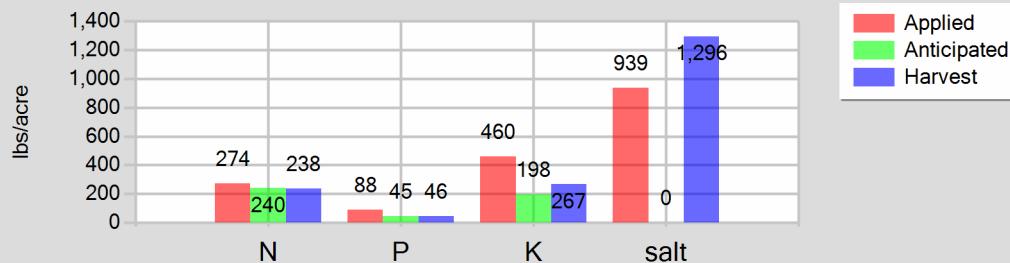
PT 117 - 07/01/2023: Corn, silage

Field name: PT 117

Crop: Corn, silage

Plant date: 07/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	177.00	75.00	360.00	0.00
Process wastewater	87.79	13.45	99.98	446.10
Fresh water	1.86	0.00	0.00	492.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	273.65	88.45	459.98	938.81
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	237.80	46.40	266.80	1,295.95
Nutrient balance	35.85	42.05	193.18	-357.14
Applied to removed ratio	1.15	1.91	1.72	0.72

Fresh water applied

83,551,454.91 gallons
3,076.92 acre-inches
41.03 inches/acre

Process wastewater applied

1,114,410.42 gallons
41.04 acre-inches
0.55 inches/acre

Total harvests for the crop

1 harvests

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

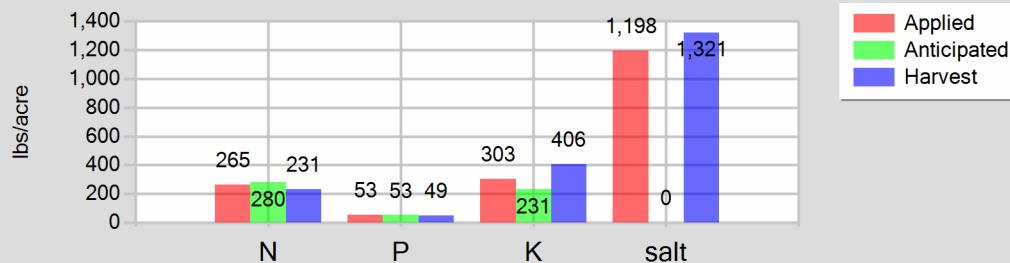
PT 118 - 05/18/2023: Corn, silage

Field name: PT 118

Crop: Corn, silage

Plant date: 05/18/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	127.94	21.11	145.18	631.47
Fresh water	2.14	0.00	0.00	566.09
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	264.68	52.91	302.98	1,197.57
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	231.00	49.00	406.00	1,321.32
Nutrient balance	33.68	3.91	-103.02	-123.75
Applied to removed ratio	1.15	1.08	0.75	0.91

Fresh water applied

49,917,114.69 gallons
1,838.28 acre-inches
47.14 inches/acre

Process wastewater applied

863,505.15 gallons
31.80 acre-inches
0.82 inches/acre

Total harvests for the crop

1 harvests

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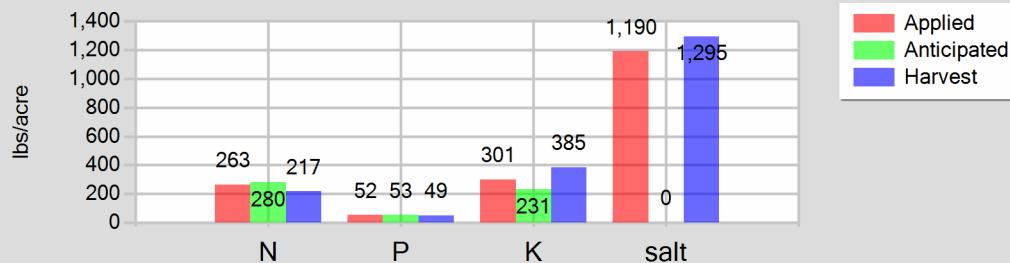
PT 119 - 05/19/2023: Corn, silage

Field name: PT 119

Crop: Corn, silage

Plant date: 05/19/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.60	31.80	157.80	0.00
Process wastewater	125.82	20.51	142.86	624.05
Fresh water	2.13	0.00	0.00	565.67
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	262.56	52.31	300.66	1,189.72
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	217.00	49.00	385.00	1,294.72
Nutrient balance	45.56	3.31	-84.34	-105.00
Applied to removed ratio	1.21	1.07	0.78	0.92

Fresh water applied

48,600,676.65 gallons
1,789.80 acre-inches
47.10 inches/acre

Process wastewater applied

824,403.03 gallons
30.36 acre-inches
0.80 inches/acre

Total harvests for the crop

1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES**

22I0382

Sample and source description: 22I0382

Sample date: 09/01/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 12.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,100.00	5,300.00	26,300.00							0.00
DL	100.00	100.00	30.00							0.01

23E0621

Sample and source description: 23E0621

Sample date: 05/04/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.9 %

	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	5,900.00	2,500.00	12,000.00							0.00
DL	100.00	100.00	30.00							0.01

23K0789

Sample and source description: 23K0789

Sample date: 11/14/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 32.2 %

	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	16,500.00	4,700.00	14,800.00							0.00
DL	100.00	100.00	30.00							0.01

B. PROCESS WASTEWATER ANALYSES

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22J1661

Sample and source description: 22J1661

Sample date: 10/26/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	38.50	30.90	0.00	38.10	8.24	109.00								1,880.00	760
DL	0.70	0.20	0.01	0.10	0.02	0.20								1.00	10

23B0588

Sample and source description: 23B0588

Sample date: 02/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	836.00	620.00	0.00	1.80	57.90	1,020.00								11,300.00	5,000
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23E0617

