

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: Scheenstra Dairy

Physical address of dairy:

16800 Rd 96 Number and Street	Tipton City	Tulare County	93272 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01/14/1998

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0228-0090-0005-0000	0228-0160-0003-0000
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B. OPERATORS

Scheenstra, John

Operator name: <u>Scheenstra, John</u>	Telephone no.: <u>(559) 684-9983</u>
	Landline Cellular
P.O. Box 1077 Mailing Address Number and Street	Tipton City CA 93272 State Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Scheenstra, John

Legal owner name: <u>Scheenstra, John</u>	Telephone no.: <u>(559) 684-9983</u>
	Landline Cellular
P.O. Box 1077 Mailing Address Number and Street	Tipton City CA 93272 State Zip Code

This owner is responsible for paying permit fees.

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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	500	650	500	0	0	0
Number under roof	3,300	0	0	0	0	0
Maximum number	3,800	650	500	0	0	0
Average number	3,800	650	500	0	0	0
Avg live weight (lbs)	1,450	1,550	1,100	0		

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 112,624.55 tons per reporting period

Total nitrogen from manure: 1,440,519.38 lbs per reporting period

After ammonia losses (30% loss applied): 1,008,363.57 lbs per reporting period

Total phosphorus from manure: 239,444.27 lbs per reporting period

Total potassium from manure: 727,735.06 lbs per reporting period

Total salt from manure: 1,938,697.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 66,461,639 gallons

Total nitrogen generated: 218,669.82 lbs

Total phosphorus generated: 36,636.80 lbs

Total potassium generated: 272,225.80 lbs

Total salt generated: 1,280,464.34 lbs

33,461,639 gallons applied
+ 33,000,000 gallons exported
- 0 gallons imported
= 66,461,639 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
N Dairy	Ground water
S Homes	Ground water
Scale	Ground water
W Dairy	Ground water

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Source Description	Type
Well #10	Ground water
Well #4	Ground water
Well #6	Ground water
Well #9	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

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	Corral solids	23,056.00 ton	As-is	48.7		6,800.00	2,600.00	6,300.00		0.00

Date	Material type	Quantity	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Ammonia-N (mg/L)	Nitrate-N (mg/L)	P (mg/L)	K (mg/L)	EC (µmhos/cm)	TDS (mg/L)
12/31/2023	Process wastewater	10,000,000.00 gal	458.00	440.00	0.00	0.60	71.00	569.00		3,030
12/31/2023	Process wastewater	10,000,000.00 gal	458.00	440.00	0.00	0.60	71.00	569.00		3,030
12/31/2023	Process wastewater	10,000,000.00 gal	458.00	440.00	0.00	0.60	71.00	569.00		3,030
12/31/2023	Process wastewater	3,000,000.00 gal	458.00	440.00	0.00	0.60	71.00	569.00		3,030

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	313,561.60	119,891.20	290,505.60	0.00
Process wastewater	126,291.56	19,552.34	156,694.07	834,416.55
Total exports for all materials	439,853.16	139,443.54	447,199.67	834,416.55

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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
1	84	84	2	both	X228-X090-X010-XXXX X228-X220-X004-XXXX X228-X220-X005-XXXX
11	3	3	2	both	X228-X160-X031-XXXX
12	62	62	2	both	X228-X090-X005-XXXX
13	4	4	2	both	X228-X090-X005-XXXX
2	32	32	2	both	X228-X160-X031-XXXX
3	36	36	2	both	X228-X160-X031-XXXX
4	29	29	2	both	X228-X160-X031-XXXX
5	36	36	2	both	X228-X160-X031-XXXX
6	25	25	2	both	X228-X090-X005-XXXX
7	22	22	2	both	X228-X160-X032-XXXX
8	71	71	2	both	X228-X160-X002-XXXX X228-X160-X032-XXXX
9	73	73	2	both	X228-X160-X002-XXXX X228-X160-X032-XXXX
Totals for areas that were used for application	477	477	24		
Totals for areas that were not used for application					
Land application area totals	477	477	24		

B. CROPS AND HARVESTS

1

Field name: 1

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1

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 84 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,680.00 <i>ton</i>	As-is		60.8	6,200.00	900.00	6,200.00		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	248.00	36.00	248.00	1,724.80

07/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 84 Plant date: 07/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	2,520.00 <i>ton</i>	As-is		64.4	3,900.00	800.00	4,300.00		6.30

	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	234.00	48.00	258.00	1,345.68

11

Field name: 11

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

Crop: Wheat, silage, soft dough Acres planted: 3 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 (%)
05/26/2023	57.00 <i>ton</i>	As-is		63.7	6,800.00	1,100.00	7,000.00		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	19.00	258.40	41.80	266.00	1,586.31

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11

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 3 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 (%)
10/16/2023	78.00 ton	As-is		64.5	4,500.00	800.00	4,400.00		5.70

	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	26.00	234.00	41.60	228.80	1,052.22

12

Field name: 12

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

Crop: Wheat, silage, soft dough Acres planted: _____ 62 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 (%)
05/26/2023	1,240.00 ton	As-is		65.5	5,800.00	900.00	6,400.00		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	20.00	232.00	36.00	256.00	1,656.00

07/06/2023: Corn, silage

Crop: Corn, silage Acres planted: _____ 62 Plant date: 07/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,860.00 ton	As-is		65.5	4,200.00	800.00	4,100.00		5.70

	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	48.00	246.00	1,179.90

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Field name: 13

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

Crop: Wheat, silage, soft dough Acres planted: 4 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 (%)
05/26/2023	76.00 ton	As-is		65.5	5,800.00	900.00	6,400.00		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	19.00	220.40	34.20	243.20	1,573.20

07/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 4 Plant date: 07/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	120.00 ton	As-is		65.5	4,200.00	800.00	4,100.00		5.70

	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	48.00	246.00	1,179.90

2

Field name: 2

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

Crop: Wheat, silage, soft dough Acres planted: 32 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 (%)
05/26/2023	608.00 ton	As-is		63.7	6,800.00	1,100.00	7,000.00		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	19.00	258.40	41.80	266.00	1,586.31

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2

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 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 (%)
10/16/2023	928.00 ton	As-is		64.5	4,500.00	800.00	4,400.00		5.70

	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	261.00	46.40	255.20	1,173.63

3

Field name: 3

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

Crop: Wheat, silage, soft dough Acres planted: 36 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 (%)
05/25/2023	684.00 ton	As-is		66.4	6,400.00	1,000.00	6,500.00		9.50

	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	19.00	243.20	38.00	247.00	1,212.96

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 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 (%)
10/09/2023	1,080.00 ton	As-is		67.9	4,300.00	800.00	5,600.00		6.20

	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	30.00	258.00	48.00	336.00	1,194.12

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4

Field name: 4

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

Crop: Wheat, silage, soft dough Acres planted: 29 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 (%)
05/25/2023	580.00 ton	As-is		61.0	6,100.00	1,000.00	6,500.00		10.10

	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	244.00	40.00	260.00	1,575.60

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 29 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	841.00 ton	As-is		69.3	4,200.00	1,000.00	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	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.00	243.60	58.00	336.40	1,175.20

5

Field name: 5

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

Crop: Wheat, silage, soft dough Acres planted: 36 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 (%)
05/25/2023	720.00 ton	As-is		65.0	6,500.00	1,000.00	6,400.00		10.90

	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	20.00	260.00	40.00	256.00	1,526.00

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5

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 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 (%)
10/16/2023	1,008.00 ton	As-is		60.0	5,000.00	900.00	4,800.00		5.80

	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	28.00	280.00	50.40	268.80	1,299.20

6

Field name: 6

11/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 25 Plant date: 11/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	550.00 ton	As-is		64.1	4,900.00	800.00	5,500.00		10.80

	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	22.00	215.60	35.20	242.00	1,705.97

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 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 (%)
10/10/2023	750.00 ton	As-is		62.5	4,600.00	900.00	5,900.00		10.90

	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	276.00	54.00	354.00	2,452.50

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Field name: 7

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

Crop: Wheat, silage, soft dough Acres planted: 22 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 (%)
05/20/2023	506.00 ton	As-is		58.5	4,500.00	1,000.00	5,800.00		10.00

	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	23.00	207.00	46.00	266.80	1,909.00

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 (%)
10/10/2023	682.00 ton	As-is		67.7	3,600.00	600.00	6,300.00		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	31.00	223.20	37.20	390.60	1,301.69

8

Field name: 8

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

Crop: Wheat, silage, soft dough Acres planted: 71 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 (%)
05/24/2023	1,207.00 ton	As-is		54.3	7,750.00	1,250.00	13,400.00		16.30

	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	17.00	263.50	42.50	455.60	2,532.69

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8

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 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 (%)
10/10/2023	2,059.00 ton	As-is		64.5	4,800.00	900.00	7,300.00		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	29.00	278.40	52.20	423.40	1,461.89

9

Field name: 9

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

Crop: Wheat, silage, soft dough Acres planted: 73 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 (%)
05/24/2023	1,387.00 ton	As-is		65.2	6,800.00	1,000.00	5,700.00		10.60

	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	258.40	38.00	216.60	1,401.74

07/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 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 (%)
10/10/2023	2,190.00 ton	As-is		67.4	4,200.00	700.00	6,400.00		5.50

	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	252.00	42.00	384.00	1,075.80

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

1 - 11/19/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/08/2022	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	206.00	44.00	123.00	0.00	420.00 ton
Application event totals		206.00	44.00	123.00	0.00	
11/20/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	57.46	11.04	77.70	352.96	1,153,512.54 gal
Well #4	Ground water	0.67	0.00	0.00	233.88	14,976,111.96 gal
S Homes	Ground water	16.14	0.00	0.00	341.00	5,761,045.68 gal
Application event totals		74.27	11.04	77.70	927.83	
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	0.53	0.04	0.43	14.90	1,153,512.54 gal
Canal	Surface water	1.55	0.00	0.00	206.01	25,921,447.05 gal
Application event totals		2.07	0.04	0.43	220.91	

1 - 07/07/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 07/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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1 - 07/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/28/2023	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	136.00	52.00	126.00	0.00	840.00 ton
Application event totals		136.00	52.00	126.00	0.00	
06/14/2023	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	89.86	17.75	109.44	247.87	1,919,262.39 gal
Canal	Surface water	5.46	0.00	0.00	727.92	91,590,199.08 gal
Application event totals		95.32	17.75	109.44	975.79	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	49.53	7.04	56.22	340.10	2,013,759.18 gal
Application event totals		49.53	7.04	56.22	340.10	

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

Field name: 11

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	
10/08/2022	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	247.20	52.80	147.60	0.00	18.00 ton
Application event totals		247.20	52.80	147.60	0.00	

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11 - 11/18/2022: 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	31.81	6.11	43.02	195.42	22,809.57 gal
W Dairy	Ground water	8.27	0.00	0.00	364.16	391,021.20 gal
Scale	Ground water	0.23	0.00	0.00	125.64	270,456.33 gal
Application event totals		40.31	6.11	43.02	685.22	
03/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	0.62	0.04	0.51	17.67	48,877.65 gal
Canal	Surface water	1.76	0.00	0.00	234.94	1,055,757.24 gal
Application event totals		2.39	0.04	0.51	252.62	

11 - 06/30/2023: Corn, silage

Field name:	11						
Crop:	Corn, silage						
Plant date:	06/30/2023						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	204.00	78.00	189.00	0.00	45.00 ton	
Application event totals		204.00	78.00	189.00	0.00		
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Process Wastewater	Process wastewater	64.08	12.66	78.04	176.75	48,877.65 gal	
Canal	Surface water	5.68	0.00	0.00	757.76	3,405,142.95 gal	
Application event totals		69.76	12.66	78.04	934.51		

12 - 11/16/2022: Wheat, silage, soft dough

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12 - 11/16/2022: Wheat, silage, soft dough

Field name: 12

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	
10/10/2022	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	206.00	44.00	123.00	0.00	310.00 ton
Application event totals		206.00	44.00	123.00	0.00	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	58.28	11.19	78.80	357.97	863,505.15 gal
W Dairy	Ground water	9.10	0.00	0.00	400.72	8,892,473.79 gal
Scale	Ground water	0.25	0.00	0.00	138.36	6,155,325.39 gal
Application event totals		67.62	11.19	78.80	897.05	
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	0.44	0.03	0.36	12.60	720,130.71 gal
Canal	Surface water	1.59	0.00	0.00	211.89	19,678,141.89 gal
Application event totals		2.03	0.03	0.36	224.49	

12 - 07/06/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 07/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	68.00	26.00	63.00	0.00	310.00 ton
Application event totals		68.00	26.00	63.00	0.00	

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12 - 07/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	106.66	21.07	129.90	294.20	1,681,391.16 gal
Canal	Surface water	1.30	0.00	0.00	173.68	16,129,624.50 gal
Application event totals		107.96	21.07	129.90	467.88	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Scale	Ground water	114.22	0.00	0.00	2,864.60	52,706,399.25 gal
Application event totals		114.22	0.00	0.00	2,864.60	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	25.63	3.64	29.09	175.96	769,008.36 gal
Application event totals		25.63	3.64	29.09	175.96	

13 - 11/16/2022: Wheat, silage, soft dough

Field name: 13

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	
10/10/2022	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	206.00	44.00	123.00	0.00	20.00 ton
Application event totals		206.00	44.00	123.00	0.00	

