

**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:** River Valley Dairy

Physical address of dairy:

22700 S Cornelia AVE

Number and Street

Riverdale

Fresno

93656

City

County

Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 01/01/1960

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0004-0050-0128-0000      0053-0110-0018-0000      0053-0110-0088-0000

**B. OPERATORS**

De Jong, Rimmert

Operator name: <u>De Jong, Rimmert</u>	Telephone no.:	(559) 331-5374
	Landline	Cellular
22700 S Cornelia AVE	Riverdale	CA
Mailing Address Number and Street	City	State
		Zip Code

**This operator is responsible for paying permit fees.**

**C. OWNERS**

De Jong, Rimmert

Legal owner name: <u>De Jong, Rimmert</u>	Telephone no.:	(559) 331-5374
	Landline	Cellular
22700 S Cornelia AVE	Riverdale	CA
Mailing Address Number and Street	City	State
		Zip Code

**This owner is responsible for paying permit fees.**

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**AVAILABLE NUTRIENTS****A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	156	565	660	337	0
Number under roof	1,348	0	0	0	0	0
Maximum number	1,362	167	576	678	351	0
Average number	1,348	156	565	660	337	0
Avg live weight (lbs)	1,250	1,300	950	650		

Predominant milk cow breed: HolsteinAverage milk production: 75 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 50,681.87 tons per reporting periodTotal nitrogen from manure: 624,377.83 lbs per reporting periodAfter ammonia losses (30% loss applied): 437,064.48 lbs per reporting periodTotal phosphorus from manure: 103,087.47 lbs per reporting periodTotal potassium from manure: 262,582.62 lbs per reporting periodTotal salt from manure: 670,578.00 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 28,080,000 gallonsTotal nitrogen generated: 102,270.03 lbs

$$\begin{aligned}
 & 28,080,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 28,080,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 6,145.48 lbsTotal potassium generated: 145,322.47 lbsTotal salt generated: 657,928.66 lbs**D. FRESH WATER SOURCES**

Source Description	Type
D1	Ground water
D10	Ground water
D4	Ground water
D5	Ground water
D6	Ground water

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Source Description	Type
D7	Ground water
D8	Ground water
D9	Ground water
Kings River	Surface water
Laguna Canal	Ground water
Riverdale Canal	Surface water
W-11	Ground water
W-13	Ground water
W-19	Ground water
W-20	Ground water
W-21	Ground water
W-27	Ground water

**E. SUBSURFACE (TILE) DRAINAGE SOURCES**

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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**APPLICATION AREA**

**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
F1	59	59	2	both	0053-0110-0018-0000
F2	18	18	2	both	0053-0110-0018-0000
F3	21	21	1	none	0053-0110-0018-0000
F4	38	38	2	both	0053-0110-0010-0000
F5 E&W	156	156	1	none	0053-0110-0002-0000 0053-0110-0008-0000
F6	58	58	1	none	0053-0110-0002-0000
K1	34	34	2	both	0004-0050-0007-0000 0004-0050-0064-0000 0004-0050-0091-0000
K10	39	39	2	both	0004-0040-0026-0000
K11	21	21	2	both	0004-0040-0007-0000 0004-0040-0008-0000
K12	58	58	1	none	0004-0040-0006-0000
K13	18	18	2	both	0004-0050-0002-0000 0004-0050-0093-0000
K14	37	37	2	both	0004-0050-0003-0000
K2	65	65	2	both	0004-0050-0091-0000 0004-0050-0126-0000 0004-0050-0127-0000
K3	25	25	1	none	0004-0050-0125-0000
K4	18	18	2	both	0004-0050-0001-0000
K5	42	42	1	none	0004-0040-0013-0000 0004-0040-0038-0000 0004-0040-0049-0000
K6	66	66	1	none	0004-0040-0011-0000 0004-0040-0015-0000
K7	49	49	2	both	0004-0040-0010-0000
K8	68	68	2	both	0004-0040-0010-0000 0004-0040-0026-0000
K9	36	36	2	both	0004-0040-0026-0000
Totals for areas that were used for application	500	500	26		
Totals for areas that were not used for application	426	426	7		
Land application area totals	926	926	33		

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**B. CROPS AND HARVESTS****F1**

Field name: F1

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 59      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,107.43 ton	Dry-weight		63.9	18,965.00	3,450.00	28,600.00		11.90

	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	18.77	257.01	46.75	387.59	1,612.68

06/08/2023: Corn, silage

Crop: Corn, silage      Acres planted: 59      Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/10/2023	1,782.39 ton	Dry-weight		61.2	14,380.00	2,210.00	19,800.00		7.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.21	337.11	51.81	464.17	1,664.45

**F2**

Field name: F2

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F2

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 18      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	338.22 ton	Dry-weight		63.8	19,110.00	3,400.00	28,500.00		12.40

	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	18.79	259.97	46.25	387.71	1,686.89

06/15/2023: Corn, silage

Crop: Corn, silage      Acres planted: 18      Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	544.68 ton	Dry-weight		62.4	16,990.00	2,230.00	19,800.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.26	386.62	50.74	450.56	1,865.95

F3

Field name: F3

12/04/2020: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 21      Plant date: 12/04/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	187.32 ton	Dry-weight		6.3	31,230.00	3,500.00	29,800.00		9.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.92	522.04	58.51	498.14	1,638.18

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**F4**

Field name: F4

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 38      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	722.76 ton	Dry-weight		64.1	18,880.00	4,500.00	29,400.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	19.02	257.83	61.45	401.50	1,638.76

06/15/2023: Corn, silage

Crop: Corn, silage      Acres planted: 38      Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,151.78 ton	Dry-weight		62.3	15,040.00	2,430.00	19,600.00		7.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.31	343.72	55.53	447.93	1,714.03

**F5 E&W**

Field name: F5 E&amp;W

12/02/2022: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 156      Plant date: 12/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1,425.84 ton	Dry-weight		12.1	34,850.00	3,700.00	30,100.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	9.14	559.97	59.45	483.65	2,137.06

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**F6**

Field name: F6

12/03/2019: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 58      Plant date: 12/03/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	508.08 ton	Dry-weight		9.1	33,500.00	3,500.00	33,000.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.76	533.51	55.74	525.55	1,735.90

**K1**

Field name: K1

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 34      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	633.08 ton	Dry-weight		63.2	18,940.00	3,740.00	28,500.00		12.20

	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	18.62	259.56	51.25	390.57	1,671.93

06/15/2023: Corn, silage

Crop: Corn, silage      Acres planted: 34      Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/02/2023	1,024.76 ton	Dry-weight		61.9	15,080.00	2,530.00	18,900.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.14	346.34	58.11	434.07	1,676.57

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**K10**Field name: K10

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

Crop: Wheat, silage, soft dough      Acres planted: 39      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 (%)
05/17/2023	742.56 ton	Dry-weight		63.7	19,360.00	3,450.00	28,000.00		12.20

	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	19.04	267.61	47.69	387.05	1,686.41

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 39      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	1,197.69 ton	Dry-weight		62.8	15,190.00	2,380.00	19,300.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.71	347.06	54.38	440.97	1,645.07

**K11**Field name: K11

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 21      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	386.61 ton	Dry-weight		62.5	18,080.00	3,980.00	27,700.00		11.70

	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	18.41	249.64	54.95	382.47	1,615.48

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**K11**

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 21      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	643.44 ton	Dry-weight		62.8	15,190.00	23,800.00	19,300.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.64	346.27	542.55	439.97	1,641.32

**K12**Field name: K12

12/05/2020: Alfalfa, hay

Crop: Alfalfa, hay      Acres planted: 58      Plant date: 12/05/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	510.98 ton	Dry-weight		7.7	35,220.00	3,800.00	29,100.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.81	572.79	61.80	473.26	1,805.22

**K13**Field name: K13

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**K13**

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 18      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/27/2023	342.72 ton	Dry-weight		63.1	19,430.00	3,790.00	29,400.00		12.10

	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	19.04	273.02	53.26	413.11	1,700.23

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 18      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	554.22 ton	Dry-weight		63.1	15,630.00	2,610.00	19,200.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.79	355.16	59.31	436.28	1,567.89

**K14**Field name: K14

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 37      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/27/2023	700.41 ton	Dry-weight		63.0	18,920.00	3,730.00	29,100.00		11.60

	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	18.93	265.04	52.25	407.64	1,624.95

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**K14**

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 37      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,142.19 ton	Dry-weight		62.6	16,200.00	2,300.00	19,900.00		7.50
Anticipated harvest content									
Total actual harvest content									

**K2**

Field name: K2

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 65      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,204.45 ton	Dry-weight		63.8	18,750.00	3,500.00	28,400.00		12.10
Anticipated harvest content									
Total actual harvest content									

06/08/2023: Corn, silage

Crop: Corn, silage      Acres planted: 65      Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/10/2023	1,987.05 ton	Dry-weight		62.1	15,290.00	2,400.00	19,900.00		7.40
Anticipated harvest content									
Total actual harvest content									

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**K3**Field name: K3

12/06/2018: Alfalfa, hay

Crop: Alfalfa, hayAcres planted: 25 Plant date: 12/06/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	221.25 ton	Dry-weight		12.1	34,200.00	3,900.00	29,900.00		8.90
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)							
Anticipated harvest content		8.00 480.00 43.20 336.00 0.00							
Total actual harvest content		8.85 532.09 60.68 465.19 1,384.69							

**K4**Field name: K4

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft doughAcres planted: 18 Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/27/2023	343.26 ton	Dry-weight		62.9	18,890.00	4,110.00	28,200.00		12.30
		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		19.07 267.29 58.16 399.03 1,740.44							

06/19/2023: Corn, silage

Crop: Corn, silageAcres planted: 18 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 (%)
10/07/2023	556.02 ton	Dry-weight		63.4	16,440.00	2,380.00	19,100.00		7.30
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)							
Anticipated harvest content		30.00 240.00 45.00 198.00 0.00							
Total actual harvest content		30.89 371.73 53.82 431.88 1,650.64							

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K5

Field name: K5

12/05/2018: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 42 Plant date: 12/05/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	360.78 ton	Dry-weight		9.4	33,890.00	3,900.00	26,800.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.59	527.50	60.70	417.14	1,634.33

K6

Field name: K6

12/04/2019: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 66 Plant date: 12/04/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	572.88 ton	Dry-weight		9.4	33,760.00	3,800.00	32,000.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.68	530.98	59.77	503.30	1,714.37

K7

Field name: K7

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**K7**

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough      Acres planted: 49      Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/27/2023	922.67 ton	Dry-weight		63.2	18,570.00	3,640.00	28,700.00		11.90

	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	18.83	257.36	50.45	397.75	1,649.21

06/19/2023: Corn, silage

Crop: Corn, silage      Acres planted: 49      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 (%)
10/07/2023	1,505.28 ton	Dry-weight		62.8	15,550.00	2,230.00	19,400.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.72	355.41	50.97	443.40	1,645.61

**K8**Field name: K8

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

Crop: Wheat, silage, soft dough      Acres planted: 68      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 (%)
05/17/2023	1,309.68 ton	Dry-weight		65.8	18,260.00	3,320.00	29,100.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	19.26	240.55	43.74	383.36	1,541.34

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**K8**

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 68      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,109.36 <i>ton</i>	Dry-weight		64.1	16,890.00	2,410.00	18,700.00		7.40
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00    240.00    45.00    198.00				0.00			
Total actual harvest content		31.02    376.18    53.68    416.49				1,648.15			

**K9**Field name: K9

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

Crop: Wheat, silage, soft dough      Acres planted: 36      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 (%)
05/17/2023	689.04 <i>ton</i>	Dry-weight		65.5	19,130.00	3,530.00	29,400.00		11.80
		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		19.14    252.64    46.62    388.27				1,558.38			

06/20/2023: Corn, silage

Crop: Corn, silage      Acres planted: 36      Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	1,088.64 <i>ton</i>	Dry-weight		64.1	16,380.00	2,240.00	18,900.00		7.10
		Yield (tons/acre)    Total N (lbs/acre)    Total P (lbs/acre)    Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00    240.00    45.00    198.00				0.00			
Total actual harvest content		30.24    355.65    48.64    410.36				1,541.57			

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**NUTRIENT BUDGET****A. LAND APPLICATIONS**

F1 - 11/07/2022: Wheat, silage, soft dough

Field name: F1

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/21/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Corral Manure	Corral solids	204.50	40.19	265.07	0.00
Application event totals		204.50	40.19	265.07	0.00
10/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	35.20	0.80	87.77	283.58
W-11	Ground water	0.00	0.00	0.00	243.07
W-13	Ground water	0.00	0.00	0.00	546.10
Application event totals		35.20	0.80	87.77	1,072.74
04/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	45.48	2.61	54.71	280.42
Riverdale Canal	Surface water	0.00	0.00	0.00	39.21
Application event totals		45.48	2.61	54.71	319.63

F1 - 06/08/2023: Corn, silage

Field name: F1

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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F1 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	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
Corral Manure	Corral solids	291.75	34.34	186.28	0.00	300.00 ton
Application event totals		291.75	34.34	186.28	0.00	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	49.38	2.83	59.40	304.46	684,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	42.57	9,120,000.00 gal
Application event totals		49.38	2.83	59.40	347.03	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W-11	Ground water	0.00	0.00	0.00	162.04	2,808,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	29.13	6,240,000.00 gal
Application event totals		0.00	0.00	0.00	191.17	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	42.88	2.46	51.59	264.40	594,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	14.79	7,920,000.00 gal
Application event totals		42.88	2.46	51.59	279.18	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W-11	Ground water	0.00	0.00	0.00	155.81	2,700,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	28.01	6,000,000.00 gal
Application event totals		0.00	0.00	0.00	183.82	

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F1 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	13.44	7,200,000.00 gal
Application event totals		0.00	0.00	0.00	13.44	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	13.89	7,440,000.00 gal
Application event totals		0.00	0.00	0.00	13.89	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	26.83	2.79	24.33	145.66	486,000.00 gal
W-11	Ground water	0.00	0.00	0.00	168.28	2,916,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	12.10	6,480,000.00 gal
Application event totals		26.83	2.79	24.33	326.03	

F2 - 11/07/2022: Wheat, silage, soft dough

Field name: F2

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	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
Corral Manure	Corral solids	201.09	39.52	260.65	0.00	90.00 ton
Application event totals		201.09	39.52	260.65	0.00	

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F2 - 11/07/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/23/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	26.62	0.61	66.39	214.50	162,000.00 gal
W-11	Ground water	0.00	0.00	0.00	183.86	972,000.00 gal
W-13	Ground water	0.00	0.00	0.00	413.08	1,350,000.00 gal
Application event totals		26.62	0.61	66.39	811.43	
04/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	55.37	3.18	66.61	341.40	234,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	19.09	3,120,000.00 gal
Application event totals		55.37	3.18	66.61	360.50	

F2 - 06/15/2023: Corn, silage

Field name: F2

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	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
Corral Manure	Corral solids	286.89	33.77	183.18	0.00	90.00 ton
Application event totals		286.89	33.77	183.18	0.00	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.56	3,360,000.00 gal
Application event totals		0.00	0.00	0.00	20.56	

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F2 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	42.59	2.45	51.24	262.62	180,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	14.69	2,400,000.00 gal
Application event totals		42.59	2.45	51.24	277.30	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	19.09	3,120,000.00 gal
Application event totals		0.00	0.00	0.00	19.09	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	38.33	2.20	46.11	236.36	162,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	13.22	2,160,000.00 gal
Application event totals		38.33	2.20	46.11	249.57	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	16.16	2,640,000.00 gal
Application event totals		0.00	0.00	0.00	16.16	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	29.32	3.05	26.59	159.15	162,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	13.22	2,160,000.00 gal
Application event totals		29.32	3.05	26.59	172.37	

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F2 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	14.69	2,400,000.00 gal
Application event totals		0.00	0.00	0.00	14.69	

F3 - 12/04/2020: Alfalfa, hay

Field name: F3

Crop: Alfalfa, hay

Plant date: 12/04/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	23.92	4,560,000.00 gal
Application event totals		0.00	0.00	0.00	23.92	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	22.66	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	22.66	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	18.88	3,600,000.00 gal
Application event totals		0.00	0.00	0.00	18.88	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.40	4,080,000.00 gal
Application event totals		0.00	0.00	0.00	21.40	

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F3 - 12/04/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.14	3,840,000.00 gal
Application event totals		0.00	0.00	0.00	20.14	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	18.88	3,600,000.00 gal
Application event totals		0.00	0.00	0.00	18.88	
10/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	17.62	3,360,000.00 gal
Application event totals		0.00	0.00	0.00	17.62	

F4 - 11/08/2022: Wheat, silage, soft dough

Field name:	F4	Plant date:	11/08/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/21/2022	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
Corral Manure	Corral solids	201.09	39.52	260.65	0.00	190.00 ton
Application event totals		201.09	39.52	260.65	0.00	

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F4 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/24/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	36.43	0.83	90.85	293.53	468,000.00 gal
W-11	Ground water	0.00	0.00	0.00	251.59	2,808,000.00 gal
W-13	Ground water	0.00	0.00	0.00	565.26	3,900,000.00 gal
Application event totals		36.43	0.83	90.85	1,110.38	
04/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	34.07	2.52	42.83	207.36	378,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	14.61	5,040,000.00 gal
Application event totals		34.07	2.52	42.83	221.97	

F4 - 06/15/2023: Corn, silage

Field name:	F4					
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
05/20/2023	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
Corral Manure	Corral solids	286.89	33.77	183.18	0.00	190.00 ton
Application event totals		286.89	33.77	183.18	0.00	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.44	2.90	60.68	310.99	450,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	17.39	6,000,000.00 gal
Application event totals		50.44	2.90	60.68	328.39	

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F4 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	18.78	6,480,000.00 gal
Application event totals		0.00	0.00	0.00	18.78	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	16.70	5,760,000.00 gal
Application event totals		0.00	0.00	0.00	16.70	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.44	2.90	60.68	310.99	450,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	13.22	4,560,000.00 gal
Application event totals		50.44	2.90	60.68	324.21	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	16.70	5,760,000.00 gal
Application event totals		0.00	0.00	0.00	16.70	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	16.00	5,520,000.00 gal
Application event totals		0.00	0.00	0.00	16.00	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	27.77	2.89	25.19	150.77	324,000.00 gal
Riverdale Canal	Surface water	0.00	0.00	0.00	12.52	4,320,000.00 gal
Application event totals		27.77	2.89	25.19	163.29	

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F5 E&W - 12/02/2022: Alfalfa, hay

Field name: F5 E&W

Crop: Alfalfa, hay

Plant date: 12/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.51	29,040,000.00 gal
Application event totals		0.00	0.00	0.00	20.51	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.35	30,240,000.00 gal
Application event totals		0.00	0.00	0.00	21.35	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.86	30,960,000.00 gal
Application event totals		0.00	0.00	0.00	21.86	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.69	30,720,000.00 gal
Application event totals		0.00	0.00	0.00	21.69	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.01	29,760,000.00 gal
Application event totals		0.00	0.00	0.00	21.01	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.34	28,800,000.00 gal
Application event totals		0.00	0.00	0.00	20.34	

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F5 E&W - 12/02/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.52	30,480,000.00 gal
Application event totals		0.00	0.00	0.00	21.52	

F6 - 12/03/2019: Alfalfa, hay

Field name: F6

Crop: Alfalfa, hay

Plant date: 12/03/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.97	11,040,000.00 gal
Application event totals		0.00	0.00	0.00	20.97	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	19.60	10,320,000.00 gal
Application event totals		0.00	0.00	0.00	19.60	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.42	11,280,000.00 gal
Application event totals		0.00	0.00	0.00	21.42	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.88	11,520,000.00 gal
Application event totals		0.00	0.00	0.00	21.88	

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F6 - 12/03/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	20.06	10,560,000.00 gal
Application event totals		0.00	0.00	0.00	20.06	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	19.14	10,080,000.00 gal
Application event totals		0.00	0.00	0.00	19.14	
10/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Riverdale Canal	Surface water	0.00	0.00	0.00	21.42	11,280,000.00 gal
Application event totals		0.00	0.00	0.00	21.42	

K1 - 11/08/2022: Wheat, silage, soft dough

Field name:	K1					
Crop:	Wheat, silage, soft dough					
Application date	Plant date: 11/08/2022					
10/19/2022	Broadcast/incorporate		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Feedlot Manure	Corral solids	212.50	50.25	300.01	0.00	170.00 ton
Application event totals		212.50	50.25	300.01	0.00	
10/22/2022	Surface (irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	53.24	1.22	132.79	429.00	612,000.00 gal
W-27	Ground water	0.00	0.00	0.00	518.22	5,100,000.00 gal
Application event totals		53.24	1.22	132.79	947.22	