Sample and source description: 23E0617

Sample date: 05/04/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	638.00	426.00	0.00	1.00	134.00	715.00								7,840.00	2,800
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23I0554

Sample and source description: 23I0554

Sample date: 09/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	853.00	549.00	0.00	0.60	54.70	999.00								11,100.00	5,280
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

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23K0778

Sample and source description: 23K0778

Sample date: 11/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	730.00	610.00	0.00	0.20	37.00	1,060.00								10,900.00	5,250
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

C. FRESH WATER ANALYSES

Canal

22G1354

Sample description: 22G1354

Sample date: 07/18/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								80.00	46
DL		0.20	0.01								1.00	10

23E1020

Sample description: 23E1020

Sample date: 05/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.20								70.00	53
DL		0.20	0.01								1.00	10

Well #1

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Well #1**22B0907**Sample description: 22B0907Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	5.30								211.00	
DL		0.20	0.01								1.00	

23I0564Sample description: 23I0564Sample date: 09/07/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.40								123.00	
DL		0.20	0.01								1.00	

Well #10**22B0907**Sample description: 22B0907Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	20.90								578.00	
DL		0.20	0.01								1.00	

Well #13

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

Well #13**22B0907**Sample description: 22B0907Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	17.80								438.00	
DL		0.20	0.01								1.00	

Well #16**22B0904**Sample description: 22B0904Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	9.00								283.00	
DL		0.20	0.01								1.00	

Well #4**22B0907**Sample description: 22B0907Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	63.60								1,230.00	
DL		0.20	0.01								1.00	

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Well #4

23I0564

Sample description: 23I0564Sample date: 09/07/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	17.80								435.00	
DL		0.20	0.01								1.00	

Well #5

22B0907

Sample description: 22B0907Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	9.70								304.00	
DL		0.20	0.01								1.00	

Well #7

22C1214

Sample description: 22C1214Sample date: 03/24/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	9.00								294.00	
DL		0.20	0.01								1.00	

Well #8

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Well #8

22B0907

Sample description: 22B0907

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	9.80								352.00	
DL		0.20	0.01								1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

ARSL 101 - 04/13/2023: Corn, silage

23H2266

Sample and source description: 23H2266

Sample date: 08/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	800.00	5,600.00		5.70
DL	0.10	0.10	0.10		0.01

ARSL 102 - 11/12/2022: Wheat, silage, soft dough

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ARSL 102 - 11/12/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	900.00	7,300.00		11.90
DL	0.10	0.10	0.10		0.01

ARSL 102 - 06/28/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	700.00	4,900.00		6.50
DL	0.10	0.10	0.10		0.01

ARSL 103 - 11/14/2022: Wheat, silage, soft dough

23L0898

Sample and source description: 23L0898

Sample date: 12/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,200.00	7,800.00		11.00
DL	0.10	0.10	0.10		0.01

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ARSL 103 - 06/28/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	1,100.00	5,900.00		7.90
DL	0.10	0.10	0.10		0.01

ARSL 104 - 04/17/2023: Corn, silage

23H2266

Sample and source description: 23H2266

Sample date: 08/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	1,000.00	5,700.00		6.60
DL	0.10	0.10	0.10		0.01

ARSL 105 - 04/15/2023: Corn, silage

23H2266

Sample and source description: 23H2266

Sample date: 08/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	500.00	3,900.00		7.00
DL	0.10	0.10	0.10		0.01

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ARSL 106 - 11/27/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,900.00	1,000.00	8,100.00		11.70
DL	0.10	0.10	0.10		0.01

ARSL 106 - 06/29/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	1,000.00	6,700.00		7.40
DL	0.10	0.10	0.10		0.01

PT 109 - 11/02/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	900.00	7,800.00		11.70
DL	0.10	0.10	0.10		0.01

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PT 109 - 06/24/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	800.00	5,700.00		8.60
DL	0.10	0.10	0.10		0.01

PT 111 - 11/02/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	900.00	8,100.00		12.80
DL	0.10	0.10	0.10		0.01

PT 111 - 06/29/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	800.00	5,300.00		7.10
DL	0.10	0.10	0.10		0.01

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PT 112 - 11/14/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	900.00	7,900.00		11.50
DL	0.10	0.10	0.10		0.01

PT 112 - 06/29/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	500.00	6,100.00		8.20
DL	0.10	0.10	0.10		0.01

PT 113 - 11/14/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,000.00	7,400.00		11.60
DL	0.10	0.10	0.10		0.01

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PT 113 - 06/29/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	800.00	7,500.00		7.90
DL	0.10	0.10	0.10		0.01

PT 114 - 11/16/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	900.00	7,400.00		12.00
DL	0.10	0.10	0.10		0.01

PT 114 - 07/01/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	900.00	6,000.00		7.10
DL	0.10	0.10	0.10		0.01

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

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

PT 115 - 11/18/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,100.00	8,100.00		11.40
DL	0.10	0.10	0.10		0.01

PT 115 - 06/20/2023: Corn, silage

23I0843

Sample and source description: 23I0843

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	700.00	7,300.00		7.00
DL	0.10	0.10	0.10		0.01

PT 116E - 11/21/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	1,100.00	8,300.00		11.80
DL	0.10	0.10	0.10		0.01

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

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

PT 116E - 06/30/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	800.00	5,300.00		6.80
DL	0.10	0.10	0.10		0.01

PT 116W - 11/22/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,000.00	8,200.00		10.70
DL	0.10	0.10	0.10		0.01

PT 116W - 06/30/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 73.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	700.00	5,800.00		7.40
DL	0.10	0.10	0.10		0.01

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

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

PT 117 - 11/24/2022: Wheat, silage, soft dough

23E2233

Sample and source description: 23E2233

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,100.00	8,000.00		12.10
DL	0.10	0.10	0.10		0.01

PT 117 - 07/01/2023: Corn, silage

23J0205

Sample and source description: 23J0205

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	800.00	4,600.00		7.60
DL	0.10	0.10	0.10		0.01

PT 118 - 05/18/2023: Corn, silage

23I0843

Sample and source description: 23I0843

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,300.00	700.00	5,800.00		6.60
DL	0.10	0.10	0.10		0.01