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13 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	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	23.86	4.58	32.26	146.57	22,809.57 gal
W Dairy	Ground water	7.44	0.00	0.00	327.74	469,225.44 gal
Scale	Ground water	0.20	0.00	0.00	112.39	322,592.49 gal
Application event totals		31.50	4.58	32.26	586.70	
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	0.47	0.03	0.38	13.26	48,877.65 gal
Canal	Surface water	1.80	0.00	0.00	240.38	1,440,261.42 gal
Application event totals		2.27	0.03	0.38	253.64	

13 - 07/06/2023: Corn, silage

Field name:	13					
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/27/2023	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	163.20	62.40	151.20	0.00	48.00 ton
Application event totals		163.20	62.40	151.20	0.00	
06/21/2023	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	92.91	18.35	113.16	256.29	94,496.79 gal
Canal	Surface water	6.13	0.00	0.00	817.94	4,900,799.04 gal
Application event totals		99.05	18.35	113.16	1,074.23	

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13 - 07/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	11.78	1.68	13.37	80.90
Application event totals		11.78	1.68	13.37	80.90

2 - 11/18/2022: Wheat, silage, soft dough

Field name: 2

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
10/08/2022	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	164.80	35.20	98.40	0.00
Application event totals		164.80	35.20	98.40	0.00
11/22/2022	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	100.55	19.31	135.97	617.67
W Dairy	Ground water	14.84	0.00	0.00	653.78
Application event totals		115.39	19.31	135.97	1,271.45
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	0.46	0.03	0.38	13.04
Canal	Surface water	1.62	0.00	0.00	216.31
Application event totals		2.08	0.03	0.38	229.35

2 - 06/30/2023: Corn, silage

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2 - 06/30/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	190.40	72.80	176.40	0.00	448.00 ton
Application event totals		190.40	72.80	176.40	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	94.52	18.67	115.11	260.71	769,008.36 gal
Canal	Surface water	6.01	0.00	0.00	801.29	38,408,057.37 gal
Application event totals		100.53	18.67	115.11	1,061.99	
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	18.52	2.63	21.01	127.12	286,748.88 gal
Application event totals		18.52	2.63	21.01	127.12	

3 - 11/21/2022: Wheat, silage, soft dough

Field name: 3

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	
10/08/2022	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	164.80	35.20	98.40	0.00	144.00 ton
Application event totals		164.80	35.20	98.40	0.00	

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3 - 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	89.38	17.17	120.86	549.04	769,008.36 gal
Well #4	Ground water	0.65	0.00	0.00	227.39	6,240,046.65 gal
S Homes	Ground water	15.70	0.00	0.00	331.67	2,401,521.87 gal
Application event totals		105.73	17.17	120.86	1,108.10	
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)	Amount
Process Wastewater	Process wastewater	0.61	0.04	0.50	17.38	576,756.27 gal
Canal	Surface water	1.56	0.00	0.00	208.29	11,232,083.97 gal
Application event totals		2.18	0.04	0.50	225.67	

3 - 06/24/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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	163.20	62.40	151.20	0.00	432.00 ton
Application event totals		163.20	62.40	151.20	0.00	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	105.02	20.75	127.90	289.67	961,260.45 gal
Canal	Surface water	5.93	0.00	0.00	790.39	42,621,310.80 gal
Application event totals		110.95	20.75	127.90	1,080.06	

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3 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	41.33	5.88	46.91	283.78
Application event totals		41.33	5.88	46.91	283.78

4 - 11/18/2022: Wheat, silage, soft dough

Field name: 4

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
10/10/2022	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	206.00	44.00	123.00	0.00
Application event totals		206.00	44.00	123.00	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	62.53	12.01	84.55	384.10
W Dairy	Ground water	9.21	0.00	0.00	405.91
Scale	Ground water	0.25	0.00	0.00	140.15
Application event totals		72.00	12.01	84.55	930.16
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	0.38	0.03	0.31	10.73
Canal	Surface water	1.59	0.00	0.00	212.14
Application event totals		1.97	0.03	0.31	222.86

4 - 06/26/2023: Corn, silage

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4 - 06/26/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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	136.00	52.00	126.00	0.00	290.00 ton
Application event totals		136.00	52.00	126.00	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	104.29	20.60	127.02	287.68	769,008.36 gal
Canal	Surface water	5.67	0.00	0.00	755.68	32,826,229.74 gal
Application event totals		109.96	20.60	127.02	287.68	769,008.36 gal
07/24/2023	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	34.13	4.85	38.73	234.32	479,000.97 gal
Application event totals		34.13	4.85	38.73	234.32	479,000.97 gal

5 - 11/21/2022: Wheat, silage, soft dough

Field name: 5

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	
10/11/2022	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	206.00	44.00	123.00	0.00	180.00 ton
Application event totals		206.00	44.00	123.00	0.00	

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5 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/24/2022	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	83.70	16.08	113.18	514.15	720,130.71 gal
Well #4	Ground water	0.89	0.00	0.00	312.64	8,579,656.83 gal
Application event totals		84.59	16.08	113.18	826.79	
03/08/2023	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	0.61	0.04	0.50	17.38	576,756.27 gal
Canal	Surface water	1.64	0.00	0.00	218.99	11,808,840.24 gal
Application event totals		2.26	0.04	0.50	236.37	

5 - 06/28/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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	204.00	78.00	189.00	0.00	540.00 ton
Application event totals		204.00	78.00	189.00	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	84.01	16.60	102.32	231.74	769,008.36 gal
Canal	Surface water	5.89	0.00	0.00	785.13	42,337,820.43 gal
Application event totals		89.90	16.60	102.32	1,016.87	

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5 - 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	16.46	2.34	18.68	113.00
Application event totals		16.46	2.34	18.68	113.00
					286,748.88 gal

6 - 11/25/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/11/2022	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	206.00	44.00	123.00	0.00
Application event totals		206.00	44.00	123.00	0.00
11/27/2022	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	47.99	9.22	64.90	294.81
Well #6	Ground water	0.00	0.00	0.00	334.31
Application event totals		47.99	9.22	64.90	629.11
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	0.44	0.03	0.36	12.44
Canal	Surface water	1.60	0.00	0.00	213.36
Application event totals		2.04	0.03	0.36	225.80
					286,748.88 gal
					6,047,794.56 gal
					7,989,866.52 gal

6 - 06/28/2023: Corn, silage

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6 - 06/28/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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	163.20	62.40	151.20	0.00	300.00 ton
Application event totals		163.20	62.40	151.20	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	90.74	17.92	110.51	250.28	576,756.27 gal
Canal	Surface water	5.88	0.00	0.00	784.44	29,375,467.65 gal
Application event totals		96.62	17.92	110.51	1,034.72	
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	55.48	7.89	62.96	380.91	671,253.06 gal
Application event totals		55.48	7.89	62.96	380.91	

7 - 11/22/2022: Wheat, silage, soft dough

Field name: 7

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	
10/11/2022	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	206.00	44.00	123.00	0.00	110.00 ton
Application event totals		206.00	44.00	123.00	0.00	

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7 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/23/2022	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	54.54	10.47	73.75	335.01	286,748.88 gal
Well #9	Ground water	1.18	0.00	0.00	363.41	5,184,289.41 gal
Application event totals		55.72	10.47	73.75	698.42	
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)	Amount
Process Wastewater	Process wastewater	0.67	0.05	0.55	18.96	384,504.18 gal
Canal	Surface water	1.57	0.00	0.00	209.83	6,914,558.22 gal
Application event totals		2.24	0.05	0.55	228.79	

7 - 06/29/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	136.00	52.00	126.00	0.00	220.00 ton
Application event totals		136.00	52.00	126.00	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	103.11	20.37	125.58	284.41	576,756.27 gal
Canal	Surface water	5.80	0.00	0.00	773.55	25,491,323.73 gal
Application event totals		108.91	20.37	125.58	1,057.95	

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7 - 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	36.11	5.13	40.98	247.94
Application event totals		36.11	5.13	40.98	247.94
					384,504.18 gal

8 - 11/22/2022: Wheat, silage, soft dough

Field name: 8

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
10/18/2022	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	206.00	44.00	123.00	0.00
Application event totals		206.00	44.00	123.00	0.00
11/25/2022	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	84.88	16.30	114.77	521.39
Well #9	Ground water	1.17	0.00	0.00	359.69
Application event totals		86.05	16.30	114.77	881.07
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	0.78	0.06	0.63	22.01
Canal	Surface water	1.60	0.00	0.00	213.28
Application event totals		2.38	0.06	0.63	235.29

8 - 06/30/2023: Corn, silage

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8 - 06/30/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	204.00	78.00	189.00	0.00	1,065.00 ton
Application event totals		204.00	78.00	189.00	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	63.90	12.62	77.82	176.25	1,153,512.54 gal
Canal	Surface water	5.45	0.00	0.00	727.10	77,327,700.81 gal
Application event totals		69.35	12.62	77.82	903.35	
07/24/2023	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	41.91	5.96	47.57	287.78	1,440,261.42 gal
Application event totals		41.91	5.96	47.57	287.78	

9 - 11/24/2022: Wheat, silage, soft dough

Field name: 9

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	
10/18/2022	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	206.00	44.00	123.00	0.00	365.00 ton
Application event totals		206.00	44.00	123.00	0.00	

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9 - 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	75.64	14.53	102.28	464.65	1,319,696.55 gal
Well #9	Ground water	1.20	0.00	0.00	368.07	17,423,252.97 gal
Application event totals		76.84	14.53	102.28	832.73	
03/08/2023	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	0.38	0.03	0.31	10.70	720,130.71 gal
Canal	Surface water	1.59	0.00	0.00	212.35	23,220,142.26 gal
Application event totals		1.97	0.03	0.31	223.05	

9 - 07/01/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 07/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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	204.00	78.00	189.00	0.00	1,095.00 ton
Application event totals		204.00	78.00	189.00	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	62.15	12.28	75.69	171.42	1,153,512.54 gal
Canal	Surface water	5.55	0.00	0.00	739.84	80,899,027.77 gal
Application event totals		67.70	12.28	75.69	911.26	

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9 - 07/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Process Wastewater	Process wastewater	33.94	4.83	38.52	233.03
Application event totals		33.94	4.83	38.52	233.03
					1,199,131.68 gal

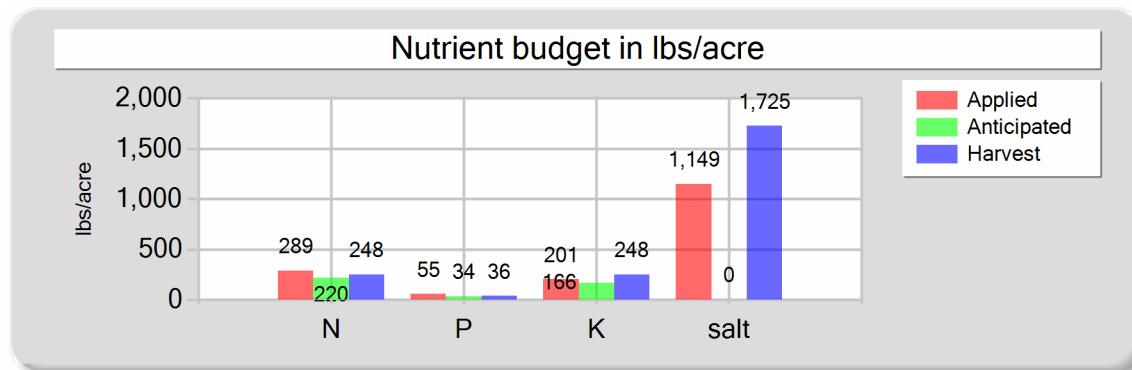
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B. NUTRIENT BUDGET

1 - 11/19/2022: Wheat, silage, soft dough

Field name: 1	Crop: Wheat, silage, soft dough	Plant date: 11/19/2022
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	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	206.00	44.00	123.00	0.00
Process wastewater	57.98	11.07	78.12	367.85
Fresh water	18.35	0.00	0.00	780.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.34	55.07	201.12	1,148.75
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	248.00	36.00	248.00	1,724.80
Nutrient balance	41.34	19.07	-46.88	-576.05
Applied to removed ratio	1.17	1.53	0.81	0.67

Fresh water applied
46,658,604.69 gallons
1,718.28 acre-inches
20.46 inches/acre
Process wastewater applied
2,307,025.08 gallons
84.96 acre-inches
1.01 inches/acre
Total harvests for the crop
1 harvests

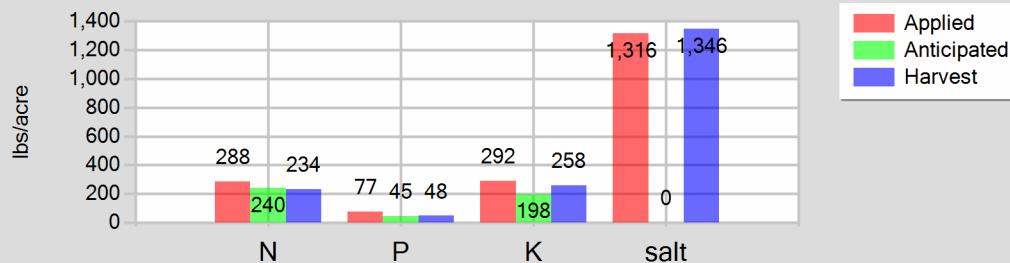
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Reporting period 01/01/2023 to 12/31/2023.