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K1 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	39.89	2.95	50.15	242.79	396,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	16.33	5,280,000.00 gal
Application event totals		39.89	2.95	50.15	259.12	

K1 - 06/15/2023: Corn, silage

Field name: K1

Crop: Corn, silage Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	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
Feedlot Manure	Corral solids	292.70	53.40	237.54	0.00	170.00 ton
Application event totals		292.70	53.40	237.54	0.00	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	49.61	2.85	59.68	305.87	396,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	16.33	5,280,000.00 gal
Application event totals		49.61	2.85	59.68	322.20	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	17.07	5,520,000.00 gal
Application event totals		0.00	0.00	0.00	17.07	

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K1 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	40.59	2.33	48.83	250.26	324,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	13.36	4,320,000.00 gal
Application event totals		40.59	2.33	48.83	263.62	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	17.07	5,520,000.00 gal
Application event totals		0.00	0.00	0.00	17.07	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	29.32	3.05	26.59	159.15	306,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	12.62	4,080,000.00 gal
Application event totals		29.32	3.05	26.59	171.77	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	14.10	4,560,000.00 gal
Application event totals		0.00	0.00	0.00	14.10	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	14.84	4,800,000.00 gal
Application event totals		0.00	0.00	0.00	14.84	

K10 - 11/06/2022: Wheat, silage, soft dough

Field name: K10

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022

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K10 - 11/06/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	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
Corral Manure	Corral solids	206.25	40.53	267.33	0.00	200.00 ton
Application event totals		206.25	40.53	267.33	0.00	
10/26/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	36.86	0.84	91.93	297.00	486,000.00 gal
W-19	Ground water	0.00	0.00	0.00	353.57	3,240,000.00 gal
W-20	Ground water	0.00	0.00	0.00	176.79	1,620,000.00 gal
W-21	Ground water	2.75	0.00	0.00	374.37	1,944,000.00 gal
Application event totals		39.61	0.84	91.93	1,201.73	
02/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	34.77	2.58	43.72	211.67	396,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.24	5,280,000.00 gal
Application event totals		34.77	2.58	43.72	225.90	

K10 - 06/20/2023: Corn, silage

Field name: K10

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	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
Corral Manure	Corral solids	294.25	34.64	187.88	0.00	200.00 ton
Application event totals		294.25	34.64	187.88	0.00	

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K10 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	16.18	6,000,000.00 gal
Application event totals		0.00	0.00	0.00	16.18	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	53.08	3.05	63.85	327.26	486,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	17.47	6,480,000.00 gal
Application event totals		53.08	3.05	63.85	344.73	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	16.18	6,000,000.00 gal
Application event totals		0.00	0.00	0.00	16.18	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	45.21	2.60	54.39	278.78	414,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.88	5,520,000.00 gal
Application event totals		45.21	2.60	54.39	293.66	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	13.59	5,040,000.00 gal
Application event totals		0.00	0.00	0.00	13.59	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	12.94	4,800,000.00 gal
Application event totals		0.00	0.00	0.00	12.94	

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K10 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	31.57	3.28	28.63	171.39	378,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	13.59	5,040,000.00 gal
Application event totals		31.57	3.28	28.63	184.98	

K11 - 11/05/2022: Wheat, silage, soft dough

Field name: K11

Crop: Wheat, silage, soft dough Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	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
Corral Manure	Corral solids	210.67	41.40	273.06	0.00	110.00 ton
Application event totals		210.67	41.40	273.06	0.00	
10/27/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	35.50	0.81	88.52	286.00	252,000.00 gal
W-19	Ground water	0.00	0.00	0.00	340.48	1,680,000.00 gal
W-20	Ground water	0.00	0.00	0.00	170.24	840,000.00 gal
W-21	Ground water	2.64	0.00	0.00	360.50	1,008,000.00 gal
Application event totals		38.14	0.81	88.52	1,157.22	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	35.22	2.61	44.29	214.41	216,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.42	2,880,000.00 gal
Application event totals		35.22	2.61	44.29	228.83	

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K11 - 06/21/2023: Corn, silage

Field name: K11

Crop: Corn, silage

Plant date: 06/21/2023

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
Corral Manure	Corral solids	300.55	35.38	191.90	0.00	110.00 ton
Application event totals		300.55	35.38	191.90	0.00	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	47.46	2.72	57.09	292.63	234,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	15.62	3,120,000.00 gal
Application event totals		47.46	2.72	57.09	308.25	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	16.82	3,360,000.00 gal
Application event totals		0.00	0.00	0.00	16.82	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	54.76	3.14	65.88	337.65	270,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	18.03	3,600,000.00 gal
Application event totals		54.76	3.14	65.88	355.68	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	15.62	3,120,000.00 gal
Application event totals		0.00	0.00	0.00	15.62	

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K11 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	14.42	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	14.42	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	30.71	3.19	27.85	166.73	198,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	13.22	2,640,000.00 gal
Application event totals		30.71	3.19	27.85	179.94	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	10.82	2,160,000.00 gal
Application event totals		0.00	0.00	0.00	10.82	

K12 - 12/05/2020: Alfalfa, hay

Field name:	K12					
Crop:	Alfalfa, hay					
Application date	Plant date: 12/05/2020					
04/19/2023	Surface (irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	19.58	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	19.58	
05/25/2023	Surface (irrigation)		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	18.71	10,320,000.00 gal
Application event totals		0.00	0.00	0.00	18.71	

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K12 - 12/05/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	20.45	11,280,000.00 gal
Application event totals		0.00	0.00	0.00	20.45	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	20.88	11,520,000.00 gal
Application event totals		0.00	0.00	0.00	20.88	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	19.14	10,560,000.00 gal
Application event totals		0.00	0.00	0.00	19.14	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	20.01	11,040,000.00 gal
Application event totals		0.00	0.00	0.00	20.01	
10/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	18.27	10,080,000.00 gal
Application event totals		0.00	0.00	0.00	18.27	

K13 - 11/07/2022: Wheat, silage, soft dough

Field name: K13

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

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

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**K13 - 11/07/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/19/2022	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
Feedlot Manure	Corral solids	212.50	50.25	300.01	0.00	90.00 ton
Application event totals		212.50	50.25	300.01	0.00	
10/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	56.20	1.28	140.16	452.83	342,000.00 gal
W-27	Ground water	0.00	0.00	0.00	547.01	2,850,000.00 gal
Application event totals		56.20	1.28	140.16	999.85	
02/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	34.25	2.54	43.06	208.46	180,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.02	2,400,000.00 gal
Application event totals		34.25	2.54	43.06	222.48	

**K13 - 06/21/2023: Corn, silage**

Field name: K13

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.23	3,120,000.00 gal
Application event totals		0.00	0.00	0.00	18.23	

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K13 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	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
Feedlot Manure	Corral solids	312.05	56.93	253.24	0.00	90.00 ton
Application event totals		312.05	56.93	253.24	0.00	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	46.85	2.69	56.36	288.88	198,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	15.42	2,640,000.00 gal
Application event totals		46.85	2.69	56.36	304.30	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	16.82	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	16.82	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	42.59	2.45	51.24	262.62	180,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.02	2,400,000.00 gal
Application event totals		42.59	2.45	51.24	276.64	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	15.42	2,640,000.00 gal
Application event totals		0.00	0.00	0.00	15.42	

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K13 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	29.32	3.05	26.59	159.15	162,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	12.62	2,160,000.00 gal
Application event totals		29.32	3.05	26.59	171.77	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	14.02	2,400,000.00 gal
Application event totals		0.00	0.00	0.00	14.02	

K14 - 11/07/2022: Wheat, silage, soft dough

Field name: K14

Crop: Wheat, silage, soft dough Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/19/2022	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
Feedlot Manure	Corral solids	218.24	51.61	308.12	0.00	190.00 ton
Application event totals		218.24	51.61	308.12	0.00	
10/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	51.81	1.18	129.20	417.41	648,000.00 gal
W-27	Ground water	0.00	0.00	0.00	504.22	5,400,000.00 gal
Application event totals		51.81	1.18	129.20	921.62	

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K14 - 11/07/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	34.99	2.59	43.99	212.97	378,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.32	5,040,000.00 gal
Application event totals		34.99	2.59	43.99	227.29	

K14 - 06/21/2023: Corn, silage

Field name: K14

Crop: Corn, silage Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.10	6,720,000.00 gal
Application event totals		0.00	0.00	0.00	19.10	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Feedlot Manure	Corral solids	320.48	58.47	260.08	0.00	190.00 ton
Application event totals		320.48	58.47	260.08	0.00	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	45.58	2.62	54.84	281.07	396,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	15.00	5,280,000.00 gal
Application event totals		45.58	2.62	54.84	296.08	

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K14 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	43.51	2.50	52.35	268.30	378,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.32	5,040,000.00 gal
Application event totals		43.51	2.50	52.35	282.62	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	15.00	5,280,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	15.69	5,520,000.00 gal
Application event totals		0.00	0.00	0.00	30.69	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	15.69	5,520,000.00 gal
Application event totals		0.00	0.00	0.00	15.69	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	13.64	4,800,000.00 gal
Application event totals		0.00	0.00	0.00	13.64	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	30.11	3.13	27.31	163.45	342,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	12.96	4,560,000.00 gal
Application event totals		30.11	3.13	27.31	176.41	

K2 - 11/08/2022: Wheat, silage, soft dough

Field name: K2

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

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K2 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/19/2022	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
Feedlot Manure	Corral solids	215.77	51.02	304.63	0.00	330.00 ton
Application event totals		215.77	51.02	304.63	0.00	
10/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	54.88	1.25	136.87	442.20	1,206,000.00 gal
W-27	Ground water	0.00	0.00	0.00	534.17	10,050,000.00 gal
Application event totals		54.88	1.25	136.87	976.37	
02/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	37.93	2.81	47.70	230.91	720,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	15.53	9,600,000.00 gal
Application event totals		37.93	2.81	47.70	246.44	

K2 - 06/08/2023: Corn, silage

Field name: K2

Crop: Corn, silage

Plant date: 06/08/2023

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
Feedlot Manure	Corral solids	316.85	57.81	257.14	0.00	330.00 ton
Application event totals		316.85	57.81	257.14	0.00	

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K2 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	51.90	2.98	62.43	319.99	792,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	17.08	10,560,000.00 gal
Application event totals		51.90	2.98	62.43	337.07	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	15.53	9,600,000.00 gal
Application event totals		0.00	0.00	0.00	15.53	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	44.82	2.57	53.92	276.35	684,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.75	9,120,000.00 gal
Application event totals		44.82	2.57	53.92	291.11	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	14.36	8,880,000.00 gal
Application event totals		0.00	0.00	0.00	14.36	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	31.57	3.28	28.63	171.39	630,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	13.59	8,400,000.00 gal
Application event totals		31.57	3.28	28.63	184.98	

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K2 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	13.98	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	13.98	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	13.59	8,400,000.00 gal
Application event totals		0.00	0.00	0.00	13.59	

K3 - 12/06/2018: Alfalfa, hay

Field name: K3

Crop: Alfalfa, hay

Plant date: 12/06/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.18	4,560,000.00 gal
Application event totals		0.00	0.00	0.00	19.18	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	20.19	4,800,000.00 gal
Application event totals		0.00	0.00	0.00	20.19	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	21.20	5,040,000.00 gal
Application event totals		0.00	0.00	0.00	21.20	

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K3 - 12/06/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	22.21	5,280,000.00 gal
Application event totals		0.00	0.00	0.00	22.21	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.17	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	18.17	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	17.16	4,080,000.00 gal
Application event totals		0.00	0.00	0.00	17.16	
10/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.17	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	18.17	

K4 - 11/07/2022: Wheat, silage, soft dough

Field name: K4

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/19/2022	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
Feedlot Manure	Corral solids	212.50	50.25	300.01	0.00	90.00 ton
Application event totals		212.50	50.25	300.01	0.00	

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K4 - 11/07/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	29.58	0.68	73.77	238.33	180,000.00 gal
W-27	Ground water	0.00	0.00	0.00	575.81	3,000,000.00 gal
Application event totals		29.58	0.68	73.77	814.14	
02/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	37.67	2.79	47.37	229.30	198,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	15.42	2,640,000.00 gal
Application event totals		37.67	2.79	47.37	244.73	

K4 - 06/19/2023: Corn, silage

Field name: K4

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	51.11	2.93	61.49	315.14	216,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	16.82	2,880,000.00 gal
Application event totals		51.11	2.93	61.49	331.96	
05/22/2023	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
Feedlot Manure	Corral solids	312.05	56.93	253.24	0.00	90.00 ton
Application event totals		312.05	56.93	253.24	0.00	

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K4 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.23	3,120,000.00 gal
Application event totals		0.00	0.00	0.00	18.23	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	42.59	2.45	51.24	262.62	180,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.02	2,400,000.00 gal
Application event totals		42.59	2.45	51.24	276.64	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	15.42	2,640,000.00 gal
Application event totals		0.00	0.00	0.00	15.42	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	12.62	2,160,000.00 gal
Application event totals		0.00	0.00	0.00	12.62	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	16.82	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	16.82	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	32.58	3.39	29.54	176.83	180,000.00 gal
Laguna Canal	Ground water	0.00	0.00	0.00	14.02	2,400,000.00 gal
Application event totals		32.58	3.39	29.54	190.85	

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K5 - 12/05/2018: Alfalfa, hay

Field name: K5

Crop: Alfalfa, hay

Plant date: 12/05/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.83	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	19.83	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.03	7,200,000.00 gal
Application event totals		0.00	0.00	0.00	18.03	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.83	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	19.83	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	21.03	8,400,000.00 gal
Application event totals		0.00	0.00	0.00	21.03	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	20.43	8,160,000.00 gal
Application event totals		0.00	0.00	0.00	20.43	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.63	7,440,000.00 gal
Application event totals		0.00	0.00	0.00	18.63	

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K5 - 12/05/2018: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.03	7,200,000.00 gal
Application event totals		0.00	0.00	0.00	18.03	

K6 - 12/04/2019: Alfalfa, hay

Field name: K6

Crop: Alfalfa, hay

Plant date: 12/04/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.50	12,240,000.00 gal
Application event totals		0.00	0.00	0.00	19.50	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	17.97	11,280,000.00 gal
Application event totals		0.00	0.00	0.00	17.97	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.88	12,480,000.00 gal
Application event totals		0.00	0.00	0.00	19.88	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	20.65	12,960,000.00 gal
Application event totals		0.00	0.00	0.00	20.65	

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K6 - 12/04/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	20.26	12,720,000.00 gal
Application event totals		0.00	0.00	0.00	20.26	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	19.12	12,000,000.00 gal
Application event totals		0.00	0.00	0.00	19.12	
10/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna Canal	Ground water	0.00	0.00	0.00	18.35	11,520,000.00 gal
Application event totals		0.00	0.00	0.00	18.35	

K7 - 11/08/2022: Wheat, silage, soft dough

Field name:	K7					
Crop:	Wheat, silage, soft dough					
Application date	Plant date: 11/08/2022		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/20/2022	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
Corral Manure	Corral solids	205.19	40.33	265.97	0.00	250.00 ton
Application event totals		205.19	40.33	265.97	0.00	

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K7 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	33.69	0.77	84.01	271.41	558,000.00 gal
W-19	Ground water	0.00	0.00	0.00	323.10	3,720,000.00 gal
W-20	Ground water	0.00	0.00	0.00	161.55	1,860,000.00 gal
W-21	Ground water	2.51	0.00	0.00	342.11	2,232,000.00 gal
Application event totals		36.19	0.77	84.01	1,098.18	
02/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	41.51	3.08	52.20	288.92	594,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	17.00	7,920,000.00 gal
Application event totals		41.51	3.08	52.20	305.91	

K7 - 06/19/2023: Corn, silage

Field name: K7

Crop: Corn, silage

Plant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	18.03	8,400,000.00 gal
Application event totals		0.00	0.00	0.00	18.03	
06/07/2023	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
Corral Manure	Corral solids	292.74	34.46	186.92	0.00	250.00 ton
Application event totals		292.74	34.46	186.92	0.00	

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K7 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	51.63	2.96	62.11	318.36	594,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	17.00	7,920,000.00 gal
Application event totals		51.63	2.96	62.11	335.35	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	15.45	7,200,000.00 gal
Application event totals		0.00	0.00	0.00	15.45	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	43.81	2.51	52.70	270.12	504,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.42	6,720,000.00 gal
Application event totals		43.81	2.51	52.70	284.54	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	13.91	6,480,000.00 gal
Application event totals		0.00	0.00	0.00	13.91	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	31.11	3.24	28.21	168.89	468,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	13.39	6,240,000.00 gal
Application event totals		31.11	3.24	28.21	182.28	

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K7 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	12.88	6,000,000.00 gal
Application event totals		0.00	0.00	0.00	12.88	

K8 - 11/06/2022: Wheat, silage, soft dough

Field name: K8

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	
10/20/2022	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
Corral Manure	Corral solids	201.09	39.52	260.65	0.00	340.00 ton
Application event totals		201.09	39.52	260.65	0.00	
10/23/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	33.67	0.77	83.97	271.28	774,000.00 gal
W-19	Ground water	0.00	0.00	0.00	322.95	5,160,000.00 gal
W-20	Ground water	0.00	0.00	0.00	161.48	2,580,000.00 gal
W-21	Ground water	2.51	0.00	0.00	341.95	3,096,000.00 gal
Application event totals		36.18	0.77	83.97	1,097.66	
02/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	36.26	2.69	45.59	220.72	720,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.84	9,600,000.00 gal
Application event totals		36.26	2.69	45.59	235.56	

K8 - 06/20/2023: Corn, silage

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K8 - 06/20/2023: Corn, silage

Field name: K8

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	49.61	2.85	59.68	305.87	792,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	16.33	10,560,000.00 gal
Application event totals		49.61	2.85	59.68	322.20	
06/07/2023	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
Corral Manure	Corral solids	286.89	33.77	183.18	0.00	340.00 ton
Application event totals		286.89	33.77	183.18	0.00	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.73	2.91	61.03	312.82	810,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	16.70	10,800,000.00 gal
Application event totals		50.73	2.91	61.03	329.52	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	15.96	10,320,000.00 gal
Application event totals		0.00	0.00	0.00	15.96	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	14.47	9,360,000.00 gal
Application event totals		0.00	0.00	0.00	14.47	

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K8 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	31.90	3.32	28.93	173.19	666,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	13.73	8,880,000.00 gal
Application event totals		31.90	3.32	28.93	186.92	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	13.36	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	13.36	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	12.62	8,160,000.00 gal
Application event totals		0.00	0.00	0.00	12.62	

K9 - 11/06/2022: Wheat, silage, soft dough

Field name: K9

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	
10/20/2022	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
Corral Manure	Corral solids	201.09	39.52	260.65	0.00	180.00 ton
Application event totals		201.09	39.52	260.65	0.00	

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K9 - 11/06/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	32.54	0.74	81.15	262.17	396,000.00 gal
W-19	Ground water	0.00	0.00	0.00	312.10	2,640,000.00 gal
W-20	Ground water	0.00	0.00	0.00	156.05	1,320,000.00 gal
W-21	Ground water	2.42	0.00	0.00	330.46	1,584,000.00 gal
Application event totals		34.96	0.74	81.15	1,060.78	
02/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	41.09	3.04	51.67	250.15	432,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	16.82	5,760,000.00 gal
Application event totals		41.09	3.04	51.67	266.97	

K9 - 06/20/2023: Corn, silage

Field name: K9

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	18.23	6,240,000.00 gal
Application event totals		0.00	0.00	0.00	18.23	
06/08/2023	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
Corral Manure	Corral solids	286.89	33.77	183.18	0.00	180.00 ton
Application event totals		286.89	33.77	183.18	0.00	

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K9 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	53.24	3.06	64.05	328.27	450,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	17.52	6,000,000.00 gal
Application event totals		53.24	3.06	64.05	345.80	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	15.42	5,280,000.00 gal
Application event totals		0.00	0.00	0.00	15.42	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	42.59	2.45	51.24	262.62	360,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	14.02	4,800,000.00 gal
Application event totals		42.59	2.45	51.24	276.64	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	14.72	5,040,000.00 gal
Application event totals		0.00	0.00	0.00	14.72	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Kings River	Surface water	0.00	0.00	0.00	12.62	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	12.62	

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K9 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	30.95	3.22	28.06	167.99	342,000.00 gal
Kings River	Surface water	0.00	0.00	0.00	13.32	4,560,000.00 gal
Application event totals		30.95	3.22	28.06	181.31	