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

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

PT 119 - 05/19/2023: Corn, silage

23I0843

Sample and source description: 23I0843

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,100.00	700.00	5,500.00		6.80
DL	0.10	0.10	0.10		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

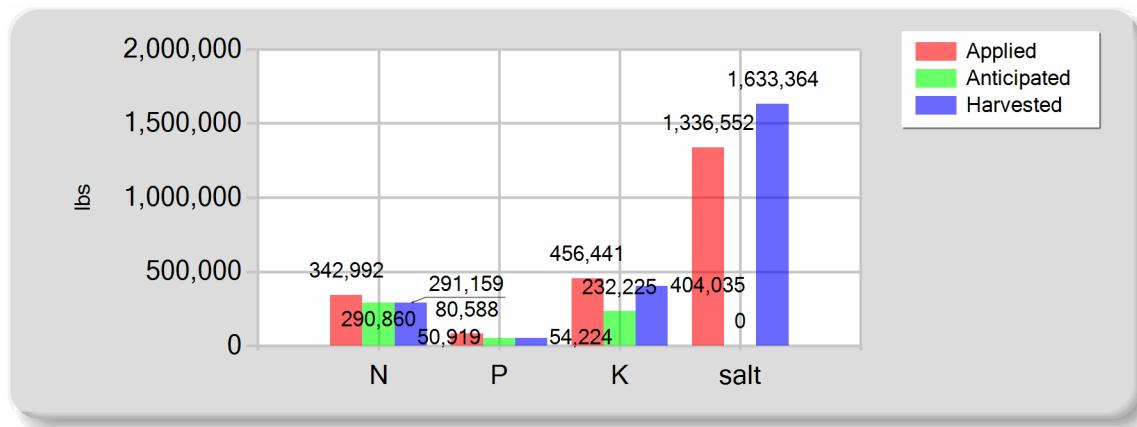
Reporting period 01/01/2023 to 12/31/2023.

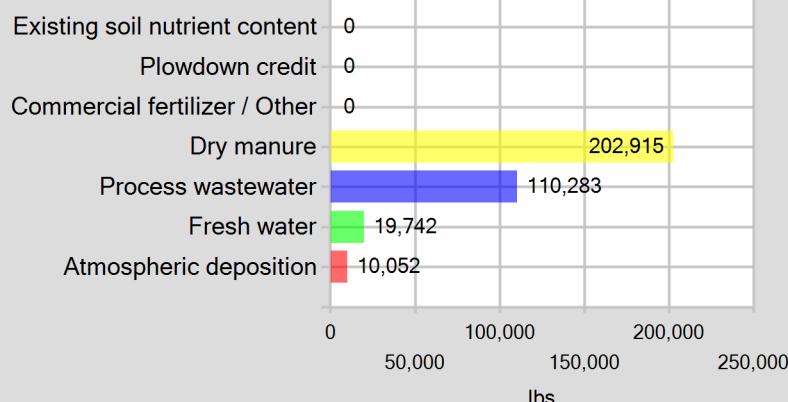
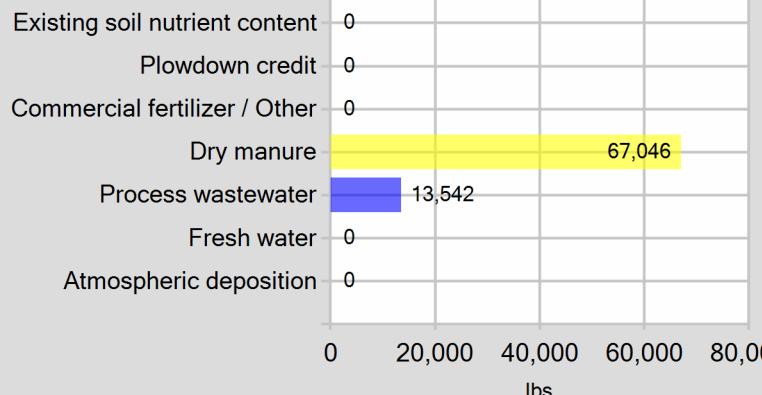
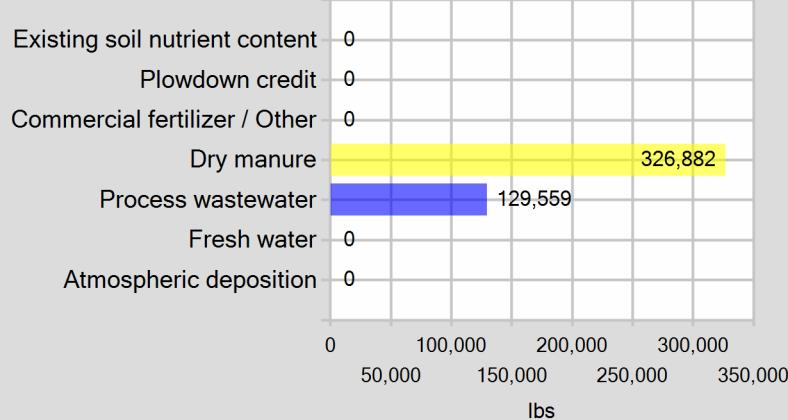
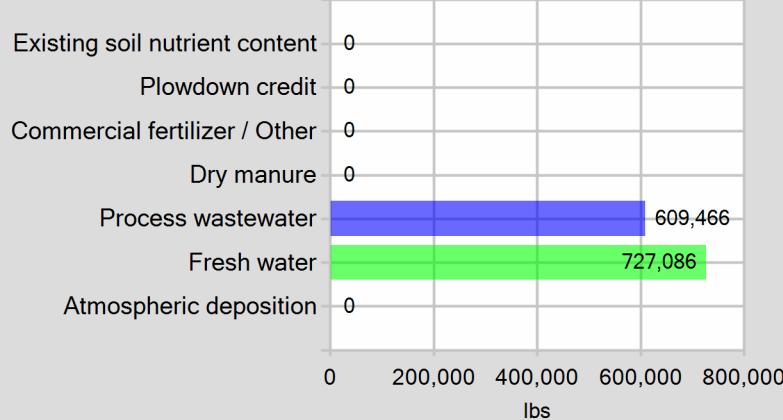
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	202,914.60	67,045.80	326,881.80	0.00
Process wastewater	110,283.02	13,541.72	129,559.13	609,465.70
Fresh water	19,742.19	0.00	0.00	727,086.07
Atmospheric deposition	10,052.00	0.00	0.00	0.00
Total nutrients applied	342,991.81	80,587.52	456,440.93	1,336,551.77
Anticipated crop nutrient removal	290,860.00	50,918.50	232,225.00	0.00
Actual crop nutrient removal	291,158.60	54,224.40	404,035.20	1,633,364.00
Nutrient balance	51,833.21	26,363.12	52,405.73	-296,812.24
Applied to removed ratio	1.18	1.49	1.13	0.82

