

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: Four Star Dairy

Physical address of dairy:

22401 20 RD Number and Street	Tulare City	Tulare County	93274 Zip Code
----------------------------------	----------------	------------------	-------------------

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

Date facility was originally placed in operation: 10/01/1994

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X018-X232-X050-XXXX	X028-X027-X011-XXXX	X028-X190-X036-XXXX	X028-X270-X010-XXXX	X028-X270-X012-XXXX	X103-X100-X039-XXXX
X155-X220-X004-XXXX	X156-X210-X002-XXXX	X158-X120-X024-XXXX	X226-X020-X012-XXXX		

B. OPERATORS

Mattos, Mario

Operator name: Mattos, Mario	Telephone no.:	(559) 901-4861
	Landline	Cellular
22401 20 RD Mailing Address Number and Street	Tulare City	CA State
		93274 Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Mattos, Mario

Legal owner name: Mattos, Mario	Telephone no.:	(559) 901-4861
	Landline	Cellular
22401 20 RD Mailing Address Number and Street	Tulare City	CA State
		93274 Zip Code

This owner is responsible for paying permit fees.

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

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	2,390	280	390	280	284	0
Number under roof	0	0	0	0	0	0
Maximum number	2,390	280	390	280	284	0
Average number	2,390	280	390	280	284	0
Avg live weight (lbs)	1,400	1,450	900	650		

Predominant milk cow breed: Holstein

Average milk production: 71 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 73,218.85 tons per reporting period

Total nitrogen from manure: 934,421.20 lbs per reporting period

After ammonia losses (30% loss applied): 654,094.84 lbs per reporting period

Total phosphorus from manure: 154,904.98 lbs per reporting period

Total potassium from manure: 459,277.28 lbs per reporting period

Total salt from manure: 1,189,717.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 25,382,700 gallons

Total nitrogen generated: 99,351.58 lbs

<u>25,382,700 gallons applied</u>
+ <u>0 gallons exported</u>
- <u>0 gallons imported</u>
<u>= 25,382,700 gallons generated</u>

Total phosphorus generated: 16,625.04 lbs

Total potassium generated: 119,032.19 lbs

Total salt generated: 767,371.74 lbs

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
P-8	Ground water
P-H1	Ground water

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

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

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

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

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
#1	72	72	0	none	X156-X210-X002-XXXX
#10	44	44	2	both	X028-X270-X012-XXXX
#11	95	95	2	both	X028-X270-X012-XXXX
#12	25	25	2	both	X028-X270-X012-XXXX
#13	56	56	2	both	X028-X270-X012-XXXX
#14	36	36	2	both	X028-X270-X010-XXXX
#19	46	46	2	manure	X018-X232-X050-XXXX
#2	29	29	0	none	X155-X220-X004-XXXX
#20	160	160	0	none	X226-X020-X012-XXXX
#21	20	20	2	manure	X103-X100-X039-XXXX
#3	28	28	0	none	X156-X210-X002-XXXX
#4	80	80	2	both	X156-X210-X002-XXXX
#5	32	32	2	manure	X028-X190-X036-XXXX
#6	38	38	2	both	X028-X190-X036-XXXX
#7	30	30	2	both	X028-X190-X036-XXXX
#8	76	76	2	both	X028-X270-X012-XXXX
#9	61	61	2	both	X028-X270-X012-XXXX
L1	38	38	0	none	X158-X120-X024-XXXX
L2	38	38	0	none	X158-X120-X024-XXXX
L3	42	42	2	manure	X158-X120-X024-XXXX
L4	44	44	2	manure	X158-X120-X024-XXXX
Totals for areas that were used for application	725	725	30		
Totals for areas that were not used for application	365	365	0		
Land application area totals	1,090	1,090	30		

B. CROPS AND HARVESTS

#10

Field name: #10

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

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

#10

11/03/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	713.00 ton	Dry-weight		65.7	17,400.00	3,800.00	19,700.00		9.13

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
--	-------------------	--------------------	--------------------	--------------------	-----------------

Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.20	193.42	42.24	218.99	1,014.92

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	1,184.00 ton	Dry-weight		63.2	12,400.00	2,900.00	20,200.00		7.31

	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	26.91	245.58	57.43	400.06	1,447.75

#11

Field name: #11

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 95 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	1,596.00 ton	Dry-weight		62.5	18,400.00	4,300.00	26,200.00		9.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
--	-------------------	--------------------	--------------------	--------------------	-----------------

Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.80	231.84	54.18	330.12	1,194.48

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

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

#11

06/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 95 Plant date: 06/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	2,727.00 ton	Dry-weight		70.0	12,600.00	2,200.00	13,900.00		5.59

	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	28.71	217.01	37.89	239.40	962.77

#12

Field name: #12

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 (%)
05/02/2023	435.00 ton	Dry-weight		65.8	10,900.00	2,400.00	12,600.00		9.53

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.40	129.73	28.56	149.96	1,134.22

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	725.00 ton	Dry-weight		64.3	10,600.00	2,000.00	15,600.00		6.72

	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	219.48	41.41	323.01	1,391.44

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

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

#13

Field name: #13

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 56 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	974.00 ton	Dry-weight		62.0	14,000.00	2,800.00	15,200.00		8.08

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.39	185.06	37.01	200.92	1,068.06

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 56 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,624.00 ton	Dry-weight		66.8	10,100.00	2,500.00	10,300.00		5.73

	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	194.49	48.14	198.34	1,103.37

#14

Field name: #14

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	637.00 ton	Dry-weight		66.0	14,700.00	2,600.00	14,700.00		8.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.69	176.87	31.28	176.87	1,076.88

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

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

#14

06/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,004.00 ton	Dry-weight		64.5	7,200.00	2,300.00	11,000.00		5.53

	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	60.00
Total actual harvest content	27.89	142.57	45.54	217.81	1,095.00

#19

Field name: #19

11/06/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 46 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	754.00 ton	Dry-weight		63.9	9,400.00	2,000.00	9,100.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.39	111.24	23.67	107.69	769.24

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 46 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	1,320.00 ton	Dry-weight		63.9	9,400.00	2,800.00	17,600.00		7.48

	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	28.70	194.75	58.01	364.64	1,549.73

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

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

#21

Field name: #21

10/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 20 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	336.00 ton	Dry-weight		64.5	12,300.00	2,300.00	10,300.00		8.99

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.80	146.71	27.43	122.86	1,072.33

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	524.00 ton	Dry-weight		66.9	8,800.00	2,200.00	10,900.00		5.06

	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	26.20	152.63	38.16	189.05	877.63

#4

Field name: #4

10/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,442.00 ton	Dry-weight		62.2	10,700.00	2,700.00	8,200.00		8.06

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	18.03	145.81	36.79	111.74	1,098.33

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

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

#4

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	2,191.00 ton	Dry-weight		65.2	8,600.00	2,800.00	17,800.00		6.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.39	163.93	53.37	339.30	1,273.32

#5

Field name: #5

11/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 32 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	608.00 ton	Dry-weight		72.6	16,700.00	3,800.00	13,900.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	19.00	173.88	39.57	144.73	1,155.73

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	922.00 ton	Dry-weight		65.4	10,200.00	2,600.00	17,100.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.81	203.37	51.84	340.94	1,276.05

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

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

#6

Field name: #6

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

Crop: Wheat, silage, soft dough Acres planted: 38 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 (%)
05/02/2023	663.00 ton	Dry-weight		67.1	22,600.00	4,900.00	20,600.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.45	259.46	56.25	236.50	1,193.96

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	1,119.00 ton	Dry-weight		67.5	8,400.00	2,800.00	14,800.00		6.08

	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	29.45	160.78	53.59	283.28	1,163.76

#7

Field name: #7

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

Crop: Wheat, silage, soft dough Acres planted: 30 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 (%)
05/02/2023	540.00 ton	Dry-weight		60.7	17,900.00	4,100.00	16,000.00		9.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	18.00	253.25	58.01	226.37	1,298.79

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

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

#7

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	840.00 <i>ton</i>	Dry-weight		65.5	8,200.00	1,900.00	14,100.00		5.86
		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		28.00 158.42 36.71 272.41				1,132.15			

#8

Field name: #8

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

Crop: Wheat, silage, soft dough Acres planted: 76 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 (%)
05/17/2023	1,315.00 <i>ton</i>	Dry-weight		67.1	13,300.00	3,200.00	11,200.00		7.16
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		18.00 198.00 30.60 149.40				0.00			
Total actual harvest content		17.30 151.42 36.43 127.51				815.18			

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	2,181.00 <i>ton</i>	Dry-weight		70.1	10,100.00	3,100.00	12,600.00		6.13
		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		28.70 173.33 53.20 216.23				1,051.97			

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

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

#9

Field name: #9

10/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 61 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,061.00 ton	Dry-weight		64.3	21,100.00	520.00	25,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.39	262.04	6.46	310.47	1,241.89

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 61 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	1,769.00 ton	Dry-weight		65.7	9,100.00	1,900.00	15,200.00		5.94

	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	181.04	37.80	302.39	1,181.70

L3

Field name: L3

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 42 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	680.00 ton	Dry-weight		64.5	10,600.00	2,400.00	8,200.00		8.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.19	121.85	27.59	94.26	977.10

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

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

L3

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 42 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	1,088.00 <i>ton</i>	Dry-weight		70.5	7,300.00	2,300.00	8,400.00		5.32

	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	60.00
Total actual harvest content	25.90	111.57	35.15	128.38	813.10

L4

Field name: L4

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	761.00 <i>ton</i>	Dry-weight		64.5	9,300.00	2,300.00	8,300.00		8.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.30	114.20	28.24	101.92	1,014.31

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	1,232.00 <i>ton</i>	Dry-weight		67.6	7,800.00	2,300.00	10,700.00		5.62

	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	141.52	41.73	194.14	1,019.69

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

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

#10 - 11/03/2022: Wheat, silage, soft dough

Field name: #10

Crop: Wheat, silage, soft dough Plant date: 11/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/02/2022	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	121.48	46.08	104.34	38.08	352.00 ton
Application event totals		121.48	46.08	104.34	38.08	
12/04/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	63.02	6,390,000.00 gal
Application event totals		0.24	0.00	0.00	63.02	
03/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.40	9.87	80.76	446.28	567,000.00 gal
Canal	Surface water	0.25	0.00	0.00	63.91	6,480,000.00 gal
Application event totals		51.65	9.87	80.76	510.18	
04/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	50.45	9.69	79.26	438.01	556,500.00 gal
Canal	Surface water	0.19	0.00	0.00	50.59	5,130,000.00 gal
Application event totals		50.65	9.69	79.26	488.61	

#10 - 06/22/2023: Corn, silage

Field name: #10

Crop: Corn, silage Plant date: 06/22/2023

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

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

#10 - 06/22/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	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	65.85	18.18	20.60	40.40	440.00 ton
Application event totals		65.85	18.18	20.60	40.40	
06/04/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	66.57	6,750,000.00 gal
Application event totals		0.26	0.00	0.00	66.57	
06/24/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	65.68	6,660,000.00 gal
Application event totals		0.25	0.00	0.00	65.68	
07/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.75	10.90	62.13	413.90	504,000.00 gal
Canal	Surface water	0.26	0.00	0.00	66.57	6,750,000.00 gal
Application event totals		88.01	10.90	62.13	480.47	
08/15/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	15.12	3.70	23.32	242.00	514,500.00 gal
Canal	Surface water	0.18	0.00	0.00	47.93	4,860,000.00 gal
Application event totals		15.31	3.70	23.32	289.93	

#11 - 10/31/2022: Wheat, silage, soft dough

Field name: #11

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

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

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

#11 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/29/2022	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	151.84	57.60	130.42	47.60	950.00 ton
Application event totals		151.84	57.60	130.42	47.60	
02/21/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.84	13,320,000.00 gal
Application event totals		0.23	0.00	0.00	60.84	
03/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.63	14.14	115.68	639.23	1,753,500.00 gal
Canal	Surface water	0.27	0.00	0.00	69.89	15,300,000.00 gal
Application event totals		73.90	14.14	115.68	709.12	

#11 - 06/18/2023: Corn, silage

Field name: #11

Crop: Corn, silage

Plant date: 06/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	65.78	14,400,000.00 gal
Application event totals		0.25	0.00	0.00	65.78	
05/30/2023	Broadcast/incorporate	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
Manure	Corral solids	52.68	14.54	16.48	32.32	760.00 ton
Application event totals		52.68	14.54	16.48	32.32	

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

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

#11 - 06/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/21/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	124.47	15.46	88.13	587.08	1,543,500.00 gal
Canal	Surface water	0.24	0.00	0.00	61.25	13,410,000.00 gal
Application event totals		124.70	15.46	88.13	648.33	
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	19.87	4.86	30.64	317.95	1,459,500.00 gal
Canal	Surface water	0.25	0.00	0.00	63.72	13,950,000.00 gal
Application event totals		20.12	4.86	30.64	381.67	
08/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	68.65	15,030,000.00 gal
Application event totals		0.26	0.00	0.00	68.65	

#12 - 11/25/2022: Wheat, silage, soft dough

Field name:	#12	Plant date:	11/25/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/20/2022	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	Separator solids	73.61	23.52	27.60	102.24	300.00 ton
Application event totals		73.61	23.52	27.60	102.24	

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

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

#12 - 11/25/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/27/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	67.17	3,870,000.00 gal
Application event totals		0.26	0.00	0.00	67.17	
03/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	45.23	8.69	71.07	392.72	283,500.00 gal
Canal	Surface water	0.26	0.00	0.00	68.74	3,960,000.00 gal
Application event totals		45.50	8.69	71.07	461.46	
04/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.21	0.00	0.00	54.68	3,150,000.00 gal
Application event totals		0.21	0.00	0.00	54.68	

#12 - 06/04/2023: Corn, silage

Field name:	#12	Plant date:	06/04/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	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	121.48	46.08	104.34	38.08	200.00 ton
Application event totals		121.48	46.08	104.34	38.08	
05/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	51.55	2,970,000.00 gal
Application event totals		0.20	0.00	0.00	51.55	

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

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

#12 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	68.74	3,960,000.00 gal
Application event totals		0.26	0.00	0.00	68.74	
07/17/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	111.65	13.86	79.05	526.61	364,350.00 gal
Canal	Surface water	0.25	0.00	0.00	66.08	3,807,000.00 gal
Application event totals		111.90	13.86	79.05	592.70	
07/31/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	15.21	3.72	23.45	243.38	294,000.00 gal
Canal	Surface water	0.26	0.00	0.00	67.17	3,870,000.00 gal
Application event totals		15.47	3.72	23.45	310.55	
08/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	51.55	2,970,000.00 gal
Application event totals		0.20	0.00	0.00	51.55	

#13 - 11/15/2022: Wheat, silage, soft dough

Field name: #13

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

#13 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	66.25	8,550,000.00 gal
Application event totals		0.25	0.00	0.00	66.25	
11/13/2022	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	121.48	46.08	104.34	38.08	448.00 ton
Application event totals		121.48	46.08	104.34	38.08	
02/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	35.15	6.75	55.23	305.19	493,500.00 gal
Canal	Surface water	0.19	0.00	0.00	50.21	6,480,000.00 gal
Application event totals		35.35	6.75	55.23	355.41	
04/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	54.60	10.49	85.78	474.02	766,500.00 gal
Canal	Surface water	0.23	0.00	0.00	60.67	7,830,000.00 gal
Application event totals		54.83	10.49	85.78	534.70	
04/22/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.13	0.00	0.00	34.17	4,410,000.00 gal
Application event totals		0.13	0.00	0.00	34.17	