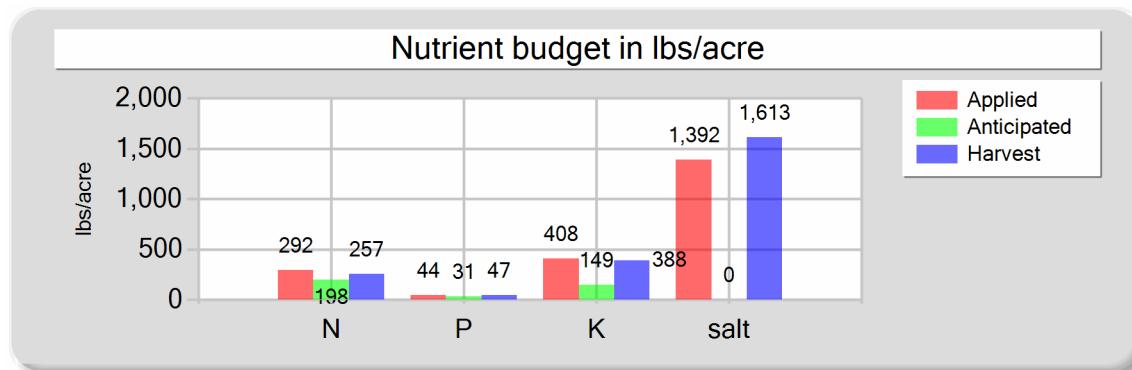
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**B. NUTRIENT BUDGET**

F1 - 11/07/2022: Wheat, silage, soft dough

Field name: F1      Crop: Wheat, silage, soft dough      Plant date: 11/07/2022



	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	204.50	40.19	265.07	0.00
Process wastewater	80.67	3.42	142.49	564.00
Fresh water	0.00	0.00	0.00	828.38
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>292.17</b>	<b>43.60</b>	<b>407.55</b>	<b>1,392.37</b>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	257.01	46.75	387.59	1,612.68
Nutrient balance	35.16	-3.15	19.97	-220.31
Applied to removed ratio	1.14	0.93	1.05	0.86

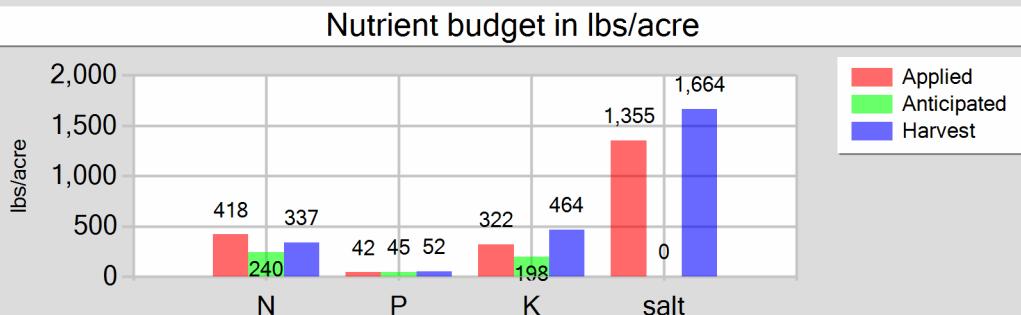
Fresh water applied
18,462,000.00 gallons
679.89 acre-inches
11.52 inches/acre
Process wastewater applied
1,332,000.00 gallons
49.05 acre-inches
0.83 inches/acre
Total harvests for the crop
1 harvests

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F1 - 06/08/2023: Corn, silage

Field name: F1      Crop: Corn, silage      Plant date: 06/08/2023



	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	291.75	34.34	186.28	0.00
Process wastewater	119.09	8.09	135.32	714.52
Fresh water	0.00	0.00	0.00	640.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	417.84	42.43	321.61	1,354.56
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	337.11	51.81	464.17	1,664.45
Nutrient balance	80.73	-9.38	-142.56	-309.89
Applied to removed ratio	1.24	0.82	0.69	0.81

**Fresh water applied**  
58,824,000.00 gallons  
2,166.29 acre-inches  
36.72 inches/acre

**Process wastewater applied**  
1,764,000.00 gallons  
64.96 acre-inches  
1.10 inches/acre

**Total harvests for the crop**  
1 harvests

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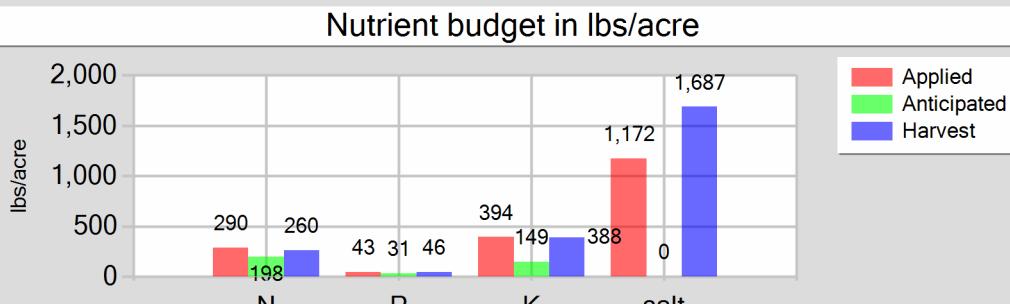
Reporting period 01/01/2023 to 12/31/2023.

F2 - 11/07/2022: Wheat, silage, soft dough

Field name: F2

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	201.09	39.52	260.65	0.00
Process wastewater	81.99	3.79	133.00	555.90
Fresh water	0.00	0.00	0.00	616.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	290.08	43.31	393.65	1,171.93
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	259.97	46.25	387.71	1,686.89
Nutrient balance	30.11	-2.95	5.94	-514.96
Applied to removed ratio	1.12	0.94	1.02	0.69

**Fresh water applied**

5,442,000.00 gallons  
200.41 acre-inches  
11.13 inches/acre

**Process wastewater applied**

396,000.00 gallons  
14.58 acre-inches  
0.81 inches/acre

**Total harvests for the crop**

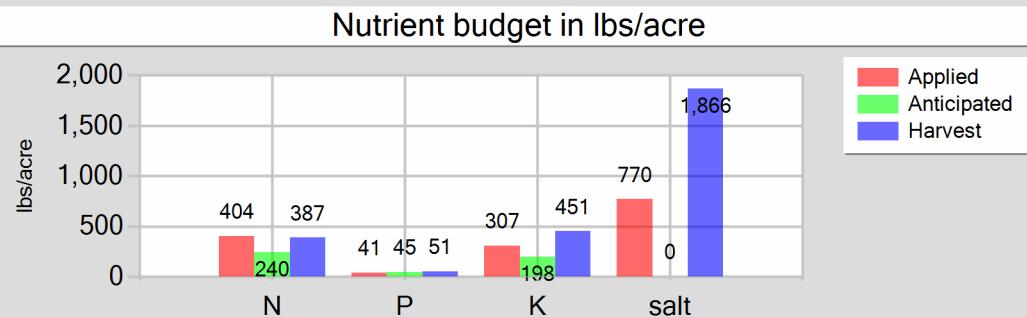
1 harvests

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F2 - 06/15/2023: Corn, silage

Field name: F2      Crop: Corn, silage      Plant date: 06/15/2023



	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	286.89	33.77	183.18	0.00
Process wastewater	110.24	7.69	123.94	658.12
Fresh water	0.00	0.00	0.00	111.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	404.13	41.46	307.12	769.74
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	386.62	50.74	450.56	1,865.95
Nutrient balance	17.52	-9.28	-143.44	-1,096.21
Applied to removed ratio	1.05	0.82	0.68	0.41

**Fresh water applied**

18,240,000.00 gallons
671.72 acre-inches
37.32 inches/acre

**Process wastewater applied**

504,000.00 gallons
18.56 acre-inches
1.03 inches/acre

**Total harvests for the crop**

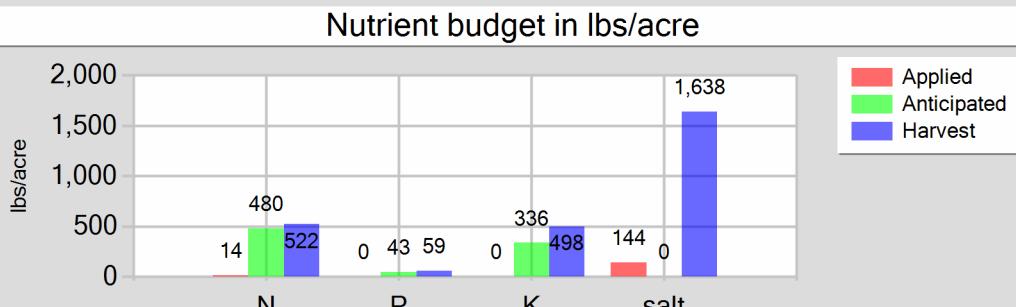
1 harvests
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Reporting period 01/01/2023 to 12/31/2023.

F3 - 12/04/2020: Alfalfa, hay

Field name: F3      Crop: Alfalfa, hay      Plant date: 12/04/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	143.51
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	143.51
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	522.04	58.51	498.14	1,638.18
Nutrient balance	-508.04	-58.51	-498.14	-1,494.66
Applied to removed ratio	0.03	0.00	0.00	0.09

**Fresh water applied**

27,360,000.00 gallons
1,007.58 acre-inches
47.98 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

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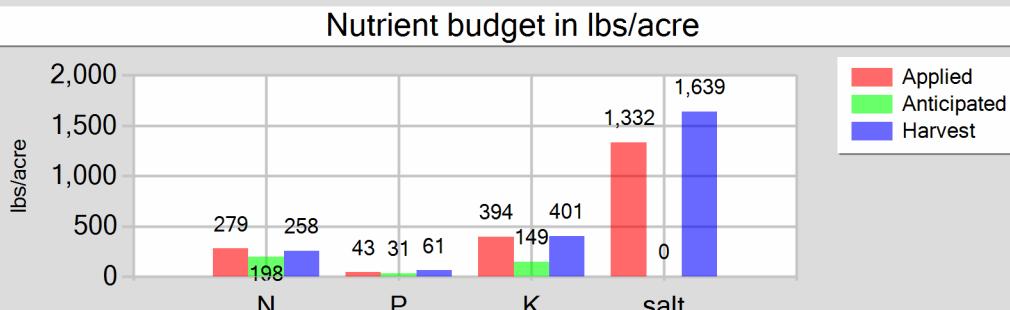
Reporting period 01/01/2023 to 12/31/2023.

F4 - 11/08/2022: Wheat, silage, soft dough

Field name: F4

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	201.09	39.52	260.65	0.00
Process wastewater	70.50	3.36	133.69	500.89
Fresh water	0.00	0.00	0.00	831.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.59	42.88	394.34	1,332.35
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	257.83	61.45	401.50	1,638.76
Nutrient balance	20.75	-18.58	-7.16	-306.41
Applied to removed ratio	1.08	0.70	0.98	0.81

**Fresh water applied**

11,748,000.00 gallons  
432.64 acre-inches  
11.39 inches/acre

**Process wastewater applied**

846,000.00 gallons  
31.16 acre-inches  
0.82 inches/acre

**Total harvests for the crop**

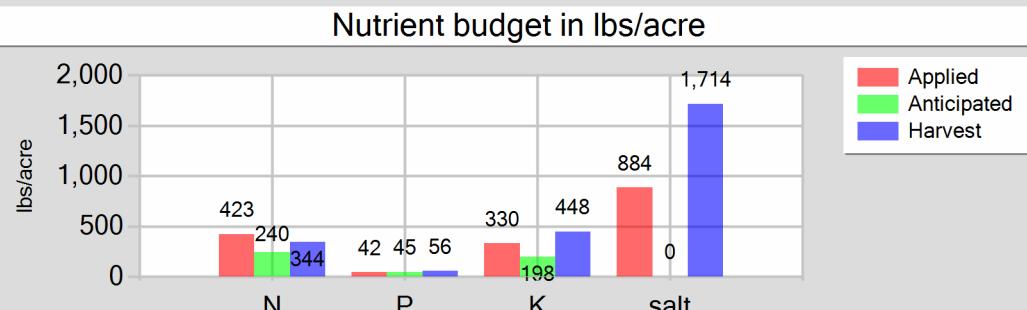
1 harvests

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F4 - 06/15/2023: Corn, silage

Field name: F4      Crop: Corn, silage      Plant date: 06/15/2023



	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	286.89	33.77	183.18	0.00
Process wastewater	128.65	8.68	146.54	772.76
Fresh water	0.00	0.00	0.00	111.31
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	422.54	42.45	329.72	884.07
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	343.72	55.53	447.93	1,714.03
Nutrient balance	78.82	-13.08	-118.21	-829.96
Applied to removed ratio	1.23	0.76	0.74	0.52

**Fresh water applied**  
38,400,000.00 gallons  
1,414.14 acre-inches  
37.21 inches/acre

**Process wastewater applied**  
1,224,000.00 gallons  
45.08 acre-inches  
1.19 inches/acre

**Total harvests for the crop**  
1 harvests

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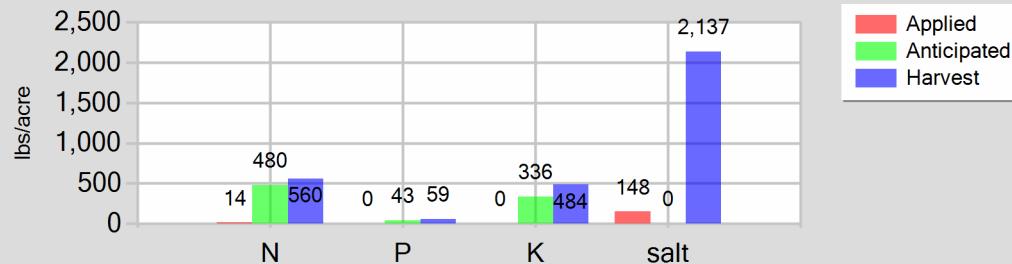
F5 E&W - 12/02/2022: Alfalfa, hay

Field name: F5 E&W

Crop: Alfalfa, hay

Plant date: 12/02/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	148.28
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	148.28
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	559.97	59.45	483.65	2,137.06
Nutrient balance	-545.97	-59.45	-483.65	-1,988.78
Applied to removed ratio	0.03	0.00	0.00	0.07

**Fresh water applied**

210,000,000.00 gallons  
7,733.59 acre-inches  
49.57 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

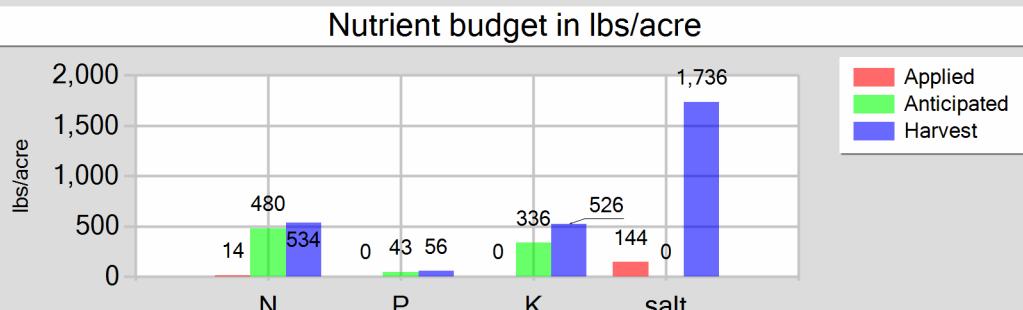
1 harvests

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

F6 - 12/03/2019: Alfalfa, hay

Field name: F6      Crop: Alfalfa, hay      Plant date: 12/03/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	144.49
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	144.49
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	533.51	55.74	525.55	1,735.90
Nutrient balance	-519.51	-55.74	-525.55	-1,591.41
Applied to removed ratio	0.03	0.00	0.00	0.08

**Fresh water applied**  
76,080,000.00 gallons  
2,801.77 acre-inches  
48.31 inches/acre

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

**Total harvests for the crop**  
1 harvests

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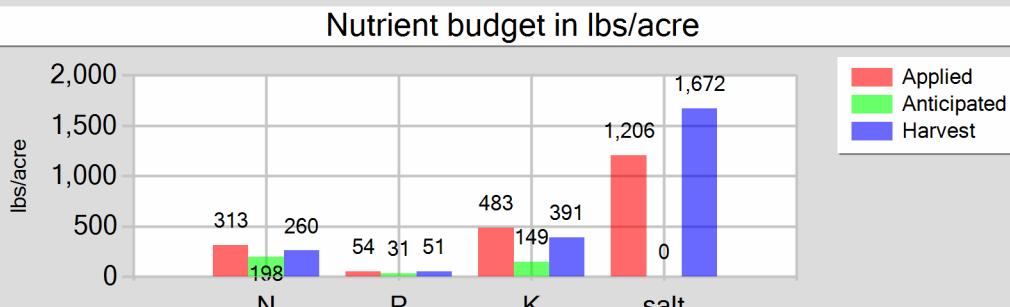
Reporting period 01/01/2023 to 12/31/2023.

K1 - 11/08/2022: Wheat, silage, soft dough

Field name: K1

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	212.50	50.25	300.01	0.00
Process wastewater	93.13	4.17	182.94	671.79
Fresh water	0.00	0.00	0.00	534.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.63	54.42	482.95	1,206.35
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	259.56	51.25	390.57	1,671.93
Nutrient balance	53.07	3.17	92.37	-465.58
Applied to removed ratio	1.20	1.06	1.24	0.72

**Fresh water applied**

10,380,000.00 gallons  
382.26 acre-inches  
11.24 inches/acre

**Process wastewater applied**

1,008,000.00 gallons  
37.12 acre-inches  
1.09 inches/acre

**Total harvests for the crop**

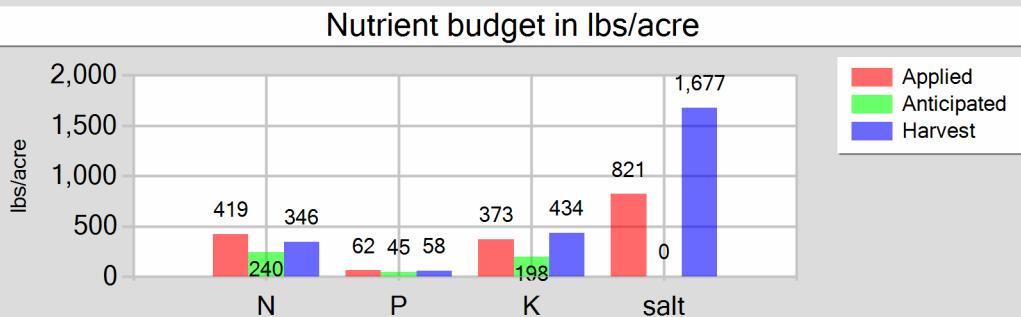
1 harvests

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

K1 - 06/15/2023: Corn, silage

Field name: K1      Crop: Corn, silage      Plant date: 06/15/2023



	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	292.70	53.40	237.54	0.00
Process wastewater	119.51	8.23	135.09	715.28
Fresh water	0.00	0.00	0.00	105.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	419.21	61.63	372.63	820.67
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	346.34	58.11	434.07	1,676.57
Nutrient balance	72.88	3.52	-61.44	-855.90
Applied to removed ratio	1.21	1.06	0.86	0.49

**Fresh water applied**  
34,080,000.00 gallons  
1,255.05 acre-inches  
36.91 inches/acre

**Process wastewater applied**  
1,026,000.00 gallons  
37.78 acre-inches  
1.11 inches/acre

**Total harvests for the crop**  
1 harvests

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

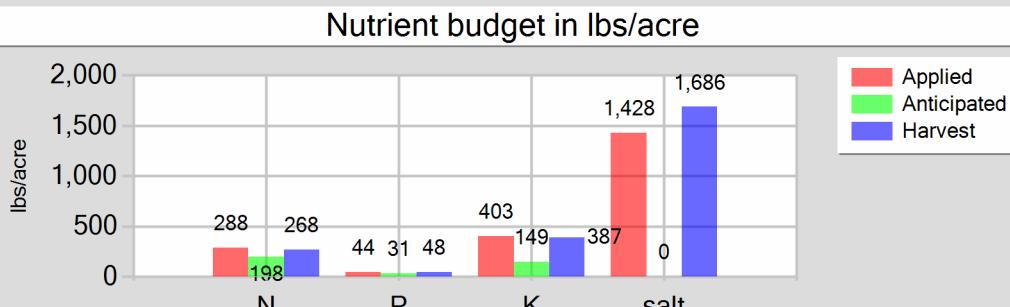
Reporting period 01/01/2023 to 12/31/2023.