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No _____

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

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

ADDITIONAL NOTES

A. NOTES

1. As stated in the Annual Report, and required by the General Order, the dairies onsite Nutrient Management Plan has been updated and completed by a certified agronomist. The dairy conducts its nutrient budgeting based on this certified plan, and only uses the Annual Report as a complimentary guide. Submission of the nutrient budget in this annual report is done solely to satisfy the requirements of the General Orders monitoring and reporting section.
 2. All graphs in the annual report display an amount of applied and removed salt. There are many ways inputs and exports of salt can accounted for. The Merced County website does not account for all of them. The graphs convey a partial / incomplete portrayal of salts (depending on how salts are defined, measured, and evaluated).
 3. The General Order requires the submission of all land applications in the "calendar year" of the reporting period. This has been submitted. However, land applications that occur post harvest of the Fall forage of the previous calendar year are intended for the use of the Spring forage of the following calendar year (reporting period) as crop cycles do not work on calendar year dates. When such land applications occur in the previous calendar year, previous years analytical data representing the applications have been inputted to represent nutrients intended for the reporting periods Spring crop. As such, any land application that occurs post harvest of the Fall forage in the reporting period that is intended for the Spring forage of the following calendar year will not be inputted until the following years Annual Report so that the Merced County reporting program software does not mistakenly apply these applications to the incorrect crops as there is no way to accurately differentiate and display this situation in the Annual Report software .
 4. All wastewater land applications were summarized by quarter using the corresponding wastewater quarterly sample to represent nutrient amounts applied. One application date per quarter per crop has been selected to represent all applications of wastewater for that crop during that quarter. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper quarterly sample has been selected to represent nutrients applied during that specific quarter. Day specific records are kept on site and available upon request.
- All fresh water land applications during the report period have been summarized into one application per source per crop. One application date has been selected to represent the reporting period for that crop. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper source sample has been selected to represent nutrients applied during the reporting period. Day specific records are kept on site and available upon request.
5. Due to high volumes of available canal water, most, if not all wells remained idle during the growing season. Therefore little to no well samples exist. They will be sampled again when operable.

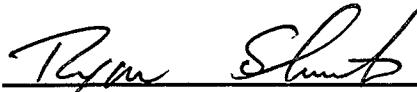
Annual Report - General Order No. R5-2007-0035

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

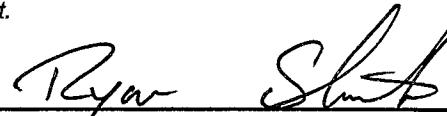
CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

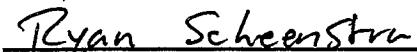
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate,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



SIGNATURE OF OWNER OF FACILITY



SIGNATURE OF OPERATOR OF FACILITY



PRINT OR TYPE NAME



PRINT OR TYPE NAME

12/2/23

DATE

12/2/23

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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



Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1020-01	Tulare Canal	Ag Water	Moises Barajas		05/10/2023 12:16

Default Cooler Temperature on Receipt °C: -0.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Sample Results

Sample: Tulare Canal
23E1020-01 (Water)

Sampled: 5/10/2023 12:16
Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.07	mmhos/cm	0.01	1		05/11/23 14:09	SM 2510 B		BEE0443
Electrical Conductivity umhos	70.0	umhos/cm	10.0	1		05/11/23 14:09	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	0.2	mg/L	0.1	1	10	05/11/23 17:09	EPA 300.0		BEE0425
pH	8.1	units	1.0	1		05/11/23 14:09	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	52.9	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	25.0	°C	0.0	1		05/11/23 14:09	SM 2510 B		BEE0443

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Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0425									
Blank (BEE0425-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
Blank (BEE0425-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/11/2023				
Blank (BEE0425-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 5/11/2023 Analyzed: 5/12/2023				
LCS (BEE0425-BS1)									
Nitrate Nitrogen as NO3N	5.4	0.1	mg/L	5.000	108	90-110			
LCS (BEE0425-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
Duplicate (BEE0425-DUP1)									
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L	0.6			1.74	10	
Duplicate (BEE0425-DUP2)									
Nitrate Nitrogen as NO3N	27.9	0.1	mg/L	27.9			0.222	10	
Matrix Spike (BEE0425-MS1)									
Nitrate Nitrogen as NO3N	5.7	0.1	mg/L	5.000	0.6	101	90-110		
Matrix Spike (BEE0425-MS2)									
Nitrate Nitrogen as NO3N	32.6	0.1	mg/L	5.000	27.9	92.5	90-110		
Reference (BEE0425-SRM1)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	100	90-110			
Reference (BEE0425-SRM2)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0443									
Blank (BEE0443-BLK1)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.5	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEE0443-BLK2)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEE0443-BLK3)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEE0443-DUP1)									
Source: 23E0842-01 Prepared & Analyzed: 5/11/2023									
pH	4.3	1.0	units		4.3		0.00	10	
Electrical Conductivity	1.70	0.01	mmhos/cm		1.70		0.0588	10	
Electrical Conductivity umhos	1700	10.0	umhos/cm		1700		0.0588	10	
Duplicate (BEE0443-DUP2)									
Source: 23E1024-01 Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	0.07	0.01	mmhos/cm		0.07		0.578	10	
pH	8.1	1.0	units		8.2		0.737	10	
Electrical Conductivity umhos	69.0	10.0	umhos/cm		69.4		0.578	10	
Reference (BEE0443-SRM2)									
Prepared & Analyzed: 5/11/2023									
pH	7.8		units		7.790	100	.7163-101.28		
Reference (BEE0443-SRM3)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	1060		umhos/cm		1000	106	90-110		
Electrical Conductivity umhos	1060		umhos/cm		1000	106	90-110		
Reference (BEE0443-SRM4)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	1060		umhos/cm		1000	106	90-110		
Electrical Conductivity umhos	1060		umhos/cm		1000	106	90-110		
Reference (BEE0443-SRM5)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	1070		umhos/cm		1000	107	90-110		
Electrical Conductivity umhos	1070		umhos/cm		1000	107	90-110		
Reference (BEE0443-SRM6)									
Prepared & Analyzed: 5/11/2023									