#13 - 06/07/2023: Corn, silage

Field name: #13

Crop: Corn, silage

Plant date: 06/07/2023

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

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

#13 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	69.74	9,000,000.00 gal
Application event totals		0.27	0.00	0.00	69.74	
05/21/2023	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	52.68	14.54	16.48	32.32	448.00 ton
Application event totals		52.68	14.54	16.48	32.32	
06/10/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	101.98	12.66	72.21	481.03	745,500.00 gal
Canal	Surface water	0.26	0.00	0.00	67.65	8,730,000.00 gal
Application event totals		102.24	12.66	72.21	548.68	
07/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	67.65	8,730,000.00 gal
Application event totals		0.26	0.00	0.00	67.65	
08/19/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.46	4.27	26.93	279.39	756,000.00 gal
Canal	Surface water	0.26	0.00	0.00	66.95	8,640,000.00 gal
Application event totals		17.72	4.27	26.93	346.34	

#14 - 10/31/2022: Wheat, silage, soft dough

Field name: #14

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

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

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

#14 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/30/2022	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	121.48	46.08	104.34	38.08	288.00 ton
Application event totals		121.48	46.08	104.34	38.08	
02/01/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	54.68	10.50	27.34	474.74	493,500.00 gal
Canal	Surface water	0.21	0.00	0.00	54.24	4,500,000.00 gal
Application event totals		54.89	10.50	27.34	528.99	
04/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	67.26	5,580,000.00 gal
Application event totals		0.26	0.00	0.00	67.26	

#14 - 06/18/2023: Corn, silage

Field name: #14

Crop: Corn, silage

Plant date: 06/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.75	5,040,000.00 gal
Application event totals		0.23	0.00	0.00	60.75	

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

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

#14 - 06/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/21/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	111.72	11.17	79.10	505.05	525,000.00 gal
Canal	Surface water	0.23	0.00	0.00	59.67	4,950,000.00 gal
Application event totals		111.95	11.17	79.10	564.71	
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.21	0.00	0.00	54.24	4,500,000.00 gal
Application event totals		0.21	0.00	0.00	54.24	
08/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.49	4.52	28.50	295.77	514,500.00 gal
Canal	Surface water	0.23	0.00	0.00	59.67	4,950,000.00 gal
Application event totals		18.72	4.52	28.50	355.44	
09/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	50.99	4,230,000.00 gal
Application event totals		0.20	0.00	0.00	50.99	

#19 - 11/06/2022: Wheat, silage, soft dough

Field name: #19

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

#19 - 11/06/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/04/2022	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	Separator solids	92.02	29.39	34.51	127.80	690.00 ton
Application event totals		92.02	29.39	34.51	127.80	
11/08/2022	Pipeline	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
P-H1	Ground water	0.00	0.00	0.00	0.97	5,328,000.00 gal
Application event totals		0.00	0.00	0.00	0.97	
03/08/2023	Pipeline	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
P-H1	Ground water	0.00	0.00	0.00	1.24	6,840,000.00 gal
Application event totals		0.00	0.00	0.00	1.24	
04/07/2023	Pipeline	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
P-H1	Ground water	0.00	0.00	0.00	0.97	5,328,000.00 gal
Application event totals		0.00	0.00	0.00	0.97	

#19 - 06/01/2023: Corn, silage

Field name: #19

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	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	Separator solids	110.42	35.27	41.41	153.36	828.00 ton
Application event totals		110.42	35.27	41.41	153.36	

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

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

#19 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-H1	Ground water	0.00	0.00	0.00	1.23	6,768,000.00 gal
Application event totals		0.00	0.00	0.00	1.23	
06/04/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-H1	Ground water	0.00	0.00	0.00	1.25	6,912,000.00 gal
Application event totals		0.00	0.00	0.00	1.25	
06/23/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-H1	Ground water	0.00	0.00	0.00	1.27	6,984,000.00 gal
Application event totals		0.00	0.00	0.00	1.27	
07/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-H1	Ground water	0.00	0.00	0.00	1.27	6,984,000.00 gal
Application event totals		0.00	0.00	0.00	1.27	
08/07/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-H1	Ground water	0.00	0.00	0.00	1.29	7,128,000.00 gal
Application event totals		0.00	0.00	0.00	1.29	

#21 - 10/29/2022: Wheat, silage, soft dough

Field name: #21

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

#21 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/28/2022	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	182.21	69.12	156.51	57.12	240.00 ton
Application event totals		182.21	69.12	156.51	57.12	
10/31/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.19	0.00	0.00	48.82	2,250,000.00 gal
Application event totals		0.19	0.00	0.00	48.82	
04/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.44	2,970,000.00 gal
Application event totals		0.25	0.00	0.00	64.44	

#21 - 06/05/2023: Corn, silage

Field name: #21

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	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	79.02	21.82	24.72	48.48	240.00 ton
Application event totals		79.02	21.82	24.72	48.48	
05/22/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.53	2,790,000.00 gal
Application event totals		0.23	0.00	0.00	60.53	

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

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

#21 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.49	2,880,000.00 gal
Application event totals		0.24	0.00	0.00	62.49	
06/24/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.53	2,790,000.00 gal
Application event totals		0.23	0.00	0.00	60.53	
07/20/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.21	0.00	0.00	54.68	2,520,000.00 gal
Application event totals		0.21	0.00	0.00	54.68	
08/13/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.49	2,880,000.00 gal
Application event totals		0.24	0.00	0.00	62.49	

#4 - 10/30/2022: Wheat, silage, soft dough

Field name: #4

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/28/2022	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	119.58	45.36	102.71	37.49	630.00 ton
Application event totals		119.58	45.36	102.71	37.49	

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

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

#4 - 10/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	49.74	9.55	78.14	431.81	997,500.00 gal
Canal	Surface water	0.23	0.00	0.00	60.53	11,160,000.00 gal
Application event totals		49.97	9.55	78.14	492.35	
03/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	61.02	11,250,000.00 gal
Application event totals		0.23	0.00	0.00	61.02	
04/20/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.05	11,070,000.00 gal
Application event totals		0.23	0.00	0.00	60.05	

#4 - 06/02/2023: Corn, silage

Field name: #4

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	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	Separator solids	60.42	19.30	22.66	83.92	788.00 ton
Application event totals		60.42	19.30	22.66	83.92	
05/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	66.88	12,330,000.00 gal
Application event totals		0.26	0.00	0.00	66.88	

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

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

#4 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/03/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	120.35	14.95	85.22	567.69	1,256,850.00 gal
Canal	Surface water	0.24	0.00	0.00	62.00	11,430,000.00 gal
Application event totals		120.59	14.95	85.22	629.68	
07/06/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	15.96	3.90	24.61	255.33	987,000.00 gal
Canal	Surface water	0.22	0.00	0.00	58.29	10,746,000.00 gal
Application event totals		16.18	3.90	24.61	313.62	
07/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.22	0.00	0.00	58.29	10,746,000.00 gal
Application event totals		0.22	0.00	0.00	58.29	
08/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.00	11,430,000.00 gal
Application event totals		0.24	0.00	0.00	62.00	

#5 - 11/20/2022: Wheat, silage, soft dough

Field name: #5

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

#5 - 11/20/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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	151.84	57.60	130.42	47.60	320.00 ton
Application event totals		151.84	57.60	130.42	47.60	
11/22/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.24	4,590,000.00 gal
Application event totals		0.24	0.00	0.00	62.24	
03/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.24	4,590,000.00 gal
Application event totals		0.24	0.00	0.00	62.24	
04/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.68	4,770,000.00 gal
Application event totals		0.25	0.00	0.00	64.68	

#5 - 06/09/2023: Corn, silage

Field name: #5

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	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	151.84	57.60	130.42	47.60	320.00 ton
Application event totals		151.84	57.60	130.42	47.60	

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

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

#5 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.68	4,770,000.00 gal
Application event totals		0.25	0.00	0.00	64.68	
06/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.68	4,770,000.00 gal
Application event totals		0.25	0.00	0.00	64.68	
07/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.68	4,770,000.00 gal
Application event totals		0.25	0.00	0.00	64.68	
07/29/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	61.02	4,500,000.00 gal
Application event totals		0.23	0.00	0.00	61.02	
08/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	63.46	4,680,000.00 gal
Application event totals		0.24	0.00	0.00	63.46	

#6 - 11/24/2022: Wheat, silage, soft dough

Field name: #6

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

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

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

#6 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/20/2022	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	124.67	47.29	107.08	39.08	312.00 ton
Application event totals		124.67	47.29	107.08	39.08	
11/25/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.33	14.51	91.48	949.27	1,743,000.00 gal
Canal	Surface water	0.20	0.00	0.00	52.42	4,590,000.00 gal
Application event totals		59.53	14.51	91.48	1,001.69	
03/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.19	0.00	0.00	49.33	4,320,000.00 gal
Application event totals		0.19	0.00	0.00	49.33	
04/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.23	4.46	28.11	291.64	535,500.00 gal
Canal	Surface water	0.24	0.00	0.00	61.67	5,400,000.00 gal
Application event totals		18.46	4.46	28.11	353.31	

#6 - 06/04/2023: Corn, silage

Field name: #6

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

#6 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	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	155.84	59.11	133.86	48.85	390.00 ton
Application event totals		155.84	59.11	133.86	48.85	
05/16/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	69.89	6,120,000.00 gal
Application event totals		0.27	0.00	0.00	69.89	
06/06/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	17.87	4.37	27.55	285.93	525,000.00 gal
Canal	Surface water	0.23	0.00	0.00	60.64	5,310,000.00 gal
Application event totals		18.10	4.37	27.55	346.56	
07/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	18.59	4.54	28.66	297.36	546,000.00 gal
Canal	Surface water	0.23	0.00	0.00	60.64	5,310,000.00 gal
Application event totals		18.82	4.54	28.66	358.00	
08/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.22	0.00	0.00	56.53	4,950,000.00 gal
Application event totals		0.22	0.00	0.00	56.53	

#7 - 11/24/2022: Wheat, silage, soft dough

Field name: #7

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022

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

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

#7 - 11/24/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/20/2022	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	121.48	46.08	104.34	38.08	240.00 ton
Application event totals		121.48	46.08	104.34	38.08	
11/25/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	69.00	4,770,000.00 gal
Application event totals		0.27	0.00	0.00	69.00	
03/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	139.61	26.81	219.35	1,212.11	1,050,000.00 gal
Canal	Surface water	0.24	0.00	0.00	62.49	4,320,000.00 gal
Application event totals		139.85	26.81	219.35	1,274.60	
04/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	61.19	4,230,000.00 gal
Application event totals		0.24	0.00	0.00	61.19	

#7 - 06/05/2023: Corn, silage

Field name:	#7	Plant date:	06/05/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/17/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	63.79	4,410,000.00 gal
Application event totals		0.25	0.00	0.00	63.79	

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

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

#7 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	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	52.68	14.54	16.48	32.32	240.00 ton
Application event totals		52.68	14.54	16.48	32.32	
06/20/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.93	15.77	153.78	645.34	472,500.00 gal
Canal	Surface water	0.24	0.00	0.00	61.19	4,230,000.00 gal
Application event totals		83.17	15.77	153.78	706.53	
07/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	69.00	4,770,000.00 gal
Application event totals		0.27	0.00	0.00	69.00	
07/31/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	20.37	4.98	31.41	325.96	472,500.00 gal
Canal	Surface water	0.24	0.00	0.00	61.19	4,230,000.00 gal
Application event totals		20.61	4.98	31.41	387.14	
08/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	63.79	4,410,000.00 gal
Application event totals		0.25	0.00	0.00	63.79	

#8 - 11/25/2022: Wheat, silage, soft dough

Field name: #8

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

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

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

#8 - 11/25/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manurec	Corral solids	121.48	46.08	104.34	38.08	608.00 ton
Application event totals		121.48	46.08	104.34	38.08	
02/04/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	68.86	12,060,000.00 gal
Application event totals		0.26	0.00	0.00	68.86	
03/17/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	21.62	5.29	33.34	345.97	1,270,500.00 gal
Canal	Surface water	0.27	0.00	0.00	70.40	12,330,000.00 gal
Application event totals		21.89	5.29	33.34	416.37	

#8 - 06/19/2023: Corn, silage

Field name: #8

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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	65.85	18.18	20.60	40.40	760.00 ton
Application event totals		65.85	18.18	20.60	40.40	
06/01/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	61.15	10,710,000.00 gal
Application event totals		0.24	0.00	0.00	61.15	

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

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

#8 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/10/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.57	13.42	130.85	549.10	1,018,500.00 gal
Canal	Surface water	0.24	0.00	0.00	62.69	10,980,000.00 gal
Application event totals		70.81	13.42	130.85	611.80	
08/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.02	0.00	0.00	5.60	981,000.00 gal
Application event totals		0.02	0.00	0.00	5.60	
08/14/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.08	0.00	0.00	20.04	3,510,000.00 gal
Application event totals		0.08	0.00	0.00	20.04	
09/01/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	50.87	8,910,000.00 gal
Application event totals		0.20	0.00	0.00	50.87	

#9 - 10/30/2022: Wheat, silage, soft dough

Field name: #9

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/28/2022	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	151.84	57.60	130.42	47.60	610.00 ton
Application event totals		151.84	57.60	130.42	47.60	

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

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

#9 - 10/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/01/2022	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.19	0.00	0.00	49.94	7,020,000.00 gal
Application event totals		0.19	0.00	0.00	49.94	
03/04/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	50.12	9.63	78.75	435.17	766,500.00 gal
Canal	Surface water	0.24	0.00	0.00	63.38	8,910,000.00 gal
Application event totals		50.37	9.63	78.75	498.55	
04/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	61.46	8,640,000.00 gal
Application event totals		0.24	0.00	0.00	61.46	

#9 - 06/10/2023: Corn, silage

Field name: #9

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/24/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	39.51	10.91	12.36	24.24	366.00 ton
Application event totals		39.51	10.91	12.36	24.24	
05/25/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	62.74	8,820,000.00 gal
Application event totals		0.24	0.00	0.00	62.74	

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

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

#9 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	60.82	8,550,000.00 gal
Application event totals		0.23	0.00	0.00	60.82	
07/18/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.89	13.10	127.73	536.02	798,000.00 gal
Canal	Surface water	0.24	0.00	0.00	62.10	8,730,000.00 gal
Application event totals		69.12	13.10	127.73	598.12	
08/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	101.54	12.61	71.89	478.92	808,500.00 gal
Canal	Surface water	0.25	0.00	0.00	64.66	9,090,000.00 gal
Application event totals		101.78	12.61	71.89	543.59	
08/30/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.13	0.00	0.00	32.65	4,590,000.00 gal
Application event totals		0.13	0.00	0.00	32.65	

L3 - 11/28/2022: Wheat, silage, soft dough

Field name: L3

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

L3 - 11/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/26/2022	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	Separator solids	110.42	35.27	41.41	153.36	756.00 ton
Application event totals		110.42	35.27	41.41	153.36	
01/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.03	0.00	0.00	6.88	666,000.00 gal
Application event totals		0.03	0.00	0.00	6.88	
04/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	66.02	6,390,000.00 gal
Application event totals		0.25	0.00	0.00	66.02	

