

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: Elk Creek Dairy

Physical address of dairy:

18035 Road 96

Tulare

Tulare

93274

Number and Street

City

County

Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 08/01/1973

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X228-X008-X018-XXXX

B. OPERATORS

Aukeman, Brent

Operator name: Aukeman, Brent

Telephone no.: (209) 628-8297 (559) 471-8304

Landline

Cellular

18017 Road 96

Tulare

CA

93274

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Aukeman, Brent

Legal owner name: Aukeman, Brent

Telephone no.: (209) 628-8297 (559) 471-8304

Landline

Cellular

18017 Road 96

Tulare

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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	229	537	509	175	0
Number under roof	1,437	0	0	0	0	0
Maximum number	1,500	400	625	645	230	0
Average number	1,437	229	537	509	175	0
Avg live weight (lbs)	1,400	1,400	900	650		

Predominant milk cow breed: Holstein
Average milk production: 85 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 53,485.81 tons per reporting period
Total nitrogen from manure: 665,016.89 lbs per reporting period After ammonia losses (30% loss applied): 465,511.82 lbs per reporting period
Total phosphorus from manure: 110,619.12 lbs per reporting period
Total potassium from manure: 289,360.39 lbs per reporting period
Total salt from manure: 729,270.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 99,216,000 gallons
Total nitrogen generated: 324,982.01 lbs
Total phosphorus generated: 37,477.06 lbs
Total potassium generated: 465,423.58 lbs
Total salt generated: 2,448,621.28 lbs

	99,216,000 gallons applied
+	0 gallons exported
-	0 gallons imported
=	99,216,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Elk Creek Bayou	Surface water
IW #1	Ground water
IW #12	Ground water
IW #14	Ground water
IW #2	Ground water

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Source Description	Type
IW #21	Ground water
IW #22	Ground water
IW #23	Ground water
IW #24	Ground water
IW #25	Ground water
IW #26	Ground water
IW #27	Ground water
IW #3	Ground water
Tule River Canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES*No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/06/2023	Separator solids	1,918.00 <i>ton</i>	Dry-weight	74.2		16,700.00	3,000.00	7,900.00		32.40

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	16,527.79	2,969.06	7,818.54	320,658.91
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	16,527.79	2,969.06	7,818.54	320,658.91

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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
Field 1 North	72	72	2	process wastewater	X228-X008-X021-XXXX
Field 1 South	70	70	2	process wastewater	X228-X009-X006-XXXX
Field 12	17	17	0	none	X228-X008-X018-XXXX
Field 13	97	97	2	process wastewater	X228-X008-X018-XXXX
Field 17	29	29	1	process wastewater	X228-X008-X014-XXXX
Field 18	33	33	2	process wastewater	X228-X008-X014-XXXX
Field 19	70	70	2	process wastewater	X228-X008-X014-XXXX
Field 20	72	72	2	process wastewater	X228-X008-X012-XXXX X228-X008-X035-XXXX
Field 21	74	74	2	process wastewater	X228-X008-X036-XXXX X228-X008-X037-XXXX
Field 22	77	77	2	process wastewater	X228-X008-X038-XXXX
Field 23	76	76	2	process wastewater	X228-X008-X038-XXXX
Totals for areas that were used for application	670	670	19		
Totals for areas that were not used for application	17	17	0		
Land application area totals	687	687	19		

B. CROPS AND HARVESTS

Field 1 North									
Field name: <u>Field 1 North</u>									
10/28/2022: <u>Wheat, silage, soft dough</u>									
Crop: <u>Wheat, silage, soft dough</u>						Acres planted: <u>72</u>		Plant date: <u>10/28/2022</u>	
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,616.42 ton	As-is		62.3	7,000.00	800.00	5,800.00		10.50
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)				
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00				
Total actual harvest content	22.45	314.30	35.92	260.42	1,777.39				

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06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/24/2023	2,162.19 ton	As-is		69.6	3,900.00	700.00	3,800.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	30.03	234.24	42.04	228.23	1,022.48

Field 1 SouthField name: Field 1 South

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

Crop: Wheat, silage, soft dough Acres planted: 70 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,317.29 ton	As-is		58.1	6,700.00	800.00	9,200.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	18.82	252.17	30.11	346.26	1,892.38

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,969.79 ton	As-is		65.5	4,700.00	1,000.00	4,000.00		0.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	28.14	264.51	56.28	225.12	58.25

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10/25/2022: Wheat Hay

Crop: Wheat Hay Acres planted: 89 Plant date: 10/25/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	401.28 ton	As-is		6.2	15,500.00	2,400.00	20,700.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	235.80	36.00	149.40	0.00
Total actual harvest content	4.51	139.77	21.64	186.66	1,040.39

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 89 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	2,279.84 ton	As-is		63.6	5,000.00	900.00	4,700.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	25.62	256.16	46.11	240.79	988.37

Field 17Field name: Field 17

10/29/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 29 Plant date: 10/29/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	223.07 ton	As-is		11.6	36,900.00	2,800.00	23,700.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.69	567.67	43.08	364.60	1,591.15

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

Crop: Wheat, silage, soft dough Acres planted: 33 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	798.48 ton	As-is		64.6	6,700.00	900.00	2,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	24.20	324.23	43.55	96.79	1,713.10