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Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0443 (Continued)									
Reference (BEE0443-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEE0443-SRM7)									
pH	4.0		units	4.000	99.8	97.5-102.5			
Reference (BEE0443-SRM8)									
pH	4.0		units	4.000	99.8	97.5-102.5			

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Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0466									
Blank (BEE0466-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023				
LCS (BEE0466-BS1)									
Total Filterable Solids (TDS)	21.2	10.0	mg/L	2000	Prepared: 5/11/2023 Analyzed: 6/2/2023	1.06	0-200		
Duplicate (BEE0466-DUP1)									
Total Filterable Solids (TDS)	1260	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	1240		1.60	5
Duplicate (BEE0466-DUP2)									
Total Filterable Solids (TDS)	4850	10.0	mg/L		Prepared: 5/11/2023 Analyzed: 6/2/2023	4750		2.08	5
Reference (BEE0466-SRM1)									
Total Filterable Solids (TDS)	310		mg/L	325.0	Prepared: 5/11/2023 Analyzed: 6/2/2023	95.4	90-110		

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05/11/23 08:59

23E1020

JG

WATER WORK REQUEST

Acct No. (or Login Not Billing)	20655	Cons	8
---------------------------------	-------	------	---

Purchase Order No. _____ Results Needed By _____

Client **Sola Consulting**
 Canal **Tulare Irrigation District**
 Requested by **Vince Sola**

Copy to	Email	Acct #
Vince Sola	solaconsulting@gmail.com	N/A
Curti Family Farms	curtifamilyoffice@gmail.com	15771
Curti Family Inc	curtifamilyoffice@gmail.com	13258
Curtimade	bencurtifarms@yahoo.com	15775
Mancebo #1	onepasstillage@yahoo.com	19286

Date sampled **5-10-23**

[X] QA/QC Document [X] Copy of Chain [] RWQCB

DESCRIPTION OF SAMPLES

1. **Tulare Canal** Sampled From: _____
2. _____ Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Maria Brant</i>	DLI	5-10-23 12:16PM	2020 5-10-23
Second				
Third				
Fourth	<i>Jasmine L</i>	DLI	5/11/23 8:59	

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

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

Invoicing Information:

Client	Acct #	Invoicing	Price List
Curti Family Farms	15771	\$18.00	Price List
Curti Family Inc	13258	\$18.00	Price List
Curtimade	15775	\$18.00	Ortly
Mancebo Holsteins #1	19286	\$18.00	Ortly
Mancebo Holsteins #2	19287	\$18.00	Ortly
Rio Blanco Dairy	13323	\$18.00	Ortly
S&S Dairy	15850	\$18.00	Ortly

Signature _____

Sample received in cooler with ice?

[] Yes [] No

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 6/30/2023
 Location: Laboratory

cit update 2020

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input checked="" type="checkbox"/> Hanford Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/> Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
Type of Container(s) Received	Sample Number 1 2 3 4 5 6 7 8 9 10									
	Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>									
Plastics 100 mL sterile plastic Na ₂ S ₂ O ₃ (Green) 250 mL unpreserved (White) Plastic 250 mL HNO ₃ (Red) Plastic * pH Value 250 mL H ₂ SO ₄ (Yellow) Plastic * pH Value 500 mL unpreserved (White) Plastic 1 L unpreserved (White) Plastic 1 L unpreserved (BOD) (Purple) Plastic										
Special 500mL unpreserved (White) Glass PO4-P Kit Other:										
										
05/11/23 08:59 23E1020										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics 100 mL sterile plastic Na ₂ S ₂ O ₃ (Green) 250 mL unpreserved (White) Plastic 250 mL HNO ₃ (Red) Plastic 250 mL H ₂ SO ₄ (Yellow) Plastic 500 mL HNO ₃ (Red) 1 L unpreserved (White) Plastic 1 L unpreserved (BOD) (Purple) Plastic 1 L HNO ₃ (Red)										
VOA Vials 40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531) 40 mL VOA, Na ₂ S ₂ O ₃ (EPA547) 40mL AG VOA unpreserved (White) (Set of 3) 40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3) 40mL VOA, H ₃ PO ₄ (Set of 3) 40 mL VOA, HCl (Blue) (Set of 3) 40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass 250 mL AG unpreserved (White) 250 mL AG H ₂ SO ₄ (Yellow) 250 mL AG Na ₂ S ₂ O ₃ (Green) 250 mL AG Na ₂ S ₂ O ₃ + MCAA 500 mL glass unpreserved (White) 500 mL AG HCl (Blue) 1 L AG unpreserved (White) 1 L AG H ₂ SO ₄ (Yellow) 1 L AG Na ₂ S ₂ O ₃ (Green) 1 L AG HCl (Blue)										
Special Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃ Cyanide - 500 mL NaOH Asbestos - 1L P wrapped in foil (Set of 2) Sulfide - 1 L AG or P NaOH + ZnAc Chlorite/Bromate - 250 mL AG with EDA HAA5 - 250mL AG Ammonium Chlorite DO KIT Other: Other:										



S & S Dairy
5311 Avenue 272
Visalia, CA 93277

Account# 00-0015850
Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0563-01	DW #13 (Faucet)	Well Water	Danny Singh		09/07/2023 13:00
23I0563-02	DW #14 (Faucet)	Well Water	Danny Singh		09/07/2023 13:10
23I0563-03	DW #15 (DW Tank)	Well Water	Danny Singh		09/07/2023 11:30