L3 - 06/10/2023: Corn, silage

Field name: L3

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	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	Separator solids	92.02	29.39	34.51	127.80	630.00 ton
Application event totals		92.02	29.39	34.51	127.80	
05/26/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	66.02	6,390,000.00 gal
Application event totals		0.25	0.00	0.00	66.02	

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

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

L3 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/11/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	67.88	6,570,000.00 gal
Application event totals		0.26	0.00	0.00	67.88	
07/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	66.95	6,480,000.00 gal
Application event totals		0.26	0.00	0.00	66.95	
08/06/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	68.81	6,660,000.00 gal
Application event totals		0.26	0.00	0.00	68.81	
08/28/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	67.88	6,570,000.00 gal
Application event totals		0.26	0.00	0.00	67.88	

L4 - 11/28/2022: Wheat, silage, soft dough

Field name: L4

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/26/2022	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	Separator solids	92.02	29.39	34.51	127.80	660.00 ton
Application event totals		92.02	29.39	34.51	127.80	

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

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

L4 - 11/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/29/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	65.42	6,633,000.00 gal
Application event totals		0.25	0.00	0.00	65.42	
04/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	63.64	6,453,000.00 gal
Application event totals		0.24	0.00	0.00	63.64	

L4 - 06/10/2023: Corn, silage

Field name: L4

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Separator solids	85.88	27.43	32.21	119.28	616.00 ton
Application event totals		85.88	27.43	32.21	119.28	
05/26/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.03	0.00	0.00	6.57	666,000.00 gal
Application event totals		0.03	0.00	0.00	6.57	
06/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.80	6,570,000.00 gal
Application event totals		0.25	0.00	0.00	64.80	

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

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

L4 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/08/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	63.02	6,390,000.00 gal
Application event totals		0.24	0.00	0.00	63.02	
08/06/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	63.91	6,480,000.00 gal
Application event totals		0.25	0.00	0.00	63.91	
08/28/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	64.80	6,570,000.00 gal
Application event totals		0.25	0.00	0.00	64.80	

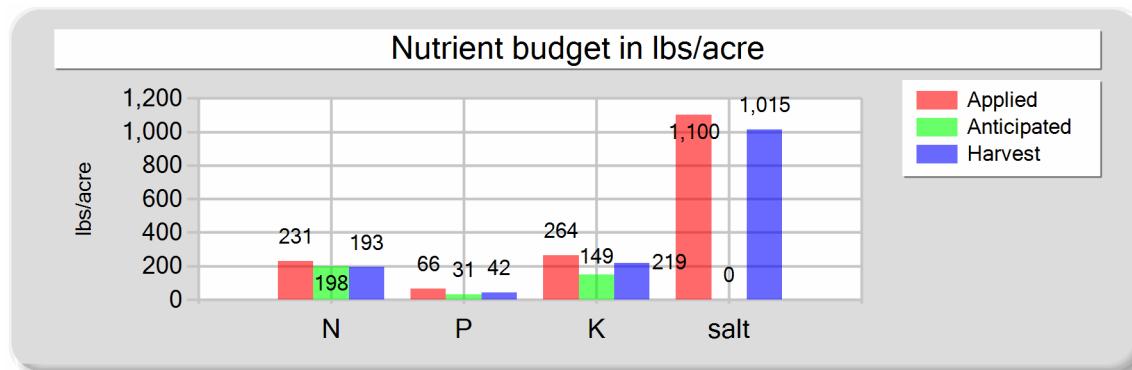
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

#10 - 11/03/2022: Wheat, silage, soft dough

Field name: #10	Crop: Wheat, silage, soft dough	Plant date: 11/03/2022
-----------------	---------------------------------	------------------------



	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	18,000,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	662.88 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.07 inches/acre
Dry manure	121.48	46.08	104.34	38.08	
Process wastewater	101.85	19.56	160.02	884.29	
Fresh water	0.68	0.00	0.00	177.52	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	231.01	65.64	264.36	1,099.89	Process wastewater applied
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	1,123,500.00 gallons
Actual crop nutrient removal	193.42	42.24	218.99	1,014.92	41.37 acre-inches
Nutrient balance	37.59	23.40	45.37	84.97	0.94 inches/acre
Applied to removed ratio	1.19	1.55	1.21	1.08	Total harvests for the crop
					1 harvests

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

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

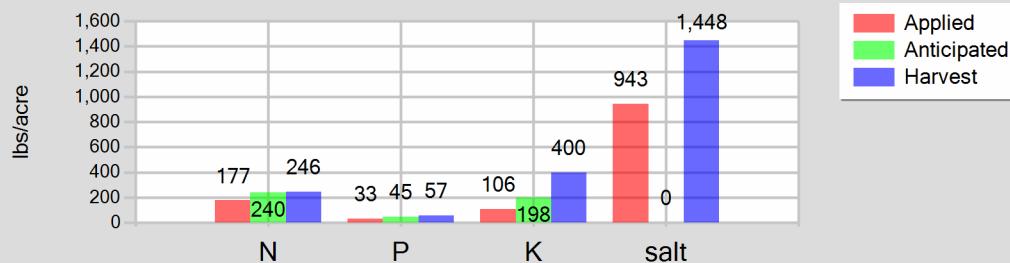
#10 - 06/22/2023: Corn, silage

Field name: #10

Crop: Corn, silage

Plant date: 06/22/2023

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	25,020,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	921.40 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.94 inches/acre
Dry manure	65.85	18.18	20.60	40.40	
Process wastewater	102.87	14.60	85.45	655.89	1,018,500.00 gallons
Fresh water	0.95	0.00	0.00	246.75	37.51 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.85 inches/acre
Total nutrients applied	176.68	32.78	106.06	943.05	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	245.58	57.43	400.06	1,447.75	
Nutrient balance	-68.91	-24.66	-294.00	-504.70	
Applied to removed ratio	0.72	0.57	0.27	0.65	
Total harvests for the crop					1 harvests

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

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

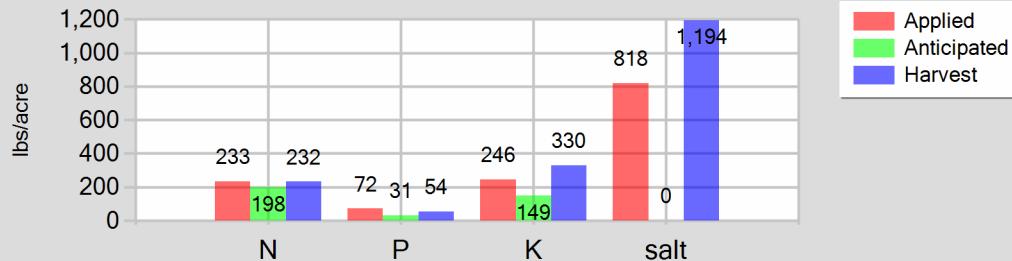
#11 - 10/31/2022: Wheat, silage, soft dough

Field name: #11

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

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	151.84	57.60	130.42	47.60
Process wastewater	73.63	14.14	115.68	639.23
Fresh water	0.50	0.00	0.00	130.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	232.97	71.74	246.10	817.56
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	231.84	54.18	330.12	1,194.48
Nutrient balance	1.13	17.56	-84.02	-376.92
Applied to removed ratio	1.00	1.32	0.75	0.68

Fresh water applied

28,620,000.00 gallons
1,053.98 acre-inches
11.09 inches/acre

Process wastewater applied

1,753,500.00 gallons
64.58 acre-inches
0.68 inches/acre

Total harvests for the crop

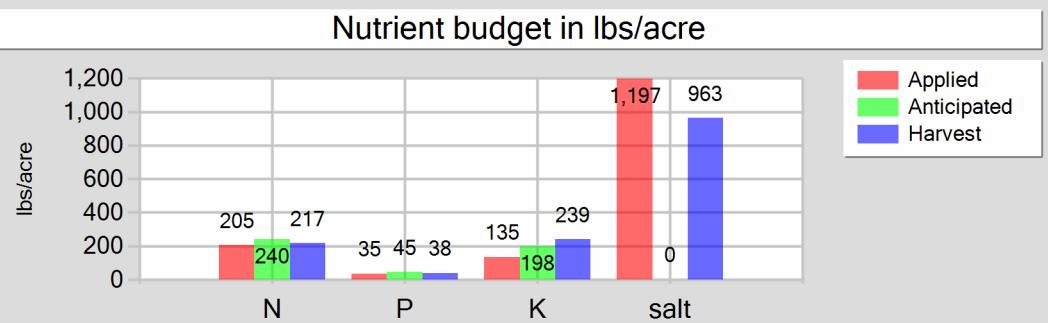
1 harvests

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

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

#11 - 06/18/2023: Corn, silage

Field name: #11 Crop: Corn, silage Plant date: 06/18/2023



	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	56,790,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,091.38 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	22.01 inches/acre
Dry manure	52.68	14.54	16.48	32.32	
Process wastewater	144.34	20.32	118.77	905.03	3,003,000.00 gallons
Fresh water	1.00	0.00	0.00	259.40	110.59 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.16 inches/acre
Total nutrients applied	205.02	34.86	135.25	1,196.75	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	217.01	37.89	239.40	962.77	
Nutrient balance	-11.99	-3.03	-104.15	233.98	
Applied to removed ratio	0.94	0.92	0.56	1.24	
Total harvests for the crop					1 harvests

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

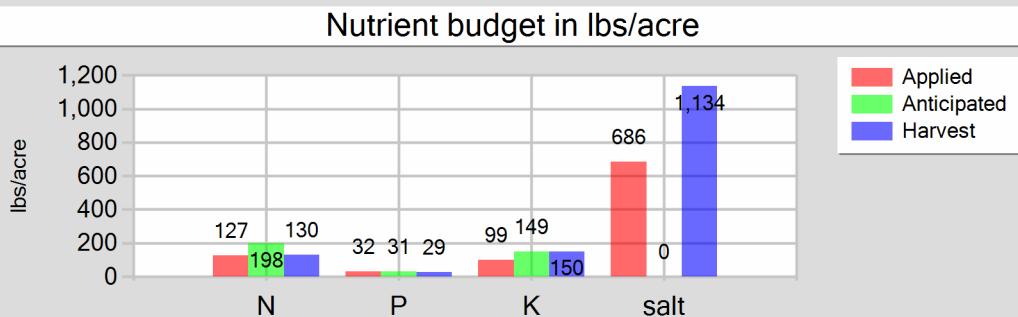
Reporting period 01/01/2023 to 12/31/2023.

#12 - 11/25/2022: Wheat, silage, soft dough

Field name: #12

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	73.61	23.52	27.60	102.24
Process wastewater	45.23	8.69	71.07	392.72
Fresh water	0.73	0.00	0.00	190.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	126.58	32.20	98.67	685.55
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	129.73	28.56	149.96	1,134.22
Nutrient balance	-3.15	3.64	-51.29	-448.67
Applied to removed ratio	0.98	1.13	0.66	0.60

Fresh water applied

10,980,000.00 gallons
404.36 acre-inches
16.17 inches/acre

Process wastewater applied

283,500.00 gallons
10.44 acre-inches
0.42 inches/acre

Total harvests for the crop

1 harvests

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

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

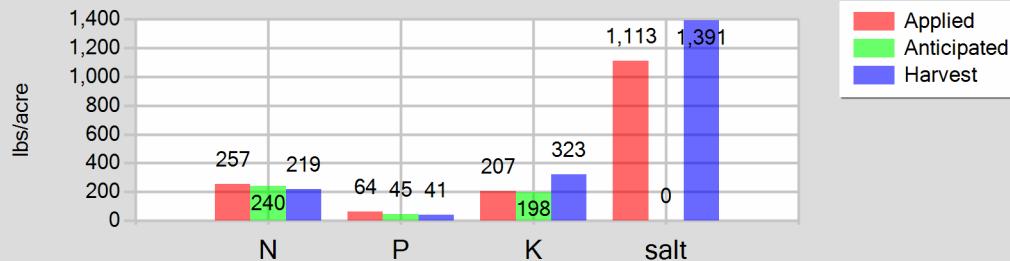
#12 - 06/04/2023: Corn, silage

Field name: #12

Crop: Corn, silage

Plant date: 06/04/2023

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	121.48	46.08	104.34	38.08
Process wastewater	126.86	17.58	102.51	769.99
Fresh water	1.17	0.00	0.00	305.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.51	63.66	206.85	1,113.17
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	219.48	41.41	323.01	1,391.44
Nutrient balance	37.02	22.25	-116.17	-278.27
Applied to removed ratio	1.17	1.54	0.64	0.80

Fresh water applied

17,577,000.00 gallons
647.30 acre-inches
25.89 inches/acre

Process wastewater applied

658,350.00 gallons
24.24 acre-inches
0.97 inches/acre

Total harvests for the crop

1 harvests

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

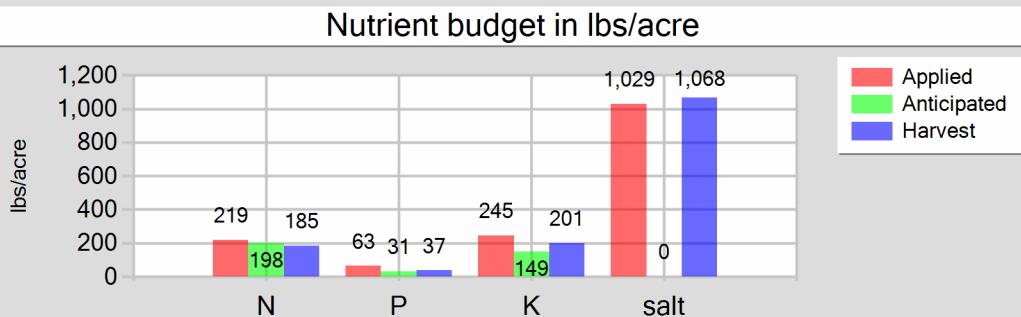
Reporting period 01/01/2023 to 12/31/2023.