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 33 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,169.65 ton	As-is		66.8	4,000.00	700.00	4,300.00		5.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	35.44	283.55	49.62	304.82	1,294.41

Field 19Field name: Field 19

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

Crop: Wheat, silage, soft dough Acres planted: 70 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 (%)
05/17/2023	1,565.22 ton	As-is		70.9	5,500.00	800.00	7,900.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	22.36	245.96	35.78	353.29	1,535.61

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06/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	2,033.23 ton	As-is		64.3	4,600.00	900.00	4,100.00		4.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	29.05	267.22	52.28	238.18	912.51

Field 20Field name: Field 20

11/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 72 Plant date: 11/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,285.67 ton	As-is		71.8	5,300.00	800.00	6,700.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	17.86	189.28	28.57	239.28	1,027.25

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 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 (%)
10/17/2023	1,843.95 ton	As-is		62.7	4,400.00	1,100.00	3,700.00		4.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	25.61	225.37	56.34	189.52	917.06

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Field 21Field name: Field 21

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

Crop: Wheat, silage, soft dough Acres planted: 74 Plant date: 11/03/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	1,699.51 <i>ton</i>	As-is		55.2	6,600.00	1,000.00	9,300.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	22.97	303.16	45.93	427.17	2,736.85

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/18/2023	1,920.25 <i>ton</i>	As-is		63.1	4,500.00	1,100.00	5,200.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	25.95	233.54	57.09	269.87	1,091.58

Field 22Field name: Field 22

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	774.16 <i>ton</i>	As-is		57.3	6,000.00	900.00	5,400.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	10.19	122.24	18.34	110.01	1,017.80

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06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/08/2023	2,192.50 ton	As-is		65.3	4,700.00	700.00	4,600.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	28.85	271.18	40.39	265.41	1,201.26

Field 23Field name: Field 23

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	724.72 ton	As-is		55.3	5,500.00	600.00	5,300.00		8.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	262.00	40.00	166.00	0.00
Total actual harvest content	9.54	104.89	11.44	101.08	716.10

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/08/2023	1,801.04 ton	As-is		63.8	4,400.00	900.00	3,800.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	285.60	61.60	184.80	0.00
Total actual harvest content	23.70	208.54	42.66	180.10	1,115.22

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Field 1 North - 10/28/2022: Wheat, silage, soft dough

Field name: Field 1 North

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/09/2022	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
IW #2	Ground water	22.54	0.00	0.00	489.45	4,910,400.00 <i>gal</i>
IW #27	Ground water	0.81	0.00	0.00	148.02	5,940,000.00 <i>gal</i>
Application event totals		23.34	0.00	0.00	637.47	
01/03/2023	Surface (irrigation)	Light rain	Light rain	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	81.44	8.98	116.61	617.11	1,836,000.00 <i>gal</i>
Tule River Canal	Surface water	0.71	0.00	0.00	20.57	6,120,000.00 <i>gal</i>
Application event totals		82.15	8.98	116.61	637.68	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	190.02	20.95	272.10	1,439.93	4,284,000.00 <i>gal</i>
Tule River Canal	Surface water	1.66	0.00	0.00	48.00	14,280,000.00 <i>gal</i>
Application event totals		191.68	20.95	272.10	1,487.93	
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
IW #1	Ground water	1.94	0.00	0.00	270.76	10,716,000.00 <i>gal</i>
Application event totals		1.94	0.00	0.00	270.76	

Field 1 North - 06/05/2023: Corn, silage

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Field 1 North - 06/05/2023: Corn, silage

Field name: Field 1 NorthCrop: Corn, silagePlant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/19/2023	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
WWS		Process wastewater	127.68	15.89	187.76	859.20	2,592,000.00 <i>gal</i>
IW #1		Ground water	1.98	0.00	0.00	276.52	10,944,000.00 <i>gal</i>
Application event totals			129.66	15.89	187.76	1,135.72	
06/28/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	108.17	13.46	159.08	727.93	2,196,000.00 <i>gal</i>
IW #1		Ground water	1.48	0.00	0.00	207.39	8,208,000.00 <i>gal</i>
Application event totals			109.66	13.46	159.08	935.32	
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
IW #1		Ground water	0.64	0.00	0.00	89.29	3,534,000.00 <i>gal</i>
IW #2		Ground water	10.59	0.00	0.00	229.89	2,306,400.00 <i>gal</i>
Application event totals			11.22	0.00	0.00	319.19	
07/27/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #1		Ground water	1.57	0.00	0.00	218.91	8,664,000.00 <i>gal</i>
Application event totals			1.57	0.00	0.00	218.91	
08/06/2023	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
IW #1		Ground water	2.25	0.00	0.00	313.97	12,426,000.00 <i>gal</i>
Application event totals			2.25	0.00	0.00	313.97	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 1 North - 06/05/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
08/17/2023	Surface (irrigation)	No precipitation		Steady rain			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #1		Ground water	1.73	0.00	0.00	241.95	9,576,000.00 <i>gal</i>	
Application event totals			1.73	0.00	0.00	241.95		
08/28/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #1		Ground water	0.95	0.00	0.00	132.50	5,244,000.00 <i>gal</i>	
IW #3		Ground water	30.10	0.00	0.00	442.03	3,632,160.00 <i>gal</i>	
Application event totals			31.05	0.00	0.00	574.53		
09/07/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #1		Ground water	1.75	0.00	0.00	244.84	9,690,000.00 <i>gal</i>	
Application event totals			1.75	0.00	0.00	244.84		