1 - 07/07/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 07/07/2023

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	136.00	52.00	126.00	0.00
Process wastewater	139.40	24.79	165.66	587.97
Fresh water	5.46	0.00	0.00	727.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.86	76.79	291.66	1,315.89
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.00	48.00	258.00	1,345.68
Nutrient balance	53.86	28.79	33.66	-29.79
Applied to removed ratio	1.23	1.60	1.13	0.98

Fresh water applied

91,590,199.08 gallons
3,372.96 acre-inches
40.15 inches/acre

Process wastewater applied

3,933,021.57 gallons
144.84 acre-inches
1.72 inches/acre

Total harvests for the crop

1 harvests

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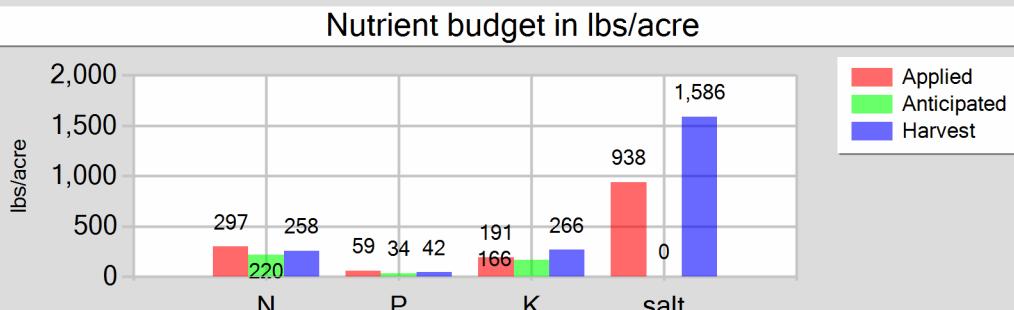
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11 - 11/18/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	247.20	52.80	147.60	0.00
Process wastewater	32.44	6.15	43.53	213.10
Fresh water	10.25	0.00	0.00	724.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	296.89	58.95	191.13	937.83
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	258.40	41.80	266.00	1,586.31
Nutrient balance	38.49	17.15	-74.87	-648.48
Applied to removed ratio	1.15	1.41	0.72	0.59

Fresh water applied

1,717,234.77 gallons
63.24 acre-inches
21.08 inches/acre

Process wastewater applied

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

Total harvests for the crop

1 harvests

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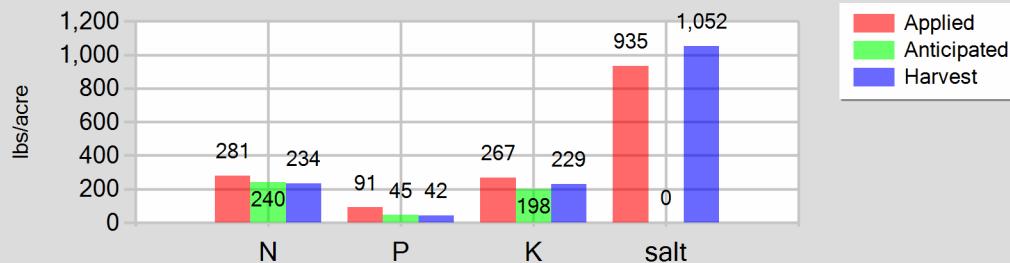
11 - 06/30/2023: Corn, silage

Field name: 11

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)
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	204.00	78.00	189.00	0.00
Process wastewater	64.08	12.66	78.04	176.75
Fresh water	5.68	0.00	0.00	757.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	280.76	90.66	267.04	934.51
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.00	41.60	228.80	1,052.22
Nutrient balance	46.76	49.06	38.24	-117.71
Applied to removed ratio	1.20	2.18	1.17	0.89

Fresh water applied

3,405,142.95 gallons
125.40 acre-inches
41.80 inches/acre

Process wastewater applied

48,877.65 gallons
1.80 acre-inches
0.60 inches/acre

Total harvests for the crop

1 harvests

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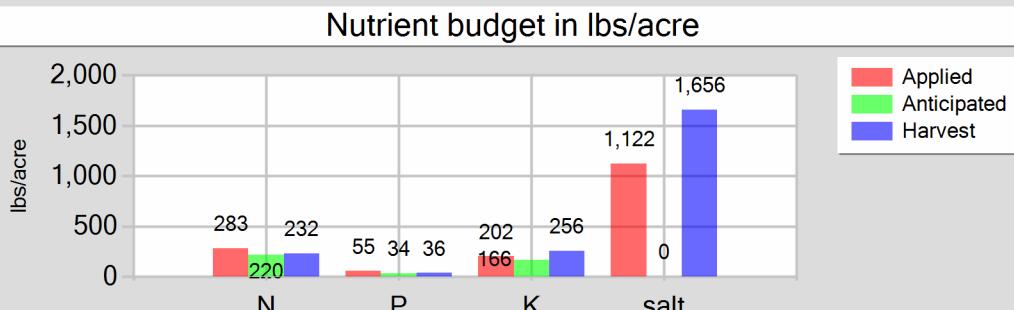
Reporting period 01/01/2023 to 12/31/2023.

12 - 11/16/2022: Wheat, silage, soft dough

Field name: 12

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	206.00	44.00	123.00	0.00
Process wastewater	58.72	11.22	79.16	370.57
Fresh water	10.93	0.00	0.00	750.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.65	55.22	202.16	1,121.54
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	232.00	36.00	256.00	1,656.00
Nutrient balance	50.65	19.22	-53.84	-534.46
Applied to removed ratio	1.22	1.53	0.79	0.68

Fresh water applied

34,725,941.07 gallons
1,278.84 acre-inches
20.63 inches/acre

Process wastewater applied

1,583,635.86 gallons
58.32 acre-inches
0.94 inches/acre

Total harvests for the crop

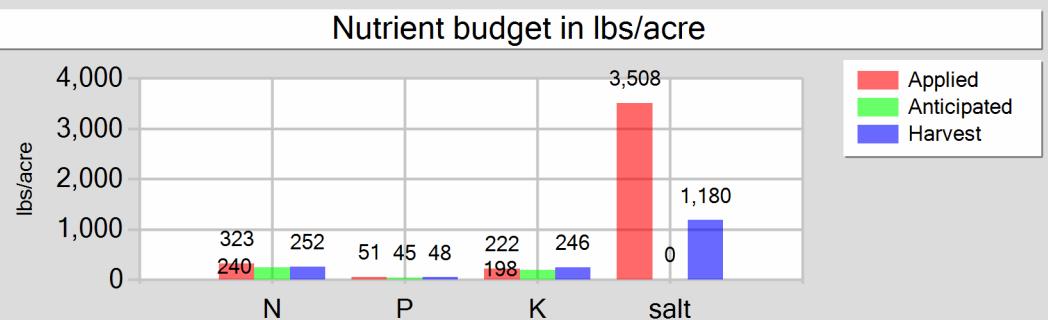
1 harvests

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12 - 07/06/2023: Corn, silage

Field name: 12 Crop: Corn, silage Plant date: 07/06/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	68.00	26.00	63.00	0.00
Process wastewater	132.29	24.71	158.99	470.16
Fresh water	115.52	0.00	0.00	3,038.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.81	50.71	221.99	3,508.44
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	252.00	48.00	246.00	1,179.90
Nutrient balance	70.81	2.71	-24.01	2,328.54
Applied to removed ratio	1.28	1.06	0.90	2.97

Fresh water applied
68,836,023.75 gallons
2,535.00 acre-inches
40.89 inches/acre

Process wastewater applied
2,450,399.52 gallons
90.24 acre-inches
1.46 inches/acre

Total harvests for the crop
1 harvests

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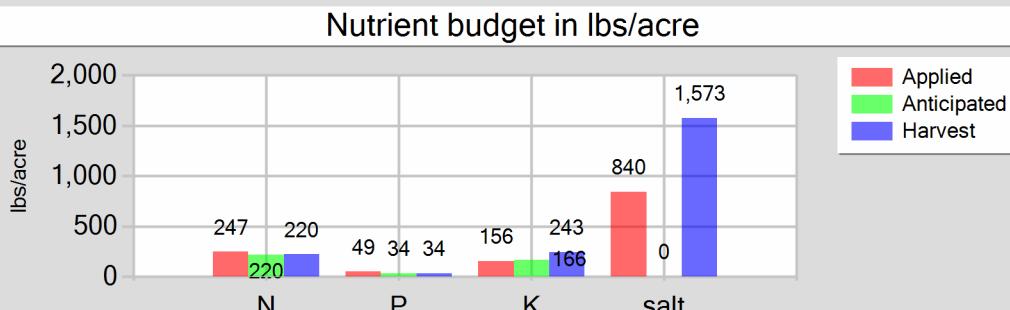
Reporting period 01/01/2023 to 12/31/2023.

13 - 11/16/2022: Wheat, silage, soft dough

Field name: 13

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	206.00	44.00	123.00	0.00
Process wastewater	24.33	4.62	32.64	159.82
Fresh water	9.44	0.00	0.00	680.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	246.77	48.62	155.64	840.34
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	220.40	34.20	243.20	1,573.20
Nutrient balance	26.37	14.42	-87.56	-732.86
Applied to removed ratio	1.12	1.42	0.64	0.53

Fresh water applied

2,232,079.35 gallons
82.20 acre-inches
20.55 inches/acre

Process wastewater applied

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

Total harvests for the crop

1 harvests

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

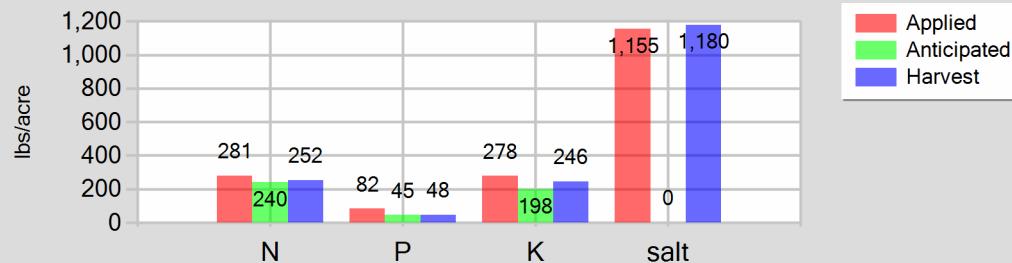
13 - 07/06/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 07/06/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	163.20	62.40	151.20	0.00
Process wastewater	104.70	20.03	126.53	337.18
Fresh water	6.13	0.00	0.00	817.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	281.03	82.43	277.73	1,155.13
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	252.00	48.00	246.00	1,179.90
Nutrient balance	29.03	34.43	31.73	-24.77
Applied to removed ratio	1.12	1.72	1.13	0.98

Fresh water applied

4,900,799.04 gallons
180.48 acre-inches
45.12 inches/acre

Process wastewater applied

117,306.36 gallons
4.32 acre-inches
1.08 inches/acre

Total harvests for the crop

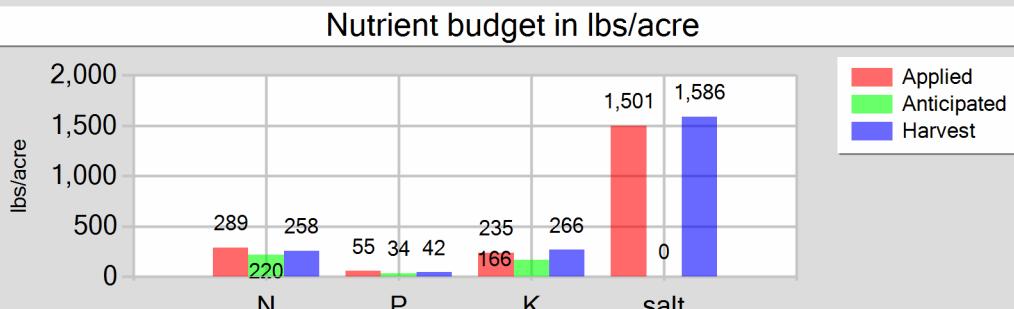
1 harvests

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

2 - 11/18/2022: Wheat, silage, soft dough

Field name: 2 Crop: Wheat, silage, soft dough Plant date: 11/18/2022



	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	164.80	35.20	98.40	0.00
Process wastewater	101.01	19.35	136.34	630.71
Fresh water	16.46	0.00	0.00	870.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.28	54.55	234.74	1,500.80
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	258.40	41.80	266.00	1,586.31
Nutrient balance	30.88	12.75	-31.26	-85.51
Applied to removed ratio	1.12	1.30	0.88	0.95