#13 - 11/15/2022: Wheat, silage, soft dough

Field name: #13

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	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	27,270,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,004.26 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.93 inches/acre
Dry manure	121.48	46.08	104.34	38.08	
Process wastewater	89.75	17.24	141.01	779.21	1,260,000.00 gallons
Fresh water	0.81	0.00	0.00	211.31	46.40 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.83 inches/acre
Total nutrients applied	219.04	63.31	245.35	1,028.61	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	185.06	37.01	200.92	1,068.06	
Nutrient balance	33.98	26.30	44.43	-39.45	
Applied to removed ratio	1.18	1.71	1.22	0.96	
Total harvests for the crop					1 harvests

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

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

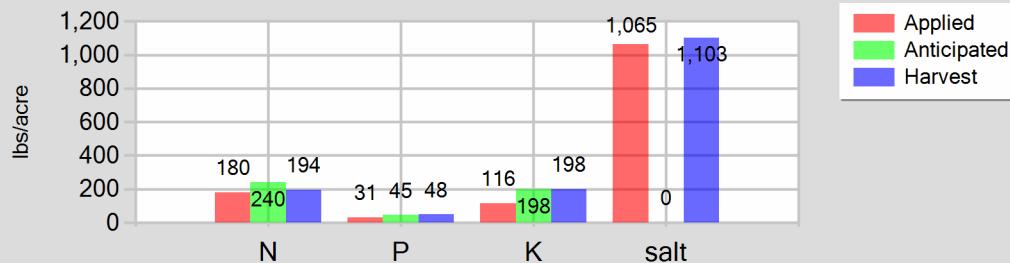
#13 - 06/07/2023: Corn, silage

Field name: #13

Crop: Corn, silage

Plant date: 06/07/2023

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	52.68	14.54	16.48	32.32
Process wastewater	119.45	16.93	99.14	760.42
Fresh water	1.05	0.00	0.00	271.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	180.17	31.48	115.62	1,064.73
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	194.49	48.14	198.34	1,103.37
Nutrient balance	-14.31	-16.66	-82.72	-38.64
Applied to removed ratio	0.93	0.65	0.58	0.96

Fresh water applied

35,100,000.00 gallons
1,292.61 acre-inches
23.08 inches/acre

Process wastewater applied

1,501,500.00 gallons
55.30 acre-inches
0.99 inches/acre

Total harvests for the crop

1 harvests

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

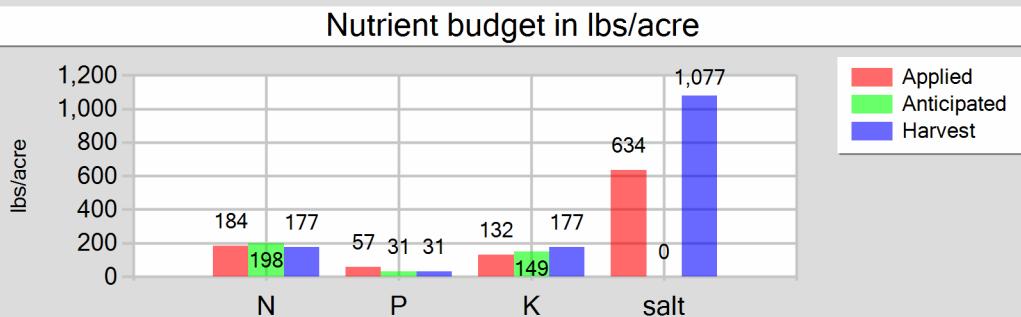
Reporting period 01/01/2023 to 12/31/2023.

#14 - 10/31/2022: Wheat, silage, soft dough

Field name: #14

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	10,080,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	371.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.31 inches/acre
Dry manure	121.48	46.08	104.34	38.08	
Process wastewater	54.68	10.50	27.34	474.74	Process wastewater applied
Fresh water	0.47	0.00	0.00	121.50	493,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	18.17 acre-inches
Total nutrients applied	183.62	56.58	131.68	634.33	0.50 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	176.87	31.28	176.87	1,076.88	Total harvests for the crop
Nutrient balance	6.75	25.29	-45.19	-442.56	1 harvests
Applied to removed ratio	1.04	1.81	0.74	0.59	

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

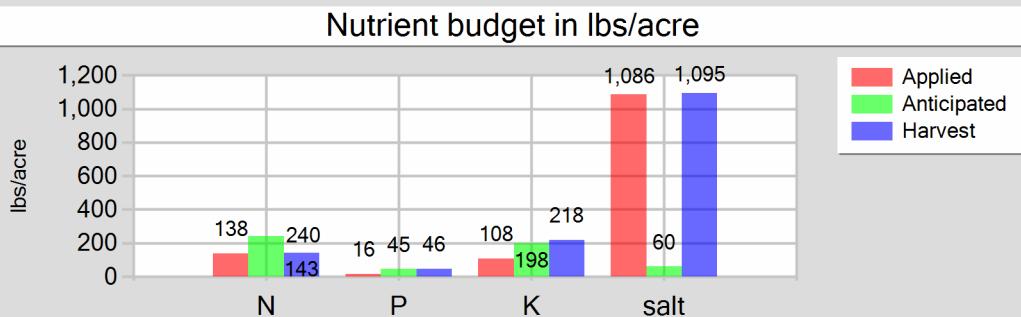
Reporting period 01/01/2023 to 12/31/2023.

#14 - 06/18/2023: Corn, silage

Field name: #14

Crop: Corn, silage

Plant date: 06/18/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	130.20	15.69	107.61	800.82
Fresh water	1.10	0.00	0.00	285.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	138.30	15.69	107.61	1,086.14
Anticipated crop nutrient removal	240.00	45.00	198.00	60.00
Actual crop nutrient removal	142.57	45.54	217.81	1,095.00
Nutrient balance	-4.27	-29.85	-110.20	-8.86
Applied to removed ratio	0.97	0.34	0.49	0.99

Fresh water applied

23,670,000.00 gallons
871.69 acre-inches
24.21 inches/acre

Process wastewater applied

1,039,500.00 gallons
38.28 acre-inches
1.06 inches/acre

Total harvests for the crop

1 harvests

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

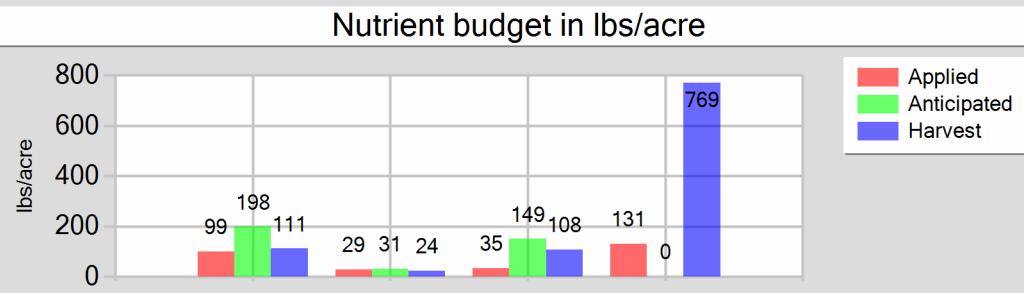
Reporting period 01/01/2023 to 12/31/2023.

#19 - 11/06/2022: Wheat, silage, soft dough

Field name: #19

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022



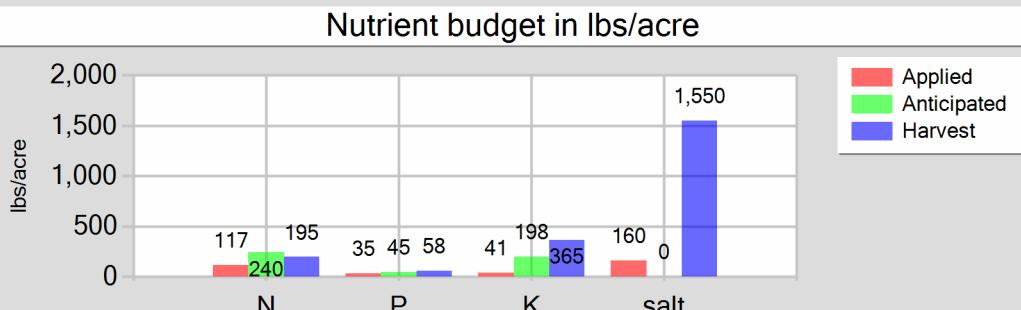
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	17,496,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	644.32 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.01 inches/acre
Dry manure	92.02	29.39	34.51	127.80	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	3.17	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	99.02	29.39	34.51	130.97	Process wastewater applied
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	0.00 gallons
Actual crop nutrient removal	111.24	23.67	107.69	769.24	0.00 acre-inches
Nutrient balance	-12.23	5.72	-73.19	-638.27	0.00 inches/acre
Applied to removed ratio	0.89	1.24	0.32	0.17	Total harvests for the crop
					1 harvests

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

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

#19 - 06/01/2023: Corn, silage

Field name: #19 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	110.42	35.27	41.41	153.36
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	6.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	117.42	35.27	41.41	159.67
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	194.75	58.01	364.64	1,549.73
Nutrient balance	-77.33	-22.74	-323.23	-1,390.06
Applied to removed ratio	0.60	0.61	0.11	0.10

Fresh water applied
34,776,000.00 gallons
1,280.68 acre-inches
27.84 inches/acre

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

Total harvests for the crop
1 harvests

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

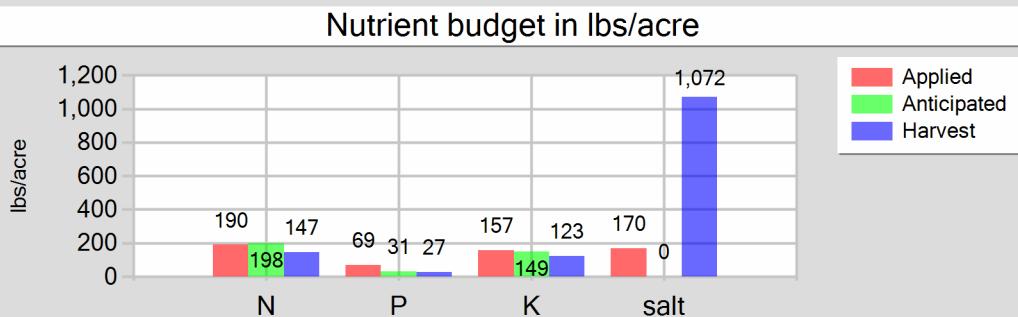
Reporting period 01/01/2023 to 12/31/2023.

#21 - 10/29/2022: Wheat, silage, soft dough

Field name: #21

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022



	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	5,220,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	192.23 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.61 inches/acre
Dry manure	182.21	69.12	156.51	57.12	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.44	0.00	0.00	113.26	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	189.65	69.12	156.51	170.38	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	146.71	27.43	122.86	1,072.33	
Nutrient balance	42.93	41.68	33.65	-901.95	
Applied to removed ratio	1.29	2.52	1.27	0.16	
Total harvests for the crop					1 harvests

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

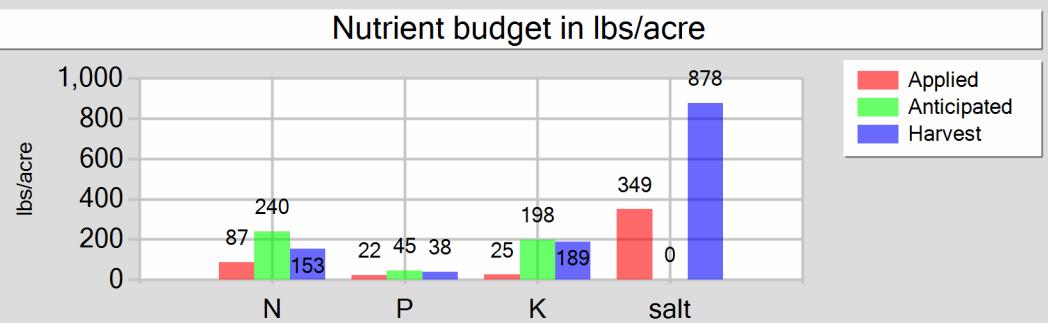
Reporting period 01/01/2023 to 12/31/2023.

#21 - 06/05/2023: Corn, silage

Field name: #21

Crop: Corn, silage

Plant date: 06/05/2023



	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	79.02	21.82	24.72	48.48
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.16	0.00	0.00	300.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	87.18	21.82	24.72	349.20
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	152.63	38.16	189.05	877.63
Nutrient balance	-65.45	-16.34	-164.33	-528.43
Applied to removed ratio	0.57	0.57	0.13	0.40

Fresh water applied

13,860,000.00 gallons
510.42 acre-inches
25.52 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

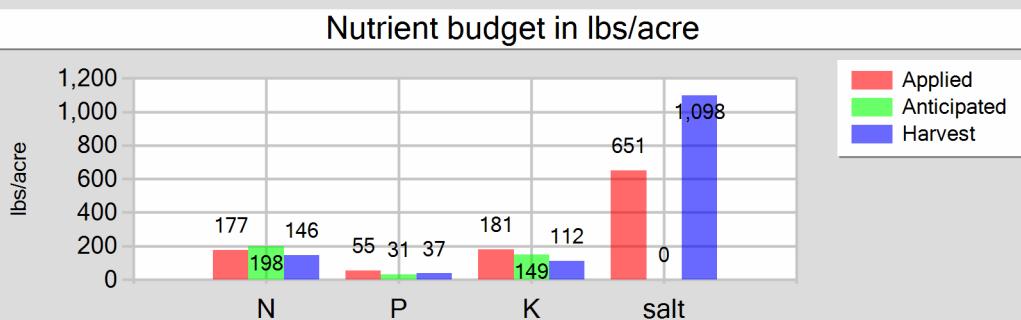
Reporting period 01/01/2023 to 12/31/2023.

#4 - 10/30/2022: Wheat, silage, soft dough

Field name: #4

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022



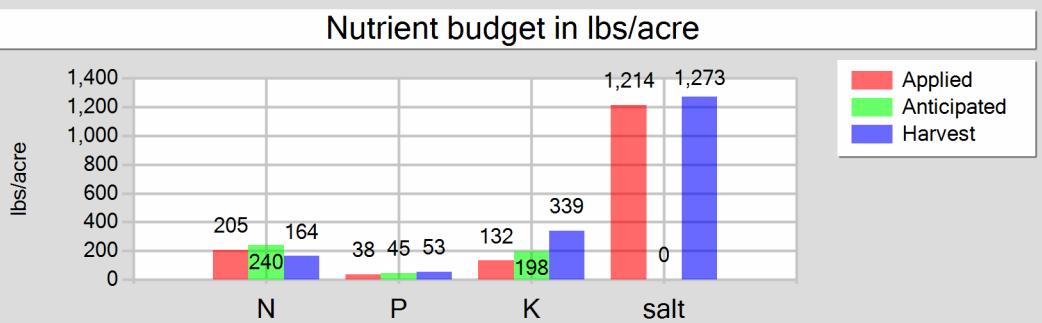
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	33,480,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,232.95 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.41 inches/acre
Dry manure	119.58	45.36	102.71	37.49	
Process wastewater	49.74	9.55	78.14	431.81	997,500.00 gallons
Fresh water	0.70	0.00	0.00	181.60	36.73 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.46 inches/acre
Total nutrients applied	177.01	54.91	180.85	650.90	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	145.81	36.79	111.74	1,098.33	
Nutrient balance	31.20	18.12	69.11	-447.42	
Applied to removed ratio	1.21	1.49	1.62	0.59	
Total harvests for the crop					1 harvests

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

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

#4 - 06/02/2023: Corn, silage

Field name: #4 Crop: Corn, silage Plant date: 06/02/2023



	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	60.42	19.30	22.66	83.92
Process wastewater	136.31	18.85	109.82	823.02
Fresh water	1.18	0.00	0.00	307.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	204.92	38.15	132.48	1,214.40
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	163.93	53.37	339.30	1,273.32
Nutrient balance	40.99	-15.22	-206.81	-58.92
Applied to removed ratio	1.25	0.71	0.39	0.95

Fresh water applied
56,682,000.00 gallons
2,087.41 acre-inches
26.09 inches/acre

Process wastewater applied
2,243,850.00 gallons
82.63 acre-inches
1.03 inches/acre

Total harvests for the crop
1 harvests

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

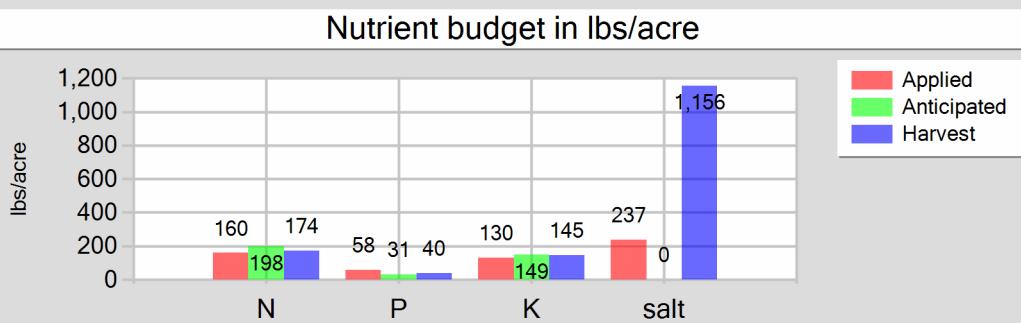
Reporting period 01/01/2023 to 12/31/2023.