Field 1 South - 10/29/2022: Wheat, silage, soft doughField name: Field 1 SouthCrop: Wheat, silage, soft doughPlant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/28/2022	Surface (irrigation)	No precipitation	No precipitation	Light rain

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #2	Ground water	22.48	0.00	0.00	488.18	4,761,600.00 <i>gal</i>
IW #27	Ground water	0.80	0.00	0.00	147.63	5,760,000.00 <i>gal</i>
Application event totals		23.28	0.00	0.00	635.81	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 1 South - 10/29/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/13/2023	Surface (irrigation)	No precipitation	Light rain	Light rain		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	118.26	13.04	169.33	896.11	2,592,000.00 <i>gal</i>
Tule River Canal	Surface water	1.03	0.00	0.00	29.87	8,640,000.00 <i>gal</i>
Application event totals		119.29	13.04	169.33	925.98	
02/28/2023	Surface (irrigation)	Light rain	Light rain	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	126.47	13.95	181.09	958.34	2,772,000.00 <i>gal</i>
Tule River Canal	Surface water	1.10	0.00	0.00	31.94	9,240,000.00 <i>gal</i>
Application event totals		127.57	13.95	181.09	990.28	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	Light rain		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #1	Ground water	1.82	0.00	0.00	254.79	9,804,000.00 <i>gal</i>
Application event totals		1.82	0.00	0.00	254.79	

Field 1 South - 06/17/2023: Corn, silageField name: Field 1 SouthCrop: Corn, silagePlant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	169.63	21.11	249.46	1,141.51	3,348,000.00 <i>gal</i>
IW #1	Ground water	1.97	0.00	0.00	275.53	10,602,000.00 <i>gal</i>
Application event totals		171.60	21.11	249.46	1,417.04	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 1 South - 06/17/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #1		Ground water	2.08	0.00	0.00	290.35	11,172,000.00 <i>gal</i>
Application event totals			2.08	0.00	0.00	290.35	
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
IW #1		Ground water	0.83	0.00	0.00	115.55	4,446,000.00 <i>gal</i>
IW #2		Ground water	13.70	0.00	0.00	297.48	2,901,600.00 <i>gal</i>
Application event totals			14.52	0.00	0.00	413.03	
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
WWS		Process wastewater	124.65	13.02	174.67	990.87	2,664,000.00 <i>gal</i>
IW #1		Ground water	1.72	0.00	0.00	239.98	9,234,000.00 <i>gal</i>
Application event totals			126.37	13.02	174.67	1,230.85	
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
IW #1		Ground water	1.67	0.00	0.00	234.05	9,006,000.00 <i>gal</i>
Application event totals			1.67	0.00	0.00	234.05	
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
IW #1		Ground water	2.06	0.00	0.00	287.38	11,058,000.00 <i>gal</i>
Application event totals			2.06	0.00	0.00	287.38	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 1 South - 06/17/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/02/2023	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
IW #1		Ground water	0.85	0.00	0.00	118.51	4,560,000.00 <i>gal</i>
IW #3		Ground water	26.92	0.00	0.00	395.35	3,158,400.00 <i>gal</i>
Application event totals			27.77	0.00	0.00	513.86	
09/14/2023	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
IW #1		Ground water	1.36	0.00	0.00	189.61	7,296,000.00 <i>gal</i>
Application event totals			1.36	0.00	0.00	189.61	

Field 13 - 10/25/2022: Wheat HayField name: Field 13Crop: Wheat HayPlant date: 10/25/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
10/07/2022	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	
IW #22			Ground water	20.10	0.00	0.00	451.14	4,860,000.00 <i>gal</i>	
IW #27			Ground water	0.80	0.00	0.00	146.96	7,290,000.00 <i>gal</i>	
Application event totals				20.90	0.00	0.00	598.10		
01/10/2023	Surface (irrigation)		Steady rain		Light rain			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WWS			Process wastewater	77.51	8.55	110.99	587.34	2,160,000.00 <i>gal</i>	
Tule River Canal			Surface water	0.86	0.00	0.00	24.80	9,120,000.00 <i>gal</i>	
Application event totals				78.36	8.55	110.99	612.14		

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 13 - 10/25/2022: Wheat Hay**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/09/2023	Surface (irrigation)	No precipitation	Light rain	Light rain		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	91.72	10.11	131.33	695.02	2,556,000.00 <i>gal</i>
Tule River Canal	Surface water	1.39	0.00	0.00	40.30	14,820,000.00 <i>gal</i>
Application event totals		93.11	10.11	131.33	735.31	
04/15/2023	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
IW #27	Ground water	0.65	0.00	0.00	119.75	5,940,000.00 <i>gal</i>
Tule River Canal	Surface water	0.74	0.00	0.00	21.54	7,920,000.00 <i>gal</i>
Application event totals		1.39	0.00	0.00	141.28	