Default Cooler Temperature on Receipt °C: 0.2
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account# 00-0015850
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Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Sample Results

**Sample: DW #13 (Faucet)
23I0563-01 (Water)**

Sampled: 9/7/2023 13:00

Sampled By: Danny Singh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.47	mmhos/cm	0.01	1		09/08/23 13:33	SM 2510 B		BEI0231
Electrical Conductivity umhos	470	umhos/cm	10.0	1		09/08/23 13:33	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.500	1		09/11/23 08:44	SM 4500-NH3 H		BEI0224
Ammonia (as N)	0.250	mg/L	0.00	1		09/07/23 13:00	Field		BEI0211
Nitrate Nitrogen as NO3N	20.7	mg/L	0.1	1	10	09/09/23 06:18	EPA 300.0		BEI0223
pH	8.0	units	1.0	1		09/08/23 13:33	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:33	SM 2510 B		BEI0231

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Visalia, CA 93277

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Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

**Sample: DW #14 (Faucet)
23I0563-02 (Water)**

Sampled: 9/7/2023 13:10

Sampled By: Danny Singh

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.47	mmhos/cm	0.01	1		09/08/23 13:35	SM 2510 B		BEI0231
Electrical Conductivity umhos	465	umhos/cm	10.0	1		09/08/23 13:35	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.500	1		09/11/23 08:46	SM 4500-NH3 H		BEI0224
Ammonia (as N)	0.250	mg/L	0.00	1		09/07/23 13:10	Field		BEI0211
Nitrate Nitrogen as NO3N	13.0	mg/L	0.1	1	10	09/09/23 06:39	EPA 300.0		BEI0223
pH	7.2	units	1.0	1		09/08/23 13:35	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:35	SM 2510 B		BEI0231

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Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Sample Results

(Continued)

**Sample: DW #15 (DW Tank)
23I0563-03 (Water)**

Sampled: 9/7/2023 11:30

Sampled By: Danny Singh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.47	mmhos/cm	0.01	1		09/08/23 13:36	SM 2510 B		BEI0231
Electrical Conductivity umhos	473	umhos/cm	10.0	1		09/08/23 13:36	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.500	1		09/11/23 08:48	SM 4500-NH3 H		BEI0224
Ammonia (as N)	0.250	mg/L	0.00	1		09/07/23 11:30	Field		BEI0211
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	09/09/23 07:00	EPA 300.0		BEI0223
pH	7.5	units	1.0	1		09/08/23 13:36	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:36	SM 2510 B		BEI0231

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Visalia, CA 93277

Account# 00-0015850
Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0223									
Blank (BEI0223-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/8/2023				
Blank (BEI0223-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
Blank (BEI0223-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
Blank (BEI0223-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
LCS (BEI0223-BS1)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.4	90-110			
LCS (BEI0223-BS2)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.6	90-110			
LCS (BEI0223-BS3)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.5	90-110			
Duplicate (BEI0223-DUP1)									
Nitrate Nitrogen as NO3N	0.5	0.1	mg/L	0.4			1.11	10	
Duplicate (BEI0223-DUP2)									
Nitrate Nitrogen as NO3N	1.8	0.1	mg/L	1.8			0.0544	10	
Duplicate (BEI0223-DUP3)									
Nitrate Nitrogen as NO3N	0.4	0.1	mg/L	0.4			2.11	10	
Matrix Spike (BEI0223-MS1)									
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	0.4	96.4	90-110		
Matrix Spike (BEI0223-MS2)									
Nitrate Nitrogen as NO3N	6.7	0.1	mg/L	5.000	1.8	97.6	90-110		
Matrix Spike (BEI0223-MS3)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.4	95.4	90-110		
Reference (BEI0223-SRM1)									
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00	96.4	90-110			
Reference (BEI0223-SRM2)									
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00	96.1	90-110			

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Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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Batch: BEI0223 (Continued)

Reference (BEI0223-SRM3)

Nitrate Nitrogen as NO ₃ N	9.6	mg/L	10.00	96.3	90-110
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Reference (BEI0223-SRM4)

Nitrate Nitrogen as NO ₃ N	9.5	mg/L	10.00	95.5	90-110
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Reported: 09/12/2023 11:39

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0224									
Blank (BEI0224-BLK1)									
Ammonia (as N)	ND	0.500	mg/L		Prepared: 9/8/2023 Analyzed: 9/11/2023				
Blank (BEI0224-BLK2)									
Ammonia (as N)	ND	0.500	mg/L		Prepared: 9/8/2023 Analyzed: 9/11/2023				
LCS (BEI0224-BS1)									
Ammonia (as N)	10.6	0.500	mg/L	9.990		106	90-110		
LCS (BEI0224-BS2)									
Ammonia (as N)	10.5	0.500	mg/L	9.990		105	90-110		
Duplicate (BEI0224-DUP1)									
Ammonia (as N)	12.6	0.500	mg/L	12.6				0.107	10
Duplicate (BEI0224-DUP2)									
Ammonia (as N)	ND	0.500	mg/L	ND					10
Matrix Spike (BEI0224-MS1)									
Ammonia (as N)	22.7	0.500	mg/L	9.990	12.6	101	90-110		
Matrix Spike (BEI0224-MS2)									
Ammonia (as N)	10.6	0.500	mg/L	9.990	ND	107	90-110		
Reference (BEI0224-SRM1)									
Ammonia (as N)	5.49		mg/L	5.470		100	90-110		