#5 - 11/20/2022: Wheat, silage, soft dough

Field name: #5

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022



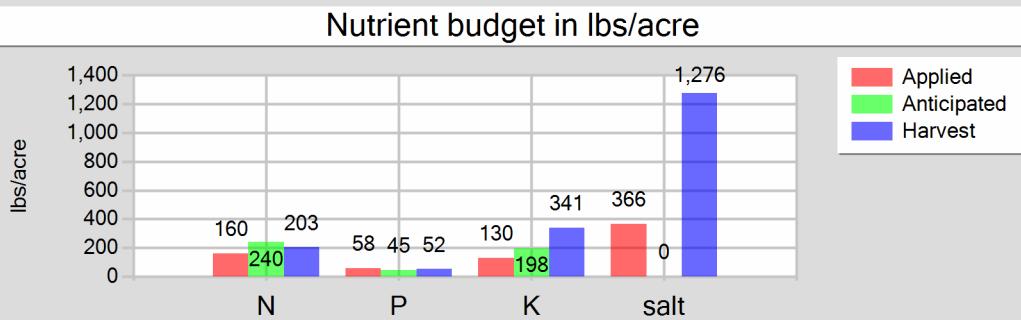
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	13,950,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	513.73 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.05 inches/acre
Dry manure	151.84	57.60	130.42	47.60	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.73	0.00	0.00	189.17	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	159.57	57.60	130.42	236.77	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	173.88	39.57	144.73	1,155.73	
Nutrient balance	-14.31	18.03	-14.30	-918.96	
Applied to removed ratio	0.92	1.46	0.90	0.20	
Total harvests for the crop					1 harvests

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

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

#5 - 06/09/2023: Corn, silage

Field name: #5 Crop: Corn, silage Plant date: 06/09/2023



	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	151.84	57.60	130.42	47.60
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.23	0.00	0.00	318.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.07	57.60	130.42	366.14
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	203.37	51.84	340.94	1,276.05
Nutrient balance	-43.30	5.76	-210.52	-909.91
Applied to removed ratio	0.79	1.11	0.38	0.29

Fresh water applied
23,490,000.00 gallons
865.06 acre-inches
27.03 inches/acre

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

Total harvests for the crop
1 harvests

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

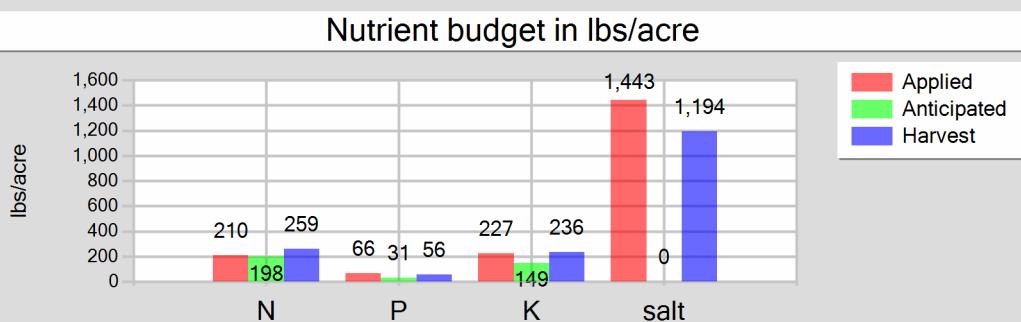
Reporting period 01/01/2023 to 12/31/2023.

#6 - 11/24/2022: Wheat, silage, soft dough

Field name: #6

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



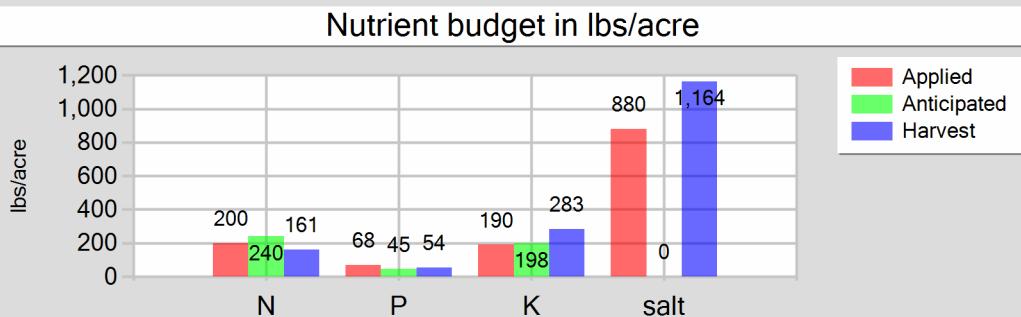
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	14,310,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	526.99 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.87 inches/acre
Dry manure	124.67	47.29	107.08	39.08	
Process wastewater	77.56	18.96	119.59	1,240.92	Process wastewater applied
Fresh water	0.63	0.00	0.00	163.41	2,278,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	83.91 acre-inches
Total nutrients applied	209.86	66.25	226.67	1,443.41	2.21 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	259.46	56.25	236.50	1,193.96	Total harvests for the crop
Nutrient balance	-49.60	10.00	-9.82	249.46	1 harvests
Applied to removed ratio	0.81	1.18	0.96	1.21	

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

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

#6 - 06/04/2023: Corn, silage

Field name: #6 Crop: Corn, silage Plant date: 06/04/2023



	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	155.84	59.11	133.86	48.85
Process wastewater	36.46	8.91	56.21	583.29
Fresh water	0.95	0.00	0.00	247.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.25	68.03	190.07	879.83
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	160.78	53.59	283.28	1,163.76
Nutrient balance	39.47	14.43	-93.22	-283.93
Applied to removed ratio	1.25	1.27	0.67	0.76

Fresh water applied
21,690,000.00 gallons
798.77 acre-inches
21.02 inches/acre

Process wastewater applied
1,071,000.00 gallons
39.44 acre-inches
1.04 inches/acre

Total harvests for the crop
1 harvests

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

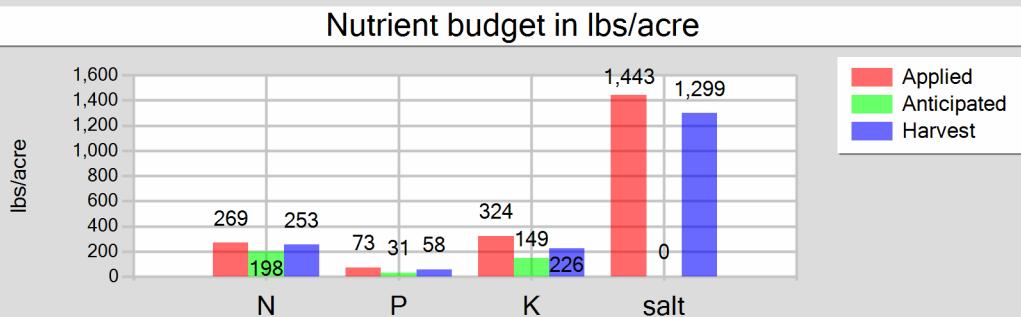
Reporting period 01/01/2023 to 12/31/2023.

#7 - 11/24/2022: Wheat, silage, soft dough

Field name: #7

Crop: Wheat, silage, soft dough

Plant date: 11/24/2022



	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	121.48	46.08	104.34	38.08
Process wastewater	139.61	26.81	219.35	1,212.11
Fresh water	0.74	0.00	0.00	192.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	268.83	72.89	323.69	1,442.86
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	253.25	58.01	226.37	1,298.79
Nutrient balance	15.58	14.88	97.32	144.07
Applied to removed ratio	1.06	1.26	1.43	1.11

Fresh water applied
13,320,000.00 gallons
490.53 acre-inches
16.35 inches/acre

Process wastewater applied
1,050,000.00 gallons
38.67 acre-inches
1.29 inches/acre

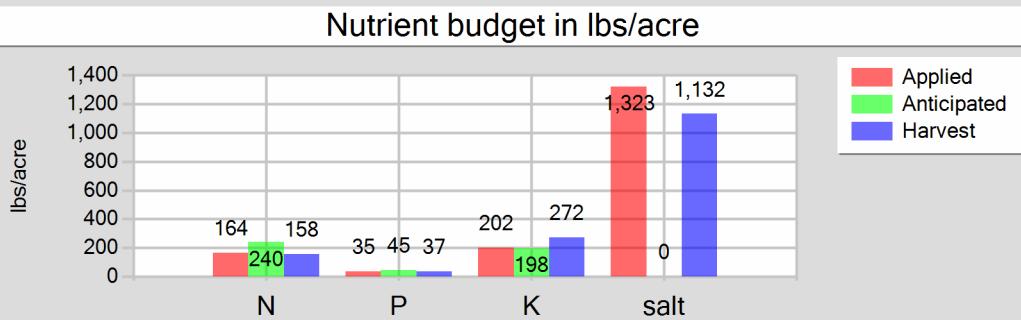
Total harvests for the crop
1 harvests

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

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

#7 - 06/05/2023: Corn, silage

Field name: #7 Crop: Corn, silage Plant date: 06/05/2023



	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	52.68	14.54	16.48	32.32
Process wastewater	103.31	20.75	185.19	971.30
Fresh water	1.23	0.00	0.00	318.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	164.22	35.30	201.67	1,322.56
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	158.42	36.71	272.41	1,132.15
Nutrient balance	5.79	-1.41	-70.74	190.41
Applied to removed ratio	1.04	0.96	0.74	1.17

Fresh water applied

22,050,000.00 gallons
812.03 acre-inches
27.07 inches/acre

Process wastewater applied

945,000.00 gallons
34.80 acre-inches
1.16 inches/acre

Total harvests for the crop

1 harvests

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

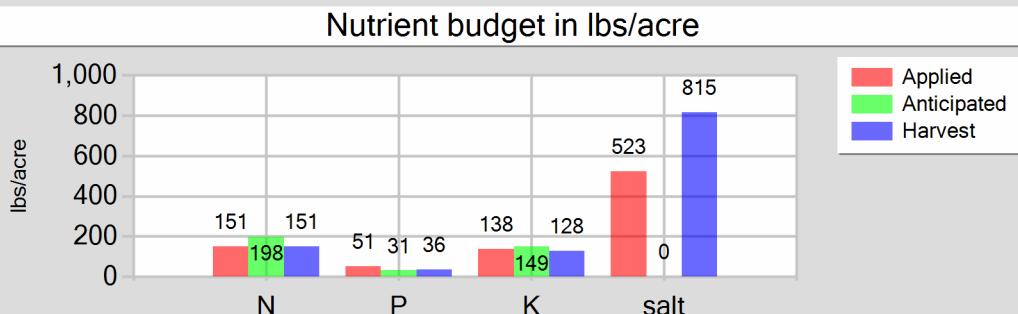
Reporting period 01/01/2023 to 12/31/2023.

#8 - 11/25/2022: Wheat, silage, soft dough

Field name: #8

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



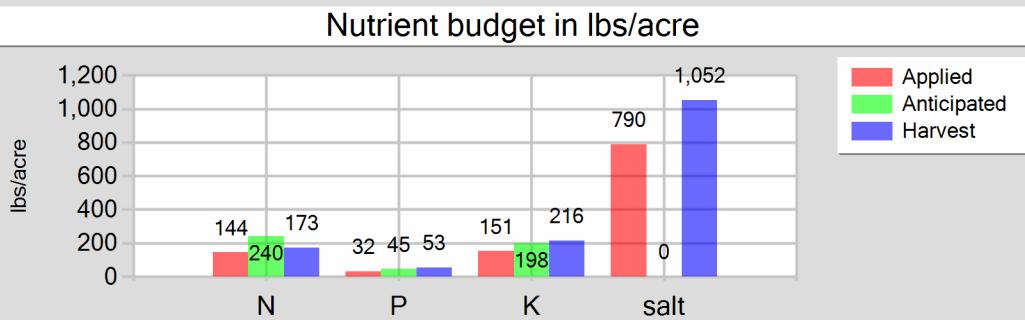
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	24,390,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	898.20 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.82 inches/acre
Dry manure	121.48	46.08	104.34	38.08	
Process wastewater	21.62	5.29	33.34	345.97	Process wastewater applied
Fresh water	0.54	0.00	0.00	139.26	1,270,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	46.79 acre-inches
Total nutrients applied	150.63	51.36	137.68	523.31	0.62 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	151.42	36.43	127.51	815.18	Total harvests for the crop
Nutrient balance	-0.79	14.93	10.17	-291.86	1 harvests
Applied to removed ratio	0.99	1.41	1.08	0.64	

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

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

#8 - 06/19/2023: Corn, silage

Field name: #8 Crop: Corn, silage Plant date: 06/19/2023



	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	65.85	18.18	20.60	40.40
Process wastewater	70.57	13.42	130.85	549.10
Fresh water	0.77	0.00	0.00	200.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	144.19	31.60	151.45	789.87
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	173.33	53.20	216.23	1,051.97
Nutrient balance	-29.14	-21.60	-64.78	-262.11
Applied to removed ratio	0.83	0.59	0.70	0.75

Fresh water applied
35,091,000.00 gallons
1,292.28 acre-inches
17.00 inches/acre

Process wastewater applied
1,018,500.00 gallons
37.51 acre-inches
0.49 inches/acre

Total harvests for the crop
1 harvests

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

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

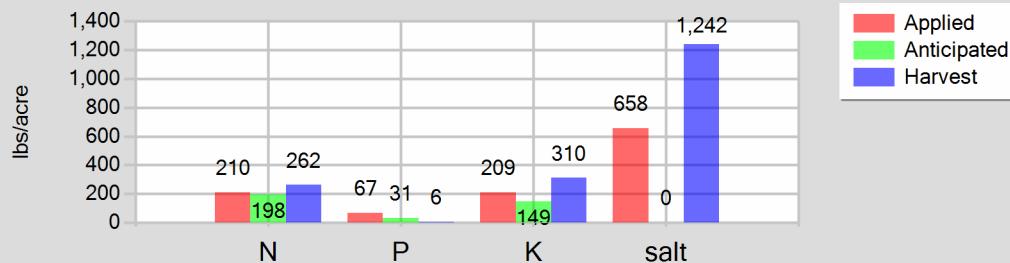
#9 - 10/30/2022: Wheat, silage, soft dough

Field name: #9

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022

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	151.84	57.60	130.42	47.60
Process wastewater	50.12	9.63	78.75	435.17
Fresh water	0.67	0.00	0.00	174.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	209.64	67.22	209.17	657.55
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	262.04	6.46	310.47	1,241.89
Nutrient balance	-52.40	60.76	-101.30	-584.34
Applied to removed ratio	0.80	10.41	0.67	0.53