Fresh water applied

17,856,634.80 gallons
657.60 acre-inches
20.55 inches/acre

Process wastewater applied

1,153,512.54 gallons
42.48 acre-inches
1.33 inches/acre

Total harvests for the crop

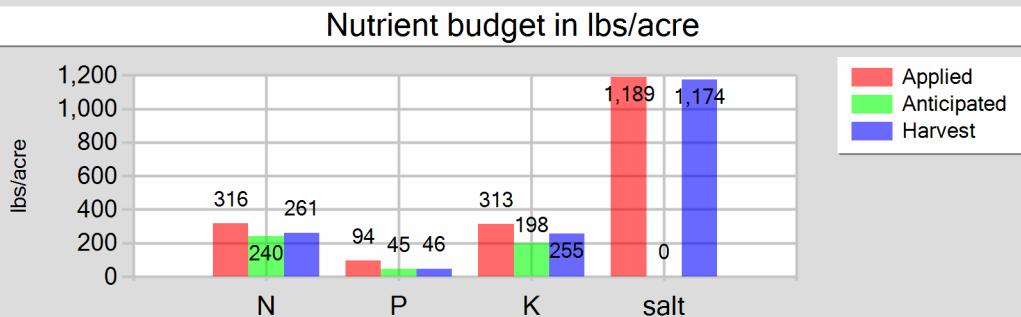
1 harvests

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

2 - 06/30/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/30/2023



	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	190.40	72.80	176.40	0.00
Process wastewater	113.03	21.30	136.12	387.83
Fresh water	6.01	0.00	0.00	801.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.44	94.10	312.52	1,189.12
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	261.00	46.40	255.20	1,173.63
Nutrient balance	55.44	47.70	57.32	15.49
Applied to removed ratio	1.21	2.03	1.22	1.01

Fresh water applied
38,408,057.37 gallons
1,414.44 acre-inches
44.20 inches/acre

Process wastewater applied
1,055,757.24 gallons
38.88 acre-inches
1.21 inches/acre

Total harvests for the crop
1 harvests

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

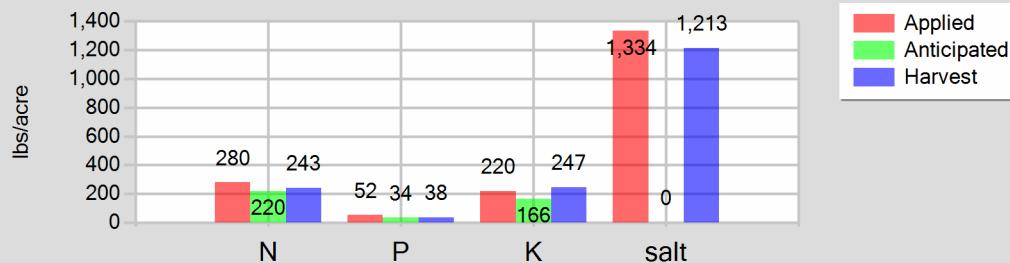
3 - 11/21/2022: Wheat, silage, soft dough

Field name: 3

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	164.80	35.20	98.40	0.00
Process wastewater	89.99	17.21	121.36	566.42
Fresh water	17.91	0.00	0.00	767.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.71	52.41	219.76	1,333.78
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	243.20	38.00	247.00	1,212.96
Nutrient balance	36.51	14.41	-27.24	120.82
Applied to removed ratio	1.15	1.38	0.89	1.10

Fresh water applied

19,873,652.49 gallons
731.88 acre-inches
20.33 inches/acre

Process wastewater applied

1,345,764.63 gallons
49.56 acre-inches
1.38 inches/acre

Total harvests for the crop

1 harvests

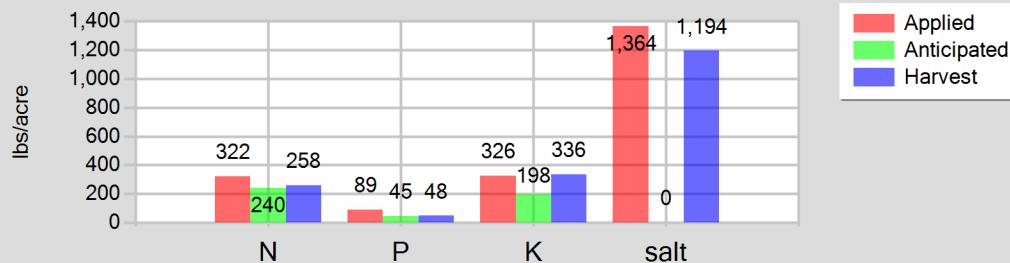
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Reporting period 01/01/2023 to 12/31/2023.

3 - 06/24/2023: Corn, silage

Field name: 3 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	163.20	62.40	151.20	0.00
Process wastewater	146.35	26.62	174.81	573.45
Fresh water	5.93	0.00	0.00	790.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.48	89.02	326.01	1,363.84
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	258.00	48.00	336.00	1,194.12
Nutrient balance	64.48	41.02	-9.99	169.72
Applied to removed ratio	1.25	1.85	0.97	1.14

Fresh water applied

42,621,310.80 gallons
1,569.60 acre-inches
43.60 inches/acre

Process wastewater applied

1,681,391.16 gallons
61.92 acre-inches
1.72 inches/acre

Total harvests for the crop

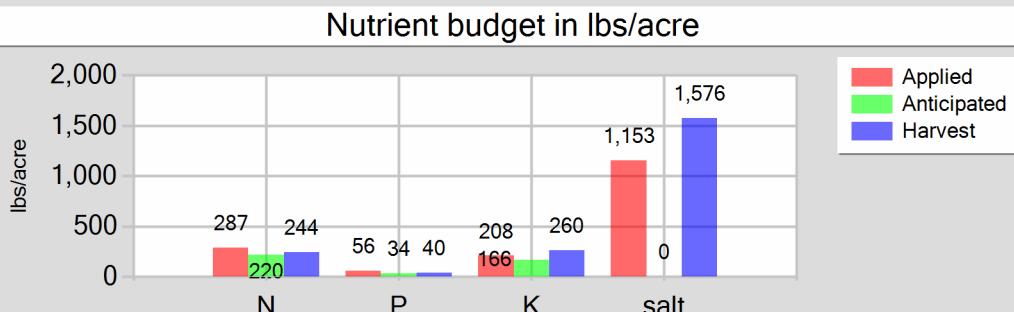
1 harvests

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

4 - 11/18/2022: Wheat, silage, soft dough

Field name: 4 Crop: Wheat, silage, soft dough Plant date: 11/18/2022



	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	206.00	44.00	123.00	0.00
Process wastewater	62.91	12.04	84.86	394.83
Fresh water	11.06	0.00	0.00	758.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.97	56.04	207.86	1,153.03
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	244.00	40.00	260.00	1,575.60
Nutrient balance	42.97	16.04	-52.14	-422.57
Applied to removed ratio	1.18	1.40	0.80	0.73

Fresh water applied

16,344,686.16 gallons
601.92 acre-inches
20.76 inches/acre

Process wastewater applied

720,130.71 gallons
26.52 acre-inches
0.91 inches/acre

Total harvests for the crop

1 harvests

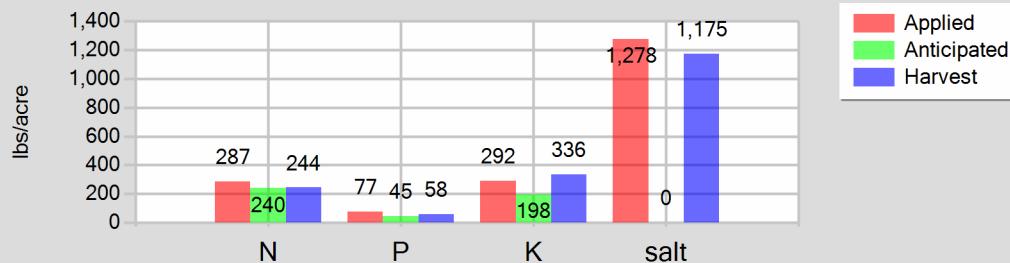
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Reporting period 01/01/2023 to 12/31/2023.

4 - 06/26/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 06/26/2023

Nutrient budget in lbs/acre



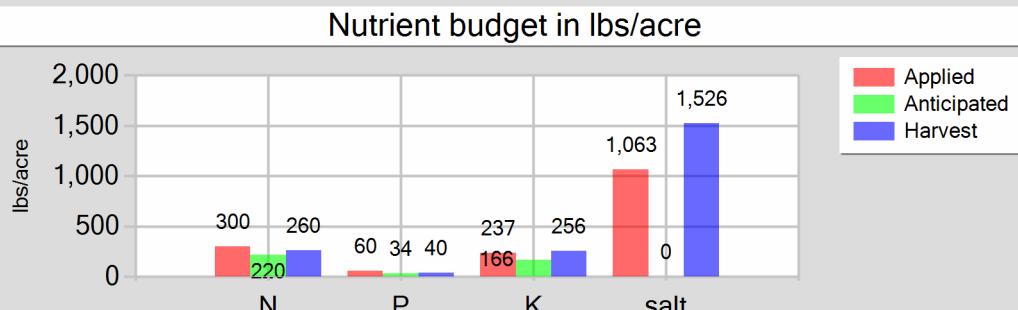
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	32,826,229.74 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,208.88 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	41.69 inches/acre
Dry manure	136.00	52.00	126.00	0.00	
Process wastewater	138.42	25.45	165.75	522.00	
Fresh water	5.67	0.00	0.00	755.68	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	287.09	77.45	291.75	1,277.68	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	243.60	58.00	336.40	1,175.20	
Nutrient balance	43.49	19.45	-44.65	102.48	
Applied to removed ratio	1.18	1.34	0.87	1.09	
Total harvests for the crop					1 harvests

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

5 - 11/21/2022: Wheat, silage, soft dough

Field name: 5 Crop: Wheat, silage, soft dough Plant date: 11/21/2022



	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	206.00	44.00	123.00	0.00
Process wastewater	84.31	16.12	113.68	531.53
Fresh water	2.54	0.00	0.00	531.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	299.85	60.12	236.68	1,063.16
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	260.00	40.00	256.00	1,526.00
Nutrient balance	39.85	20.12	-19.32	-462.84
Applied to removed ratio	1.15	1.50	0.92	0.70

Fresh water applied
20,388,497.07 gallons
750.84 acre-inches
20.86 inches/acre

Process wastewater applied
1,296,886.98 gallons
47.76 acre-inches
1.33 inches/acre

Total harvests for the crop
1 harvests

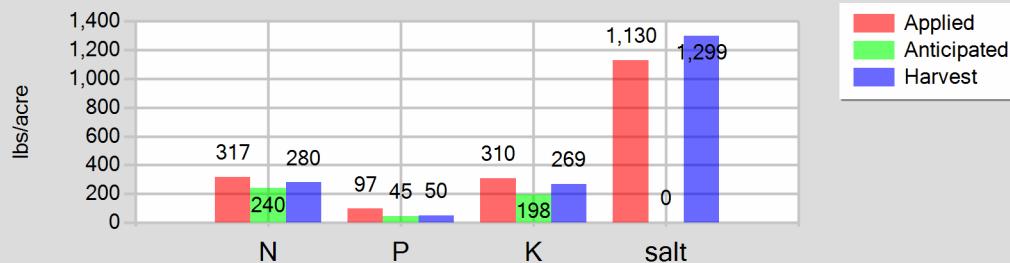
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Reporting period 01/01/2023 to 12/31/2023.

5 - 06/28/2023: Corn, silage

Field name: 5 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	204.00	78.00	189.00	0.00
Process wastewater	100.47	18.94	121.00	344.74
Fresh water	5.89	0.00	0.00	785.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	317.36	96.94	310.00	1,129.87
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	280.00	50.40	268.80	1,299.20
Nutrient balance	37.36	46.54	41.20	-169.33
Applied to removed ratio	1.13	1.92	1.15	0.87

Fresh water applied

42,337,820.43 gallons
1,559.16 acre-inches
43.31 inches/acre

Process wastewater applied

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

Total harvests for the crop

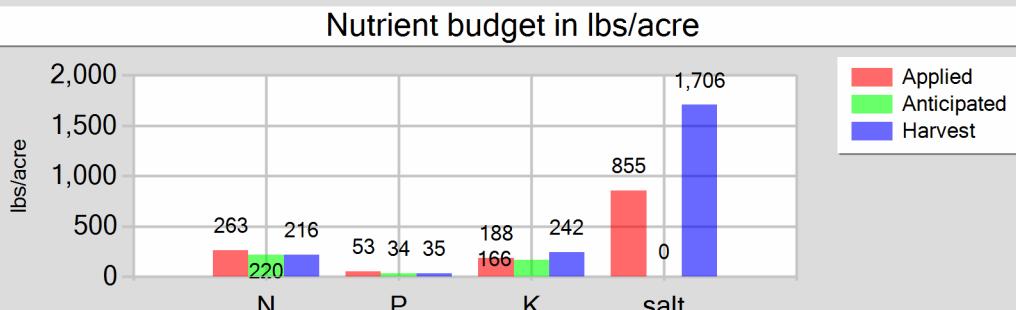
1 harvests

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

6 - 11/25/2022: Wheat, silage, soft dough

Field name: 6 Crop: Wheat, silage, soft dough Plant date: 11/25/2022



	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	206.00	44.00	123.00	0.00
Process wastewater	48.43	9.25	65.25	307.25
Fresh water	1.60	0.00	0.00	547.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	263.03	53.25	188.25	854.92
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	215.60	35.20	242.00	1,705.97
Nutrient balance	47.43	18.05	-53.75	-851.05
Applied to removed ratio	1.22	1.51	0.78	0.50