Field 13 - 06/27/2023: Corn, silageField name: Field 13Crop: Corn, silagePlant date: 06/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/14/2023	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
WWS	Process wastewater	96.12	11.96	141.35	646.81	2,412,000.00 <i>gal</i>
IW #27	Ground water	0.66	0.00	0.00	121.56	6,030,000.00 <i>gal</i>
Tule River Canal	Surface water	0.75	0.00	0.00	21.86	8,040,000.00 <i>gal</i>
Application event totals		97.53	11.96	141.35	790.24	
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
IW #22	Ground water	22.08	0.00	0.00	495.69	5,340,000.00 <i>gal</i>
IW #27	Ground water	0.88	0.00	0.00	161.48	8,010,000.00 <i>gal</i>
Application event totals		22.96	0.00	0.00	657.17	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 13 - 06/27/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	100.69	10.52	141.10	800.40	2,736,000.00 <i>gal</i>
IW #27	Ground water	1.25	0.00	0.00	230.42	11,430,000.00 <i>gal</i>
Application event totals		101.95	10.52	141.10	1,030.82	
08/21/2023	Surface (irrigation)	Steady rain	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #1	Ground water	1.23	0.00	0.00	172.44	8,436,000.00 <i>gal</i>
IW #27	Ground water	0.73	0.00	0.00	134.26	6,660,000.00 <i>gal</i>
Application event totals		1.96	0.00	0.00	306.70	
09/04/2023	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
Tule River Canal	Surface water	1.14	0.00	0.00	32.96	12,120,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	32.96	
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
WWS	Process wastewater	82.14	8.58	115.10	652.96	2,232,000.00 <i>gal</i>
IW #27	Ground water	1.21	0.00	0.00	223.16	11,070,000.00 <i>gal</i>
Application event totals		83.36	8.58	115.10	876.12	
09/20/2023	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
IW #27	Ground water	1.40	0.00	0.00	257.64	12,780,000.00 <i>gal</i>
Application event totals		1.40	0.00	0.00	257.64	

Field 17 - 10/29/2018: Alfalfa, hayField name: Field 17Crop: Alfalfa, hayPlant date: 10/29/2018

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 17 - 10/29/2018: Alfalfa, hay**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
09/30/2022	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
IW #21		Ground water	24.17	0.00	0.00	738.62	2,790,000.00 <i>gal</i>
IW #27		Ground water	0.94	0.00	0.00	172.61	2,790,000.00 <i>gal</i>
Application event totals			25.11	0.00	0.00	911.23	
02/05/2023	Surface (irrigation)	No precipitation	Light rain			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	202.19	22.30	289.52	1,532.14	1,836,000.00 <i>gal</i>
Tule River Canal		Surface water	0.88	0.00	0.00	25.54	3,060,000.00 <i>gal</i>
Application event totals			203.07	22.30	289.52	1,557.68	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #21		Ground water	28.84	0.00	0.00	881.58	3,330,000.00 <i>gal</i>
Application event totals			28.84	0.00	0.00	881.58	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27		Ground water	1.80	0.00	0.00	331.30	5,355,000.00 <i>gal</i>
Application event totals			1.80	0.00	0.00	331.30	
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
IW #21		Ground water	33.52	0.00	0.00	1,024.54	3,870,000.00 <i>gal</i>
Application event totals			33.52	0.00	0.00	1,024.54	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 17 - 10/29/2018: Alfalfa, hay**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
07/31/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27		Ground water	1.39	0.00	0.00	256.13	4,140,000.00 <i>gal</i>
IW #22		Ground water	46.45	0.00	0.00	1,042.66	3,660,000.00 <i>gal</i>
Application event totals			47.84	0.00	0.00	1,298.80	
09/06/2023	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
IW #27		Ground water	1.38	0.00	0.00	253.35	4,095,000.00 <i>gal</i>
Application event totals			1.38	0.00	0.00	253.35	

Field 18 - 10/31/2022: Wheat, silage, soft doughField name: Field 18Crop: Wheat, silage, soft doughPlant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
09/30/2022	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	
WWS		Process wastewater	94.23	18.46	136.59	804.31	1,116,000.00 <i>gal</i>	
IW #22		Ground water	20.74	0.00	0.00	465.65	1,860,000.00 <i>gal</i>	
IW #27		Ground water	0.83	0.00	0.00	151.69	2,790,000.00 <i>gal</i>	
Application event totals			115.80	18.46	136.59	1,421.65		
12/29/2022	Surface (irrigation)	No precipitation		Light rain			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WWS		Process wastewater	118.55	23.22	171.84	1,011.87	1,404,000.00 <i>gal</i>	
IW #22		Ground water	36.80	0.00	0.00	826.16	3,300,000.00 <i>gal</i>	
Application event totals			155.35	23.22	171.84	1,838.02		

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 18 - 10/31/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
03/02/2023	Surface (irrigation)	Light rain		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WWS		Process wastewater	121.94	13.45	174.61	924.02	1,260,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.88	0.00	0.00	25.52	3,480,000.00 <i>gal</i>	
Application event totals			122.82	13.45	174.61	949.54		
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	
IW #27		Ground water	1.57	0.00	0.00	288.70	5,310,000.00 <i>gal</i>	
Application event totals			1.57	0.00	0.00	288.70		