Fresh water applied

24,570,000.00 gallons
904.83 acre-inches
14.83 inches/acre

Process wastewater applied

766,500.00 gallons
28.23 acre-inches
0.46 inches/acre

Total harvests for the crop

1 harvests

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

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

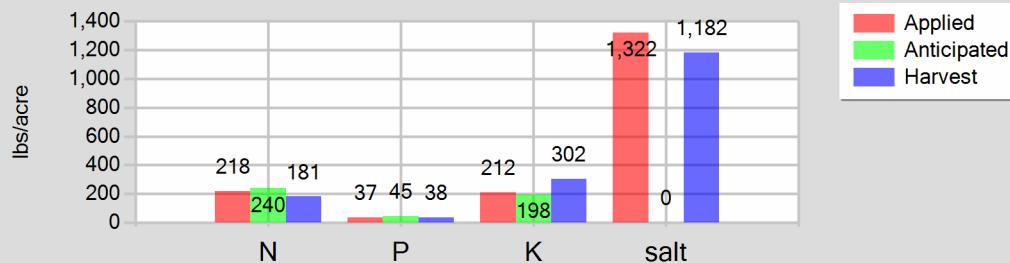
#9 - 06/10/2023: Corn, silage

Field name: #9

Crop: Corn, silage

Plant date: 06/10/2023

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	39.51	10.91	12.36	24.24
Process wastewater	170.42	25.71	199.62	1,014.94
Fresh water	1.09	0.00	0.00	282.99
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	218.02	36.62	211.98	1,322.17
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	181.04	37.80	302.39	1,181.70
Nutrient balance	36.99	-1.18	-90.41	140.46
Applied to removed ratio	1.20	0.97	0.70	1.12

Fresh water applied

39,780,000.00 gallons
1,464.96 acre-inches
24.02 inches/acre

Process wastewater applied

1,606,500.00 gallons
59.16 acre-inches
0.97 inches/acre

Total harvests for the crop

1 harvests

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

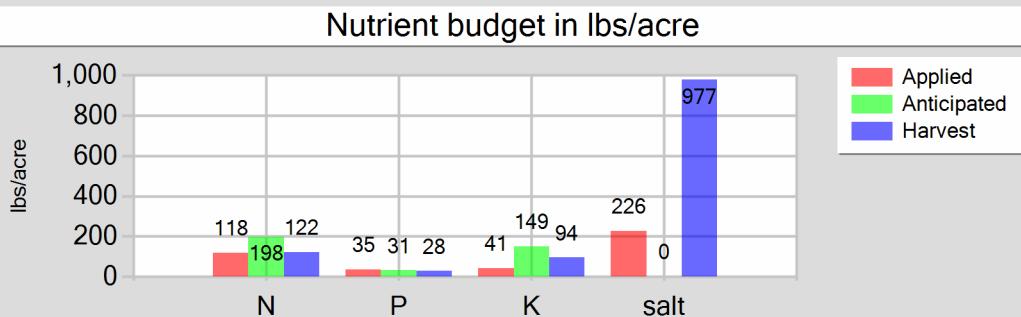
Reporting period 01/01/2023 to 12/31/2023.

L3 - 11/28/2022: Wheat, silage, soft dough

Field name: L3

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



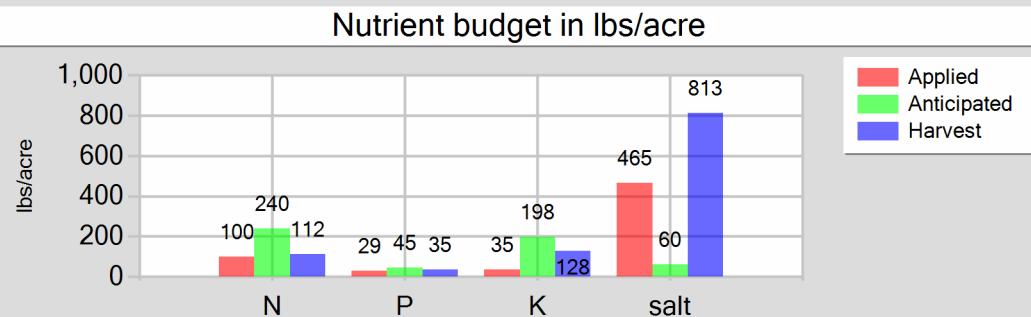
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,056,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	259.85 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	6.19 inches/acre
Dry manure	110.42	35.27	41.41	153.36	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.28	0.00	0.00	72.90	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	117.70	35.27	41.41	226.26	Process wastewater applied
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	0.00 gallons
Actual crop nutrient removal	121.85	27.59	94.26	977.10	0.00 acre-inches
Nutrient balance	-4.15	7.68	-52.85	-750.83	0.00 inches/acre
Applied to removed ratio	0.97	1.28	0.44	0.23	Total harvests for the crop
					1 harvests

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

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

L3 - 06/10/2023: Corn, silage

Field name: L3 Crop: Corn, silage Plant date: 06/10/2023



	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	92.02	29.39	34.51	127.80
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.30	0.00	0.00	337.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	100.31	29.39	34.51	465.34
Anticipated crop nutrient removal	240.00	45.00	198.00	60.00
Actual crop nutrient removal	111.57	35.15	128.38	813.10
Nutrient balance	-11.26	-5.76	-93.88	-347.76
Applied to removed ratio	0.90	0.84	0.27	0.57

Fresh water applied
32,670,000.00 gallons
1,203.13 acre-inches
28.65 inches/acre

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

Total harvests for the crop
1 harvests

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

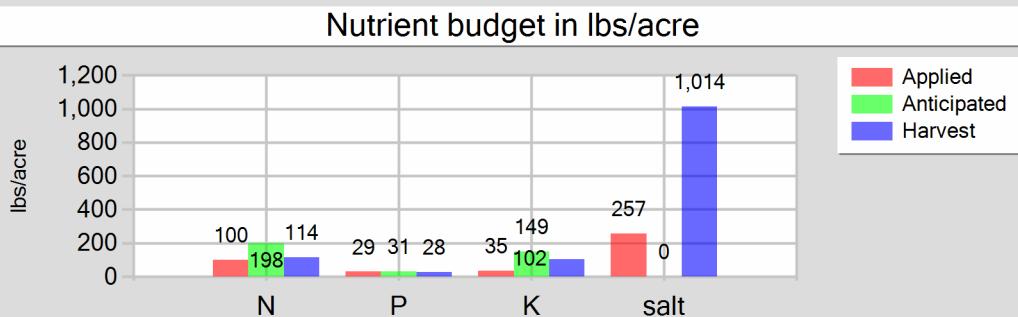
Reporting period 01/01/2023 to 12/31/2023.

L4 - 11/28/2022: Wheat, silage, soft dough

Field name: L4

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	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	92.02	29.39	34.51	127.80
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.50	0.00	0.00	129.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	99.51	29.39	34.51	256.86
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	114.20	28.24	101.92	1,014.31
Nutrient balance	-14.69	1.15	-67.42	-757.45
Applied to removed ratio	0.87	1.04	0.34	0.25

Fresh water applied

13,086,000.00 gallons
481.91 acre-inches
10.95 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

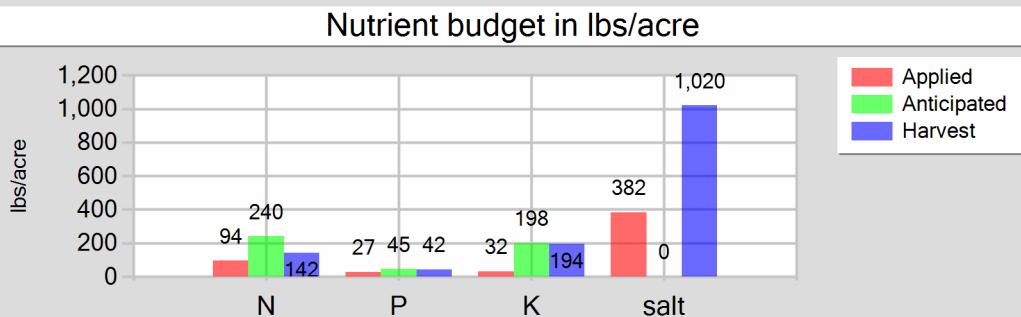
1 harvests

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

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

L4 - 06/10/2023: Corn, silage

Field name: L4 Crop: Corn, silage Plant date: 06/10/2023



	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	85.88	27.43	32.21	119.28
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.01	0.00	0.00	263.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	93.89	27.43	32.21	382.37
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	141.52	41.73	194.14	1,019.69
Nutrient balance	-47.63	-14.30	-161.94	-637.33
Applied to removed ratio	0.66	0.66	0.17	0.37

Fresh water applied

26,676,000.00 gallons
982.39 acre-inches
22.33 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****M43956-01 Valley Tech**

Sample and source description: M43956-01 Valley Tech

Sample date: 03/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.2 %

	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	31,900.00	12,100.00	27,400.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

M67210-01 Valley Tech

Sample and source description: M67210-01 Valley Tech

Sample date: 09/28/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	4,500.00	5,100.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

M67210-02 Valley Tech

Sample and source description: M67210-02 Valley Tech

Sample date: 09/28/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.4 %

	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	7,200.00	2,300.00	2,700.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

B. PROCESS WASTEWATER ANALYSES

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

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

L42237-01 Valley Tech

Sample and source description: L42237-01 Valley Tech

Sample date: 01/26/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	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	478.00	198.00	0.00	0.00	91.80	751.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.25	4,150
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L453040-02 Valley Tech (Tail Water)

Sample and source description: L453040-02 Valley Tech (Tail Water)

Sample date: 04/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	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	631.00	175.00	0.00	0.00	120.00	1,170.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	7.39	4,910
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L45340-01 Valley Tech

Sample and source description: L45340-01 Valley Tech

Sample date: 04/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	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	918.00	370.00	0.00	0.00	114.00	650.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.52	4,330
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L63597-01 Valley Tech

Sample and source description: L63597-01 Valley Tech

Sample date: 08/30/2023 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	155.00	153.00	0.00	0.00	37.90	239.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.74	2,480
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

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

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

L63597-02 Valley Tech (Tail Water)

Sample and source description: L63597-02 Valley Tech (Tail Water)

Sample date: 08/30/2023 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	280.00	83.80	0.00	0.00	128.00	2,280.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	13.00	8,610
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L74167-01 Valley Tech

Sample and source description: L74167-01 Valley Tech

Sample date: 12/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 1.00

	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	342.00	161.00	0.00	0.00	66.70	909.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.12	4,060
DL	10.00	2.00	2.00	2.00	0.20	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

C. FRESH WATER ANALYSES

Canal

23E0706-01 Dellavalle

Sample description: 23E0706-01 Dellavalle

Sample date: 05/08/2023 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	0.20	0.00	0.20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	67.80	52
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	10

P-8

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

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

P-8**23K0837-02 Dellavalle**Sample description: 23K0837-02 DellavalleSample date: 11/16/2023 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	39.90	0.00	39.90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	1,040.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-H1**23K0837-01 Dellavalle**Sample description: 23K0837-01 DellavalleSample date: 11/16/2023 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	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	341.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

#10 - 11/03/2022: Wheat, silage, soft dough

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

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

#10 - 11/03/2022: Wheat, silage, soft dough

H49386-04 Valley Tech

Sample and source description: H49386-04 Valley Tech

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,400.00	3,800.00	19,700.00		9.13
DL	0.05	0.02	0.02		0.05

#10 - 06/22/2023: Corn, silage

H64115-05 Valley Tech

Sample and source description: H64115-05 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	2,900.00	20,200.00		7.31
DL	0.05	0.02	0.02		0.05

#11 - 10/31/2022: Wheat, silage, soft dough

H50976-02 Valley Tech

Sample and source description: H50976-02 Valley Tech

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,400.00	4,300.00	26,200.00		9.48
DL	0.05	0.02	0.02		0.05

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

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

#11 - 06/18/2023: Corn, silage

H69732-01 Valley Tech

Sample and source description: H69732-01 Valley Tech

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	2,200.00	13,900.00		5.59
DL	0.05	0.02	0.02		0.05

#12 - 11/25/2022: Wheat, silage, soft dough

H50976-03 Valley Tech

Sample and source description: H50976-03 Valley Tech

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	2,400.00	12,600.00		9.53
DL	0.05	0.02	0.02		0.05

#12 - 06/04/2023: Corn, silage

H64115-06 Valley Tech

Sample and source description: H64115-06 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	2,000.00	15,600.00		6.72
DL	0.05	0.02	0.02		0.05

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

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

#13 - 11/15/2022: Wheat, silage, soft dough

H50677-05 Valley Tech

Sample and source description: H50677-05 Valley Tech

Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	2,800.00	15,200.00		8.08
DL	0.05	0.02	0.02		0.05

#13 - 06/07/2023: Corn, silage

H66829-03 Valley Tech

Sample and source description: H66829-03 Valley Tech

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	2,500.00	10,300.00		5.73
DL	0.05	0.02	0.02		0.05

#14 - 10/31/2022: Wheat, silage, soft dough

H50976-01 Valley Tech

Sample and source description: H50976-01 Valley Tech

Sample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	2,600.00	14,700.00		8.95
DL	0.05	0.02	0.02		0.05

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

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

#14 - 06/18/2023: Corn, silage

H66829-04 Valley Tech

Sample and source description: H66829-04 Valley Tech

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,200.00	2,300.00	11,000.00		5.53
DL	0.05	0.02	0.02		0.05

#19 - 11/06/2022: Wheat, silage, soft dough

H49386-06 Valley Tech

Sample and source description: H49386-06 Valley Tech

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	2,000.00	9,100.00		6.50
DL	0.05	0.02	0.02		0.05

#19 - 06/01/2023: Corn, silage

H64115-07 Valley Tech

Sample and source description: H64115-07 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	2,800.00	17,600.00		7.48
DL	0.05	0.02	0.02		0.05

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

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

#21 - 10/29/2022: Wheat, silage, soft dough

H50976-04 Valley Tech

Sample and source description: H50976-04 Valley Tech

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,300.00	2,300.00	10,300.00		8.99
DL	0.05	0.02	0.02		0.05

#21 - 06/05/2023: Corn, silage

H66829-05 Valley Tech

Sample and source description: H66829-05 Valley Tech

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,800.00	2,200.00	10,900.00		5.06
DL	0.05	0.02	0.02		0.05

#4 - 10/30/2022: Wheat, silage, soft dough

H50677-03 Valley Tech

Sample and source description: H50677-03 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	2,700.00	8,200.00		8.06
DL	0.05	0.02	0.02		0.05

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

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

#4 - 06/02/2023: Corn, silage

H64115-01 Valley Tech

Sample and source description: H64115-01 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,600.00	2,800.00	17,800.00		6.68
DL	0.05	0.02	0.02		0.05

#5 - 11/20/2022: Wheat, silage, soft dough

H49386-03 Valley Tech

Sample and source description: H49386-03 Valley Tech

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,700.00	3,800.00	13,900.00		11.10
DL	0.05	0.02	0.02		0.05

#5 - 06/09/2023: Corn, silage

H64115-02 Valley Tech

Sample and source description: H64115-02 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,200.00	2,600.00	17,100.00		6.40
DL	0.05	0.02	0.02		0.05