Fresh water applied

14,037,661.08 gallons
516.96 acre-inches
20.68 inches/acre

Process wastewater applied

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

Total harvests for the crop

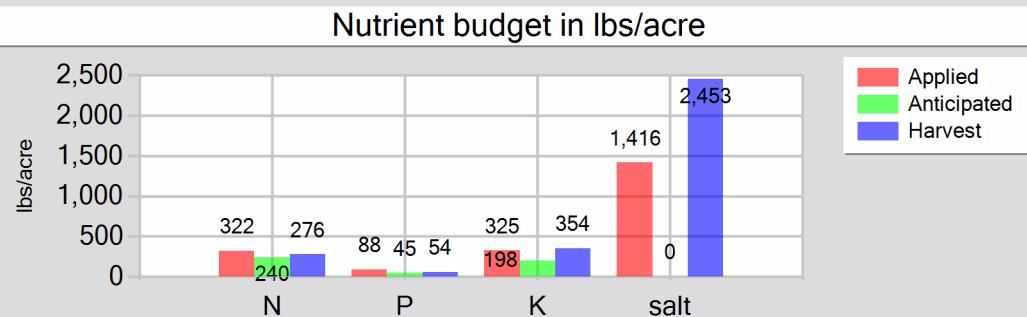
1 harvests

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

6 - 06/28/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 06/28/2023



	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	163.20	62.40	151.20	0.00
Process wastewater	146.21	25.81	173.47	631.19
Fresh water	5.88	0.00	0.00	784.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.30	88.21	324.67	1,415.63
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	276.00	54.00	354.00	2,452.50
Nutrient balance	46.30	34.21	-29.33	-1,036.87
Applied to removed ratio	1.17	1.63	0.92	0.58

Fresh water applied
29,375,467.65 gallons
1,081.80 acre-inches
43.27 inches/acre

Process wastewater applied
1,248,009.33 gallons
45.96 acre-inches
1.84 inches/acre

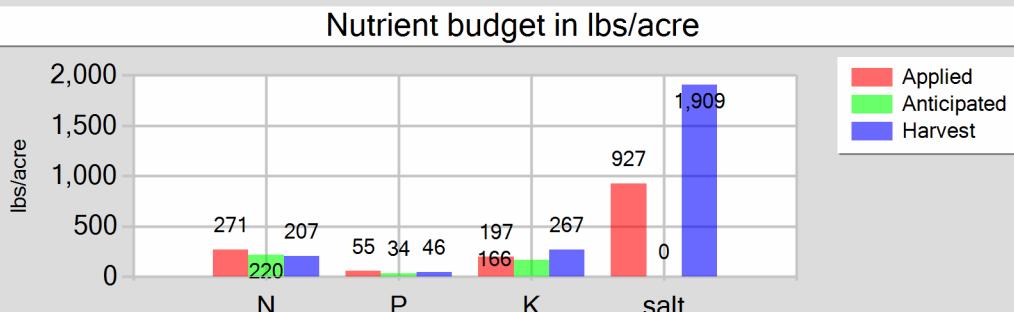
Total harvests for the crop
1 harvests

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

7 - 11/22/2022: Wheat, silage, soft dough

Field name: 7 Crop: Wheat, silage, soft dough Plant date: 11/22/2022



	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	206.00	44.00	123.00	0.00
Process wastewater	55.21	10.52	74.29	353.97
Fresh water	2.75	0.00	0.00	573.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.96	54.52	197.29	927.20
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	207.00	46.00	266.80	1,909.00
Nutrient balance	63.96	8.52	-69.51	-981.80
Applied to removed ratio	1.31	1.19	0.74	0.49

Fresh water applied

12,098,847.63 gallons
445.56 acre-inches
20.25 inches/acre

Process wastewater applied

671,253.06 gallons
24.72 acre-inches
1.12 inches/acre

Total harvests for the crop

1 harvests

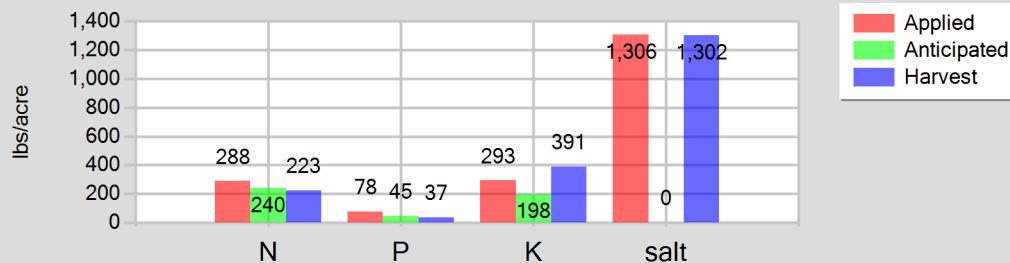
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Reporting period 01/01/2023 to 12/31/2023.

7 - 06/29/2023: Corn, silage

Field name: 7 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	136.00	52.00	126.00	0.00
Process wastewater	139.22	25.50	166.56	532.35
Fresh water	5.80	0.00	0.00	773.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.02	77.50	292.56	1,305.90
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	223.20	37.20	390.60	1,301.69
Nutrient balance	64.82	40.30	-98.04	4.21
Applied to removed ratio	1.29	2.08	0.75	1.00

Fresh water applied

25,491,323.73 gallons
938.76 acre-inches
42.67 inches/acre

Process wastewater applied

961,260.45 gallons
35.40 acre-inches
1.61 inches/acre

Total harvests for the crop

1 harvests

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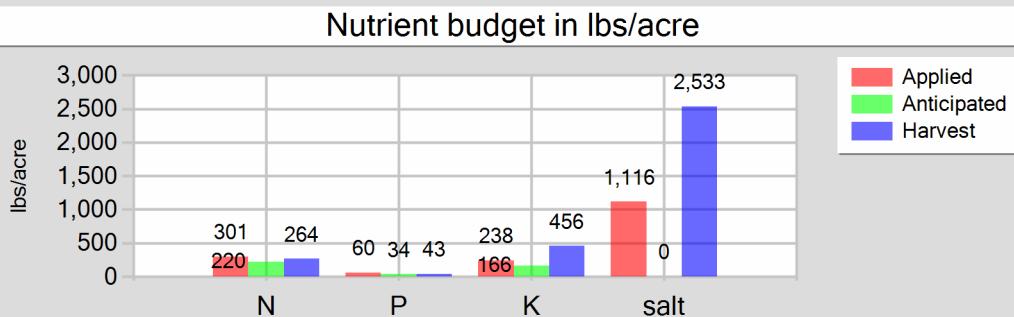
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/22/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	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	206.00	44.00	123.00	0.00
Process wastewater	85.65	16.36	115.41	543.39
Fresh water	2.77	0.00	0.00	572.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	301.42	60.36	238.41	1,116.36
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	263.50	42.50	455.60	2,532.69
Nutrient balance	37.92	17.86	-217.19	-1,416.34
Applied to removed ratio	1.14	1.42	0.52	0.44

Fresh water applied

39,242,235.93 gallons
1,445.16 acre-inches
20.35 inches/acre

Process wastewater applied

2,880,522.84 gallons
106.08 acre-inches
1.49 inches/acre

Total harvests for the crop

1 harvests

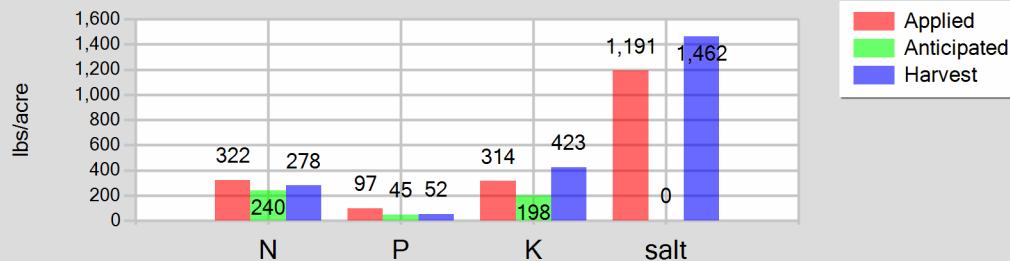
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Reporting period 01/01/2023 to 12/31/2023.

8 - 06/30/2023: Corn, silage

Field name: 8 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	77,327,700.81 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,847.72 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.11 inches/acre
Dry manure	204.00	78.00	189.00	0.00	
Process wastewater	105.81	18.58	125.39	464.03	2,593,773.96 gallons
Fresh water	5.45	0.00	0.00	727.10	95.52 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.35 inches/acre
Total nutrients applied	322.27	96.58	314.39	1,191.13	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	278.40	52.20	423.40	1,461.89	
Nutrient balance	43.87	44.38	-109.01	-270.76	
Applied to removed ratio	1.16	1.85	0.74	0.81	
Total harvests for the crop					1 harvests

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

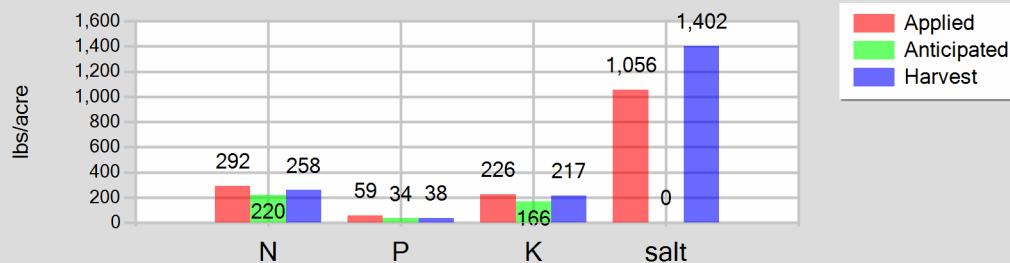
9 - 11/24/2022: Wheat, silage, soft dough

Field name: 9

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	206.00	44.00	123.00	0.00
Process wastewater	76.02	14.56	102.59	475.35
Fresh water	2.79	0.00	0.00	580.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.81	58.56	225.59	1,055.78
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	258.40	38.00	216.60	1,401.74
Nutrient balance	33.41	20.56	8.99	-345.96
Applied to removed ratio	1.13	1.54	1.04	0.75

Fresh water applied

40,643,395.23 gallons
1,496.76 acre-inches
20.50 inches/acre

Process wastewater applied

2,039,827.26 gallons
75.12 acre-inches
1.03 inches/acre

Total harvests for the crop

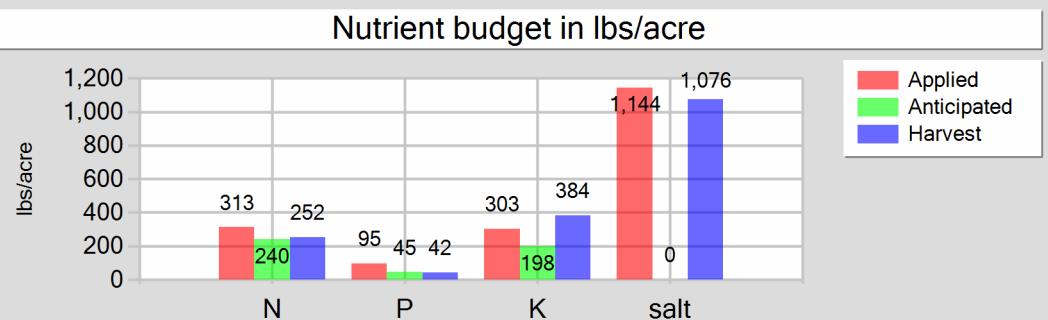
1 harvests

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

9 - 07/01/2023: Corn, silage

Field name: 9 Crop: Corn, silage Plant date: 07/01/2023



	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	80,899,027.77 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,979.24 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.81 inches/acre
Dry manure	204.00	78.00	189.00	0.00	
Process wastewater	96.09	17.10	114.21	404.46	2,352,644.22 gallons
Fresh water	5.55	0.00	0.00	739.84	86.64 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.19 inches/acre
Total nutrients applied	312.64	95.10	303.21	1,144.30	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	252.00	42.00	384.00	1,075.80	
Nutrient balance	60.64	53.10	-80.79	68.50	
Applied to removed ratio	1.24	2.26	0.79	1.06	
Total harvests for the crop					1 harvests

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

NUTRIENT ANALYSES**A. MANURE ANALYSES**

22H2060

Sample and source description: 22H2060

Sample date: 08/25/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.2 %

	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	20,600.00	4,400.00	12,300.00							0.00
DL	100.00	100.00	30.00							0.01

23E0787

Sample and source description: 23E0787

Sample date: 05/08/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 48.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	2,600.00	6,300.00							0.00
DL	100.00	100.00	30.00							0.01

23K0007

Sample and source description: 23K0007

Sample date: 10/31/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 27.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,600.00	3,700.00	6,300.00							0.00
DL	100.00	100.00	30.00							0.01

B. PROCESS WASTEWATER ANALYSES

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22J1657

Sample and source description: 22J1657

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	496.00	446.00	0.00	5.40	96.30	678.00								7,070.00	3,080
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23B0224

Sample and source description: 23B0224

Sample date: 01/31/2023 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	3.89	0.92	0.00	0.70	0.33	3.74								158.00	130
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23E0767

Sample and source description: 23E0767

Sample date: 05/08/2023 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	471.00	405.00	0.00	0.30	93.10	574.00								6,610.00	1,300
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23H0631

Sample and source description: 23H0631

Sample date: 08/03/2023 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	247.00	233.00	0.00	0.60	35.20	281.00								3,360.00	1,700
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

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23K0001

Sample and source description: 23K0001

Sample date: 10/31/2023 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	458.00	440.00	0.00	0.60	71.00	569.00								6,360.00	3,030
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