Field 18 - 06/10/2023: Corn, silageField name: Field 18Crop: Corn, silagePlant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
WWS	Process wastewater	108.33	13.48	159.31	729.02	1,008,000.00 <i>gal</i>
IW #27	Ground water	0.93	0.00	0.00	171.26	3,150,000.00 <i>gal</i>
Tule River Canal	Surface water	0.53	0.00	0.00	15.40	2,100,000.00 <i>gal</i>
Application event totals		109.80	13.48	159.31	915.68	
06/28/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27	Ground water	0.88	0.00	0.00	161.48	2,970,000.00 <i>gal</i>
Tule River Canal	Surface water	0.50	0.00	0.00	14.52	1,980,000.00 <i>gal</i>
Application event totals		1.38	0.00	0.00	176.00	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 18 - 06/10/2023: 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
WWS		Process wastewater	101.84	10.64	142.70	809.50	1,026,000.00 <i>gal</i>
IW #27		Ground water	1.52	0.00	0.00	278.91	5,130,000.00 <i>gal</i>
Application event totals			103.35	10.64	142.70	1,088.41	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #22		Ground water	18.07	0.00	0.00	405.57	1,620,000.00 <i>gal</i>
IW #27		Ground water	0.72	0.00	0.00	132.12	2,430,000.00 <i>gal</i>
Application event totals			18.79	0.00	0.00	537.68	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	103.62	10.82	145.20	823.70	1,044,000.00 <i>gal</i>
IW #21		Ground water	19.87	0.00	0.00	607.21	2,610,000.00 <i>gal</i>
IW #22		Ground water	19.40	0.00	0.00	435.61	1,740,000.00 <i>gal</i>
Application event totals			142.89	10.82	145.20	1,866.52	
08/20/2023	Surface (irrigation)	Light rain	Steady rain			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27		Ground water	1.41	0.00	0.00	259.34	4,770,000.00 <i>gal</i>
Application event totals			1.41	0.00	0.00	259.34	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27		Ground water	1.30	0.00	0.00	239.77	4,410,000.00 <i>gal</i>
Application event totals			1.30	0.00	0.00	239.77	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	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
IW #27	Ground water	1.12	0.00	0.00	205.51	3,780,000.00 <i>gal</i>
Application event totals		1.12	0.00	0.00	205.51	

Field 19 - 11/07/2022: Wheat, silage, soft doughField name: Field 19Crop: Wheat, silage, soft doughPlant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/17/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	124.83	13.76	178.74	945.89	2,736,000.00 <i>gal</i>
Tule River Canal	Surface water	1.09	0.00	0.00	31.74	9,180,000.00 <i>gal</i>
Application event totals		125.92	13.76	178.74	977.63	
03/09/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	101.83	11.23	145.82	771.65	2,232,000.00 <i>gal</i>
Tule River Canal	Surface water	0.67	0.00	0.00	19.29	5,580,000.00 <i>gal</i>
Application event totals		102.50	11.23	145.82	790.94	
04/24/2023	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
WWS	Process wastewater	94.85	11.81	139.48	638.26	1,872,000.00 <i>gal</i>
IW #27	Ground water	1.97	0.00	0.00	362.17	14,130,000.00 <i>gal</i>
Application event totals		96.82	11.81	139.48	1,000.43	

Field 19 - 06/18/2023: Corn, silage

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Field 19 - 06/18/2023: Corn, silage

Field name: Field 19Crop: Corn, silagePlant date: 06/18/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	100.32	12.49	147.53	675.09	1,980,000.00 <i>gal</i>
IW #27		Ground water	0.90	0.00	0.00	166.09	6,480,000.00 <i>gal</i>
Tule River Canal		Surface water	0.52	0.00	0.00	14.94	4,320,000.00 <i>gal</i>
Application event totals			101.74	12.49	147.53	856.11	
07/06/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #27		Ground water	0.83	0.00	0.00	152.25	5,940,000.00 <i>gal</i>
Tule River Canal		Surface water	0.47	0.00	0.00	13.69	3,960,000.00 <i>gal</i>
Application event totals			1.30	0.00	0.00	165.94	
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
WWS		Process wastewater	100.23	10.47	140.45	796.71	2,142,000.00 <i>gal</i>
IW #22		Ground water	18.77	0.00	0.00	421.34	3,570,000.00 <i>gal</i>
IW #27		Ground water	0.75	0.00	0.00	137.25	5,355,000.00 <i>gal</i>
Application event totals			119.74	10.47	140.45	1,355.31	
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
IW #21		Ground water	15.18	0.00	0.00	463.93	4,230,000.00 <i>gal</i>
IW #27		Ground water	0.59	0.00	0.00	108.42	4,230,000.00 <i>gal</i>
Application event totals			15.77	0.00	0.00	572.35	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 19 - 06/18/2023: 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	
WWS		Process wastewater	85.91	8.97	120.38	682.90	1,836,000.00 <i>gal</i>	
IW #27		Ground water	0.97	0.00	0.00	177.62	6,930,000.00 <i>gal</i>	
Application event totals			86.88	8.97	120.38	860.52		
08/24/2023	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	
IW #22		Ground water	17.98	0.00	0.00	403.64	3,420,000.00 <i>gal</i>	
IW #27		Ground water	0.72	0.00	0.00	131.49	5,130,000.00 <i>gal</i>	
Application event totals			18.70	0.00	0.00	535.12		
09/04/2023	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	
IW #27		Ground water	0.95	0.00	0.00	175.32	6,840,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.54	0.00	0.00	15.76	4,560,000.00 <i>gal</i>	
Application event totals			1.50	0.00	0.00	191.08		
09/14/2023	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	
IW #27		Ground water	1.46	0.00	0.00	267.59	10,440,000.00 <i>gal</i>	
Application event totals			1.46	0.00	0.00	267.59		