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

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

#6 - 11/24/2022: Wheat, silage, soft dough

H49386-01 Valley Tech

Sample and source description: H49386-01 Valley Tech

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,600.00	4,900.00	20,600.00		10.40
DL	0.05	0.02	0.02		0.05

#6 - 06/04/2023: Corn, silage

H64115-03 Valley Tech

Sample and source description: H64115-03 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,400.00	2,800.00	14,800.00		6.08
DL	0.05	0.02	0.02		0.05

#7 - 11/24/2022: Wheat, silage, soft dough

H49386-02 Valley Tech

Sample and source description: H49386-02 Valley Tech

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,900.00	4,100.00	16,000.00		9.18
DL	0.05	0.02	0.02		0.05

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

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

#7 - 06/05/2023: Corn, silage

H64115-04 Valley Tech

Sample and source description: H64115-04 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,200.00	1,900.00	14,100.00		5.86
DL	0.05	0.02	0.02		0.05

#8 - 11/25/2022: Wheat, silage, soft dough

H50677-04 Valley Tech

Sample and source description: H50677-04 Valley Tech

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	3,200.00	11,200.00		7.16
DL	0.05	0.02	0.02		0.05

#8 - 06/19/2023: Corn, silage

H66829-01 Valley Tech

Sample and source description: H66829-01 Valley Tech

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	3,100.00	12,600.00		6.13
DL	0.05	0.02	0.02		0.05

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

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

#9 - 10/30/2022: Wheat, silage, soft dough

H49386-05 Valley Tech

Sample and source description: H49386-05 Valley Tech

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,100.00	520.00	25,000.00		10.00
DL	0.05	0.02	0.02		0.05

#9 - 06/10/2023: Corn, silage

H66829-02 Valley Tech

Sample and source description: H66829-02 Valley Tech

Sample date: 09/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,100.00	1,900.00	15,200.00		5.94
DL	0.05	0.02	0.02		0.05

L3 - 11/28/2022: Wheat, silage, soft dough

H50677-01 Valley Tech

Sample and source description: H50677-01 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,600.00	2,400.00	8,200.00		8.50
DL	0.05	0.02	0.02		0.05

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

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

L3 - 06/10/2023: Corn, silage

H66829-06 Valley Tech

Sample and source description: H66829-06 Valley Tech

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	2,300.00	8,400.00		5.32
DL	0.05	0.02	0.02		0.05

L4 - 11/28/2022: Wheat, silage, soft dough

H50677-02 Valley Tech

Sample and source description: H50677-02 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,300.00	2,300.00	8,300.00		8.26
DL	0.05	0.02	0.02		0.05

L4 - 06/10/2023: Corn, silage

H66829-07 Valley Tech

Sample and source description: H66829-07 Valley Tech

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,800.00	2,300.00	10,700.00		5.62
DL	0.05	0.02	0.02		0.05

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

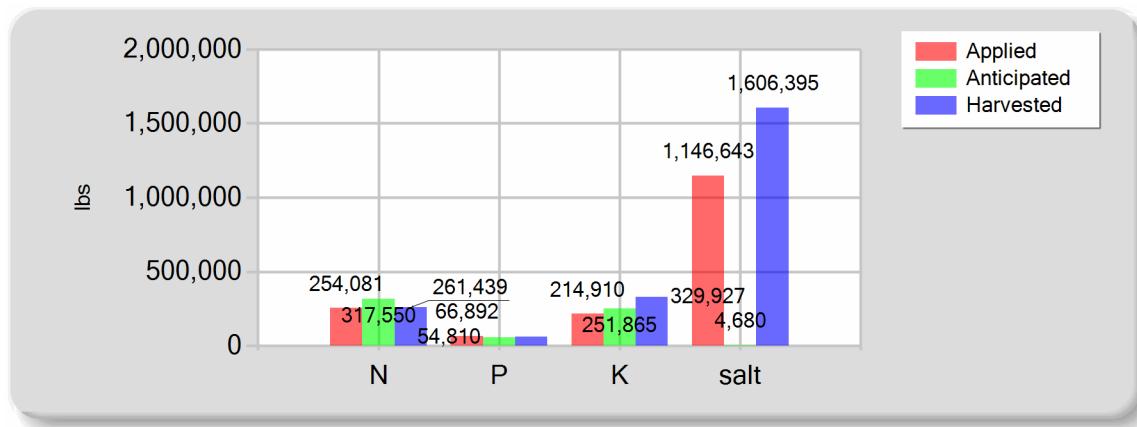
No subsurface (tile) drainage analyses entered.

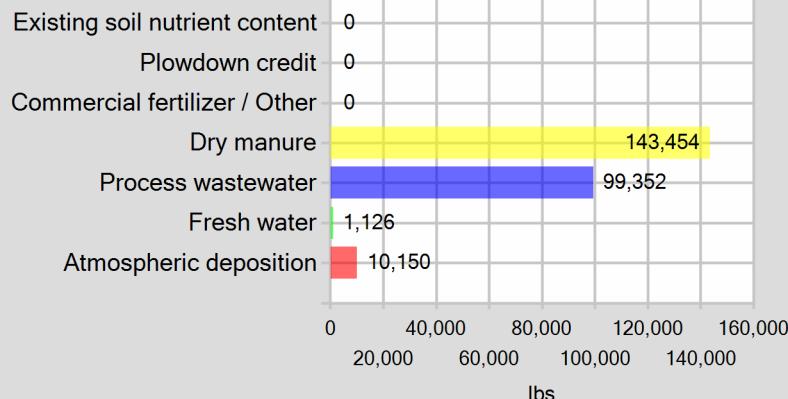
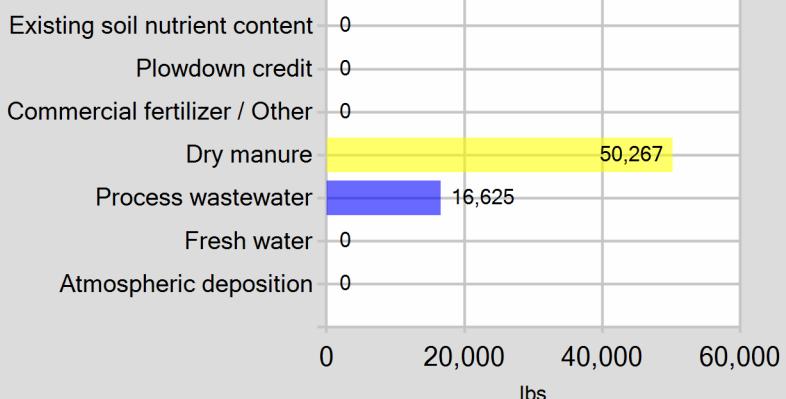
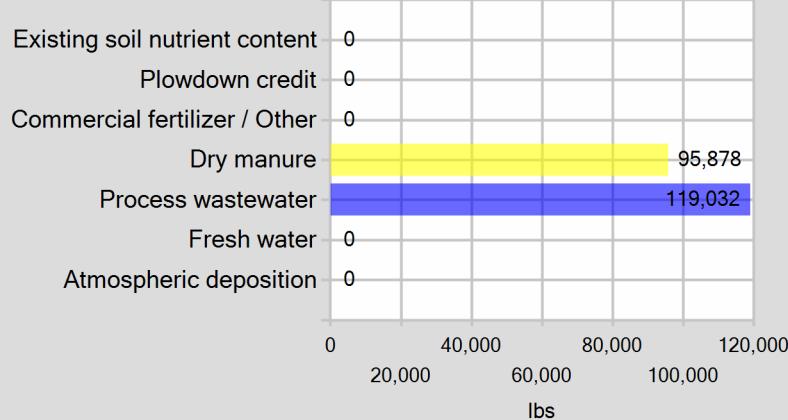
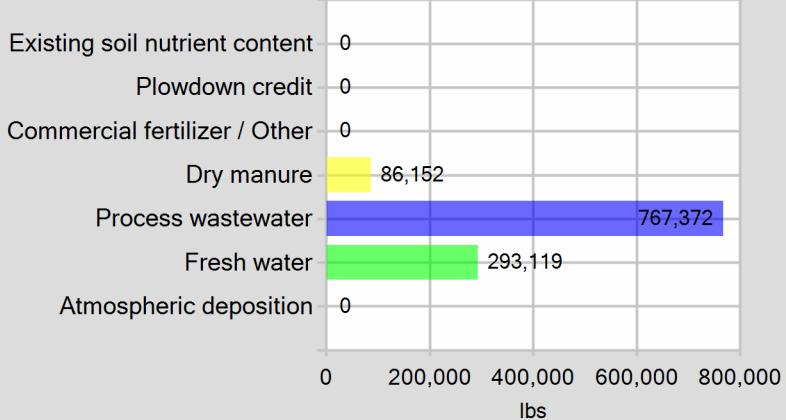
Annual Report - General Order No. R5-2007-0035

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	143,453.70	50,266.66	95,877.55	86,151.60
Process wastewater	99,351.58	16,625.04	119,032.19	767,371.74
Fresh water	1,125.70	0.00	0.00	293,119.19
Atmospheric deposition	10,150.00	0.00	0.00	0.00
Total nutrients applied	254,080.98	66,891.70	214,909.74	1,146,642.54
Anticipated crop nutrient removal	317,550.00	54,810.00	251,865.00	4,680.00
Actual crop nutrient removal	261,439.10	59,864.83	329,926.63	1,606,395.05
Nutrient balance	-7,358.12	7,026.87	-115,016.89	-459,752.52
Applied to removed ratio	0.97	1.12	0.65	0.71

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? No

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? No

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? No

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.) The following Fields are planted in Trees, F1,2,3,20, L1 & L2. Irrigation events are available upon request.
- 2.) The ag wells listed were not used during reporting period. 1,2,3,4,22, B1, L-1 & Visalia Well Numbers B-2 & B-3 are temporarily out of service.

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

Mario Mattos

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

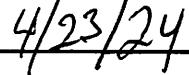
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, 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

Mario Mattos

PRINT OR TYPE NAME



DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23B0251-01	D-3	Drinking Water	Justin		02/01/2023 12:25
23B0251-02	D-5	Drinking Water	Justin		02/01/2023 12:30
23B0251-03	D-6	Drinking Water	Justin		02/01/2023 12:35
23B0251-04	D-7	Drinking Water	Justin		02/01/2023 12:40

Default Cooler Temperature on Receipt °C: 6.8
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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Sample Results

Sample: D-3
23B0251-01 (Water)

Sampled: 2/1/2023 12:25
Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.61	mmhos/cm	0.01	1		02/03/23 11:56	SM 2510 B		BEB0062
Electrical Conductivity umhos	607	umhos/cm	10.0	1		02/03/23 11:56	SM 2510 B		BEB0062
Ammonia (as N)	ND	mg/L	0.00	1		02/01/23 12:25	Field		BEB0032
Nitrate Nitrogen as NO3N	0.9	mg/L	0.1	1	10	02/02/23 17:39	EPA 300.0		BEB0019
pH	7.0	units	1.0	1		02/03/23 11:56	SM 4500-H+	H	BEB0062
Temperature	25.0	°C	0.0	1		02/03/23 11:56	SM 2510 B		BEB0062

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Sample Results
(Continued)

Sample: D-5
23B0251-02 (Water)

Sampled: 2/1/2023 12:30

Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.61	mmhos/cm	0.01	1		02/03/23 11:58	SM 2510 B		BEB0062
Electrical Conductivity umhos	608	umhos/cm	10.0	1		02/03/23 11:58	SM 2510 B		BEB0062
Ammonia (as N)	ND	mg/L	0.00	1		02/01/23 12:30	Field		BEB0032
Nitrate Nitrogen as NO3N	29.3	mg/L	0.1	1	10	02/02/23 18:01	EPA 300.0		BEB0019
pH	8.3	units	1.0	1		02/03/23 11:58	SM 4500-H+	H	BEB0062
Temperature	25.0	°C	0.0	1		02/03/23 11:58	SM 2510 B		BEB0062

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Sample: D-6
23B0251-03 (Water)

Sampled: 2/1/2023 12:35

Sampled By: Justin

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.61	mmhos/cm	0.01	1		02/03/23 12:00	SM 2510 B		BEB0062
Electrical Conductivity umhos	612	umhos/cm	10.0	1		02/03/23 12:00	SM 2510 B		BEB0062
Ammonia (as N)	ND	mg/L	0.00	1		02/01/23 12:35	Field		BEB0032
Nitrate Nitrogen as NO3N	28.6	mg/L	0.1	1	10	02/02/23 21:04	EPA 300.0		BEB0019
pH	8.7	units	1.0	1		02/03/23 12:00	SM 4500-H+	H	BEB0062
Temperature	25.0	°C	0.0	1		02/03/23 12:00	SM 2510 B		BEB0062

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Sample Results
(Continued)

Sample: D-7

23B0251-04 (Water)

Sampled: 2/1/2023 12:40

Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.81	mmhos/cm	0.01	1		02/03/23 12:01	SM 2510 B		BEB0062
Electrical Conductivity umhos	808	umhos/cm	10.0	1		02/03/23 12:01	SM 2510 B		BEB0062
Ammonia (as N)	ND	mg/L	0.00	1		02/01/23 12:40	Field		BEB0032
Nitrate Nitrogen as NO3N	35.4	mg/L	0.1	1	10	02/02/23 21:27	EPA 300.0		BEB0019
pH	7.9	units	1.0	1		02/03/23 12:01	SM 4500-H+	H	BEB0062
Temperature	25.0	°C	0.0	1		02/03/23 12:01	SM 2510 B		BEB0062

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEB0019									
Blank (BEB0019-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 2/2/2023				
Blank (BEB0019-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 2/2/2023				
Blank (BEB0019-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 2/2/2023				
LCS (BEB0019-BS1)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.8	90-110			
LCS (BEB0019-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	97.6	90-110			
Duplicate (BEB0019-DUP1)									
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L	0.2			1.81	10	
Duplicate (BEB0019-DUP2)									
Nitrate Nitrogen as NO3N	35.2	0.1	mg/L	35.4			0.465	10	
Matrix Spike (BEB0019-MS1)									
Nitrate Nitrogen as NO3N	4.5	0.1	mg/L	5.000	0.2	85.2	90-110		
Matrix Spike (BEB0019-MS2)									
Nitrate Nitrogen as NO3N	39.5	0.1	mg/L	5.000	35.4	83.5	90-110		
Reference (BEB0019-SRM1)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	100	90-110			
Reference (BEB0019-SRM2)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	100	90-110			
Reference (BEB0019-SRM3)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00	101	90-110			

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 02/02/2023 7:15
Reported: 02/03/2023 14:46

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEB0062									
Blank (BEB0062-BLK1)									
Prepared & Analyzed: 2/3/2023									
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 (BEB0062-BLK3)									
Prepared & Analyzed: 2/3/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
pH 7.4 1.0 units									
Temperature 25.0 0.0 °C									
Duplicate (BEB0062-DUP2)									
Source: 23B0251-04 Prepared & Analyzed: 2/3/2023									
Electrical Conductivity 0.80 0.01 mmhos/cm 0.81 0.745 10									
pH 7.8 1.0 units 7.9 1.28 10									
Electrical Conductivity umhos 802 10.0 umhos/cm 808 0.745 10									
Reference (BEB0062-SRM1)									
Prepared & Analyzed: 2/3/2023									
Electrical Conductivity 560 umhos/cm 538.0 104 90-110									
Reference (BEB0062-SRM2)									
Prepared & Analyzed: 2/3/2023									
pH 7.7 units 7.620 101 68766-101.3:									
Reference (BEB0062-SRM3)									
Prepared & Analyzed: 2/3/2023									
Electrical Conductivity 1040 umhos/cm 1000 104 90-110									
Electrical Conductivity umhos 1040 umhos/cm 1000 104 90-110									
Reference (BEB0062-SRM5)									
Prepared & Analyzed: 2/3/2023									
Electrical Conductivity 1050 umhos/cm 1000 105 90-110									
Electrical Conductivity umhos 1050 umhos/cm 1000 105 90-110									
Reference (BEB0062-SRM6)									
Prepared & Analyzed: 2/3/2023									
pH 4.0 units 4.000 101 97.5-102.5									
Reference (BEB0062-SRM8)									
Prepared & Analyzed: 2/3/2023									
pH 4.0 units 4.000 101 97.5-102.5									

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.