C. FRESH WATER ANALYSES

Canal

22G1356

Sample description: 22G1356

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								160.00	90
DL		0.20	0.01								1.00	10

23E1023

Sample description: 23E1023

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	0.60								122.00	80
DL		0.20	0.01								1.00	10

S Homes

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

S Homes**22F0849**Sample description: 22F0849Sample date: 06/07/2022 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	28.20								993.00	
DL		0.20	0.01								1.00	

Scale**22B0571**Sample description: 22B0571Sample date: 02/09/2022 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	0.30	4.10	0.20	51.00	71.20	22.00	12.60	8.30	261.00	167
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

23H0630Sample description: 23H0630Sample date: 08/03/2023 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	16.10								673.00	
DL		0.20	0.01								1.00	

W Dairy

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

W Dairy**22G0257**Sample description: 22G0257Sample date: 06/30/2022 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	7.60								558.00	
DL		0.20	0.01								1.00	

Well #4**22F0849**Sample description: 22F0849Sample date: 06/07/2022 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		0.25	0.20								262.00	
DL		0.20	0.01								1.00	

Well #6**22F0849**Sample description: 22F0849Sample date: 06/07/2022 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								276.00	
DL		0.20	0.10								1.00	

Well #9

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Well #9

22B0572

Sample description: 22B0572

Sample date: 02/09/2022 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	0.60								308.00	
DL		0.20	0.01								1.00	

D. SOIL ANALYSES

1

23J1106

Sample and source description: 23J1106

Sample date: 10/16/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				65.00			
DL				1.10			

11

23J1342

Sample and source description: 23J1342

Sample date: 10/18/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				43.50			
DL				1.10			

12

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12

23J1106

Sample and source description: 23J1106

Sample date: 10/16/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			61.00				
DL			1.10				

13

23J1106

Sample and source description: 23J1106

Sample date: 10/16/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			61.00				
DL			1.10				

2

23J1342

Sample and source description: 23J1342

Sample date: 10/18/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			43.50				
DL			1.10				

3

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

3

23I1917

Sample and source description: 23I1917

Sample date: 09/29/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			99.00				
DL			1.10				

4

23I1917

Sample and source description: 23I1917

Sample date: 09/29/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			92.00				
DL			1.10				

5

23I1917

Sample and source description: 23I1917

Sample date: 09/29/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			110.00				
DL			1.10				

6

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

6

23J1869

Sample and source description: 23J1869

Sample date: 10/27/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			67.00				
DL			1.10				

8

23K0006

Sample and source description: 23K0006

Sample date: 10/31/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			130.00				
DL			1.10				

9

23J1869

Sample and source description: 23J1869

Sample date: 10/27/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			116.00				
DL			1.10				

E. PLANT TISSUE ANALYSES

1 - 11/19/2022: Wheat, silage, soft dough

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

1 - 11/19/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	900.00	6,200.00		11.00
DL	0.10	0.10	0.10		0.01

1 - 07/07/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	800.00	4,300.00		6.30
DL	0.10	0.10	0.10		0.01

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

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,100.00	7,000.00		11.50
DL	0.10	0.10	0.10		0.01

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11 - 06/30/2023: Corn, silage

23K1067

Sample and source description: 23K1067

Sample date: 11/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	800.00	4,400.00		5.70
DL	0.10	0.10	0.10		0.01

12 - 11/16/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	900.00	6,400.00		12.00
DL	0.10	0.10	0.10		0.01

12 - 07/06/2023: Corn, silage

23K1067

Sample and source description: 23K1067

Sample date: 11/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	800.00	4,100.00		5.70
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.

13 - 11/16/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	900.00	6,400.00		12.00
DL	0.10	0.10	0.10		0.01

13 - 07/06/2023: Corn, silage

23K1067

Sample and source description: 23K1067

Sample date: 11/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	800.00	4,100.00		5.70
DL	0.10	0.10	0.10		0.01

2 - 11/18/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,100.00	7,000.00		11.50
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.

2 - 06/30/2023: Corn, silage

23K1067

Sample and source description: 23K1067

Sample date: 11/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	800.00	4,400.00		5.70
DL	0.10	0.10	0.10		0.01

3 - 11/21/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,000.00	6,500.00		9.50
DL	0.10	0.10	0.10		0.01

3 - 06/24/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	800.00	5,600.00		6.20
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.

4 - 11/18/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,100.00	1,000.00	6,500.00		10.10
DL	0.10	0.10	0.10		0.01

4 - 06/26/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	1,000.00	5,800.00		6.60
DL	0.10	0.10	0.10		0.01

5 - 11/21/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,000.00	6,400.00		10.90
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.

5 - 06/28/2023: Corn, silage

23K1067

Sample and source description: 23K1067

Sample date: 11/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	900.00	4,800.00		5.80
DL	0.10	0.10	0.10		0.01

6 - 11/25/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	800.00	5,500.00		10.80
DL	0.10	0.10	0.10		0.01

6 - 06/28/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	900.00	5,900.00		10.90
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.

7 - 11/22/2022: Wheat, silage, soft dough

23L1124

Sample and source description: 23L1124

Sample date: 12/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	1,000.00	5,800.00		10.00
DL	0.10	0.10	0.10		0.01

7 - 06/29/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	600.00	6,300.00		6.50
DL	0.10	0.10	0.10		0.01

8 - 11/22/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 54.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,750.00	1,250.00	13,400.00		16.30
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.

8 - 06/30/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	900.00	7,300.00		7.10
DL	0.10	0.10	0.10		0.01

9 - 11/24/2022: Wheat, silage, soft dough

23E2341

Sample and source description: 23E2341

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	1,000.00	5,700.00		10.60
DL	0.10	0.10	0.10		0.01

9 - 07/01/2023: Corn, silage

23J1588

Sample and source description: 23J1588

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	700.00	6,400.00		5.50
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.

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

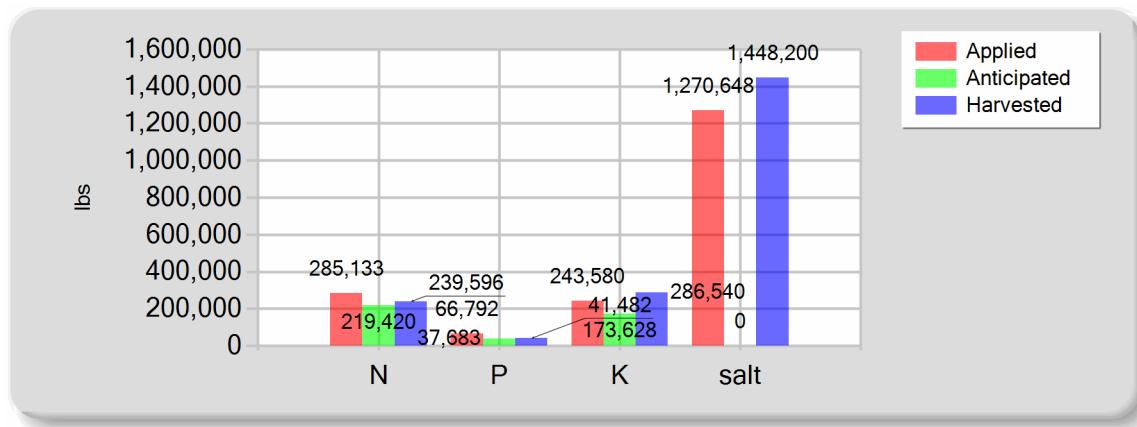
No subsurface (tile) drainage analyses entered.

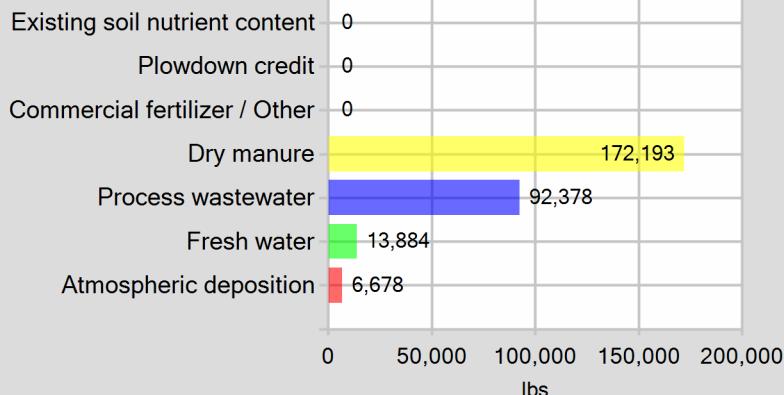
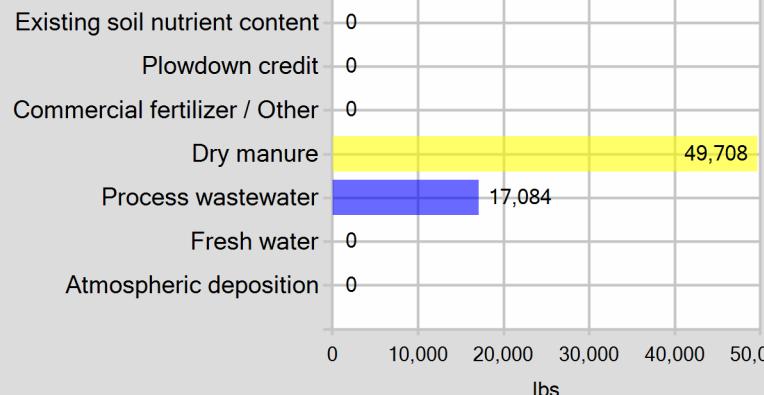
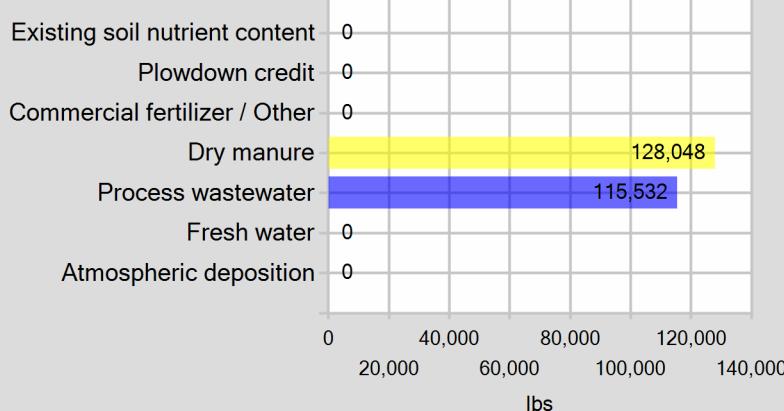
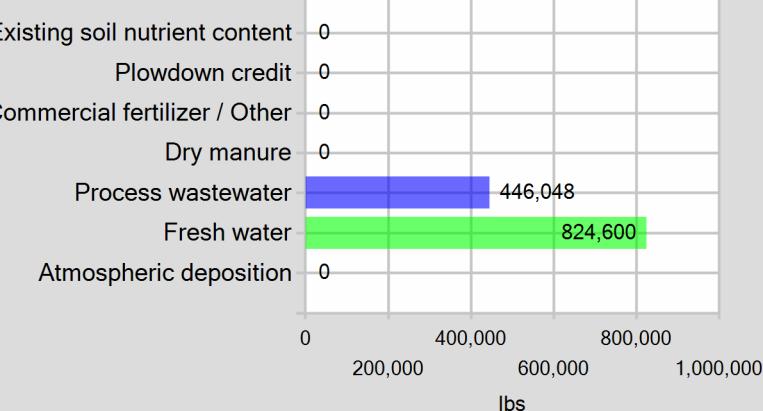
Annual Report - General Order No. R5-2007-0035

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	172,192.80	49,707.60	128,047.80	0.00
Process wastewater	92,378.26	17,084.47	115,531.73	446,047.79
Fresh water	13,883.74	0.00	0.00	824,599.91
Atmospheric deposition	6,678.00	0.00	0.00	0.00
Total nutrients applied	285,132.80	66,792.07	243,579.53	1,270,647.70
Anticipated crop nutrient removal	219,420.00	37,683.00	173,628.00	0.00
Actual crop nutrient removal	239,595.70	41,481.90	286,539.60	1,448,200.41
Nutrient balance	45,537.10	25,310.17	-42,960.07	-177,552.71
Applied to removed ratio	1.19	1.61	0.85	0.88

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.