Field 20 - 11/26/2022: Wheat, silage, soft doughField name: Field 20Crop: Wheat, silage, soft doughPlant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 20 - 11/26/2022: 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	
WWS		Process wastewater	89.16	17.46	129.25	761.06	2,304,000.00 <i>gal</i>	
IW #23		Ground water	0.41	0.00	0.00	75.13	3,504,000.00 <i>gal</i>	
IW #25		Ground water	4.83	0.00	0.00	279.21	8,760,000.00 <i>gal</i>	
Application event totals			94.40	17.46	129.25	1,115.41		
02/02/2023	Surface (irrigation)	No precipitation		Light rain			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WWS		Process wastewater	124.55	13.73	178.35	943.82	2,808,000.00 <i>gal</i>	
Tule River Canal		Surface water	1.18	0.00	0.00	34.28	10,200,000.00 <i>gal</i>	
Application event totals			125.73	13.73	178.35	978.10		
04/22/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #24		Ground water	27.30	0.00	0.00	530.74	5,088,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.74	0.00	0.00	21.38	6,360,000.00 <i>gal</i>	
Application event totals			28.04	0.00	0.00	552.12		

Field 20 - 06/21/2023: Corn, silageField name: Field 20Crop: Corn, silagePlant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/02/2023	Surface (irrigation)	No precipitation		No precipitation		Light rain	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	90.44	11.26	133.00	608.60	1,836,000.00 <i>gal</i>
IW #23		Ground water	0.65	0.00	0.00	120.42	5,616,000.00 <i>gal</i>
Tule River Canal		Surface water	0.81	0.00	0.00	23.60	7,020,000.00 <i>gal</i>
Application event totals			91.90	11.26	133.00	752.61	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
07/10/2023	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
IW #23		Ground water	0.53	0.00	0.00	97.78	4,560,000.00 <i>gal</i>
Tule River Canal		Surface water	0.66	0.00	0.00	19.16	5,700,000.00 <i>gal</i>
Application event totals			1.19	0.00	0.00	116.93	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	85.16	8.90	119.33	676.95	1,872,000.00 <i>gal</i>
IW #23		Ground water	0.36	0.00	0.00	66.38	3,096,000.00 <i>gal</i>
Tule River Canal		Surface water	0.45	0.00	0.00	13.01	3,870,000.00 <i>gal</i>
Application event totals			85.97	8.90	119.33	756.34	
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
IW #23		Ground water	0.52	0.00	0.00	96.75	4,512,000.00 <i>gal</i>
Tule River Canal		Surface water	0.65	0.00	0.00	18.96	5,640,000.00 <i>gal</i>
Application event totals			1.18	0.00	0.00	115.70	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation			Light rain	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #25		Ground water	3.84	0.00	0.00	221.84	6,960,000.00 <i>gal</i>
Tule River Canal		Surface water	0.40	0.00	0.00	11.70	3,480,000.00 <i>gal</i>
Application event totals			4.24	0.00	0.00	233.53	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #24		Ground water	15.45	0.00	0.00	300.42	2,880,000.00 <i>gal</i>
Tule River Canal		Surface water	0.42	0.00	0.00	12.10	3,600,000.00 <i>gal</i>
Application event totals			15.87	0.00	0.00	312.52	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
09/07/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WWS		Process wastewater	78.61	8.21	110.15	624.87	1,728,000.00 <i>gal</i>	
IW #24		Ground water	21.89	0.00	0.00	425.60	4,080,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.59	0.00	0.00	17.14	5,100,000.00 <i>gal</i>	
Application event totals			101.10	8.21	110.15	1,067.61		
09/20/2023	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	
IW #23		Ground water	0.46	0.00	0.00	84.40	3,936,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.57	0.00	0.00	16.54	4,920,000.00 <i>gal</i>	
Application event totals			1.03	0.00	0.00	100.93		

Field 21 - 11/03/2022: Wheat, silage, soft doughField name: Field 21Crop: Wheat, silage, soft doughPlant date: 11/03/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/12/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	197.31	21.76	282.54	1,495.20	4,572,000.00 <i>gal</i>
Tule River Canal	Surface water	0.86	0.00	0.00	24.92	7,620,000.00 <i>gal</i>
Application event totals		198.17	21.76	282.54	1,520.12	
01/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	150.70	16.62	215.80	1,142.00	3,492,000.00 <i>gal</i>
Tule River Canal	Surface water	0.66	0.00	0.00	19.03	5,820,000.00 <i>gal</i>
Application event totals		151.36	16.62	215.80	1,161.04	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
IW #23	Ground water	0.96	0.00	0.00	177.25	8,496,000.00 <i>gal</i>
Tule River Canal	Surface water	1.20	0.00	0.00	34.73	10,620,000.00 <i>gal</i>
Application event totals		2.16	0.00	0.00	211.98	