K10 - 11/06/2022: Wheat, silage, soft dough

Field name: K10

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)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	206.25	40.53	267.33	0.00
Process wastewater	71.63	3.42	135.65	508.66
Fresh water	2.75	0.00	0.00	918.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.63	43.95	402.98	1,427.63
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	267.61	47.69	387.05	1,686.41
Nutrient balance	20.01	-3.74	15.94	-258.78
Applied to removed ratio	1.07	0.92	1.04	0.85

**Fresh water applied**

12,084,000.00 gallons  
445.01 acre-inches  
11.41 inches/acre

**Process wastewater applied**

882,000.00 gallons  
32.48 acre-inches  
0.83 inches/acre

**Total harvests for the crop**

1 harvests

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

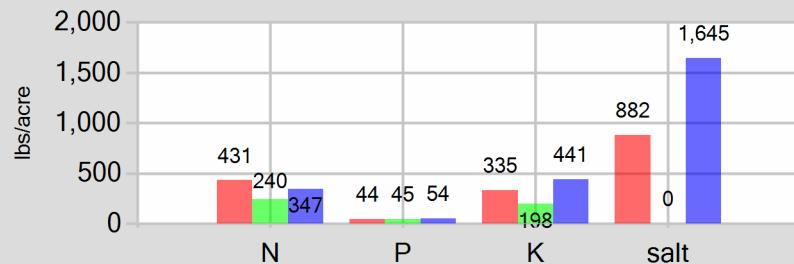
K10 - 06/20/2023: Corn, silage

Field name: K10

Crop: Corn, silage

Plant date: 06/20/2023

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	294.25	34.64	187.88	0.00
Process wastewater	129.86	8.93	146.87	777.43
Fresh water	0.00	0.00	0.00	104.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	431.11	43.56	334.75	882.25
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	347.06	54.38	440.97	1,645.07
Nutrient balance	84.04	-10.82	-106.22	-762.82
Applied to removed ratio	1.24	0.80	0.76	0.54

**Fresh water applied**

38,880,000.00 gallons  
1,431.82 acre-inches  
36.71 inches/acre

**Process wastewater applied**

1,278,000.00 gallons  
47.06 acre-inches  
1.21 inches/acre

**Total harvests for the crop**

1 harvests

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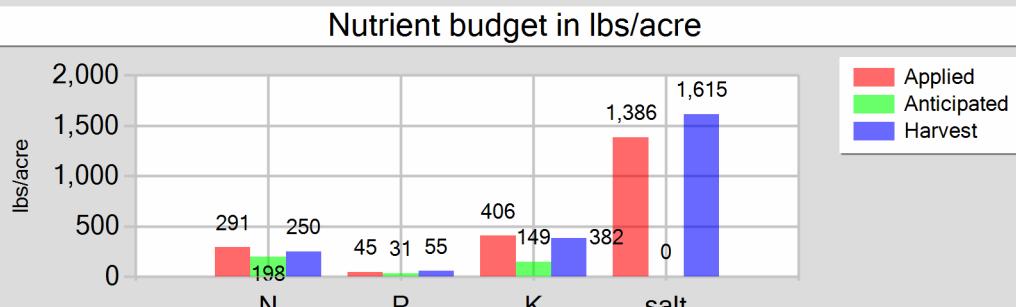
Reporting period 01/01/2023 to 12/31/2023.

K11 - 11/05/2022: Wheat, silage, soft dough

Field name: K11

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



	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	210.67	41.40	273.06	0.00
Process wastewater	70.72	3.42	132.81	500.41
Fresh water	2.64	0.00	0.00	885.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.03	44.82	405.88	1,386.05
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	249.64	54.95	382.47	1,615.48
Nutrient balance	41.39	-10.13	23.41	-229.43
Applied to removed ratio	1.17	0.82	1.06	0.86

**Fresh water applied**

6,408,000.00 gallons  
235.98 acre-inches  
11.24 inches/acre

**Process wastewater applied**

468,000.00 gallons  
17.23 acre-inches  
0.82 inches/acre

**Total harvests for the crop**

1 harvests

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

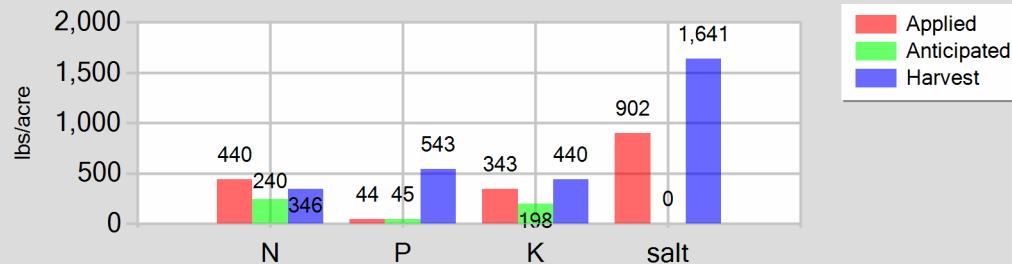
K11 - 06/21/2023: Corn, silage

Field name: K11

Crop: Corn, silage

Plant date: 06/21/2023

**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	300.55	35.38	191.90	0.00
Process wastewater	132.93	9.06	150.83	797.01
Fresh water	0.00	0.00	0.00	104.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	440.48	44.44	342.73	901.55
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	346.27	542.55	439.97	1,641.32
Nutrient balance	94.21	-498.11	-97.24	-739.77
Applied to removed ratio	1.27	0.08	0.78	0.55

**Fresh water applied**

20,880,000.00 gallons  
768.94 acre-inches  
36.62 inches/acre

**Process wastewater applied**

702,000.00 gallons  
25.85 acre-inches  
1.23 inches/acre

**Total harvests for the crop**

1 harvests

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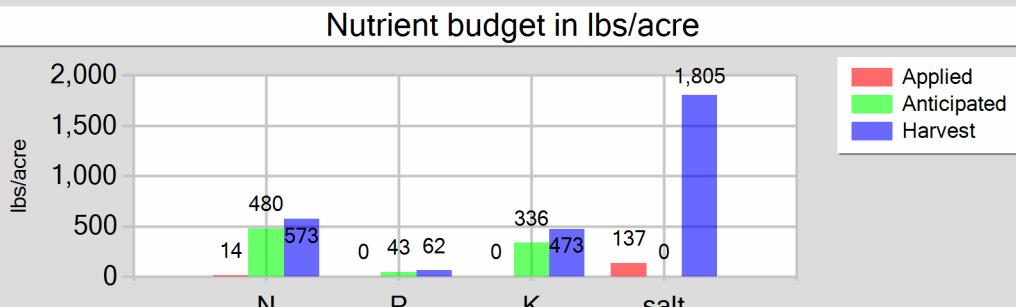
Reporting period 01/01/2023 to 12/31/2023.

K12 - 12/05/2020: Alfalfa, hay

Field name: K12

Crop: Alfalfa, hay

Plant date: 12/05/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	137.05
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	137.05
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	572.79	61.80	473.26	1,805.22
Nutrient balance	-558.79	-61.80	-473.26	-1,668.17
Applied to removed ratio	0.02	0.00	0.00	0.08

**Fresh water applied**

75,600,000.00 gallons
2,784.09 acre-inches
48.00 inches/acre

**Process wastewater applied**

0.00 gallons
0.00 acre-inches
0.00 inches/acre

**Total harvests for the crop**

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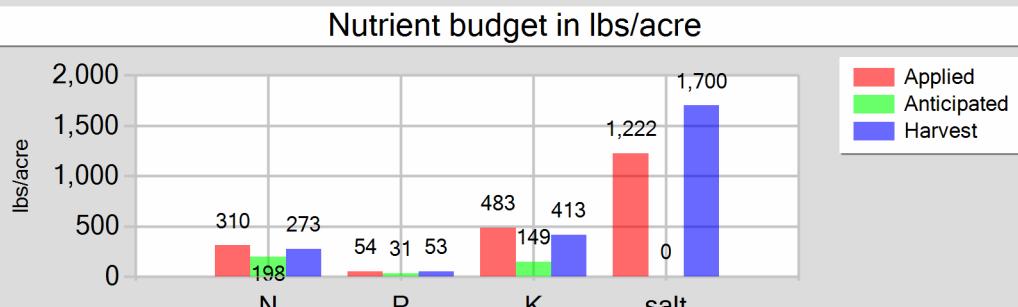
Reporting period 01/01/2023 to 12/31/2023.

K13 - 11/07/2022: Wheat, silage, soft dough

Field name: K13

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	5,250,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	193.34 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.74 inches/acre
Dry manure	212.50	50.25	300.01	0.00	
Process wastewater	90.45	3.82	183.22	661.29	522,000.00 gallons
Fresh water	0.00	0.00	0.00	561.03	19.22 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.07 inches/acre
Total nutrients applied	309.95	54.07	483.23	1,222.33	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	273.02	53.26	413.11	1,700.23	
Nutrient balance	36.93	0.82	70.12	-477.91	Total harvests for the crop
Applied to removed ratio	1.14	1.02	1.17	0.72	1 harvests

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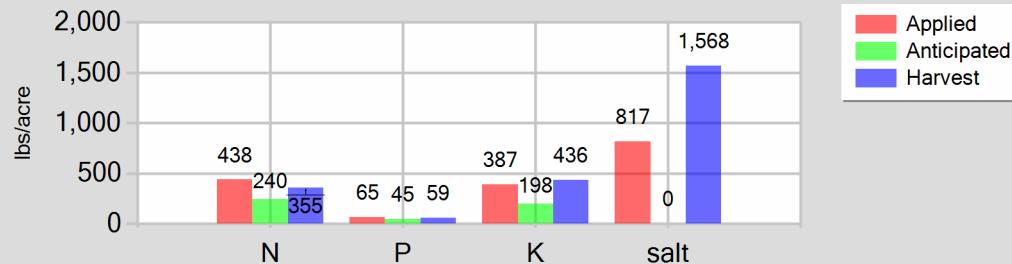
K13 - 06/21/2023: Corn, silage

Field name: K13

Crop: Corn, silage

Plant date: 06/21/2023

**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	312.05	56.93	253.24	0.00
Process wastewater	118.76	8.18	134.19	710.64
Fresh water	0.00	0.00	0.00	106.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	437.81	65.11	387.43	817.19
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	355.16	59.31	436.28	1,567.89
Nutrient balance	82.65	5.81	-48.85	-750.70
Applied to removed ratio	1.23	1.10	0.89	0.52

**Fresh water applied**

18,240,000.00 gallons  
671.72 acre-inches  
37.32 inches/acre

**Process wastewater applied**

540,000.00 gallons  
19.89 acre-inches  
1.10 inches/acre

**Total harvests for the crop**

1 harvests

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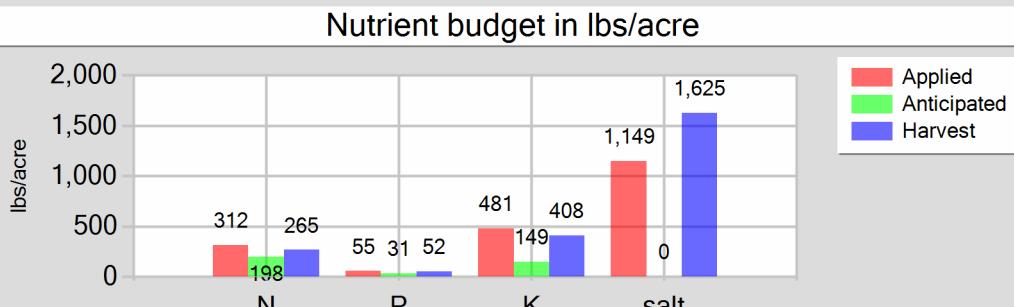
Reporting period 01/01/2023 to 12/31/2023.

K14 - 11/07/2022: Wheat, silage, soft dough

Field name: K14

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	218.24	51.61	308.12	0.00
Process wastewater	86.79	3.78	173.19	630.37
Fresh water	0.00	0.00	0.00	518.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.03	55.38	481.31	1,148.91
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	265.04	52.25	407.64	1,624.95
Nutrient balance	47.00	3.13	73.67	-476.04
Applied to removed ratio	1.18	1.06	1.18	0.71

**Fresh water applied**

10,440,000.00 gallons  
384.47 acre-inches  
10.39 inches/acre

**Process wastewater applied**

1,026,000.00 gallons  
37.78 acre-inches  
1.02 inches/acre

**Total harvests for the crop**

1 harvests

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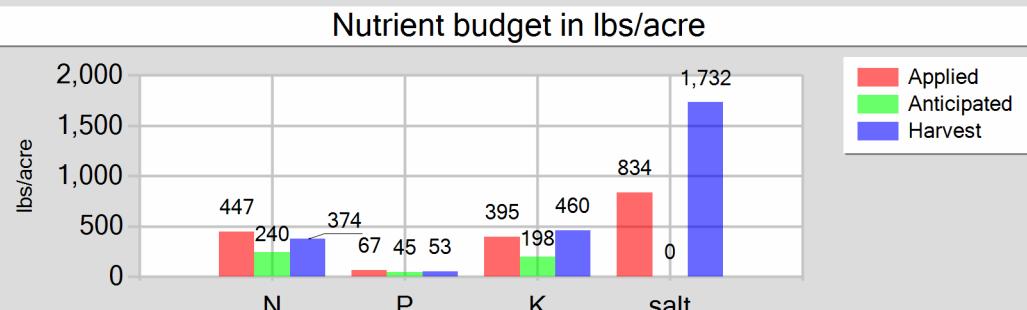
Reporting period 01/01/2023 to 12/31/2023.

K14 - 06/21/2023: Corn, silage

Field name: K14

Crop: Corn, silage

Plant date: 06/21/2023



	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	320.48	58.47	260.08	0.00
Process wastewater	119.21	8.25	134.49	712.82
Fresh water	0.00	0.00	0.00	121.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	446.69	66.72	394.58	834.22
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	374.07	53.11	459.51	1,731.81
Nutrient balance	72.62	13.61	-64.93	-897.59
Applied to removed ratio	1.19	1.26	0.86	0.48

**Fresh water applied**

42,720,000.00 gallons  
1,573.23 acre-inches  
42.52 inches/acre

**Process wastewater applied**

1,116,000.00 gallons  
41.10 acre-inches  
1.11 inches/acre

**Total harvests for the crop**

1 harvests

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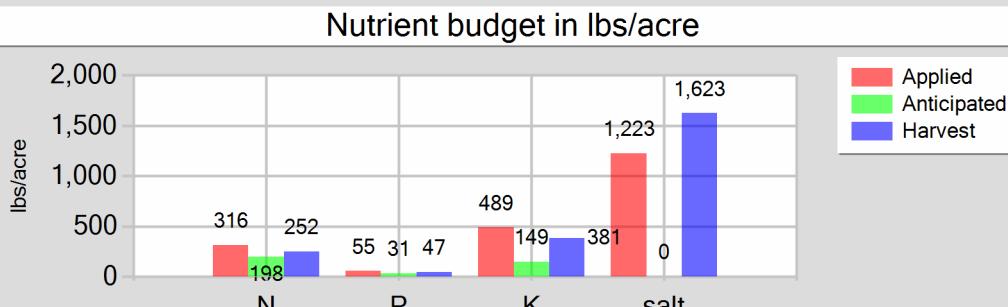
Reporting period 01/01/2023 to 12/31/2023.

K2 - 11/08/2022: Wheat, silage, soft dough

Field name: K2

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	215.77	51.02	304.63	0.00
Process wastewater	92.82	4.06	184.57	673.11
Fresh water	0.00	0.00	0.00	549.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.59	55.09	489.19	1,222.81
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	251.54	46.96	381.01	1,623.30
Nutrient balance	64.04	8.13	108.19	-400.50
Applied to removed ratio	1.25	1.17	1.28	0.75

**Fresh water applied**

19,650,000.00 gallons  
723.64 acre-inches  
11.13 inches/acre

**Process wastewater applied**

1,926,000.00 gallons  
70.93 acre-inches  
1.09 inches/acre

**Total harvests for the crop**

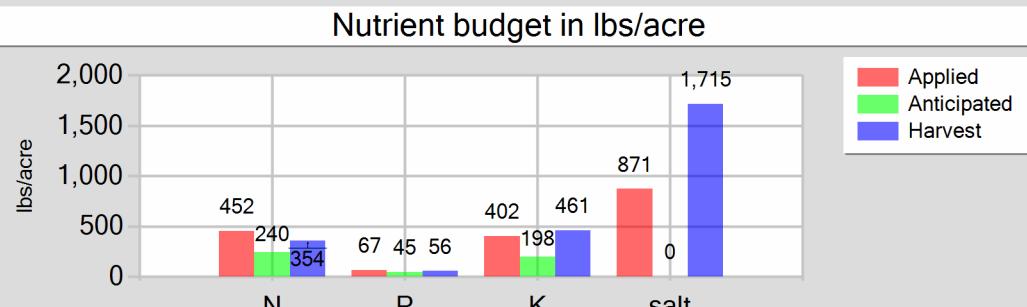
1 harvests

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

K2 - 06/08/2023: Corn, silage

Field name: K2      Crop: Corn, silage      Plant date: 06/08/2023



	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	316.85	57.81	257.14	0.00
Process wastewater	128.29	8.84	144.98	767.73
Fresh water	0.00	0.00	0.00	102.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	452.14	66.64	402.12	870.61
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	354.30	55.61	461.12	1,714.73
Nutrient balance	97.84	11.03	-59.01	-844.12
Applied to removed ratio	1.28	1.20	0.87	0.51

**Fresh water applied**  
63,600,000.00 gallons  
2,342.17 acre-inches  
36.03 inches/acre

**Process wastewater applied**  
2,106,000.00 gallons  
77.56 acre-inches  
1.19 inches/acre

**Total harvests for the crop**  
1 harvests

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

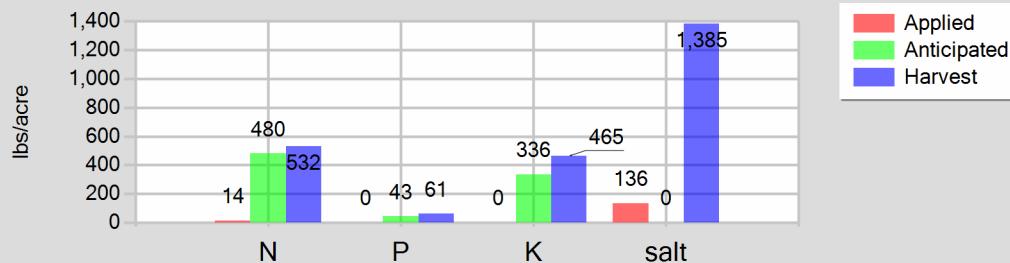
K3 - 12/06/2018: Alfalfa, hay

Field name: K3

Crop: Alfalfa, hay

Plant date: 12/06/2018

**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	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	136.27
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	136.27
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	532.09	60.68	465.19	1,384.69
Nutrient balance	-518.09	-60.68	-465.19	-1,248.42
Applied to removed ratio	0.03	0.00	0.00	0.10

**Fresh water applied**

32,400,000.00 gallons  
1,193.18 acre-inches  
47.73 inches/acre

**Process wastewater applied**

0.00 gallons  
0.00 acre-inches  
0.00 inches/acre

**Total harvests for the crop**

1 harvests

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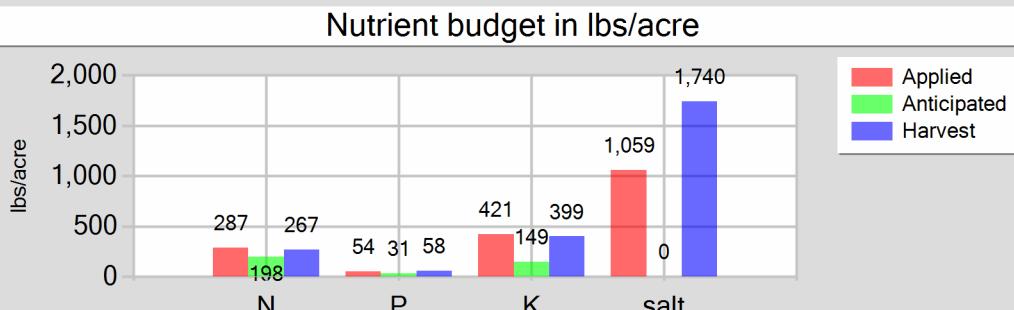
Reporting period 01/01/2023 to 12/31/2023.