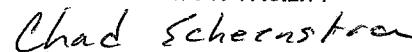
CERTIFICATION

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


Chad Scheenstraen

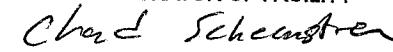
PRINT OR TYPE NAME


12-4-23

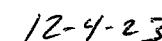
DATE



SIGNATURE OF OPERATOR OF FACILITY


Chad Scheenstraen

PRINT OR TYPE NAME


12-4-23

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 13:40

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1023-01	Lower Tule Canal	Ag Water	Moises Barajas		05/10/2023 11:47

Default Cooler Temperature on Receipt °C: -1.0
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

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:40

Sample Results

**Sample: Lower Tule Canal
23E1023-01 (Water)**

Sampled: 5/10/2023 11:47

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.12	mmhos/cm	0.01	1		05/11/23 14:10	SM 2510 B		BEE0443
Electrical Conductivity umhos	122	umhos/cm	10.0	1		05/11/23 14:10	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	0.6	mg/L	0.1	1	10	05/11/23 17:30	EPA 300.0		BEE0425
pH	8.0	units	1.0	1		05/11/23 14:10	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	80.0	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	25.0	°C	0.0	1		05/11/23 14:10	SM 2510 B		BEE0443

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

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:40

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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Tipton, CA 93272

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

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:40

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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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 13:40

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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Account# 00-0020655
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Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:40

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



23E1023

WATER WORK REQUEST

Bill To: 20655 Acct No. (For Login Not Billing) 8

Purchase Order No. _____ Results Needed By _____

Client Sola Consulting
 Canal Lower Tule Irrigation District
 Requested by Vince Sola

Copy to	Email	Acct #
Vince Sola	solaconsulting@gmail.com	N/A
El Monte	art@elmontedairy.com	15826
Lerda-Goni	N/A	16943
Rynsburger	drewrynsburger@gmail.com john@jdsranch.com;	13445
Scheenstra	farmervs@aol.com;	

Date sampled 5-10-23 MB

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

DESCRIPTION OF SAMPLES

1. Lower Tule Canal
 Sampled From:
2. _____
 Sampled From: _____

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples	<u>1</u>	No. Bottles	
Water Type:	[] Drinking	[] Wastewater	
[X] Ag Water	[] Ground Water	[] Mon. Well	
[] Supply Water	[] Other		

Analysis and Bottles Required: (Please Indicate Analysis)

(X) DCW1: (EC, NO3-N, TDS)

(1) 1L plastic, unpreserved (white)

Copy to	Email	Acct #
Tri-Star	tristar@ocsnet.net	15844
VanBeek Bros	beekabode@clearwire.net	12761
_____	_____	_____
_____	_____	_____
_____	_____	_____

Sampled by Moses Branz

Date Sampled	Time Sampled	Field	Received Temp °C
<u>5/10/23</u>	<u>11:47</u>	<u>NH4-N (mg/L)</u>	<u>-1.0</u>
_____	_____	_____	_____
_____	_____	_____	_____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Moses Branz</u>	DLI	<u>5-10-23 11:47AM</u>	<u>2-02-23 5-10-23</u>
Second				
Third				
Fourth	<u>Jasmeen</u>	DLI	<u>5/10/23 8:59</u>	

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 attorneys' 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's fees of DellaValle Laboratory.

Invoicing Information:

Client	Acct #	Invoicing
El Monte Dairy	15826	Part of Contract
Lerda-Goni Farms	16943	\$21.00 Qtrly
Rynsburger Dairy	13445	\$21.00 Qtrly
Scheenstra Dairy	15833	\$21.00 Qtrly
Tri-Star Dairy	15844	\$21.00 Qtrly
VanBeek Bros Dairy	12761	\$21.00 Qtrly

Signature _____

Sample received in cooler with ice?

[] Yes [] No

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

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 HNO₃ or H₂SO₄ 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 (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									
	* 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:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
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									
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:										



05/11/23 08:59

23E1023



Scheenstra Dairy
PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H0630-01	Milkbarn E Tank (Water Spigot)	Ag Water	Moises Barajas		08/03/2023 11:40
23H0630-02	Milkbarn W Tank (Water Spigot)	Ag Water	Moises Barajas		08/03/2023 11:33
23H0630-03	Scale (Water Spigot)	Ag Water	Moises Barajas		08/03/2023 11:18

Default Cooler Temperature on Receipt °C: 1.1
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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Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Sample Results

**Sample: Milk barn E Tank (Water Spigot)
23H0630-01 (Water)**

Sampled: 8/3/2023 11:40

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.68	mmhos/cm	0.01	1		08/04/23 16:02	SM 2510 B		BEH0248
Electrical Conductivity umhos	677	umhos/cm	10.0	1		08/04/23 16:02	SM 2510 B		BEH0248
Ammonia (as N)	ND	mg/L	0.00	1		08/03/23 11:40	Field		BEH0231
Nitrate Nitrogen as NO3N	16.2	mg/L	0.1	1	10	08/05/23 01:44	EPA 300.0		BEH0237
pH	7.6	units	1.0	1		08/04/23 16:02	SM 4500-H+	H	BEH0248
Temperature	25.0	°C	0.0	1		08/04/23 16:02	SM 2510 B		BEH0248

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Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Sample Results

(Continued)

**Sample: Milk barn W Tank (Water Spigot)
23H0630-02 (Water)**

Sampled: 8/3/2023 11:33

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.68	mmhos/cm	0.01	1		08/04/23 16:03	SM 2510 B		BEH0248
Electrical Conductivity umhos	675	umhos/cm	10.0	1		08/04/23 16:03	SM 2510 B		BEH0248
Ammonia (as N)	ND	mg/L	0.00	1		08/03/23 11:33	Field		BEH0231
Nitrate Nitrogen as NO3N	16.2	mg/L	0.1	1	10	08/05/23 05:07	EPA 300.0		BEH0237
pH	7.5	units	1.0	1		08/04/23 16:03	SM 4500-H+	H	BEH0248
Temperature	25.0	°C	0.0	1		08/04/23 16:03	SM 2510 B		BEH0248

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PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Sample Results

(Continued)

**Sample: Scale (Water Spigot)
23H0630-03 (Water)**

Sampled: 8/3/2023 11:18

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.67	mmhos/cm	0.01	1		08/04/23 16:05	SM 2510 B		BEH0248
Electrical Conductivity umhos	673	umhos/cm	10.0	1		08/04/23 16:05	SM 2510 B		BEH0248
Ammonia (as N)	ND	mg/L	0.00	1		08/03/23 11:18	Field		BEH0231
Nitrate Nitrogen as NO3N	16.1	mg/L	0.1	1	10	08/05/23 05:28	EPA 300.0		BEH0237
pH	7.4	units	1.0	1		08/04/23 16:05	SM 4500-H+	H	BEH0248
Temperature	25.0	°C	0.0	1		08/04/23 16:05	SM 2510 B		BEH0248

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Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0237									
Blank (BEH0237-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/4/2023				
Blank (BEH0237-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 8/4/2023				
Blank (BEH0237-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/4/2023 Analyzed: 8/5/2023				
Blank (BEH0237-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 8/4/2023 Analyzed: 8/5/2023				
LCS (BEH0237-BS1)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	Prepared & Analyzed: 8/4/2023	101	90-110		
LCS (BEH0237-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	Prepared: 8/4/2023 Analyzed: 8/5/2023	102	90-110		
LCS (BEH0237-BS3)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	Prepared: 8/4/2023 Analyzed: 8/5/2023	101	90-110		
Duplicate (BEH0237-DUP1)									
Nitrate Nitrogen as NO3N	0.8	0.1	mg/L	0.8	Prepared & Analyzed: 8/4/2023			0.957	10
Duplicate (BEH0237-DUP2)									
Nitrate Nitrogen as NO3N	3.5	0.1	mg/L	3.5	Prepared: 8/4/2023 Analyzed: 8/5/2023			0.768	10
Duplicate (BEH0237-DUP3)									
Nitrate Nitrogen as NO3N	3.4	0.1	mg/L	3.4	Prepared: 8/4/2023 Analyzed: 8/5/2023			0.699	10
Matrix Spike (BEH0237-MS1)									
Nitrate Nitrogen as NO3N	6.0	0.1	mg/L	5.000	Prepared & Analyzed: 8/4/2023	0.8	104	90-110	
Matrix Spike (BEH0237-MS2)									
Nitrate Nitrogen as NO3N	8.6	0.1	mg/L	5.000	Prepared: 8/4/2023 Analyzed: 8/5/2023	3.5	103	90-110	
Matrix Spike (BEH0237-MS3)									
Nitrate Nitrogen as NO3N	8.6	0.1	mg/L	5.000	Prepared: 8/4/2023 Analyzed: 8/5/2023	3.4	103	90-110	
Reference (BEH0237-SRM1)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00	Prepared & Analyzed: 8/4/2023	102	90-110		
Reference (BEH0237-SRM2)									
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	Prepared & Analyzed: 8/4/2023	104	90-110		

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Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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Batch: BEH0237 (Continued)

Reference (BEH0237-SRM3)		Prepared: 8/4/2023 Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110	
Reference (BEH0237-SRM4)		Prepared: 8/4/2023 Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	104	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: BEH0248									
Blank (BEH0248-BLK1)									
Prepared & Analyzed: 8/4/2023									
pH	5.3	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH0248-BLK2)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEH0248-BLK3)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.0	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEH0248-DUP1)									
Source: 23H0619-03 Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	0.93	0.01	mmhos/cm		0.93		0.322	10	
pH	7.9	1.0	units		7.9		0.507	10	
Electrical Conductivity umhos	931	10.0	umhos/cm		934		0.322	10	
Duplicate (BEH0248-DUP2)									
Source: 23H0631-01 Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	3.34	0.01	mmhos/cm		3.36		0.511	10	
pH	7.6	1.0	units		7.5		0.793	10	
Electrical Conductivity umhos	3340	10.0	umhos/cm		3360		0.511	10	
Reference (BEH0248-SRM1)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	553		umhos/cm		538.0	103	90-110		
Reference (BEH0248-SRM2)									
Prepared & Analyzed: 8/4/2023									
pH	7.9		units		7.790	101	.7163-101.28		
Reference (BEH0248-SRM3)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		
Electrical Conductivity umhos	1040		umhos/cm		1000	104	90-110		
Reference (BEH0248-SRM4)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		
Electrical Conductivity umhos	1040		umhos/cm		1000	104	90-110		
Reference (BEH0248-SRM5)									
Prepared & Analyzed: 8/4/2023									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		

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Scheenstra Dairy
PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/04/2023 7:15
Reported: 08/07/2023 12:35

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH0248 (Continued)									
Reference (BEH0248-SRM5)									
Electrical Conductivity umhos	1040		umhos/cm	1000	104	90-110			
Reference (BEH0248-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEH0248-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEH0248-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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A standard linear barcode is located at the bottom right of the page.

23H0630

08/04/23 07:15

"AIA/E WORK REQUEST"

Acct No. Cons.
Bill To: 15833 08

Purchase Order No.	Results Needed By
--------------------	-------------------

Results Needed By

Purchase Order No.

1

Purchase Order No	Results Needed By
Client	Scheenstra Dairy
Address	P.O. Box 1077
City, State, Zip	Tipton, CA 93272
Email:	0

Copy to: solaconsultinginc@gmail.com, Chad@jdsranch.com

Requested by/Cell: John (559) 280-0600

Facility: 16800 Rd 96 Tipton

Date sampled 8-3-23

Sampled by Maison Berger

QA/QC Document Copy of Chain RWQCB

QA/QC Document Copy of Chain RWQCB

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

DESCRIPTION OF SAMPLES

- | | | |
|-----|-----------------|----------------------------------|
| 1. | Milkbarn E Tank | Sampled From <u>WATER SPIGOT</u> |
| 2. | Milkbarn W Tank | Sampled From <u>WATER SPIGOT</u> |
| 3. | Scale | Sampled From <u>WATER SPIGOT</u> |
| 4. | Ag Well N Dairy | Sampled From: |
| 5. | Ag Well W Dairy | Sampled From: |
| 6. | Ag Well S Home | Sampled From: |
| 7. | Ag Well #4 | Sampled From: |
| 8. | Ag Well #6 | Sampled From: |
| 9. | | Sampled From: |
| 10. | | Sampled From: |

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Maxx Bower</u>	<u>DRW</u>	<u>8-3-23</u>	<u>11:18AM</u>
Second				
Third				
Fourth	<u>GMV</u>	<u>OTC</u>	<u>8/4 07:15</u>	

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 necessary, shall be action against me for this breach, reasonable attorney's fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are not 30 days, overdue accounts will be charged a damaged 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 Dellaflor Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cat). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cat 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's fees of Dellaflor Laboratory.