Field 21 - 06/23/2023: Corn, silageField name: Field 21Crop: Corn, silagePlant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #23	Ground water	0.61	0.00	0.00	113.16	5,424,000.00 <i>gal</i>
Tule River Canal	Surface water	0.76	0.00	0.00	22.17	6,780,000.00 <i>gal</i>
Application event totals		1.38	0.00	0.00	135.33	
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
WWS	Process wastewater	92.42	9.65	129.51	734.65	2,088,000.00 <i>gal</i>
IW #24	Ground water	21.80	0.00	0.00	423.84	4,176,000.00 <i>gal</i>
Tule River Canal	Surface water	0.59	0.00	0.00	17.07	5,220,000.00 <i>gal</i>
Application event totals		114.81	9.65	129.51	1,175.56	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #23	Ground water	0.40	0.00	0.00	74.10	3,552,000.00 <i>gal</i>
Tule River Canal	Surface water	0.50	0.00	0.00	14.52	4,440,000.00 <i>gal</i>
Application event totals		0.90	0.00	0.00	88.62	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/09/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #23		Ground water	0.60	0.00	0.00	111.16	5,328,000.00 <i>gal</i>
Tule River Canal		Surface water	0.75	0.00	0.00	21.78	6,660,000.00 <i>gal</i>
Application event totals			1.35	0.00	0.00	132.94	
08/20/2023	Surface (irrigation)	Light rain		Steady rain		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	76.49	7.99	107.18	607.99	1,728,000.00 <i>gal</i>
IW #25		Ground water	3.90	0.00	0.00	225.15	7,260,000.00 <i>gal</i>
Tule River Canal		Surface water	0.41	0.00	0.00	11.87	3,630,000.00 <i>gal</i>
Application event totals			80.79	7.99	107.18	845.00	
08/30/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #23		Ground water	0.43	0.00	0.00	79.11	3,792,000.00 <i>gal</i>
Tule River Canal		Surface water	0.53	0.00	0.00	15.50	4,740,000.00 <i>gal</i>
Application event totals			0.96	0.00	0.00	94.61	
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
WWS		Process wastewater	89.23	9.32	125.04	709.32	2,016,000.00 <i>gal</i>
IW #24		Ground water	21.30	0.00	0.00	414.09	4,080,000.00 <i>gal</i>
Tule River Canal		Surface water	0.58	0.00	0.00	16.68	5,100,000.00 <i>gal</i>
Application event totals			111.11	9.32	125.04	1,140.09	
09/23/2023	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
IW #23		Ground water	0.41	0.00	0.00	75.11	3,600,000.00 <i>gal</i>
Tule River Canal		Surface water	0.51	0.00	0.00	14.72	4,500,000.00 <i>gal</i>
Application event totals			0.91	0.00	0.00	89.82	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/11/2022	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
IW #25	Ground water	4.20	0.00	0.00	242.77	8,040,000.00 <i>gal</i>
Application event totals		4.20	0.00	0.00	242.77	
01/17/2023	Surface (irrigation)	Light rain	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	145.23	16.01	207.95	1,100.49	3,456,000.00 <i>gal</i>
Tule River Canal	Surface water	0.79	0.00	0.00	22.93	7,200,000.00 <i>gal</i>
Application event totals		146.02	16.01	207.95	1,123.41	
02/24/2023	Surface (irrigation)	No precipitation	Steady rain	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	0.96	0.00	0.00	27.70	8,700,000.00 <i>gal</i>
Application event totals		0.96	0.00	0.00	27.70	
04/25/2023	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
Tule River Canal	Surface water	1.13	0.00	0.00	32.86	10,320,000.00 <i>gal</i>
Application event totals		1.13	0.00	0.00	32.86	

Field 22 - 06/14/2023: Corn, silageField name: Field 22Crop: Corn, silagePlant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 22 - 06/14/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	109.20	13.59	160.59	734.84	2,340,000.00 <i>gal</i>
Tule River Canal	Surface water	0.64	0.00	0.00	18.53	5,820,000.00 <i>gal</i>
Application event totals		109.84	13.59	160.59	753.38	
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
IW #25	Ground water	4.58	0.00	0.00	264.51	8,760,000.00 <i>gal</i>
Tule River Canal	Surface water	0.48	0.00	0.00	13.95	4,380,000.00 <i>gal</i>
Application event totals		5.06	0.00	0.00	278.46	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	86.88	9.08	121.75	690.65	2,016,000.00 <i>gal</i>
IW #24	Ground water	18.30	0.00	0.00	355.76	3,600,000.00 <i>gal</i>
Tule River Canal	Surface water	0.49	0.00	0.00	14.33	4,500,000.00 <i>gal</i>
Application event totals		105.68	9.08	121.75	1,060.74	
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
IW #25	Ground water	2.92	0.00	0.00	168.49	5,580,000.00 <i>gal</i>
Tule River Canal	Surface water	0.31	0.00	0.00	8.88	2,790,000.00 <i>gal</i>
Application event totals		3.22	0.00	0.00	177.38	
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
IW #25	Ground water	3.76	0.00	0.00	217.41	7,200,000.00 <i>gal</i>
Tule River Canal	Surface water	0.40	0.00	0.00	11.46	3,600,000.00 <i>gal</i>
Application event totals		4.16	0.00	0.00	228.87	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
WWS	Process wastewater	94.64	9.89	132.62	752.31	2,196,000.00 <i>gal</i>
IW #25	Ground water	3.83	0.00	0.00	221.03	7,320,000.00 <i>gal</i>
Tule River Canal	Surface water	0.40	0.00	0.00	11.65	3,660,000.00 <i>gal</i>
Application event totals		98.87	9.89	132.62	985.00	
09/01/2023	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
IW #25	Ground water	4.33	0.00	0.00	250.02	8,280,000.00 <i>gal</i>
Tule River Canal	Surface water	0.45	0.00	0.00	13.18	4,140,000.00 <i>gal</i>
Application event totals		4.78	0.00	0.00	263.20	
09/14/2023	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
IW #25	Ground water	4.52	0.00	0.00	260.89	8,640,000.00 <i>gal</i>
Tule River Canal	Surface water	0.47	0.00	0.00	13.76	4,320,000.00 <i>gal</i>
Application event totals		4.99	0.00	0.00	274.65	