K4 - 11/07/2022: Wheat, silage, soft dough

Field name: K4

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	212.50	50.25	300.01	0.00
Process wastewater	67.25	3.47	121.14	467.64
Fresh water	0.00	0.00	0.00	591.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	286.75	53.72	421.15	1,058.86
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	267.29	58.16	399.03	1,740.44
Nutrient balance	19.46	-4.44	22.12	-681.58
Applied to removed ratio	1.07	0.92	1.06	0.61

**Fresh water applied**

5,640,000.00 gallons  
207.70 acre-inches  
11.54 inches/acre

**Process wastewater applied**

378,000.00 gallons  
13.92 acre-inches  
0.77 inches/acre

**Total harvests for the crop**

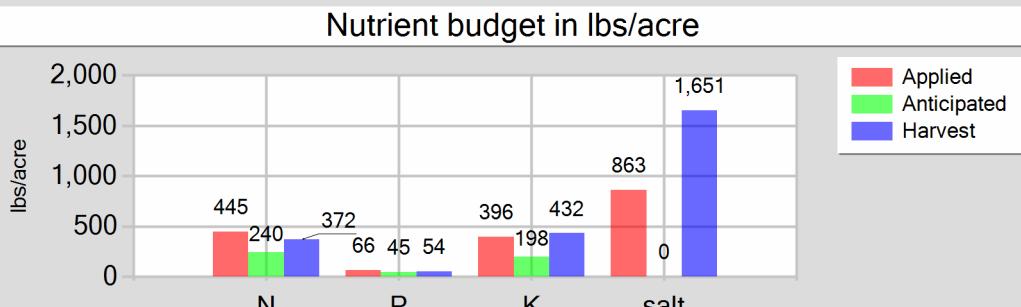
1 harvests

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

K4 - 06/19/2023: Corn, silage

Field name: K4      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	312.05	56.93	253.24	0.00
Process wastewater	126.28	8.77	142.27	754.59
Fresh water	0.00	0.00	0.00	107.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	445.33	65.70	395.51	862.54
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	371.73	53.82	431.88	1,650.64
Nutrient balance	73.59	11.88	-36.37	-788.10
Applied to removed ratio	1.20	1.22	0.92	0.52

**Fresh water applied**

18,480,000.00 gallons
680.56 acre-inches
37.81 inches/acre

**Process wastewater applied**

576,000.00 gallons
21.21 acre-inches
1.18 inches/acre

**Total harvests for the crop**

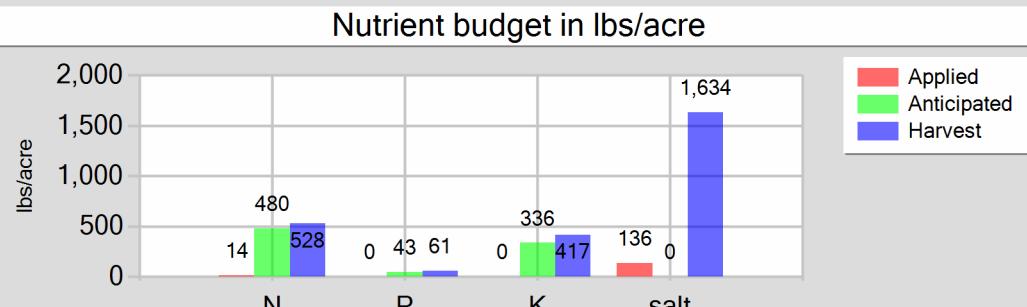
1 harvests
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**Annual Report - General Order No. R5-2007-0035**

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

K5 - 12/05/2018: Alfalfa, hay

Field name: K5      Crop: Alfalfa, hay      Plant date: 12/05/2018



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	135.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	135.79
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	527.50	60.70	417.14	1,634.33
Nutrient balance	-513.50	-60.70	-417.14	-1,498.54
Applied to removed ratio	0.03	0.00	0.00	0.08

**Fresh water applied**  
54,240,000.00 gallons  
1,997.47 acre-inches  
47.56 inches/acre

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

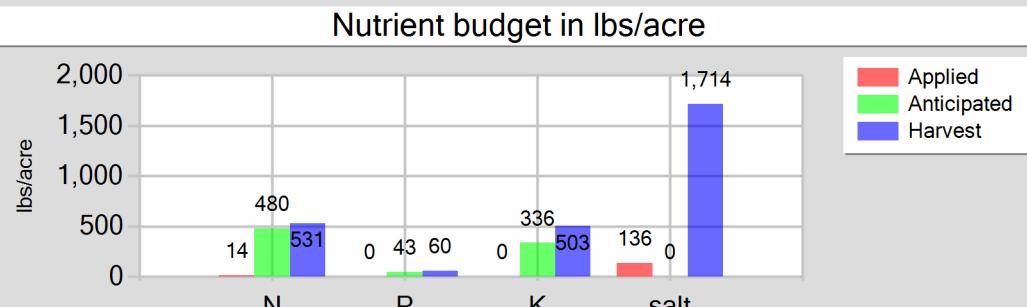
**Total harvests for the crop**  
1 harvests

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

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

K6 - 12/04/2019: Alfalfa, hay

Field name: K6      Crop: Alfalfa, hay      Plant date: 12/04/2019



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	135.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	135.74
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	530.98	59.77	503.30	1,714.37
Nutrient balance	-516.98	-59.77	-503.30	-1,578.63
Applied to removed ratio	0.03	0.00	0.00	0.08

**Fresh water applied**  
85,200,000.00 gallons  
3,137.63 acre-inches  
47.54 inches/acre

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

**Total harvests for the crop**  
1 harvests

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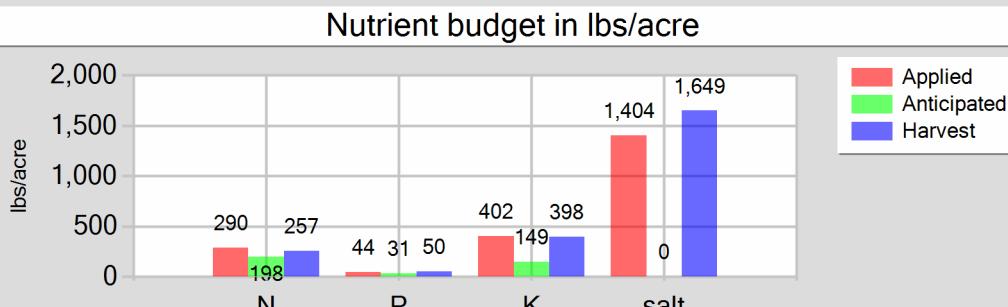
Reporting period 01/01/2023 to 12/31/2023.

K7 - 11/08/2022: Wheat, silage, soft dough

Field name: K7

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	205.19	40.33	265.97	0.00
Process wastewater	75.20	3.85	136.21	560.33
Fresh water	2.51	0.00	0.00	843.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.90	44.17	402.18	1,404.09
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	257.36	50.45	397.75	1,649.21
Nutrient balance	32.54	-6.27	4.43	-245.12
Applied to removed ratio	1.13	0.88	1.01	0.85

**Fresh water applied**

15,732,000.00 gallons  
579.36 acre-inches  
11.82 inches/acre

**Process wastewater applied**

1,152,000.00 gallons  
42.42 acre-inches  
0.87 inches/acre

**Total harvests for the crop**

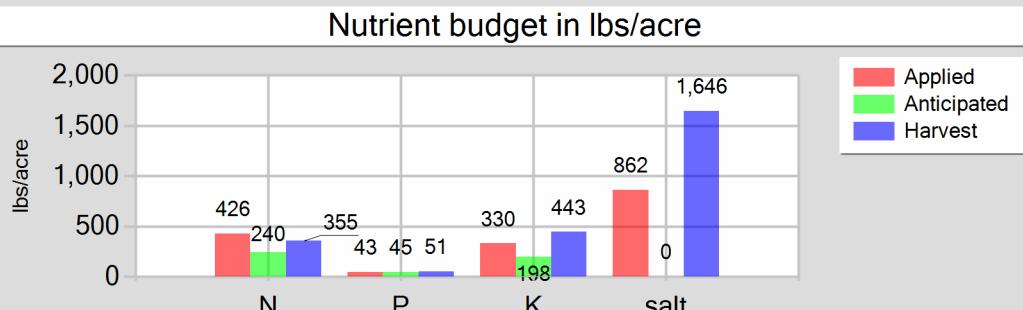
1 harvests

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

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

K7 - 06/19/2023: Corn, silage

Field name: K7      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	292.74	34.46	186.92	0.00
Process wastewater	126.55	8.71	143.03	757.37
Fresh water	0.00	0.00	0.00	105.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	426.30	43.17	329.95	862.43
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	355.41	50.97	443.40	1,645.61
Nutrient balance	70.89	-7.79	-113.45	-783.18
Applied to removed ratio	1.20	0.85	0.74	0.52

**Fresh water applied**  
48,960,000.00 gallons  
1,803.03 acre-inches  
36.80 inches/acre

**Process wastewater applied**  
1,566,000.00 gallons  
57.67 acre-inches  
1.18 inches/acre

**Total harvests for the crop**  
1 harvests

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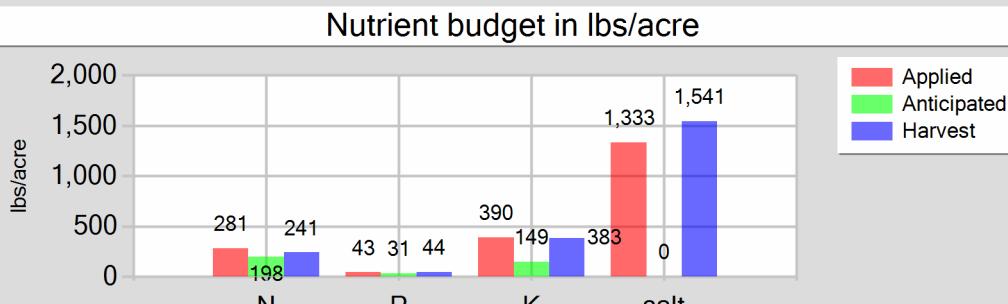
Reporting period 01/01/2023 to 12/31/2023.

K8 - 11/06/2022: Wheat, silage, soft dough

Field name: K8

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)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.09	39.52	260.65	0.00
Process wastewater	69.93	3.46	129.56	492.00
Fresh water	2.51	0.00	0.00	841.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	280.53	42.98	390.21	1,333.22
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	240.55	43.74	383.36	1,541.34
Nutrient balance	39.97	-0.76	6.85	-208.12
Applied to removed ratio	1.17	0.98	1.02	0.86

**Fresh water applied**

20,436,000.00 gallons  
752.59 acre-inches  
11.07 inches/acre

**Process wastewater applied**

1,494,000.00 gallons  
55.02 acre-inches  
0.81 inches/acre

**Total harvests for the crop**

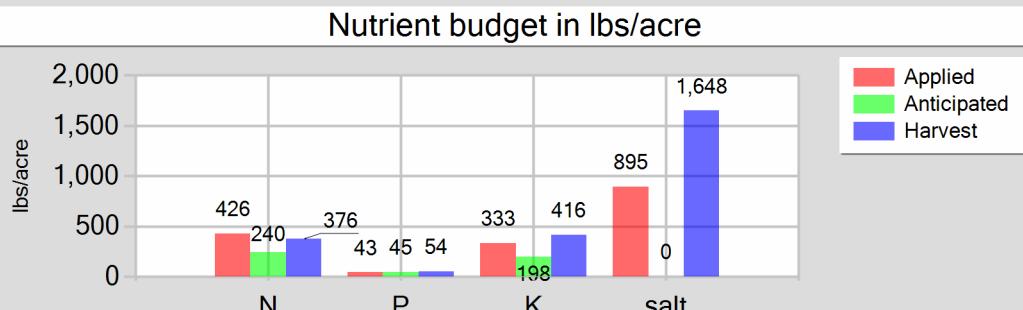
1 harvests

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

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

K8 - 06/20/2023: Corn, silage

Field name: K8      Crop: Corn, silage      Plant date: 06/20/2023



	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	286.89	33.77	183.18	0.00
Process wastewater	132.24	9.08	149.64	791.89
Fresh water	0.00	0.00	0.00	103.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	426.13	42.85	332.82	895.05
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	376.18	53.68	416.49	1,648.15
Nutrient balance	49.95	-10.83	-83.67	-753.10
Applied to removed ratio	1.13	0.80	0.80	0.54

**Fresh water applied**  
66,720,000.00 gallons  
2,457.07 acre-inches  
36.13 inches/acre

**Process wastewater applied**  
2,268,000.00 gallons  
83.52 acre-inches  
1.23 inches/acre

**Total harvests for the crop**  
1 harvests

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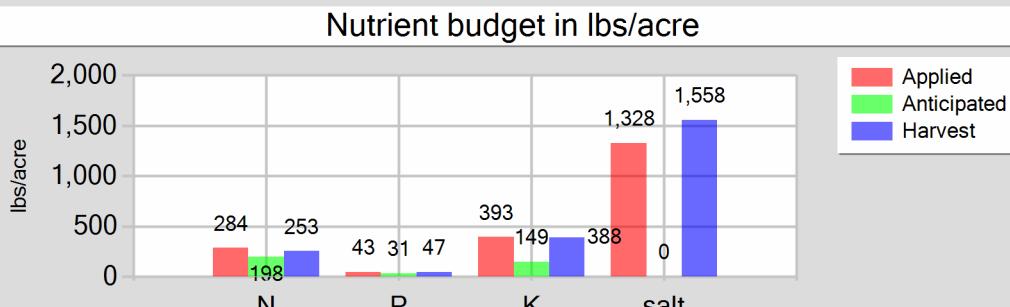
Reporting period 01/01/2023 to 12/31/2023.

K9 - 11/06/2022: Wheat, silage, soft dough

Field name: K9

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)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	201.09	39.52	260.65	0.00
Process wastewater	73.63	3.79	132.82	512.32
Fresh water	2.42	0.00	0.00	815.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.15	43.31	393.47	1,327.76
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	252.64	46.62	388.27	1,558.38
Nutrient balance	31.50	-3.31	5.19	-230.62
Applied to removed ratio	1.12	0.93	1.01	0.85

**Fresh water applied**

11,304,000.00 gallons  
416.29 acre-inches  
11.56 inches/acre

**Process wastewater applied**

828,000.00 gallons  
30.49 acre-inches  
0.85 inches/acre

**Total harvests for the crop**

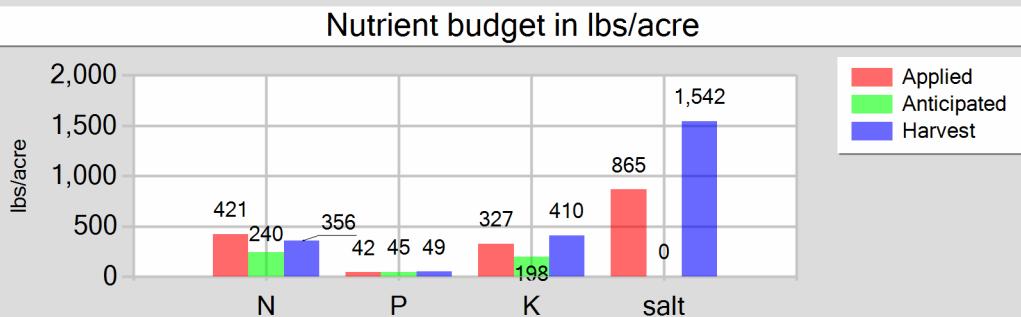
1 harvests

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

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

K9 - 06/20/2023: Corn, silage

Field name: K9      Crop: Corn, silage      Plant date: 06/20/2023



	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	286.89	33.77	183.18	0.00
Process wastewater	126.78	8.72	143.35	758.88
Fresh water	0.00	0.00	0.00	105.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	420.67	42.49	326.53	864.73
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	355.65	48.64	410.36	1,541.57
Nutrient balance	65.02	-6.15	-83.83	-676.85
Applied to removed ratio	1.18	0.87	0.80	0.56

**Fresh water applied**  
36,240,000.00 gallons  
1,334.60 acre-inches  
37.07 inches/acre

**Process wastewater applied**  
1,152,000.00 gallons  
42.42 acre-inches  
1.18 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****Corral Manure**

Sample and source description: Corral Manure

Sample date: 09/12/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 5.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,109.00	3,952.00	26,065.00							0.00
DL	500.00	100.00	200.00							0.67

**Feedlot Manure**

Sample and source description: Feedlot Manure

Sample date: 09/12/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 5.4 %

	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	21,250.00	5,025.00	30,001.00							0.00
DL	500.00	100.00	200.00							0.67

**Corral Manure**

Sample and source description: Corral Manure

Sample date: 05/10/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 4.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,689.00	3,377.00	18,318.00							0.00
DL	500.00	100.00	200.00							0.67

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

**Feedlot Manure**Sample and source description: Feedlot ManureSample date: 05/10/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 6.2 %

	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 (%)
<b>Value</b>	31,205.00	5,693.00	25,324.00							0.00
<b>DL</b>	500.00	100.00	200.00							0.67

**Corral Manure**Sample and source description: Corral ManureSample date: 09/11/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 2.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,055.00	4,542.00	26,454.00							0.00
<b>DL</b>	500.00	100.00	200.00							0.67

**Feedlot Manure**Sample and source description: Feedlot ManureSample date: 09/11/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is  
Moisture: 3.3 %

	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 (%)
<b>Value</b>	23,624.00	6,458.00	33,453.00							0.00
<b>DL</b>	500.00	100.00	200.00							0.67

**B. PROCESS WASTEWATER ANALYSES**

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

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

**Pond D**

Sample and source description: Pond D

Sample date: 12/06/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.54

	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)
<b>Value</b>	354.00	81.50	10.40	0.47	8.10	884.00								4,463.00	2,856
<b>DL</b>	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

**Pond D**

Sample and source description: Pond D

Sample date: 02/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.62

	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)
<b>Value</b>	410.00	146.50	2.90	0.37	30.40	516.00								3,904.00	2,498
<b>DL</b>	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

**Pond D**

Sample and source description: Pond D

Sample date: 05/10/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.96

	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)
<b>Value</b>	510.00	252.40	11.10	0.38	29.30	614.00								4,918.00	3,147
<b>DL</b>	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

**Pond D**

Sample and source description: Pond D

Sample date: 09/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.68

	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)
<b>Value</b>	390.00	159.00	4.00	0.36	40.60	354.00								3,311.00	2,119
<b>DL</b>	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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

**Pond D**Sample and source description: Pond DSample date: 11/21/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.77

	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	320.00	143.90	4.10	0.67	20.30	351.00								3,124.00	1,999
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

**C. FRESH WATER ANALYSES****D1****D1**Sample description: D1Sample date: 12/13/2023 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								1,000.00	
DL	0.23		0.23								1.00	

**D10****D10**Sample description: D10Sample date: 12/13/2023 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	2.60	0.16	190.00	210.00	50.00	81.00	64.00	860.00	550
DL	0.23		0.23	0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

**D4**

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

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

D4

D4

Sample description: D4

Sample date: 12/13/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								1,000.00	
DL	0.23		0.23								1.00	

D5

D5

Sample description: D5

Sample date: 12/13/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								780.00	
DL	0.23		0.23								1.00	

D6

D6

Sample description: D6

Sample date: 12/13/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								790.00	
DL	0.23		0.23								1.00	

D7

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D7

D7

Sample description: D7

Sample date: 12/13/2023 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								1,800.00	
DL	0.46		0.46									1.00

D8

D8

Sample description: D8

Sample date: 12/13/2023 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	18.00		18.00								2,200.00	
DL	0.46		0.46									1.00

D9

D9

Sample description: D9

Sample date: 12/13/2023 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								540.00	
DL	0.23		0.23									1.00

Kings River

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Kings River

River

Sample description: River

Sample date: 07/27/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								21.00	44
DL	1.00		0.23								1.00	5

Laguna Canal

Laguna Canal

Sample description: Laguna Canal

Sample date: 07/27/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								21.00	46
DL	1.00		0.23								1.00	5

Riverdale Canal

Riverdale Canal

Sample description: Riverdale Canal

Sample date: 07/27/2023 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 ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								22.00	33
DL	1.00		0.23								1.00	5

W-11

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**W-11****W11**Sample description: W11Sample date: 12/13/2023 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								680.00	
DL	0.23		0.23								1.00	

**W-13****W13**Sample description: W13Sample date: 12/06/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00	3.80	0.00	220.00	260.00	35.00	140.00	79.00	1,100.00	590
DL	0.23		0.23	0.10	0.10	1.00	3.00	3.00	1.00	1.00	1.00	5

**W-19****W19**Sample description: W19Sample date: 07/27/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								850.00	
DL	0.23		0.23								10.00	

**W-20**

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**W-20****W20**Sample description: W20Sample date: 07/27/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								850.00	
DL	0.23		0.23								1.00	

**W-21****W21**Sample description: W21Sample date: 07/27/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC ( $\mu$ mhos/cm)	TDS (mg/L)
Value	6.60		6.60								1,500.00	
DL	0.23		0.23								1.00	

**W-27****W27**Sample description: W27Sample date: 07/27/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC ( $\mu$ mhos/cm)	TDS (mg/L)
Value	0.00		0.00								690.00	
DL	0.23		0.23								1.00	

**D. SOIL ANALYSES**

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No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

F1 - 11/07/2022: Wheat, silage, soft dough

F1

Sample and source description: F1

Sample date: 05/22/2023 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 (%)
<b>Value</b>	18,965.00	3,450.00	28,600.00		11.90
<b>DL</b>	500.00	100.00	200.00		0.67