02/02/23 07:15

23B0251

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other _____										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input checked="" type="checkbox"/>					Refrigerant: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" 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
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
1 L unpreserved (White) Plastic	1	1	1	1						
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
VOA Vials	1 L HNO ₃ (Red)									
	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
Glass	40 mL VOA, HCl (Blue) (Set of 3)									
	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)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
Special	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
Sulfide - 1 L AG or P NaOH + ZnAc										
Chlorite/Bromate - 250 mL AG with EDA										
HAA5 - 250mL AG Ammonium Chlorite										
DO KIT										
Other:										
Other:										



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0837-01	H1	Ag Water	Mario		11/15/2023 9:40
23K0837-02	P-8	Ag Water	Mario		11/15/2023 10:00

Default Cooler Temperature on Receipt °C: 16.0
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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Sample Results

Sample: H1
23K0837-01 (Water)

Sampled: 11/15/2023 9:40
Sampled By: Mario

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.34	mmhos/cm	0.01	1		11/20/23 12:25	SM 2510 B		BEK0614
Electrical Conductivity umhos	341	umhos/cm	10.0	1		11/20/23 12:25	SM 2510 B		BEK0614
Ammonia (as N)	ND	mg/L	0.00	1		11/15/23 09:40	Field		BEK0513
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	11/16/23 16:26	EPA 300.0		BEK0571
Temperature	25.0	units	0.0	1		11/20/23 12:25	SM 4500-H+	H	BEK0614
pH	8.2	units	1.0	1		11/20/23 12:25	SM 4500-H+	H	BEK0614

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Sample: P-8
23K0837-02 (Water)

Sampled: 11/15/2023 10:00

Sampled By: Mario

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.04	mmhos/cm	0.01	1		11/20/23 12:26	SM 2510 B		BEK0614
Electrical Conductivity umhos	1040	umhos/cm	10.0	1		11/20/23 12:26	SM 2510 B		BEK0614
Ammonia (as N)	ND	mg/L	0.00	1		11/15/23 10:00	Field		BEK0513
Nitrate Nitrogen as NO3N	39.9	mg/L	0.1	1	10	11/16/23 16:46	EPA 300.0		BEK0571
Temperature	25.0	units	0.0	1		11/20/23 12:26	SM 4500-H+	H	BEK0614
pH	7.5	units	1.0	1		11/20/23 12:26	SM 4500-H+	H	BEK0614

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0571									
Blank (BEK0571-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/16/2023				
Blank (BEK0571-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/16/2023				
Blank (BEK0571-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/17/2023				
Blank (BEK0571-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/17/2023				
LCS (BEK0571-BS1)									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	105	90-110			
LCS (BEK0571-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
LCS (BEK0571-BS3)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.7	90-110			
Duplicate (BEK0571-DUP1)									
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.2			1.95	10	
Duplicate (BEK0571-DUP2)									
Nitrate Nitrogen as NO3N	2.2	0.1	mg/L	2.2			1.15	10	
Duplicate (BEK0571-DUP3)									
Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.5			0.290	10	
Matrix Spike (BEK0571-MS1)									
Nitrate Nitrogen as NO3N	10.2	0.1	mg/L	5.000	5.2	101	90-110		
Matrix Spike (BEK0571-MS2)									
Nitrate Nitrogen as NO3N	7.2	0.1	mg/L	5.000	2.2	100	90-110		
Matrix Spike (BEK0571-MS3)									
Nitrate Nitrogen as NO3N	10.7	0.1	mg/L	5.000	5.5	104	90-110		
Reference (BEK0571-SRM1)									
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00	97.1	90-110			
Reference (BEK0571-SRM2)									
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00	97.5	90-110			

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
---------	-------------	-----------------	-------	-------------	---------------	------	--------	-----	-----------

Batch: BEK0571 (Continued)

Reference (BEK0571-SRM3)		Prepared & Analyzed: 11/17/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00	98.2	90-110
Reference (BEK0571-SRM4)		Prepared & Analyzed: 11/17/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00	98.4	90-110

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0614									
Blank (BEK0614-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.9	1.0	units						
Blank (BEK0614-BLK2)									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.8	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEK0614-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	6.2	1.0	units						
Duplicate (BEK0614-DUP1)									
		Source: 23K0805-02			Prepared: 11/17/2023 Analyzed: 11/20/2023				
Electrical Conductivity	2.32	0.01	mmhos/cm		2.34		0.682	10	
Electrical Conductivity umhos	2320	10.0	umhos/cm		2340		0.682	10	
pH	5.1	1.0	units		5.1		0.195	10	
Duplicate (BEK0614-DUP2)									
		Source: 23K0837-02			Prepared: 11/17/2023 Analyzed: 11/20/2023				
Electrical Conductivity	1.04	0.01	mmhos/cm		1.04		0.173	10	
Electrical Conductivity umhos	1040	10.0	umhos/cm		1040		0.173	10	
pH	7.5	1.0	units		7.5		0.268	10	
Reference (BEK0614-SRM1)									
Electrical Conductivity	550		umhos/cm	538.0		102	90-110		
Reference (BEK0614-SRM2)									
pH	7.6		units	7.520		100	67021-101.3		
Reference (BEK0614-SRM3)									
Electrical Conductivity	1030		umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030		umhos/cm	1000		103	90-110		
Reference (BEK0614-SRM4)									
Electrical Conductivity	1030		umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030		umhos/cm	1000		103	90-110		
Reference (BEK0614-SRM5)									
Electrical Conductivity	1050		umhos/cm	1000		105	90-110		

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 STAR DAIRY

Received: 11/16/2023 7:49
Reported: 11/22/2023 08:45

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0614 (Continued)									
Reference (BEK0614-SRM5)									
Electrical Conductivity umhos	1050		umhos/cm	1000		105	90-110		
Reference (BEK0614-SRM6)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEK0614-SRM7)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEK0614-SRM8)									
pH	4.0		units	4.000		101	97.5-102.5		

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.



MM

11/16/23 07:49

23K0837

WATER WORK REQUEST

Acct No.

24349

Cons.

8

Bill To:

Purchase Order No.

Results Needed By

Client

Roxey J Avila

Address 740 S. Kazarian Street

City, State, Zip Tulare, CA 93274

Phone (559) 786-4683

Fax

Cell/Email goroxey@yahoo.com

Copy to

Requested by

Roxey

Ranch

4 STAR DAIRY

Date sampled

11-15-23

Sampled by

Mario

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

DESCRIPTION OF SAMPLES

1.	H1	Sampled From:
2.	P-B	Sampled From:
3.		Sampled From:
4.		Sampled From:
5.		Sampled From:
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

IR Thermometer SN: 221511276
 Correction Factor: 0°C
 Calibration Due: 12/22/2023
 Location: Hanford

IR Thermometer SN: 200560723
 Correction Factor: 0°C
 Calibration Due: 12/22/2023
 Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	R. Avila			11/15/23 11:06
Second	GH	DLI	11/15/23 11:06	11/15/23 11:06
Third	MM	DLI	11/16 7:49	
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:

Shipping

Sampling Hrs	Miles	Consulting	\$	In
Amt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg:update 2022



11/16/23 07:49

23K0837

Shipping Information: Shipped In Picked-Up Walk In DLI Sampler Other

Samples refrigerated before pick up Picked up samples placed in Ice chest

Container: Ice Chest Box None **Refrigerant:** Wet Ice Blue Ice None

Samples Preserved with HNO₃ or H₂SO₄ were: Received Preserved 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								
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									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
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)									
	1 L AG unpreserved (White)									
Special	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
Chlorite/Bromate - 250 mL AG with EDA										
HAA5 - 250mL AG Ammonium Chlorite										
DO KIT										
Other:										
Other:										



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0706-01	Lucky Canal	Ag Water	Roxey		05/08/2023 8:30

Default Cooler Temperature on Receipt °C: 11.1
Custody Seals
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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Sample Results

**Sample: Lucky Canal
23E0706-01 (Water)**

Sampled: 5/8/2023 8:30

Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.07	mmhos/cm	0.01	1		05/11/23 13:24	SM 2510 B		BEE0294
Electrical Conductivity umhos	67.8	umhos/cm	10.0	1		05/11/23 13:24	SM 2510 B		BEE0294
Nitrate Nitrogen as NO3N	0.2	mg/L	0.1	1	10	05/09/23 19:48	EPA 300.0		BEE0285
pH	7.5	units	1.0	1		05/11/23 13:24	SM 4500-H+	H	BEE0294
Total Filterable Solids (TDS)	52.0	mg/L	10.0	1		05/26/23 14:01	SM 2540 C		BEE0919
Temperature	25.0	°C	0.0	1		05/11/23 13:24	SM 2510 B		BEE0294

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0285									
Blank (BEE0285-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/9/2023				
Blank (BEE0285-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 5/9/2023				
LCS (BEE0285-BS1)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
Duplicate (BEE0285-DUP1)									
Nitrate Nitrogen as NO3N	0.3	0.1	mg/L	0.3			0.317	10	
Matrix Spike (BEE0285-MS1)									
Nitrate Nitrogen as NO3N	5.6	0.1	mg/L	5.000	0.3	105	90-110		
Reference (BEE0285-SRM1)									
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	104	90-110			
Reference (BEE0285-SRM2)									
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00	104	90-110			

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0294									
Blank (BEE0294-BLK1)									
Prepared & Analyzed: 5/11/2023									
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEE0294-BLK2)									
Prepared & Analyzed: 5/11/2023									
pH	5.6	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 (BEE0294-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 (BEE0294-DUP1)									
Source: 23E0030-01 Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	0.54	0.01	mmhos/cm		0.55			2.04	10
pH	7.4	1.0	units		7.4			0.404	10
Electrical Conductivity umhos	540	10.0	umhos/cm		551			2.04	10
Duplicate (BEE0294-DUP2)									
Source: 23E0703-01 Prepared & Analyzed: 5/11/2023									
pH	7.6	1.0	units		7.6			0.393	10
Electrical Conductivity	0.07	0.01	mmhos/cm		0.07			0.447	10
Electrical Conductivity umhos	67.0	10.0	umhos/cm		67.3			0.447	10
Reference (BEE0294-SRM1)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	569		umhos/cm		538.0	106	90-110		
Reference (BEE0294-SRM2)									
Prepared & Analyzed: 5/11/2023									
pH	7.8		units		7.790	99.9	.7163-101.28		
Reference (BEE0294-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 (BEE0294-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 (BEE0294-SRM5)									
Prepared & Analyzed: 5/11/2023									
Electrical Conductivity	1070		umhos/cm		1000	107	90-110		

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0294 (Continued)									
Reference (BEE0294-SRM5)									
Electrical Conductivity umhos	1070		umhos/cm	1000	107	100	90-110		
Reference (BEE0294-SRM6)									
pH	4.0		units	4.000	100	100	97.5-102.5		
Reference (BEE0294-SRM7)									
pH	4.0		units	4.000	100	100	97.5-102.5		
Reference (BEE0294-SRM8)									
pH	4.0		units	4.000	99.8	99.8	97.5-102.5		

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.



Roxey J Avila
740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: 4 Star Dairy

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:26

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0919									
Blank (BEE0919-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 5/24/2023 Analyzed: 5/26/2023				
LCS (BEE0919-BS1)									
Total Filterable Solids (TDS)	23.8	10.0	mg/L	2000	Prepared: 5/24/2023 Analyzed: 5/26/2023	1.19	0-200		
Duplicate (BEE0919-DUP1)									
Total Filterable Solids (TDS)	50.0	10.0	mg/L		Prepared: 5/24/2023 Analyzed: 5/26/2023	50.0		0.00	5
Reference (BEE0919-SRM1)									
Total Filterable Solids (TDS)	330		mg/L	325.0	Prepared: 5/24/2023 Analyzed: 5/26/2023	102	90-110		

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.

05/09/23 07:50

23E0706



Bill To: 24349 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client **Roxey J Avila**
 Address 740 S. Kazarian Street
 City, State, Zip Tulare, CA 93274
 Phone (559) 786-4683 Fax _____
 Cell/Email goroxey@yahoo.com

Copy to _____

Requested by Roxey

Ranch **4 STAR DAIRY**

Date sampled 5-8-23

Sampled by Roxey

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1. Lucky Camel Sampled From: _____
2. _____ Sampled From: _____
3. _____ Sampled From: _____
4. _____ Sampled From: _____
5. _____ Sampled From: _____
6. _____ Sampled From: _____
7. _____ Sampled From: _____
8. _____ Sampled From: _____
9. _____ Sampled From: _____
10. _____ 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	<input checked="" type="checkbox"/>	Drinking	<input type="checkbox"/>	Wastewater
Water Type:	<input checked="" type="checkbox"/>	Ground Water	<input type="checkbox"/>	Mon. Well
Ag Water	<input type="checkbox"/>	Supply Water	<input type="checkbox"/>	Other

Analysis and Bottles Required: (Please Indicate Analysis)

- () DWW1: (EC, pH, NO₃-N, NH₄-N Field Test*)
 (I) 1L plastic, unpreserved (white)
- () DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (I) 1L plastic, unpreserved (white)
- DCW1: (EC, NO₃-N, TDS)
 (I) 1L plastic, unpreserved (white)
- () DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (I) 1L plastic, unpreserved (white)
- () DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (I) 1L plastic, unpreserved (white)

() Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>5-8-23</u>	<u>8:30 AM</u>	<u>110°</u>	<u>11.1</u>

If Out of Temperature Compliance

Proceed: Yes No

Ok'd by Joshua Kase (client)

Date 5/8/23 (client)

IR Thermometer SN: 221314362
 Correction Factor: 0°C
 Calibration Due: 6/30/2023
 Location: Hanford Office

Temperature Upon Receipt
 Hanford (°C):
 Laboratory (°C): 4.0

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Joshua Kase</u>	HDS	<u>5/8/23 8:30AM</u>	<u>5/8/23 10:42AM</u>
Second	<u>HP</u>	DCL	<u>5/8/23 10:42AM</u>	
Third				
Fourth	<u>HR</u>	DCL	<u>5/9/23 07:50</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 attorney's 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 stated 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.

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

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg update 2022



05/09/23 07:50

23E0706

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
Container: Ice Chest <input checked="" 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									
		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	1 L HNO ₃ (Red)										
	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
Glass	40 mL VOA, HCl (Blue) (Set of 3)										
	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										
Special	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)										
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:											