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Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0231									
Blank (BEI0231-BLK1)									
Prepared & Analyzed: 9/8/2023									
pH	5.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0231-BLK2)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0231-BLK3)									
Prepared & Analyzed: 9/8/2023									
pH	6.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEI0231-DUP1)									
Source: 23I0566-01									
Prepared & Analyzed: 9/8/2023									
pH	8.4	1.0	units		8.4		0.119	10	
Electrical Conductivity	0.30	0.01	mmhos/cm		0.30		0.732	10	
Electrical Conductivity umhos	300	10.0	umhos/cm		302		0.732	10	
Duplicate (BEI0231-DUP2)									
Source: 23I0569-01									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	0.48	0.01	mmhos/cm		0.48		0.188	10	
pH	7.8	1.0	units		7.8		0.255	10	
Electrical Conductivity umhos	479	10.0	umhos/cm		480		0.188	10	
Reference (BEI0231-SRM1)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	517		umhos/cm		538.0	96.2	90-110		
Reference (BEI0231-SRM2)									
Prepared & Analyzed: 9/8/2023									
pH	5.8		units		5.820	99.8	28178-101.7		
Reference (BEI0231-SRM3)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	965		umhos/cm		1000	96.5	90-110		
Electrical Conductivity umhos	965		umhos/cm		1000	96.5	90-110		
Reference (BEI0231-SRM4)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	961		umhos/cm		1000	96.1	90-110		
Electrical Conductivity umhos	961		umhos/cm		1000	96.1	90-110		
Reference (BEI0231-SRM5)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity	965		umhos/cm		1000	96.5	90-110		

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Account# 00-0015850
Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:39

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)									
Reference (BEI0231-SRM5)									
Electrical Conductivity umhos	965		umhos/cm	1000	96.5	90-110			
Reference (BEI0231-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0231-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0231-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com

SAROLES

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																															
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																										
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																										
Samples Preserved with HNO ₃ or H ₂ SO ₄ were:					<input type="checkbox"/> Received Preserved <input checked="" type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																										
Type of Container(s) Received		Sample Number																																																																																																																																																																																													
		1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																				
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)																																																																																																																																																																																															
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)																																																																																																																																																																																														
	250 mL unpreserved (White) Plastic																																																																																																																																																																																														
	250 mL HNO ₃ (Red) Plastic																																																																																																																																																																																														
	* pH Value																																																																																																																																																																																														
	250 mL H ₂ SO ₄ (Yellow) Plastic	1	1	1																																																																																																																																																																																											
	* pH Value	2	2	2																																																																																																																																																																																											
	500 mL unpreserved (White) Plastic	1	1	1																																																																																																																																																																																											
1 L unpreserved (White) Plastic																																																																																																																																																																																															
1 L unpreserved (BOD) (Purple) Plastic																																																																																																																																																																																															
Special	500mL unpreserved (White) Glass																																																																																																																																																																																														
	PO4-P Kit																																																																																																																																																																																														
	Other:																																																																																																																																																																																														
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Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H ₂ SO ₄ (Yellow)										250 mL AG Na ₂ S ₂ O ₃ (Green)										250 mL AG Na ₂ S ₂ O ₃ + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										Special	1 L AG unpreserved (White)										1 L AG H ₂ SO ₄ (Yellow)										1 L AG Na ₂ S ₂ O ₃ (Green)										1 L AG HCl (Blue)										Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										Cyanide - 500 mL NaOH										Asbestos - 1L P wrapped in foil (Set of 2)										Sulfide - 1 L AG or P NaOH + ZnAc										Chlorite/Bromate - 250 mL AG with EDA										HAA5 - 250mL AG Ammonium Chlorite										DO KIT										Other:									
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2810563

09/08/23 07:15



S & S Dairy
5311 Avenue 272
Visalia, CA 93277

Account# 00-0015850
Account Manager: Ben Nydam
Submitted By: Gary
Ranch: 5311 Ave 272 Visalia

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:43

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0564-01	Well #1 (Standpipe)	Ag Water	Danny Singh		09/07/2023 12:25
23I0564-02	Well #4 (Standpipe)	Ag Water	Danny Singh		09/07/2023 11:45

Default Cooler Temperature on Receipt °C: 0.1
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: Well #1 (Standpipe)
23I0564-01 (Water)

Sampled: 9/7/2023 12:25
Sampled By: Danny Singh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.12	mmhos/cm	0.01	1		09/08/23 13:37	SM 2510 B		BEI0231
Electrical Conductivity umhos	123	umhos/cm	10.0	1		09/08/23 13:37	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.500	1		09/11/23 08:49	SM 4500-NH3 H		BEI0224
Ammonia (as N)	0.250	mg/L	0.00	1		09/07/23 12:25	Field		BEI0212
Nitrate Nitrogen as NO3N	0.4	mg/L	0.1	1	10	09/09/23 03:30	EPA 300.0		BEI0223
pH	8.7	units	1.0	1		09/08/23 13:37	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:37	SM 2510 B		BEI0231

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Sample Results

(Continued)

**Sample: Well #4 (Standpipe)
23I0564-02 (Water)**

Sampled: 9/7/2023 11:45

Sampled By: Danny Singh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.43	mmhos/cm	0.01	1		09/08/23 13:38	SM 2510 B		BEI0231
Electrical Conductivity umhos	435	umhos/cm	10.0	1		09/08/23 13:38	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.500	1		09/11/23 08:51	SM 4500-NH3 H		BEI0224
Ammonia (as N)	0.250	mg/L	0.00	1		09/07/23 11:45	Field		BEI0212
Nitrate Nitrogen as NO3N	17.8	mg/L	0.1	1	10	09/09/23 07:20	EPA 300.0		BEI0223
pH	7.9	units	1.0	1		09/08/23 13:38	SM 4500-H+	H	BEI0231
Temperature	25.0	°C	0.0	1		09/08/23 13:38	SM 2510 B		BEI0231

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Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0223									
Blank (BEI0223-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/8/2023				
Blank (BEI0223-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
Blank (BEI0223-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
Blank (BEI0223-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/9/2023				
LCS (BEI0223-BS1)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.4	90-110			
LCS (BEI0223-BS2)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.6	90-110			
LCS (BEI0223-BS3)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	95.5	90-110			
Duplicate (BEI0223-DUP1)									
Nitrate Nitrogen as NO3N	0.5	0.1	mg/L	0.4			1.11	10	
Duplicate (BEI0223-DUP2)									
Nitrate Nitrogen as NO3N	1.8	0.1	mg/L	1.8			0.0544	10	
Duplicate (BEI0223-DUP3)									
Nitrate Nitrogen as NO3N	0.4	0.1	mg/L	0.4			2.11	10	
Matrix Spike (BEI0223-MS1)									
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	0.4	96.4	90-110		
Matrix Spike (BEI0223-MS2)									
Nitrate Nitrogen as NO3N	6.7	0.1	mg/L	5.000	1.8	97.6	90-110		
Matrix Spike (BEI0223-MS3)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.4	95.4	90-110		
Reference (BEI0223-SRM1)									
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00	96.4	90-110			
Reference (BEI0223-SRM2)									
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00	96.1	90-110			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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Batch: BEI0223 (Continued)