F1 - 06/08/2023: Corn, silage

F1

Sample and source description: F1

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,380.00	2,210.00	19,800.00		7.10
<b>DL</b>	500.00	100.00	200.00		0.67

F2 - 11/07/2022: Wheat, silage, soft dough

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F2 - 11/07/2022: Wheat, silage, soft dough

F2

Sample and source description: F2

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,110.00	3,400.00	28,500.00		12.40
<b>DL</b>	500.00	100.00	200.00		0.67

F2 - 06/15/2023: Corn, silage

F2

Sample and source description: F2

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,990.00	2,230.00	19,800.00		8.20
<b>DL</b>	500.00	100.00	200.00		0.67

F3 - 12/04/2020: Alfalfa, hay

F3

Sample and source description: F3

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 6.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	31,230.00	3,500.00	29,800.00		9.80
<b>DL</b>	500.00	100.00	200.00		0.67

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F4 - 11/08/2022: Wheat, silage, soft dough

F4

Sample and source description: F4

Sample date: 05/22/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,880.00	4,500.00	29,400.00		12.00
<b>DL</b>	500.00	100.00	200.00		0.67

F4 - 06/15/2023: Corn, silage

F4

Sample and source description: F4

Sample date: 11/10/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,040.00	2,430.00	19,600.00		7.50
<b>DL</b>	500.00	100.00	200.00		0.67

F5 E&W - 12/02/2022: Alfalfa, hay

F5

Sample and source description: F5

Sample date: 09/11/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 12.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	34,850.00	3,700.00	30,100.00		13.30
<b>DL</b>	500.00	100.00	200.00		0.67

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F6 - 12/03/2019: Alfalfa, hay

F6

Sample and source description: F6

Sample date: 09/11/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 9.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	33,500.00	3,500.00	33,000.00		10.90
<b>DL</b>	500.00	100.00	200.00		0.67

K1 - 11/08/2022: Wheat, silage, soft dough

K1

Sample and source description: K1

Sample date: 06/01/2023    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 (%)
<b>Value</b>	18,940.00	3,740.00	28,500.00		12.20
<b>DL</b>	500.00	100.00	200.00		0.67

K1 - 06/15/2023: Corn, silage

K1

Sample and source description: K1

Sample date: 11/10/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 61.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,080.00	2,530.00	18,900.00		7.30
<b>DL</b>	500.00	100.00	200.00		0.67

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K10 - 11/06/2022: Wheat, silage, soft dough

K10

Sample and source description: K10

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,360.00	3,450.00	28,000.00		12.20
<b>DL</b>	500.00	100.00	200.00		0.67

K10 - 06/20/2023: Corn, silage

K10

Sample and source description: K10

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,190.00	2,380.00	19,300.00		7.20
<b>DL</b>	500.00	100.00	200.00		0.67

K11 - 11/05/2022: Wheat, silage, soft dough

K11

Sample and source description: K11

Sample date: 05/22/2023 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 (%)
<b>Value</b>	18,080.00	3,980.00	27,700.00		11.70
<b>DL</b>	500.00	100.00	200.00		0.67

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K11 - 06/21/2023: Corn, silage

K11

Sample and source description: K11

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,190.00	23,800.00	19,300.00		7.20
<b>DL</b>	500.00	100.00	200.00		0.67

K12 - 12/05/2020: Alfalfa, hay

K12

Sample and source description: K12

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 7.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	35,220.00	3,800.00	29,100.00		11.10
<b>DL</b>	500.00	500.00	200.00		0.67

K13 - 11/07/2022: Wheat, silage, soft dough

K13

Sample and source description: K13

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,430.00	3,790.00	29,400.00		12.10
<b>DL</b>	500.00	100.00	200.00		0.67

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K13 - 06/21/2023: Corn, silage

K13

Sample and source description: K13

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,630.00	2,610.00	19,200.00		6.90
<b>DL</b>	500.00	100.00	200.00		0.67

K14 - 11/07/2022: Wheat, silage, soft dough

K14

Sample and source description: K14

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,920.00	3,730.00	29,100.00		11.60
<b>DL</b>	500.00	100.00	200.00		0.67

K14 - 06/21/2023: Corn, silage

K14

Sample and source description: K14

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,200.00	2,300.00	19,900.00		7.50
<b>DL</b>	500.00	100.00	200.00		0.67

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K2 - 11/08/2022: Wheat, silage, soft dough

K2

Sample and source description: K2

Sample date: 05/22/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 63.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,750.00	3,500.00	28,400.00		12.10
<b>DL</b>	500.00	100.00	200.00		0.67

K2 - 06/08/2023: Corn, silage

K2

Sample and source description: K2

Sample date: 09/11/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 62.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,290.00	2,400.00	19,900.00		7.40
<b>DL</b>	500.00	100.00	200.00		0.67

K3 - 12/06/2018: Alfalfa, hay

K3

Sample and source description: K3

Sample date: 09/11/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 12.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	34,200.00	3,900.00	29,900.00		8.90
<b>DL</b>	500.00	100.00	200.00		0.67

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K4 - 11/07/2022: Wheat, silage, soft dough

K4

Sample and source description: K4

Sample date: 06/01/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 62.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,890.00	4,110.00	28,200.00		12.30
<b>DL</b>	500.00	100.00	200.00		0.67

K4 - 06/19/2023: Corn, silage

K4

Sample and source description: K4

Sample date: 11/10/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,440.00	2,380.00	19,100.00		7.30
<b>DL</b>	500.00	100.00	200.00		0.67

K5 - 12/05/2018: Alfalfa, hay

K5

Sample and source description: K5

Sample date: 09/11/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	33,890.00	3,900.00	26,800.00		10.50
<b>DL</b>	500.00	100.00	200.00		0.67

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K6 - 12/04/2019: Alfalfa, hay

K6

Sample and source description: K6

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	33,760.00	3,800.00	32,000.00		10.90
<b>DL</b>	500.00	100.00	200.00		0.67

K7 - 11/08/2022: Wheat, silage, soft dough

K7

Sample and source description: K7

Sample date: 06/01/2023 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 (%)
<b>Value</b>	18,570.00	3,640.00	28,700.00		11.90
<b>DL</b>	500.00	100.00	200.00		0.67

K7 - 06/19/2023: Corn, silage

K7

Sample and source description: K7

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,550.00	2,230.00	19,400.00		7.20
<b>DL</b>	500.00	100.00	200.00		0.67

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K8 - 11/06/2022: Wheat, silage, soft dough

K8

Sample and source description: K8

Sample date: 05/22/2023 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 (%)
<b>Value</b>	18,260.00	3,320.00	29,100.00		11.70
<b>DL</b>	500.00	100.00	200.00		0.67

K8 - 06/20/2023: Corn, silage

K8

Sample and source description: K8

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,890.00	2,410.00	18,700.00		7.40
<b>DL</b>	500.00	100.00	200.00		0.67

K9 - 11/06/2022: Wheat, silage, soft dough

K8

Sample and source description: K8

Sample date: 05/22/2023 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 (%)
<b>Value</b>	19,130.00	3,530.00	29,400.00		11.80
<b>DL</b>	500.00	100.00	200.00		0.67

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

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

K9 - 06/20/2023: Corn, silage

K9

Sample and source description: K9

Sample date: 11/10/2023    Source of analysis: Lab analysis    Method of reporting: Dry-weight

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,380.00	2,240.00	18,900.00		7.10
<b>DL</b>	500.00	100.00	200.00		0.67

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

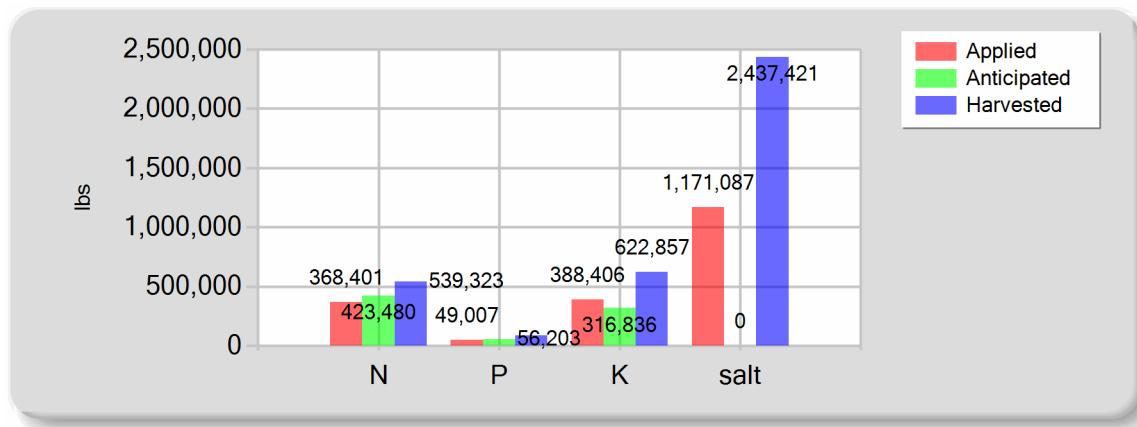
*No subsurface (tile) drainage analyses entered.*

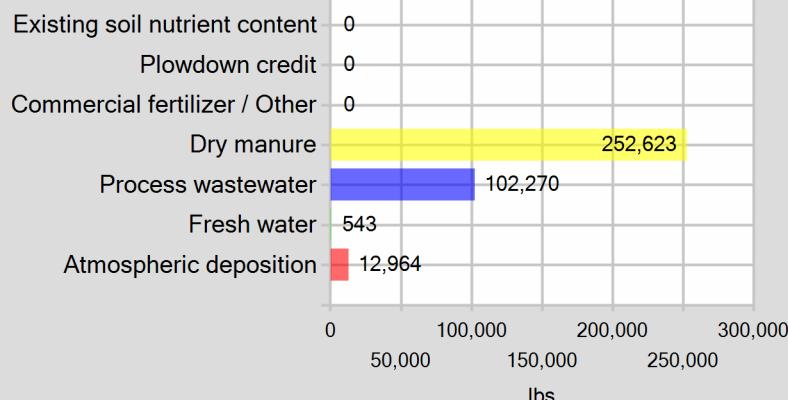
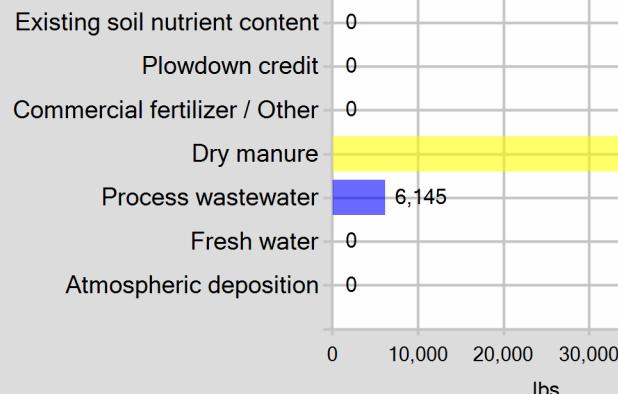
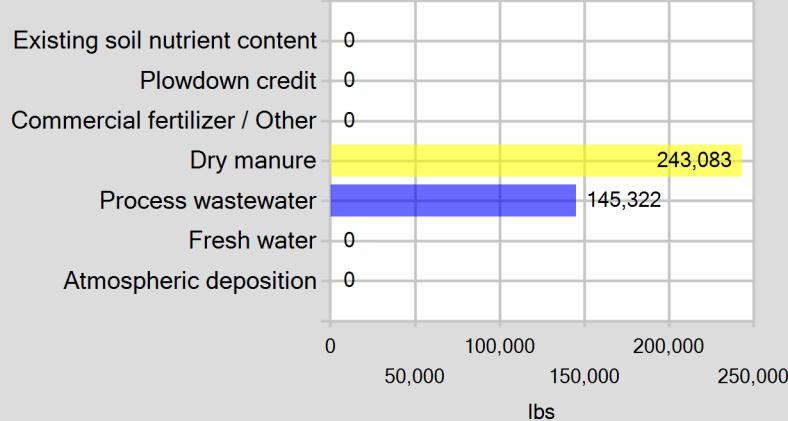
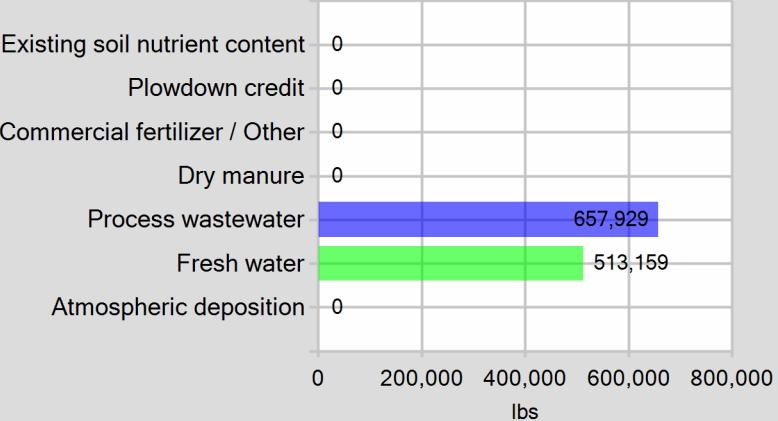
**Annual Report - General Order No. R5-2007-0035**

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	252,623.26	42,861.59	243,083.23	0.00
Process wastewater	102,270.03	6,145.48	145,322.47	657,928.66
Fresh water	543.28	0.00	0.00	513,158.82
Atmospheric deposition	12,964.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>368,400.57</b>	<b>49,007.07</b>	<b>388,405.70</b>	<b>1,171,087.48</b>
Anticipated crop nutrient removal	423,480.00	56,203.20	316,836.00	0.00
Actual crop nutrient removal	539,323.03	87,214.23	622,857.01	2,437,421.10
<b>Nutrient balance</b>	<b>-170,922.46</b>	<b>-38,207.16</b>	<b>-234,451.32</b>	<b>-1,266,333.62</b>
Applied to removed ratio	0.68	0.56	0.62	0.48

**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? Yes

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

**ADDITIONAL NOTES**

**A. NOTES**

Due to ample Surface Water no Irrigation wells ran in 2023, except for W-11 and that was only on the Wheat Irrigations for the 2024 Annual Report.

Use analysis for the wells from 2022 for the irrigations on the Wheat that came off in spring of 2023.

**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

Rimmert De Jong

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.*

**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.

**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**

Rimmert De Jong

**PRINT OR TYPE NAME**

5-27-24

**DATE**

**SIGNATURE OF OPERATOR OF FACILITY**

SAME AS OWNER

**PRINT OR TYPE NAME**

**DATE**

# DEGROOT ENVIRONMENTAL

5250 W JEFFERSON AVE. FRESNO, CA 93706  
PHONE: (559) 307-0690  
[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## 2023 Groundwater Well Report

**Dairy:** River Valley Dairy  
**Contact:** Rimmert De Jong

**Address:** 22700 S. Cornelius Ave  
Riverdale, CA 93565

### Summary

Nine wells, two canals, and one River were sampled at the River Valley Dairy by DeGroot Environmental personnel. Samples were collected on July 27, December 13, 2023. The samples collected are listed below. Electrical conductivity (EC) was measured in the laboratory. Ammonium presence was measured in the field using test strips. Results were recorded on the sampling record for each sample collected. Samples were collected in bottles provided by the testing laboratory. The samples were placed in a cooler with ice packs and delivered to BSK Analytical Laboratories, an ELAP laboratory. Well samples were analyzed as defined in the MRP, updated in February 2011. The five year analysis was performed on approximately 20% of the wells sampled.

Wells Sampled	Date Sampled	Wells Sampled	Date Sampled	Wells Sampled	Date Sampled
Laguna Canal	7/27/2023	D10	12/13/2023		
Riverdale Canal	7/27/2023	D1	12/13/2023		
Kings River	7/27/2023	D7	12/13/2023		
W11	12/13/2023	D9	12/13/2023		
D4	12/13/2023	D8	12/13/2023		
D5	12/13/2023				
D6	12/13/2023				

The following wells were non operational in 2023: D-2, D-3, W-10, W-15, W-16, W-17 W-18, W-22, and W-23. These wells did not run in 2023 due to ample surface water; W-12, W-13, W-19, W-20, W-21, W-24, W-25, W-26, AND W-27. No samples were collected on these wells. Documentation is included with this report.

Attached are copies of the field records developed when samples were collected, the Chain of Custody forms, a map showing well locations, and the analytical results from BSK Analytical Laboratories.

FYI: The regulatory limit for Nitrate as NO<sub>3</sub>N is 10 mg/L.

# DEGROOT ENVIRONMENTAL

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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-13-23  
Source ID: W-12, W-13, W-19, W-20, W-21 Time: 0807  
W-24, W-25, W-26, and W-27  
Source Location: \_\_\_\_\_

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

EC \_\_\_\_\_ ( $\mu\text{S}$  or mS)

Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from . Sample clear and no smell.

These wells did not run in 2023, due to ample surface water. No samples were collected

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature: Matthew Degroot

# DEGROOT ENVIRONMENTAL

2705 8TH AVENUE DR, KINGSBURG, CA 93631

PHONE: (559) 307-0690

[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy

Date: 12-13-23

Source ID: D2, D3, W-10, W-15, W-16, W-17  
W-18, W-22, and W-23

Time: 0805

Source Location:

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

EC \_\_\_\_\_ ( $\mu$ S or mS)

Circle the correct units for EC.

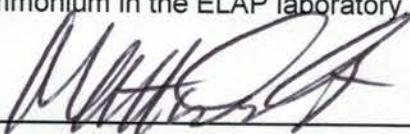
Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from . Sample clear and no smell.

These wells are non Operational for 2023

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy

Date: 7-27-23

Source ID: Riverdale Canal

Time: 0610

Source Location: N side of F1

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

EC \_\_\_\_\_ ( $\mu$ S or mS)

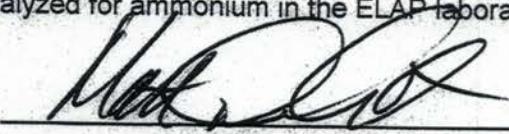
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from Canal. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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PHONE: (559) 307-0690  
[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 7-27-23  
Source ID: Laguna Canal Time: 0622  
Source Location: off Excelsior Ave, East of Hwy

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

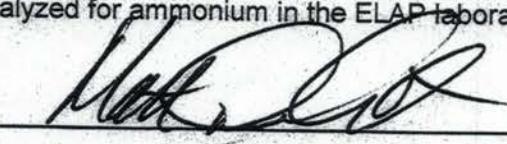
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from Canal. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy

Date: 7-27-23

Source ID: River

Time: 0643

Source Location:

S. Side of K-11

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

EC \_\_\_\_\_ ( $\mu$ S or mS)

Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from River. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-2023  
Source ID: W-11 Time: 0612  
Source Location: N. Side at F1

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

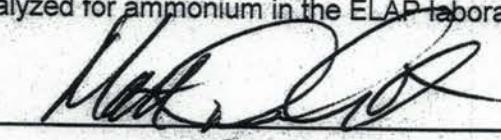
Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from discharge pipe. Sample clear and no smell.

Well was turned on for Sampling purposes only.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-4 Time: 062  
Source Location: N side of old milk Barn

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

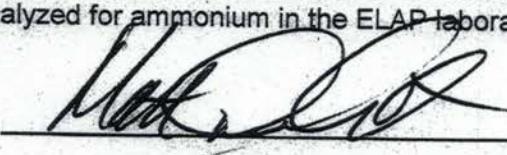
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from Spigot off tank. . Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-5 Time: 0641  
Source Location: 3rd shop

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

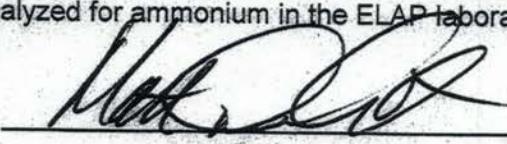
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-6 Time: 0644  
Source Location: Well D-5

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

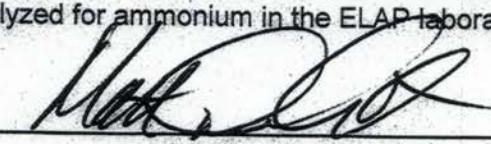
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from Spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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PHONE: (559) 307-0690  
[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy

Date: 12-10-23

Source ID: D-10

Time: 06 49

Source Location: SW of D-6

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

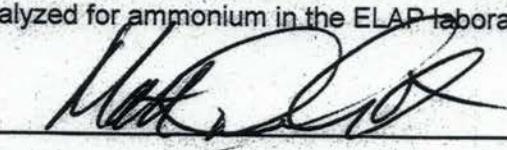
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy

Date: 12-10-23

Source ID: D-1

Time: 0701

Source Location:

E side of FB F-5

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

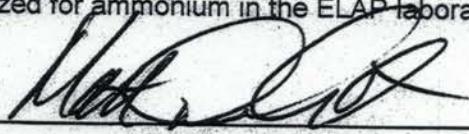
EC \_\_\_\_\_ ( $\mu$ S or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

2705 8TH AVENUE DR, KINGSBURG, CA 93631  
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[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-7 Time: 0731  
Source Location: S side of Fl F5

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

EC:  Measured in laboratory.  
 Field measurement.