Invoicing Information:

Sola Qrtly 2023

Sola Qrtly 2023 \$ _____ In
 Sampling Hrs Miles Consulting _____ \$ _____ Out
 _____ Amt Paid Rec By Check No. Date

Signature

Sample received in cooler with ice

Yes No

ctt.update 2020



08/04/23 07:15

23H0630

ORIGIN

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"/>																																																																																																																																																																																															
<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 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																																																																																																																																																																																													
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Sample Containers for Internal (DLI) Use (Containers that go into the Lab)																																																																																																																																																																																															
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)																																																																																																																																																																																														
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	250 mL HNO ₃ (Red) Plastic																																																																																																																																																																																														
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Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)																																																																																																																																																																																														
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	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 ^{b+} - 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)																																																																																																																																																																																														
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	250 mL AG Na ₂ S ₂ O ₃ + MCAA																																																																																																																																																																																														
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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 ^{b+} - 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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	1 L AG Na ₂ S ₂ O ₃ (Green)																																																																																																																																																																																														
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	Cr ^{b+} - 50mL Plastic w/Borate/HCO ₃ /CO ₃																																																																																																																																																																																														
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Sulfide - 1 L AG or P NaOH + ZnAc																																																																																																																																																																																															
Chlorite/Bromate - 250 mL AG with EDA																																																																																																																																																																																															
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Other:																																																																																																																																																																																															



Scheenstra Dairy
PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H2009-01	DW S Front House (Water Spigot)	Ag Water	Moises Barajas		08/23/2023 12:46

Default Cooler Temperature on Receipt °C: 1.3
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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Reported: 08/29/2023 12:57

Sample Results

**Sample: DW S Front House (Water Spigot)
23H2009-01 (Water)**

Sampled: 8/23/2023 12:46

Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	198	mg/L	10.0	1		08/25/23 15:47	SM 2320 B		BEH1107
Calcium	92.3	mg/L	0.1	1		08/28/23 15:29	EPA 200.7		BEH1191
Chloride	17.9	mg/L	0.2	1	250	08/24/23 16:24	EPA 300.0		BEH1177
Carbonate as CaCO ₃	ND	mg/L	1	1		08/25/23 15:47	SM 2320 B		BEH1107
Electrical Conductivity	0.72	mmhos/cm	0.01	1		08/25/23 15:47	SM 2510 B		BEH1107
Electrical Conductivity umhos	720	umhos/cm	10.0	1		08/25/23 15:47	SM 2510 B		BEH1107
Bicarbonate as CaCO₃	198	mg/L	5.00	1		08/25/23 15:47	SM 2320 B		BEH1107
Potassium	ND	mg/L	0.500	1		08/28/23 15:29	EPA 200.7		BEH1191
Magnesium	8.5	mg/L	0.1	1		08/28/23 15:29	EPA 200.7		BEH1191
Sodium	36	mg/L	1	1		08/28/23 15:29	EPA 200.7		BEH1191
Ammonia (as N)	*	mg/L	0.00	1		08/23/23 12:46	Field		BEH1368
Nitrate Nitrogen as NO₃N	16.1	mg/L	0.1	1	10	08/24/23 16:24	EPA 300.0		BEH1177
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/25/23 15:47	SM 2320 B		BEH1107
pH	7.7	units	1.0	1		08/25/23 15:47	SM 4500-H+	H	BEH1107
Sulfate (SO₄)	61.0	mg/L	0.5	1	250	08/24/23 16:24	EPA 300.0		BEH1177
Total Filterable Solids (TDS)	435	mg/L	10.0	1		08/29/23 09:23	SM 2540 C		BEH1176

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Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1107									
Blank (BEH1107-BLK1)									
Prepared & Analyzed: 8/25/2023									
Hydroxide as CaCO ₃	ND	1.00	mg/L						
pH	5.3	1.0	units						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO ₃	ND	1	mg/L						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH1107-BLK2)									
Prepared & Analyzed: 8/25/2023									
pH	5.5	1.0	units						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO ₃	ND	1	mg/L						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEH1107-BLK3)									
Prepared & Analyzed: 8/25/2023									
pH	5.5	1.0	units						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO ₃	ND	1	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Duplicate (BEH1107-DUP1)									
Source: 23H1913-03 Prepared & Analyzed: 8/25/2023									
Electrical Conductivity	0.99	0.01	mmhos/cm		0.99		0.172	10	
Alkalinity as CaCO ₃	450	10.0	mg/L		449		0.189	10	
Carbonate as CaCO ₃	14	1	mg/L		14		0.585	10	
pH	8.6	1.0	units		8.6		0.00	10	
Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10	
Electrical Conductivity umhos	986	10.0	umhos/cm		988		0.172	10	
Duplicate (BEH1107-DUP2)									
Source: 23H2009-01 Prepared & Analyzed: 8/25/2023									
Carbonate as CaCO ₃	ND	1	mg/L		ND			10	
Electrical Conductivity	0.72	0.01	mmhos/cm		0.72		0.374	10	
Alkalinity as CaCO ₃	196	10.0	mg/L		198		0.883	10	
pH	7.7	1.0	units		7.7		0.390	10	
Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10	
Electrical Conductivity umhos	723	10.0	umhos/cm		720		0.374	10	
Reference (BEH1107-SRM1)									
Prepared & Analyzed: 8/25/2023									

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Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1107 (Continued)									
Reference (BEH1107-SRM1)									
Prepared & Analyzed: 8/25/2023									
Electrical Conductivity	572		umhos/cm		538.0		106	90-110	
Alkalinity as CaCO3	41.2		mg/L		40.60		101	90-110	
Reference (BEH1107-SRM2)									
Prepared & Analyzed: 8/25/2023									
Electrical Conductivity	578		umhos/cm		538.0		107	90-110	
Alkalinity as CaCO3	41.1		mg/L		40.60		101	90-110	
Reference (BEH1107-SRM3)									
Prepared & Analyzed: 8/25/2023									
Alkalinity as CaCO3	40.7		mg/L		40.60		100	90-110	
Electrical Conductivity	590		umhos/cm		538.0		110	90-110	
Reference (BEH1107-SRM4)									
Prepared & Analyzed: 8/25/2023									
pH	4.1		units		4.000		102	97.5-102.5	
Reference (BEH1107-SRM5)									
Prepared & Analyzed: 8/25/2023									
pH	4.0		units		4.000		100	97.5-102.5	
Reference (BEH1107-SRM6)									
Prepared & Analyzed: 8/25/2023									
pH	4.0		units		4.000		100	97.5-102.5	
Reference (BEH1107-SRM7)									
Prepared & Analyzed: 8/25/2023									
pH	5.9		units		5.820		101	.7163-101.28	

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1176									
Blank (BEH1176-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
LCS (BEH1176-BS1)									
Total Filterable Solids (TDS)	31.2	10.0	mg/L	2000	1.56	0-200			
Duplicate (BEH1176-DUP1)									
Total Filterable Solids (TDS)	2570	10.0	mg/L	2780			8.10	10	
Duplicate (BEH1176-DUP2)									
Total Filterable Solids (TDS)	383	10.0	mg/L	377			1.75	10	
Reference (BEH1176-SRM1)									
Total Filterable Solids (TDS)	310		mg/L	325.0	95.4	90-110			

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Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1177									
Blank (BEH1177-BLK1)									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
Blank (BEH1177-BLK2)									
Chloride ND 0.2 mg/L Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N ND 0.1 mg/L									
Sulfate (SO4) ND 0.5 mg/L									
LCS (BEH1177-BS1)									
Chloride 5.0 0.2 mg/L Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N 5.1 0.1 mg/L									
Sulfate (SO4) 4.8 0.5 mg/L									
Duplicate (BEH1177-DUP1)									
Chloride 10.1 0.2 mg/L Source: 23H2046-01 Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N 1.5 0.1 mg/L									
Sulfate (SO4) 7.6 0.5 mg/L									
Matrix Spike (BEH1177-MS1)									
Chloride 15.0 0.2 mg/L Source: 23H2046-01 Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N 6.8 0.1 mg/L									
Sulfate (SO4) 12.9 0.5 mg/L									
Reference (BEH1177-SRM1)									
Chloride 12.7 mg/L Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N 10.2 mg/L									
Sulfate (SO4) 10.0 mg/L									
Reference (BEH1177-SRM2)									
Chloride 12.8 mg/L Prepared & Analyzed: 8/24/2023									
Nitrate Nitrogen as NO3N 10.2 mg/L									
Sulfate (SO4) 10.0 mg/L									

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Scheenstra Dairy
PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1191									
Blank (BEH1191-BLK1)									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEH1191-BLK2)									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEH1191-BS1)									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Potassium	37.7	0.500	mg/L	35.71		105	90-110		
Sodium	37	1	mg/L	35.71		104	90-110		
Calcium	38.2	0.1	mg/L	35.71		107	90-110		
Magnesium	37.3	0.1	mg/L	35.71		104	90-110		
LCS (BEH1191-BS2)									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Potassium	37.2	0.500	mg/L	35.71		104	90-110		
Calcium	38.0	0.1	mg/L	35.71		107	90-110		
Sodium	37	1	mg/L	35.71		103	90-110		
Magnesium	37.1	0.1	mg/L	35.71		104	90-110		
Duplicate (BEH1191-DUP1)									
Source: 23H1978-01									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Potassium	3.27	0.500	mg/L		3.03			7.53	15
Sodium	65	1	mg/L		64			1.93	15
Calcium	55.3	0.1	mg/L		53.8			2.71	15
Magnesium	15.8	0.1	mg/L		15.4			2.38	15
Matrix Spike (BEH1191-MS1)									
Source: 23H1978-01									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Sodium	104	1	mg/L	35.71	64	114	90-110		
Potassium	41.7	0.500	mg/L	35.71	3.03	108	90-110		
Calcium	95.3	0.1	mg/L	35.71	53.8	116	90-110		
Magnesium	54.7	0.1	mg/L	35.71	15.4	110	90-110		
Matrix Spike (BEH1191-MS2)									
Source: 23H2056-04									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Calcium	70.7	0.1	mg/L	35.71	33.7	104	90-110		
Sodium	57	1	mg/L	35.71	21	102	90-110		
Potassium	38.4	0.500	mg/L	35.71	1.63	103	90-110		
Magnesium	60.0	0.1	mg/L	35.71	22.9	104	90-110		
Reference (BEH1191-SRM2)									
Prepared: 8/24/2023 Analyzed: 8/28/2023									
Potassium	21.7		mg/L	21.90		99.3	90-110		

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Scheenstra Dairy
PO Box 1077
Tipton, CA 93272

Account# 00-0015833
Account Manager: Ben Nydam
Submitted By: John
Ranch: 16800 Rd 96 Tipton

Received: 08/24/2023 7:11
Reported: 08/29/2023 12:57

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEH1191 (Continued)									
Reference (BEH1191-SRM2)									
Sodium	91		mg/L	91.50	99.5	99.5	90-110		
Reference (BEH1191-SRM3)									
Calcium	49.1		mg/L	45.90	107	107	90-110		
Magnesium	37.2		mg/L	35.60	104	104	90-110		

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08/24/23 07:11

23H2009

MM

WATER WORK REQUESTBill To: 15833 Acct No: 08 Cons.

Purchase Order No. _____ Results Needed By _____

Client: **Scheenstra Dairy**
 Address: P.O. Box 1077
 City, State, Zip: Tipton, CA 93272
 Email: 0

Copy to: solaconsultinginc@gmail.com, Chad@jdsranch.comRequested by/Cell: John (559) 280-0600Facility: 16800 Rd 96 TiptonDate sampled: 8-23-23Sampled by: Moses Barajas DL1
 QA/QC Document Copy of Chain RWQCB
DESCRIPTION OF SAMPLES

1.	DW S Front House	Sampled From: WATERPILOT
2.	Ag Well #9	Sampled From:
3.	Ag Well #10	Sampled From:
4.		Sampled From:
5.		Sampled From:
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Moses Barajas</u>	DL1	8-23-23 12:46pm	2:36PM 8-23-23
Second	<u>MM</u>	DL1	8/24/23 7:11	
Third				
Fourth				

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 attorneys' 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 attorneys' fees of DellaValle Laboratory.

Invoicing Information:**Sola Qrtly 2023**

<i>Shipping</i>			
Sampling Hrs	Miles	Consulting	\$ <u> </u> In
Amt Paid	Rec By	Check No	\$ <u> </u> Out Date

Signature _____

Sample received in cooler with ice?

| Yes | No |

ctt update 2020

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Laboratory



08/24/23 07:11

23H2009

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 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 (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									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic	1									
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
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									
VOA Vials	100 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:									

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, **complete a separate form for each destination.**
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Chad Scheenstra

Name of Dairy Facility: Scheenstra Dairy

Facility Address: <u>PO Box 1077</u>	<u>Tipton</u>	<u>93272</u>
Number and Street	City	Zip Code

Contact Person Name and Phone Number: <u>Chad Scheenstra</u>	<u>559-786-0862</u>
Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Turning Leaf Organics

Address of Hauling Company /Person: <u>14982 Road 152</u>	<u>Tipton</u>	<u>93272</u>
Number and Street	City	Zip Code

Contact Person: <u>Helia Van Beek</u>	<u>559-467-8456</u>
Name	Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

<u>Helia Van Beek</u>	<u>14982 Road 152</u>	<u>Tipton</u>	<u>93272</u>	<u>559-467-8456</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

<u>232-160-003</u>			
<u>Number and Street</u>	<u>City</u>	<u>Zip Code</u>	<u>Assessor's Parcel Number</u>

Dates Hauled: 2/16/23-5/20/23

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 23,056 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): Corral and Separator Manure

Manure Density (if amount reported in cubic yards): _____

Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R
Existing Milk Cow Dairies

Method used to determine amount of manure: Scale

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification E.3 of Reissued Waste Discharge Requirements General Order No. R5-2007-0035-R) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Chad Scheenstra Date: 5/26/23

Hauler's Signature: Helia Van Beek Date: 05/26/2023

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, **complete a separate form for each destination.**
- 3) The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
- 4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: John Scheenstra

Name of Dairy Facility: Scheenstra Dairy

Facility Address: 16800 Rd 96 Tipton 93272
Number and Street City Zip Code

Contact Person Name and Phone Number: John 559-684-9983
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: John & Jacqueline Scheenstra Trust

Address of Hauling Company /Person: PO Box 1077 Tipton 93272
Number and Street City Zip Code

Contact Person: John Scheenstra 559-684-9983
Name Phone Number

Destination Information:

Composting Facility / Broker Farmer Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

John Scheenstra PO Box 1077 Tipton 93272 559-684-9983
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street City Zip Code Assessor's Parcel Number 228-090-004, 013

Dates Hauled: 1-1-23 – 12-31-23

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: _____ Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

D-2

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: 33,000,000 Gallons

Method used to determine volume of process wastewater: Pump Rate _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

X Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Chad Scheenstra Date: 1/8/24

Hauler's Signature: Same Date: 1/8/24