Reference (BEI0223-SRM3)

Nitrate Nitrogen as NO ₃ N	9.6	mg/L	10.00	96.3	90-110
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Reference (BEI0223-SRM4)

Nitrate Nitrogen as NO ₃ N	9.5	mg/L	10.00	95.5	90-110
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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0224									
Blank (BEI0224-BLK1)									
Ammonia (as N)	ND	0.500	mg/L		Prepared: 9/8/2023 Analyzed: 9/11/2023				
Blank (BEI0224-BLK2)									
Ammonia (as N)	ND	0.500	mg/L		Prepared: 9/8/2023 Analyzed: 9/11/2023				
LCS (BEI0224-BS1)									
Ammonia (as N)	10.6	0.500	mg/L	9.990		106	90-110		
LCS (BEI0224-BS2)									
Ammonia (as N)	10.5	0.500	mg/L	9.990		105	90-110		
Duplicate (BEI0224-DUP1)									
Ammonia (as N)	12.6	0.500	mg/L	12.6				0.107	10
Duplicate (BEI0224-DUP2)									
Ammonia (as N)	ND	0.500	mg/L	ND					10
Matrix Spike (BEI0224-MS1)									
Ammonia (as N)	22.7	0.500	mg/L	9.990	12.6	101	90-110		
Matrix Spike (BEI0224-MS2)									
Ammonia (as N)	10.6	0.500	mg/L	9.990	ND	107	90-110		
Reference (BEI0224-SRM1)									
Ammonia (as N)	5.49		mg/L	5.470		100	90-110		

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0231									
Blank (BEI0231-BLK1)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 5.6 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
Blank (BEI0231-BLK2)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 7.0 1.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
Blank (BEI0231-BLK3)									
Prepared & Analyzed: 9/8/2023									
pH 6.6 1.0 units									
Electrical Conductivity ND 0.01 mmhos/cm									
Electrical Conductivity umhos ND 10.0 umhos/cm									
Temperature 25.0 0.0 °C									
Duplicate (BEI0231-DUP1)									
Source: 23I0566-01 Prepared & Analyzed: 9/8/2023									
pH 8.4 1.0 units 8.4 0.119 10									
Electrical Conductivity 0.30 0.01 mmhos/cm 0.30 0.732 10									
Electrical Conductivity umhos 300 10.0 umhos/cm 302 0.732 10									
Duplicate (BEI0231-DUP2)									
Source: 23I0569-01 Prepared & Analyzed: 9/8/2023									
Electrical Conductivity 0.48 0.01 mmhos/cm 0.48 0.188 10									
pH 7.8 1.0 units 7.8 0.255 10									
Electrical Conductivity umhos 479 10.0 umhos/cm 480 0.188 10									
Reference (BEI0231-SRM1)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity 517 umhos/cm 538.0 96.2 90-110									
Reference (BEI0231-SRM2)									
Prepared & Analyzed: 9/8/2023									
pH 5.8 units 5.820 99.8 28178-101.7									
Reference (BEI0231-SRM3)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity 965 umhos/cm 1000 96.5 90-110									
Electrical Conductivity umhos 965 umhos/cm 1000 96.5 90-110									
Reference (BEI0231-SRM4)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity 961 umhos/cm 1000 96.1 90-110									
Electrical Conductivity umhos 961 umhos/cm 1000 96.1 90-110									
Reference (BEI0231-SRM5)									
Prepared & Analyzed: 9/8/2023									
Electrical Conductivity 965 umhos/cm 1000 96.5 90-110									

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)									
Reference (BEI0231-SRM5)									
Electrical Conductivity umhos	965		umhos/cm	1000	96.5	90-110			
Reference (BEI0231-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0231-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0231-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com



09/08/23 07:15

2310564

Pesticides

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other _____																																																																																																																																																																																															
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest																																																																																																																																																																																										
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VOA Vials	1 L HNO ₃ (Red)																																																																																																																																																																																														
	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)																																																																																																																																																																																														
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)																																																																																																																																																																																														
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																														
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)																																																																																																																																																																																														
	40mL VOA, H ₃ PO ₄ (Set of 3)																																																																																																																																																																																														
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																														
Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H ₂ SO ₄ (Yellow)										250 mL AG Na ₂ S ₂ O ₃ (Green)										250 mL AG Na ₂ S ₂ O ₃ + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										Special	1 L AG unpreserved (White)										1 L AG H ₂ SO ₄ (Yellow)										1 L AG Na ₂ S ₂ O ₃ (Green)										1 L AG HCl (Blue)										Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										Cyanide - 500 mL NaOH										Asbestos - 1L P wrapped in foil (Set of 2)										Sulfide - 1 L AG or P NaOH + ZnAc										Chlorite/Bromate - 250 mL AG with EDA										HAA5 - 250mL AG Ammonium Chlorite										DO KIT										Other:									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)																																																																																																																																																																																														
	250 mL AG unpreserved (White)																																																																																																																																																																																														
	250 mL AG H ₂ SO ₄ (Yellow)																																																																																																																																																																																														
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500 mL AG HCl (Blue)																																																																																																																																																																																															
Special	1 L AG unpreserved (White)										1 L AG H ₂ SO ₄ (Yellow)										1 L AG Na ₂ S ₂ O ₃ (Green)										1 L AG HCl (Blue)										Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										Cyanide - 500 mL NaOH										Asbestos - 1L P wrapped in foil (Set of 2)										Sulfide - 1 L AG or P NaOH + ZnAc										Chlorite/Bromate - 250 mL AG with EDA										HAA5 - 250mL AG Ammonium Chlorite										DO KIT										Other:																																																																																
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