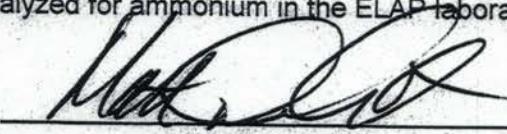
EC \_\_\_\_\_ ( $\mu\text{S}$  or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

2705 8TH AVENUE DR, KINGSBURG, CA 93631  
PHONE: (559) 307-0690  
[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-9 Time: 0744  
Source Location: NW corner of Feedlot

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

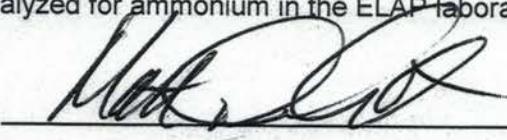
EC:  Measured in laboratory.  
 Field measurement. EC \_\_\_\_\_ (µS or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



# DEGROOT ENVIRONMENTAL

2705 8TH AVENUE DR, KINGSBURG, CA 93631  
PHONE: (559) 307-0690  
[matthewdegroot@comcast.net](mailto:matthewdegroot@comcast.net)

## FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.  
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: River Valley Dairy Date: 12-10-23  
Source ID: D-8 Time: 0757  
Source Location: N side of Fld K14

### Sample Properties at Time of Sampling

Sample Type:  Groundwater Well  Surface Water

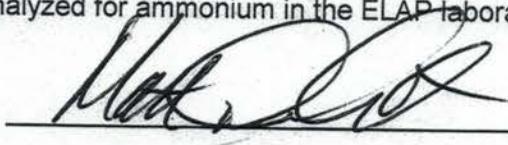
EC:  Measured in laboratory.  
 Field measurement. EC \_\_\_\_\_ (µS or mS)  
Circle the correct units for EC.

Ammonium:  Field measurement.  Present  Absent  
 Not Applicable.

Notes: Took from spigot off tank. Sample clear and no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.  
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must  
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



**BSK** ANALYTICAL  
LABORATORIES

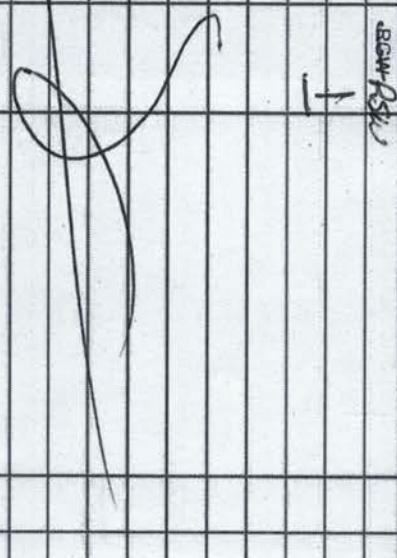
1414 Stanislaus Street, Fresno, CA 93706-1623  
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

\*Required Fields

411 #77

ANALYTICAL

TEMP: ANALYSIS REQUESTED

Client/Company Name*: <b>River Valley Dairy</b>		Report Attention*: <b>Kimberly DeJong</b>	Phone #: <b>559-337-0690</b>	FAX #: <b>559-337-5377</b>
Address: <b>22700 S. Cornelio Ave</b>		City*: <b>Riverside</b>	State*: <b>CA</b>	Zip*: <b>92526</b>
Project Information:		PO #	Carbon Copies: (Circle One)	
		Quote #	CDHS <input type="checkbox"/>	Fresno Co. <input type="checkbox"/>
			Merced Co. <input type="checkbox"/>	Tulare Co. <input type="checkbox"/>
			Other: n/a	
How would you like your completed results sent?		E-Mail <input checked="" type="checkbox"/>	Fax <input type="checkbox"/>	EDD <input type="checkbox"/>
Sampler Name Printed / Signature: <b>Matt DeGroot</b>		QC Request <input type="checkbox"/>	Mail Only <input checked="" type="checkbox"/>	Result Request ** Surcharge <input type="checkbox"/>
		STD <input type="checkbox"/>	Level II <input type="checkbox"/>	ZSTL <input type="checkbox"/> Day** <input type="checkbox"/> Day** <input type="checkbox"/> Day**
<p>Matrix Types: RSW = Raw Surface Water CFW = Chlorinated Finished Water CWW = Chlorinated Waste Water BW = Bottled Water          RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid</p>				
Sample #	# Bottles	Sample Description / Location *	Matrix *	Comments / Station Code
<b>1</b>		<b>Riverdale Canal</b>	<b>RB5-Well</b>	X
<b>2</b>		<b>Laguna Creek</b>		X
<b>3</b>		<b>River</b>		
				
<p>Retinqueched by: (Signature and Printed Name) <b>Matt DeGroot</b></p>				
<p>Retinqueched by: (Signature and Printed Name) <b>Matt DeGroot</b></p>				
<p>Received for Lab by: (Signature and Printed Name) <b>Matt DeGroot</b></p>				
<p>Shipping Method: <b>CAO UPS GSO WALK-IN SJVC FED EX OTHER</b></p>				
<p>Cooling Method: <b>WET BLUE NONE</b></p>				
<p>Received by (Signature and Print Name) <b>J</b></p>				
<p>Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA #: Init</p>				
<p>Packing Material:</p>				
<p>ANALYSIS REQUESTED</p>				
<p>COC created</p>				

Notice: Payment for services rendered as noted herein are due in full within 30 days from when invoice. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service/billing charges and interest calculated at 1 1/2 % per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collections, including attorney's fees incurred prior to or in litigation whether concluded by judgement, settlement, compromise or otherwise. The person signing for the client/Company specifically acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis requested, other type or quantities, will be noted and agreed upon the Chain of Custody. The turn around time for my samples received after 5:00 pm will begin the next business day.





BSK Associates Laboratory Fresno  
687 N. Laverne Avenue  
Fresno, CA 93727  
559-497-2888 (Main)

AGG3700  
8/09/2023  
Invoice: AG18543

Rimmert DeJong  
River Valley Dairy  
22700 S. Cornelia Ave.  
Riverdale, CA 93656

**RE: Report for AGG3700 RB5 Surface**

Dear Rimmert DeJong,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/28/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,  
Mary Thao , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Mary Thao, Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

AGG3700 Final FINAL 08 09 2023 1629 08092023 1629



AGG3700

RB5 Surface

## Case Narrative

Project and Report Details		Invoice Details
Client:	River Valley Dairy	Invoice To: River Valley Dairy
Report To:	Rimmert DeJong	Invoice Attn: Rimmert DeJong
Project #:	RB5 Surface	Project PO#: -
Received:	7/28/2023 - 07:56	
Report Due:	8/11/2023	
Sample Receipt Conditions		
Cooler:	Default Cooler	Containers Intact
Temperature on Receipt °C:	4.1	COC/Labels Agree Received On Wet Ice Sample(s) were received in temperature range. Initial receipt at BSK-FAL

## Data Qualifiers

**The following qualifiers have been applied to one or more analytical results:**

- MS1.0 Matrix spike recoveries exceed control limits.
- MS1.2 Matrix spike recovery exceeds lower control limit. Reported results for parent matrix should be considered estimated due to matrix interferences.
- MS2.1 MS/MSD RPD exceeds control limit. Reportable results in parent sample may have some degree of variability, higher than that inherent in the method.

## Report Distribution

Recipient(s)	Report Format	CC:
Rimmert DeJong	FINAL.RPT	
Matthew DeGroot	FINAL.RPT	



AGG3700

RB5 Surface

RB5 Surface

## Certificate of Analysis

Sample ID: AGG3700-01

Sampled By: Matt DeGroot

Sample Description: Riverdale Canal

Sample Date - Time: 07/27/2023 - 06:10

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	22	1.0	umhos/cm	1	AGH0014	08/01/23	08/01/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1933	07/29/23 01:39	07/29/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1933	07/29/23 01:39	07/29/23	
Total Dissolved Solids	SM 2540C	33	5.0	mg/L	1	AGH0125	08/02/23	08/02/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1966	08/01/23	08/04/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

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AGG3700 Final FINAL 08 09 2023 1629 08092023 1629



AGG3700

RB5 Surface

RB5 Surface

## Certificate of Analysis

Sample ID: AGG3700-02

Sampled By: Matt DeGroot

Sample Description: Laguna Canal

Sample Date - Time: 07/27/2023 - 06:22

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	21	1.0	umhos/cm	1	AGH0014	08/01/23	08/01/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1933	07/29/23 01:54	07/29/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1933	07/29/23 01:54	07/29/23	
Total Dissolved Solids	SM 2540C	46	5.0	mg/L	1	AGH0125	08/02/23	08/02/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1966	08/01/23	08/04/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					



AGG3700

RB5 Surface

RB5 Surface

## Certificate of Analysis

Sample ID: AGG3700-03

Sampled By: Matt DeGroot

Sample Description: River

Sample Date - Time: 07/27/2023 - 06:43

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	21	1.0	umhos/cm	1	AGH0014	08/01/23	08/01/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1933	07/29/23 02:10	07/29/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1933	07/29/23 02:10	07/29/23	
Total Dissolved Solids	SM 2540C	44	5.0	mg/L	1	AGH0125	08/02/23	08/02/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1966	08/01/23	08/04/23	MS1.2
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 300.0 - Quality Control**

Batch: AGG1933 Prep Method: Method Specific Preparation								Prepared: 7/28/2023 Analyst: DXR							
<b>Blank (AGG1933-BLK1)</b>															
Nitrate as N ND 0.23 mg/L 07/28/23															
Nitrite as N ND 0.050 mg/L 07/28/23															
<b>Blank Spike (AGG1933-BS1)</b>															
Nitrate as N 23 0.23 mg/L 23 ND 101 90-110 07/28/23															
Nitrite as N 1.0 0.050 mg/L 1.0 ND 105 90-110 07/28/23															
<b>Matrix Spike (AGG1933-MS1), Source: AGG3698-03</b>															
Nitrate as N 13 0.23 mg/L 11 1.3 99 80-120 07/28/23															
Nitrite as N 0.47 0.050 mg/L 0.50 ND 94 80-120 07/28/23															
<b>Matrix Spike (AGG1933-MS2), Source: AGG3737-01</b>															
Nitrate as N 11 0.23 mg/L 11 0.35 98 80-120 07/28/23															
Nitrite as N 0.49 0.050 mg/L 0.50 ND 98 80-120 07/28/23															
<b>Matrix Spike Dup (AGG1933-MSD1), Source: AGG3698-03</b>															
Nitrate as N 13 0.23 mg/L 11 1.3 101 80-120 2 20 07/28/23															
Nitrite as N 0.48 0.050 mg/L 0.50 ND 96 80-120 2 20 07/28/23															
<b>Matrix Spike Dup (AGG1933-MSD2), Source: AGG3737-01</b>															
Nitrate as N 12 0.23 mg/L 11 0.35 99 80-120 2 20 07/28/23															
Nitrite as N 0.49 0.050 mg/L 0.50 ND 99 80-120 1 20 07/28/23															

**EPA 351.2 - Quality Control**

Batch: AGG1966 Prep Method: Method Specific Preparation								Prepared: 8/1/2023 Analyst: PXC							
<b>Blank (AGG1966-BLK1)</b>															
Total Kjeldahl Nitrogen ND 1.0 mg/L 08/04/23															
<b>Blank Spike (AGG1966-BS1)</b>															
Total Kjeldahl Nitrogen 9.4 1.0 mg/L 10 ND 94 90-110 08/04/23															
<b>Blank Spike Dup (AGG1966-BSD1)</b>															
Total Kjeldahl Nitrogen 9.7 1.0 mg/L 10 ND 97 90-110 3 10 08/04/23															
<b>Matrix Spike (AGG1966-MS1), Source: AGG3369-01</b>															
Total Kjeldahl Nitrogen 55 5.0 mg/L 10 44 103 90-110 08/04/23															
<b>Matrix Spike (AGG1966-MS2), Source: AGG3700-03</b>															
Total Kjeldahl Nitrogen 8.9 1.0 mg/L 10 ND 89 90-110 08/04/23 MS1.0 Low															
<b>Matrix Spike Dup (AGG1966-MSD1), Source: AGG3369-01</b>															

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG3700 Final FINAL 08 09 2023 1629 08092023 1629



AGG3700

RB5 Surface

*BSK Associates Laboratory Fresno*  
General Chemistry Quality Control Report

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

AGG3700 Final FINAL 08.09.2023 1629 08092023 1629

**Certificate of Analysis****Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
  - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
  - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
  - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
  - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
  - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
  - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
  - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
  - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
  - Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
  - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
  - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

**Certificate of Analysis****Definitions**

mg/L: Milligrams/Liter (ppm)  
mg/Kg: Milligrams/Kilogram (ppm)  
µg/L: Micrograms/Liter (ppb)  
µg/Kg: Micrograms/Kilogram (ppb)  
%: Percent  
NR: Non-Reportable

MDL: Method Detection Limit  
RL: Reporting Limit: DL x Dilution  
ND: None Detected below MRL/MDL  
pCi/L: PicoCuries per Liter  
RL Mult: RL Multiplier  
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity  
MPN: Most Probable Number  
CFU: Colony Forming Unit  
Absent: Less than 1 CFU/100mLs  
Present: 1 or more CFU/100mLs  
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: \*\*NA\*\*

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

**Sacramento**

State of California - ELAP	1180-S1
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**San Bernardino**

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

**Vancouver**

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		



10

**Sample Integrity**

BSK Bottles: Yes No

Page 1 of 1

COC Info	Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No		Was a sufficient amount of sample received?	Yes	No	NA
	Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time <72 hours?	Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA		Was PM notified of discrepancies? PM: By/Time:	Yes	No	NA

Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3				
	Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	—	—					
	None (P) White Cap	—	—	1C				
	Cr6 (P) LL Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	P F					
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	P F					
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
	HNO <sub>3</sub> (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label	pH < 2	P F	1A				
	NaOH (P) Green Cap	Cl, pH > 10	P F					
	NaOH + ZnAc (P)	pH > 9	P F					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH <sub>2</sub> C <sub>2</sub> O <sub>4</sub> (AG) Pink Label 525	—	—					
	Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547	—	—					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531	pH < 3	P F					
	NH <sub>4</sub> Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2,BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label	—	—					
	Trizma – EPA 537.1 Light Blue Label FB	—	—					
	Ammonia Acetate - EPA 533 Purple Label FB	—	—					
	Bottled Water	—	—					
	Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
	Clear Glass	—	—					
	OTHER:	—	—					

Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check			
	S P					pH Lot #				
	S P					Cl Lot #				
*Preservation check completed by lab performing analysis.						✓ Indicates Blanks Received				
Comments						504	524.2	TTHM	537/533	TCP
Labeled by:	Labels Checked by:					✓ MS/MSD Received Method:				

Scanned: *Car*

Rush/Short HT Page: \_\_\_\_\_ Time: \_\_\_\_\_

# B SK ANALYTICAL LABORATORIES

1414 Stanislaus Street, Fresno, CA 93706-1623  
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

\* Required Fields

Client/Company Name\*: River Valley Dairy | Report Attention\*: Be Long / Matt DeGroot | Phone #: 559-307-0690 | FAX #: 333-5374  
Address\*: 22700 S. Cornelia Ave | City\*: Riverdale | State\*: CA | Zip\*: 93374 | E-mail\*: mattnewdegroot@comcast.net  
Project Information:

How would you like your completed results sent?  E-Mail  Fax  EDD | Result Request \*\*: Surcharge  
 Mail Only | QC Request | PO # | Quote #:  STD  Level II | Print Day\*  2 Day\*  3 Day\*  4 Day\*\*

Regulatory Compliance System No.:  CDRIS  Fresno Co.  EPA  Merced Co.  Tulare Co.  Other: n/a  
Electronic Data Transfer:  V  N

### RB5-Well

### RB5-well-5 Year Test

### RB5 Surface

### COC created

TEMP: 41.1° #77



AGG7700 River440 07/28/2023  
10

### ANALYSIS REQUESTED

Sample #	Matrix *	Comments / Station Code			
n	Sample Description / Location *	Date Sampled	Time	Date	Time
1	Riverdale Canal	7/28/01	0756	7/28/01	0756
2	Lower Canal				
3	Upper Canal				
4	Lower Canal				
5	Upper Canal				
6	Upper Canal				
7	Upper Canal				
8	Upper Canal				
9	Upper Canal				
10	Upper Canal				
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BSK Associates Laboratory Fresno  
687 N. Laverne Avenue  
Fresno, CA 93727  
559-497-2888 (Main)

AGL1851

12/29/2023

Invoice: AG30505

Rimmert DeJong  
River Valley Dairy  
22700 S. Cornelia Ave.  
Riverdale, CA 93656

**RE: Report for AGL1851 RB5 Well Annual**

Dear Rimmert DeJong,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 12/13/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,  
Jaime Lee LaFave , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Operations Manager



Accredited in Accordance with NELAP  
ORELAP #4021

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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RB5 Well Annual

## Case Narrative

Project and Report Details		Invoice Details
Client:	River Valley Dairy	Invoice To: River Valley Dairy
Report To:	Rimmert DeJong	Invoice Attn: Rimmert DeJong
Project #:	RB5 Well Annual	Project PO#: -
Received:	12/13/2023 - 13:05	
Report Due:	12/28/2023	
Sample Receipt Conditions		
Cooler:	Default Cooler	Containers Intact
Temperature on Receipt °C:	0.0	COC/Labels Agree Received On Wet Ice Sample(s) arrived at lab on same day sampled. Sample(s) were received in temperature range. Initial receipt at BSK-FAL

## Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

- DL1.0 Sample required a dilution due to the matrix or high concentration of non-target analytes.  
DP1.1 Sample Duplicate RPD exceeded method acceptance criteria.  
MS1.0 Matrix spike recoveries exceed control limits.

## Report Distribution

Recipient(s)	Report Format	CC:
Rimmert DeJong	FINAL.RPT	
Matthew DeGroot	FINAL.RPT	



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RB5 Well Annual

RB5 Well Annual

## Certificate of Analysis

Sample ID: AGL1851-01  
Sampled By: Matt DeGroot  
Sample Description: W-11

Sample Date - Time: 12/13/2023 - 06:12  
Matrix: Water  
Sample Type: Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	680	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0827	12/14/23 02:11	12/14/23	



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## Certificate of Analysis

Sample ID: AGL1851-02

Sampled By: Matt DeGroot

Sample Description: D-4

Sample Date - Time: 12/13/2023 - 06:27

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1000	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0826	12/14/23 00:17	12/14/23	



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## Certificate of Analysis

Sample ID: AGL1851-03  
Sampled By: Matt DeGroot  
Sample Description: D-5

Sample Date - Time: 12/13/2023 - 06:41  
Matrix: Water  
Sample Type: Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	780	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0827	12/14/23 02:41	12/14/23	



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## Certificate of Analysis

Sample ID: AGL1851-04

Sampled By: Matt DeGroot

Sample Description: D-6

Sample Date - Time: 12/13/2023 - 06:44

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	790	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0767	12/13/23 22:16	12/13/23	



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## Certificate of Analysis

Sample ID: AGL1851-05  
Sampled By: Matt DeGroot  
Sample Description: D-10

Sample Date - Time: 12/13/2023 - 06:49  
Matrix: Water  
Sample Type: Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO <sub>3</sub>	SM 2320B	260	3.0	mg/L	1	AGL0870	12/14/23	12/14/23	
Bicarbonate as CaCO <sub>3</sub>	SM 2320B	210	3.0	mg/L	1	AGL0870	12/14/23	12/14/23	
Carbonate as CaCO <sub>3</sub>	SM 2320B	50	3.0	mg/L	1	AGL0870	12/14/23	12/14/23	
Hydroxide as CaCO <sub>3</sub>	SM 2320B	ND	3.0	mg/L	1	AGL0870	12/14/23	12/14/23	
Chloride	EPA 300.0	64	1.0	mg/L	1	AGL0767	12/13/23	12/13/23	
Conductivity @ 25C	SM 2510B	860	1.0	umhos/cm	1	AGL0870	12/14/23	12/14/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0767	12/13/23 22:01	12/13/23	
Sulfate as SO <sub>4</sub>	EPA 300.0	81	1.0	mg/L	1	AGL0767	12/13/23	12/13/23	
Total Dissolved Solids	SM 2540C	550	5.0	mg/L	1	AGL1101	12/18/23	12/18/23	

**Metals**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	2.6	0.10	mg/L	1	AGL1023	12/18/23	12/19/23	
Magnesium	EPA 200.7	0.16	0.10	mg/L	1	AGL1023	12/18/23	12/19/23	
Sodium	EPA 200.7	190	1.0	mg/L	1	AGL1023	12/18/23	12/19/23	



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## Certificate of Analysis

Sample ID: AGL1851-06

Sampled By: Matt DeGroot

Sample Description: D-1

Sample Date - Time: 12/13/2023 - 07:02

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1000	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0767	12/13/23 21:45	12/13/23	



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## Certificate of Analysis

Sample ID: AGL1851-07

Sampled By: Matt DeGroot

Sample Description: D-7

Sample Date - Time: 12/13/2023 - 07:31

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1800	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.46	mg/L	2	AGL0847	12/14/23 12:41	12/14/23	DL1.0



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## Certificate of Analysis

Sample ID: AGL1851-08

Sampled By: Matt DeGroot

Sample Description: D-9

Sample Date - Time: 12/13/2023 - 07:44

Matrix: Water

Sample Type: Grab

### BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	540	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGL0826	12/14/23 01:17	12/14/23	



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## Certificate of Analysis

Sample ID: AGL1851-09

Sampled By: Matt DeGroot

Sample Description: D-8

Sample Date - Time: 12/13/2023 - 07:57

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno  
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	2200	1.0	umhos/cm	1	AGL0934	12/15/23	12/15/23	
Nitrate as N	EPA 300.0	18	0.46	mg/L	2	AGL0827	12/14/23 03:41	12/14/23	



AGL1851

RB5 Well Annual

**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Date Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGL0767

Prepared: 12/13/2023

Prep Method: Method Specific Preparation

Analyst: IDM

**Blank (AGL0767-BLK1)**

Nitrate as N	ND	0.23	mg/L						12/13/23
Chloride	ND	1.0	mg/L						12/13/23
Sulfate as SO <sub>4</sub>	ND	1.0	mg/L						12/13/23

**Blank Spike (AGL0767-BS1)**

Nitrate as N	22	0.23	mg/L	23	ND	98	90-110		12/13/23
Chloride	99	1.0	mg/L	100	ND	99	90-110		12/13/23
Sulfate as SO <sub>4</sub>	98	1.0	mg/L	100	ND	98	90-110		12/13/23

**Matrix Spike (AGL0767-MS1), Source: AGL1269-05**

Nitrate as N	15	0.23	mg/L	11	4.3	98	80-120		12/13/23
Chloride	58	1.0	mg/L	50	8.5	99	80-120		12/13/23
Sulfate as SO <sub>4</sub>	59	1.0	mg/L	50	10	98	80-120		12/13/23

**Matrix Spike (AGL0767-MS2), Source: AGL1618-01**

Nitrate as N	11	0.23	mg/L	11	ND	96	80-120		12/13/23
Chloride	130	1.0	mg/L	50	83	97	80-120		12/13/23
Sulfate as SO <sub>4</sub>	52	1.0	mg/L	50	2.4	99	80-120		12/13/23

**Matrix Spike Dup (AGL0767-MSD1), Source: AGL1269-05**

Nitrate as N	16	0.23	mg/L	11	4.3	99	80-120	1	20	12/13/23
Chloride	58	1.0	mg/L	50	8.5	100	80-120	1	20	12/13/23
Sulfate as SO <sub>4</sub>	60	1.0	mg/L	50	10	99	80-120	1	20	12/13/23

**Matrix Spike Dup (AGL0767-MSD2), Source: AGL1618-01**

Nitrate as N	11	0.23	mg/L	11	ND	97	80-120	1	20	12/13/23
Chloride	130	1.0	mg/L	50	83	99	80-120	1	20	12/13/23
Sulfate as SO <sub>4</sub>	52	1.0	mg/L	50	2.4	100	80-120	1	20	12/13/23

EPA 300.0 - Quality Control

Batch: AGL0826

Prepared: 12/13/2023

Prep Method: Method Specific Preparation

Analyst: AAS

**Blank (AGL0826-BLK1)**

Nitrate as N	ND	0.23	mg/L						12/13/23
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**Blank Spike (AGL0826-BS1)**

Nitrate as N	23	0.23	mg/L	23	ND	100	90-110		12/13/23
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**Matrix Spike (AGL0826-MS1), Source: AGL1875-01**

Nitrate as N	13	0.23	mg/L	11	1.6	99	80-120		12/13/23
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**Matrix Spike Dup (AGL0826-MSD1), Source: AGL1875-01**

Nitrate as N	13	0.23	mg/L	11	1.6	99	80-120	0	20	12/14/23
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Date Analyzed	Qual
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**EPA 300.0 - Quality Control**

**Batch: AGL0827** Prepared: 12/13/2023  
**Prep Method: Method Specific Preparation** Analyst: AAS

<b>Blank (AGL0827-BLK1)</b>										
Nitrate as N	ND	0.23	mg/L							12/13/23
<b>Blank Spike (AGL0827-BS1)</b>										
Nitrate as N	23	0.23	mg/L	23	ND	101	90-110			12/13/23
<b>Matrix Spike (AGL0827-MS1), Source: AGL1752-04</b>										
Nitrate as N	12	0.23	mg/L	11	0.56	97	80-120			12/14/23
<b>Matrix Spike Dup (AGL0827-MSD1), Source: AGL1752-04</b>										
Nitrate as N	12	0.23	mg/L	11	0.56	99	80-120	2	20	12/14/23

**EPA 300.0 - Quality Control**

**Batch: AGL0847** Prepared: 12/14/2023  
**Prep Method: Method Specific Preparation** Analyst: IDM

<b>Blank (AGL0847-BLK1)</b>										
Nitrate as N	ND	0.23	mg/L							12/14/23
<b>Blank Spike (AGL0847-BS1)</b>										
Nitrate as N	23	0.23	mg/L	23	ND	100	90-110			12/14/23
<b>Matrix Spike (AGL0847-MS1), Source: AGL1690-01</b>										
Nitrate as N	17	0.23	mg/L	11	5.9	103	80-120			12/14/23
<b>Matrix Spike (AGL0847-MS2), Source: SGL0289-01</b>										
Nitrate as N	11	0.23	mg/L	11	ND	99	80-120			12/14/23
<b>Matrix Spike Dup (AGL0847-MSD1), Source: AGL1690-01</b>										
Nitrate as N	17	0.23	mg/L	11	5.9	103	80-120	0	20	12/14/23
<b>Matrix Spike Dup (AGL0847-MSD2), Source: SGL0289-01</b>										
Nitrate as N	12	0.23	mg/L	11	ND	101	80-120	2	20	12/14/23

**SM 2320B - Quality Control**

**Batch: AGL0870** Prepared: 12/14/2023  
**Prep Method: Method Specific Preparation** Analyst: BAG

<b>Blank (AGL0870-BLK1)</b>										
Alkalinity as CaCO <sub>3</sub>	ND	3.0	mg/L							12/14/23
Bicarbonate as CaCO <sub>3</sub>	ND	3.0	mg/L							12/14/23
Carbonate as CaCO <sub>3</sub>	ND	3.0	mg/L							12/14/23
Hydroxide as CaCO <sub>3</sub>	ND	3.0	mg/L							12/14/23

**Blank Spike (AGL0870-BS1)**

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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AGL1851

RB5 Well Annual

**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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**SM 2320B - Quality Control**

**Batch: AGL0870** Prepared: 12/14/2023  
**Prep Method: Method Specific Preparation** Analyst: BAG

<b>Blank Spike (AGL0870-BS1)</b>										
Alkalinity as CaCO <sub>3</sub>	100		3.0	mg/L	100	ND	102	80-120		12/14/23
<b>Blank Spike Dup (AGL0870-BSD1)</b>										
Alkalinity as CaCO <sub>3</sub>	100		3.0	mg/L	100	ND	102	80-120	0	20 12/14/23
<b>Duplicate (AGL0870-DUP1), Source: AGL1875-01</b>										
Alkalinity as CaCO <sub>3</sub>	77		3.0	mg/L		78			1	10 12/14/23
Bicarbonate as CaCO <sub>3</sub>	61		3.0	mg/L		67			9	10 12/14/23
Carbonate as CaCO <sub>3</sub>	15		3.0	mg/L		11			34	10 12/14/23 DP1.1
Hydroxide as CaCO <sub>3</sub>	ND		3.0	mg/L		ND			10	12/14/23

**SM 2510B - Quality Control**

**Batch: AGL0870** Prepared: 12/14/2023  
**Prep Method: Method Specific Preparation** Analyst: BAG

<b>Blank Spike (AGL0870-BS1)</b>										
Conductivity @ 25C	1400		1.0	umhos/cm	1400	ND	100	90-110		12/14/23
<b>Blank Spike Dup (AGL0870-BSD1)</b>										
Conductivity @ 25C	1400		1.0	umhos/cm	1400	ND	100	90-110	0	5 12/14/23
<b>Duplicate (AGL0870-DUP1), Source: AGL1875-01</b>										
Conductivity @ 25C	230		1.0	umhos/cm		230			1	5 12/14/23

**SM 2510B - Quality Control**

**Batch: AGL0934** Prepared: 12/15/2023  
**Prep Method: Method Specific Preparation** Analyst: BAG

<b>Blank Spike (AGL0934-BS1)</b>										
Conductivity @ 25C	1400		1.0	umhos/cm	1400	ND	100	90-110		12/15/23
<b>Blank Spike Dup (AGL0934-BSD1)</b>										
Conductivity @ 25C	1400		1.0	umhos/cm	1400	ND	100	90-110	0	5 12/15/23
<b>Duplicate (AGL0934-DUP1), Source: RGL0025-01RE1</b>										
Conductivity @ 25C	390		1.0	umhos/cm		390			0	5 12/15/23

**SM 2540C - Quality Control**

**Batch: AGL1101** Prepared: 12/18/2023  
**Prep Method: Method Specific Preparation** Analyst: RRV

<b>Blank (AGL1101-BLK1)</b>										
Total Dissolved Solids	ND		5.0	mg/L						12/18/23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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AGL1851

RB5 Well Annual

## BSK Associates Laboratory Fresno

## General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed Qual
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## SM 2540C - Quality Control

Batch: AGL1101

Prepared: 12/18/2023

Prep Method: Method Specific Preparation

Analyst: RRV

## Blank Spike (AGL1101-BS1)

Total Dissolved Solids 1000 mg/L 1000 101 70-130 12/18/23

## Duplicate (AGL1101-DUP1), Source: AGL1852-01

Total Dissolved Solids 910 5.0 mg/L 890 3 10 12/18/23

## Duplicate (AGL1101-DUP2), Source: AGL1835-02

Total Dissolved Solids 380 5.0 mg/L 400 3 10 12/18/23



AGL1851

RB5 Well Annual

## BSK Associates Laboratory Fresno

## Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Analyzed	Qual
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## EPA 200.7 - Quality Control

Batch: AGL1023

Prepared: 12/18/2023

Prep Method: EPA 200.2

Analyst: SAB

## Blank (AGL1023-BLK2)

Calcium	ND	0.10	mg/L						12/19/23
Magnesium	ND	0.10	mg/L						12/19/23
Sodium	ND	1.0	mg/L						12/19/23

## Blank Spike (AGL1023-BS2)

Calcium	4.7	0.10	mg/L	4.8	ND	97	85-115		12/19/23
Magnesium	4.8	0.10	mg/L	4.8	ND	100	85-115		12/19/23
Sodium	4.9	1.0	mg/L	4.8	ND	102	85-115		12/19/23

## Blank Spike Dup (AGL1023-BSD2)

Calcium	4.5	0.10	mg/L	4.8	ND	94	85-115	3	20	12/19/23
Magnesium	4.7	0.10	mg/L	4.8	ND	99	85-115	1	20	12/19/23
Sodium	4.8	1.0	mg/L	4.8	ND	99	85-115	3	20	12/19/23

## Matrix Spike (AGL1023-MS3), Source: AGL1818-01

Calcium	19	0.10	mg/L	4.8	12	149	70-130		12/19/23	MS1.0 High
Magnesium	7.2	0.10	mg/L	4.8	1.9	110	70-130		12/19/23	
Sodium	14	1.0	mg/L	4.8	7.2	140	70-130		12/19/23	MS1.0 High

## Matrix Spike Dup (AGL1023-MSD3), Source: AGL1818-01

Calcium	19	0.10	mg/L	4.8	12	149	70-130	0	20	12/19/23	MS1.0 High
Magnesium	7.3	0.10	mg/L	4.8	1.9	112	70-130	1	20	12/19/23	
Sodium	14	1.0	mg/L	4.8	7.2	140	70-130	0	20	12/19/23	MS1.0 High

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**Certificate of Analysis****Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.  
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

**Certificate of Analysis****Definitions**

mg/L: Milligrams/Liter (ppm)  
mg/Kg: Milligrams/Kilogram (ppm)  
µg/L: Micrograms/Liter (ppb)  
µg/Kg: Micrograms/Kilogram (ppb)  
%: Percent  
NR: Non-Reportable

MDL: Method Detection Limit  
RL: Reporting Limit: DL x Dilution  
ND: None Detected below MRL/MDL  
pCi/L: PicoCuries per Liter  
RL Mult: RL Multiplier  
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity  
MPN: Most Probable Number  
CFU: Colony Forming Unit  
Absent: Less than 1 CFU/100mLs  
Present: 1 or more CFU/100mLs  
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

\*\*NA\*\*

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

**Sacramento**

State of California - ELAP	1180-S1
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**San Bernardino**

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

**Vancouver**

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		



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**Sample Integrity**

BSK Bottles: Yes No

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COC Info	Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes	No	NA	Were correct containers and preservatives received for the tests requested?			Yes	No	NA
					Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)					
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA				Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No	NA	Was a sufficient amount of sample received?			Yes	No	NA
	Did all bottle labels agree with COC?	Yes	No	NA	Do samples have a hold time <72 hours?			Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA	NA	Was PM notified of discrepancies? PM: By/Time:			Yes	No	NA
Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)		Checks*	Passed?	1-61	5	10-4			
	Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		—	—						
	None (P) White Cap		—	—	1A	1A	1C	1A		
	Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW		Cl, pH > 8	P F						
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW		pH 9.3-9.7	P F						
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	P F						
	HNO <sub>3</sub> (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—			1B			
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label		pH < 2	P F						
	NaOH (P) Green Cap		Cl, pH > 10	P F						
	NaOH + ZnAc (P)		pH > 9	P F						
	Dissolved Oxygen 300ml (g)		—	—						
	None (AG) 808/8081/8082, 625, 632/8321, 8151, 8270		—	—						
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP		—	—						
	Ascorbic, EDTA, KH <sub>2</sub> C <sub>2</sub> O <sub>4</sub> (AG) Pink Label 525		—	—						
	Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515		—	—						
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549		—	—						
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524		—	—						
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547		—	—						
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531		pH < 3	P F						
	NH <sub>4</sub> Cl (AG) Purple Label 552		—	—						
EDA (P) or (AG) Brown Label DBPs		—	—							
HCL (CG) 524.2,BTEX, Gas, MTBE, 8280/624		—	—							
Buffer pH 4 (CG)		—	—							
H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label		—	—							
Trizma - EPA 537.1 Light Blue Label FB		—	—							
Ammonia Acetate - EPA 533 Purple Label FB		—	—							
Bottled Water		—	—							
Asbestos 1L (P) w/ Foil / LL Metals Bottle		—	—							
Clear Glass		—	—							
OTHER:		—	—							
Split	Container	Preservative	Lot #		Initials	Date/Time	Preservation	Check		
	S P						pH Lot #			
	S P						Cl Lot #			
*Preservation check completed by lab performing analysis.							✓ Indicates Blanks Received			
Comments							504 524.2 TTHM 537/533 TCP			
							✓ MS/MSD Received Method:			
Labeled by:		Labels Checked by:								

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**BSK ANALYTICAL  
LABORATORIES**

1414 Stanislaus Street, Fresno, CA 93706-1623  
(559) 497-2888 • FAX (559) 497-2893 • www.bsklabs.com

\* Required Fields

Client/Company Name * <i>River Valley Dairy</i>	Report Attention * <i>Timmy Derry</i>	Phone #: <b>559-307-0690</b>
Address * <b>2220 S. Cemita Ave</b>	City * <i>Bakersfield</i>	FAX #: <b>559-307-0690</b>
State * <i>CA</i>	Zip * <i>93307</i>	E-mail: <b>matthewdegroot@comcast.net</b>

Project Information

How would you like your completed results sent?  
 E-Mail    FAX    EDD    Mail Only

OC Request    STD    Level II    Day\*    Day\*    Day\*    Day\*

Sampler Name Printed / Signature  
*Matt DeGroot*

Quote #

Regulatory Compliance  
Electronic Data Transfer:  Y  N

System No. \*

Other: N/A

TEMP: **0.0**

#**77**



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ANALYSIS REQUESTED

**RB5-Well**

**RB5-well-5 Year Test**

**RB5 Surface**

**COC created**

Sample #	Point	Sample Description / Location *	Matrix *	Comments / Station Code
1	123rd CRW	W-11	RGW	X
2	D-27	D-4		X
3	D-41	D-5		X
4	D-44	D-6		X
5	D-49	D-10		X
6	D-62	D-1		X
7	D-73	D-7		X
8	D-74	D-9		X
9	D-75	D-8		X

Sample #	Point	Sample Description / Location *	Matrix *	Comments / Station Code
1	123rd CRW	W-11	RGW	X
2	D-27	D-4		X
3	D-41	D-5		X
4	D-44	D-6		X
5	D-49	D-10		X
6	D-62	D-1		X
7	D-73	D-7		X
8	D-74	D-9		X
9	D-75	D-8		X

Refiniquished by: (Signature and Printed Name) <i>Matt DeGroot</i>	Company DeGroot Environmental	Date 12/13/13	Time 1302	Received by (Signature and Print Name) Company
Reinquished by: (Signature and Printed Name) <i>Bel Groot</i>	Company	Date 12/13/13	Time 1305	Received by (Signature and Print Name) Company
Received for Job by: (Signature and Printed Name) <i>Bel Groot</i>	Payment Received at Delivery: Amount: Date: Check/Cash/Card P.A. # Init.			
Shipping Method: CAO UPS GSO WALK-IN SVC FedEx OTHER <i>WET BLUE NONE</i>	Cooling Method: <i>None</i>	Packing Material:		

Notice: Payment for services rendered as noted herein are due in full within 30 days from when rendered. If not so paid, accrued balances are deemed delinquent. Delinquent balances are subject to monthly service-holding charges and interest calculated at 1 1/2% per month, 18% per annum. BSK & Associates shall be entitled to recover on delinquent accounts, costs of collection, including attorney's fees incurred prior to or in litigation whether concluded by judgment, settlement, compromise or otherwise. The person signing for the client/company expressly acknowledges that they are either the Client or authorized agent to the Client, and the Client agrees to be responsible for payment for analytical services on this Chain of Custody. Any modification of the analysis request, other type or quantity, will be used and agreed upon via Chain of Custody. The turn around time for any samples received after 2:00 pm will begin the next business day.

AGL 1851 River-1440

12/13/2013

**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
F1	59	59	2	both	X053-0110-X018-0000
F2	18	18	2	both	X053-0110-X018-0000
F3	21	21	1	none	X053-0110-X018-0000
F4	38	38	2	both	X053-0110-X010-0000
F5 E&W	156	156	1	none	X053-0110-X002-0000 X053-0110-X008-0000
F6	58	58	1	none	X053-0110-X002-0000
K1	34	34	2	both	X004-0050-X007-0000 X004-0050-X064-0000 X004-0050-X091-0000
K10	39	39	2	both	X004-0040-X026-0000
K11	21	21	2	both	X004-0040-X007-0000 X004-0040-X008-0000
K12	58	58	1	none	X004-0040-X006-0000
K13	18	18	2	both	X004-0050-X002-0000 X004-0050-X093-0000
K14	37	37	2	both	X004-0050-X003-0000
K2	65	65	2	both	X004-0050-X064-0000 X004-0050-X126-0000 X004-0050-X127-0000
K3	25	25	1	none	X004-0050-X125-0000
K4	18	18	2	both	X004-0050-X001-0000
K5	42	42	1	none	X004-0040-X013-0000 X004-0040-X038-0000 X004-0040-X049-0000
K6	66	66	1	none	X004-0040-X011-0000 X004-0040-X015-0000
K7	49	49	2	both	X004-0040-X010-0000
K8	68	68	2	both	X004-0040-X010-0000 X004-0040-X026-0000
K9	36	36	2	both	X004-0040-X026-0000
Totals for areas that were used for application	500	500	26		
Totals for areas that were not used for application	426	426	7		
Land application area totals	926	926	33		