Field 23 - 11/30/2022: Wheat, silage, soft doughField name: Field 23Crop: Wheat, silage, soft doughPlant date: 11/30/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/23/2022	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
IW #25		Ground water	6.08	0.00	0.00	351.48	11,640,000.00 <i>gal</i>
Application event totals			6.08	0.00	0.00	351.48	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
01/29/2023	Surface (irrigation)	No precipitation		Light rain		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	146.74	16.18	210.12	1,111.95	3,492,000.00 <i>gal</i>
Tule River Canal		Surface water	0.64	0.00	0.00	18.53	5,820,000.00 <i>gal</i>
Application event totals			147.38	16.18	210.12	1,130.48	
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
Tule River Canal		Surface water	0.73	0.00	0.00	21.21	6,660,000.00 <i>gal</i>
Application event totals			0.73	0.00	0.00	21.21	

Field 23 - 06/14/2023: Corn, silageField name: Field 23Crop: Corn, silagePlant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	85.68	10.66	126.00	576.57	1,836,000.00 <i>gal</i>
Tule River Canal	Surface water	0.67	0.00	0.00	19.49	6,120,000.00 <i>gal</i>
Application event totals		86.35	10.66	126.00	596.06	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #24	Ground water	16.59	0.00	0.00	322.56	3,264,000.00 <i>gal</i>
Tule River Canal	Surface water	0.45	0.00	0.00	12.99	4,080,000.00 <i>gal</i>
Application event totals		17.04	0.00	0.00	335.55	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
WWS		Process wastewater	72.92	7.62	102.18	579.65	1,692,000.00 <i>gal</i>	
IW #25		Ground water	4.20	0.00	0.00	242.77	8,040,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.44	0.00	0.00	12.80	4,020,000.00 <i>gal</i>	
Application event totals			77.56	7.62	102.18	835.23		
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	
IW #25		Ground water	3.95	0.00	0.00	228.28	7,560,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.42	0.00	0.00	12.04	3,780,000.00 <i>gal</i>	
Application event totals			4.37	0.00	0.00	240.32		
08/15/2023	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	
IW #25		Ground water	4.95	0.00	0.00	286.26	9,480,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.52	0.00	0.00	15.09	4,740,000.00 <i>gal</i>	
Application event totals			5.48	0.00	0.00	301.35		
08/25/2023	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	
WWS		Process wastewater	80.68	8.43	113.05	641.32	1,872,000.00 <i>gal</i>	
IW #25		Ground water	3.70	0.00	0.00	213.79	7,080,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.39	0.00	0.00	11.27	3,540,000.00 <i>gal</i>	
Application event totals			84.77	8.43	113.05	866.38		
09/04/2023	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	
IW #25		Ground water	4.45	0.00	0.00	257.27	8,520,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.47	0.00	0.00	13.57	4,260,000.00 <i>gal</i>	
Application event totals			4.92	0.00	0.00	270.83		

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Field 23 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

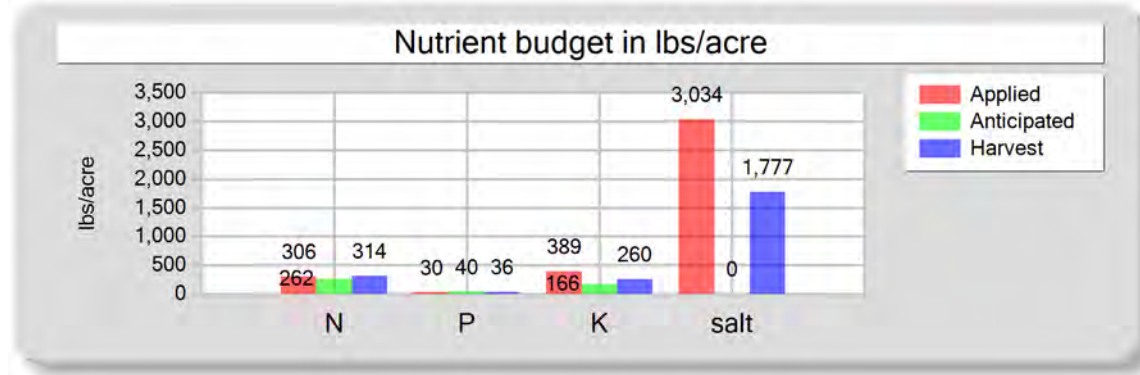
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #25	Ground water	3.39	0.00	0.00	195.67	6,480,000.00 gal
Tule River Canal	Surface water	0.36	0.00	0.00	10.32	3,240,000.00 gal
Application event totals		3.74	0.00	0.00	205.99	

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B. NUTRIENT BUDGET

Field 1 North - 10/28/2022: Wheat, silage, soft dough

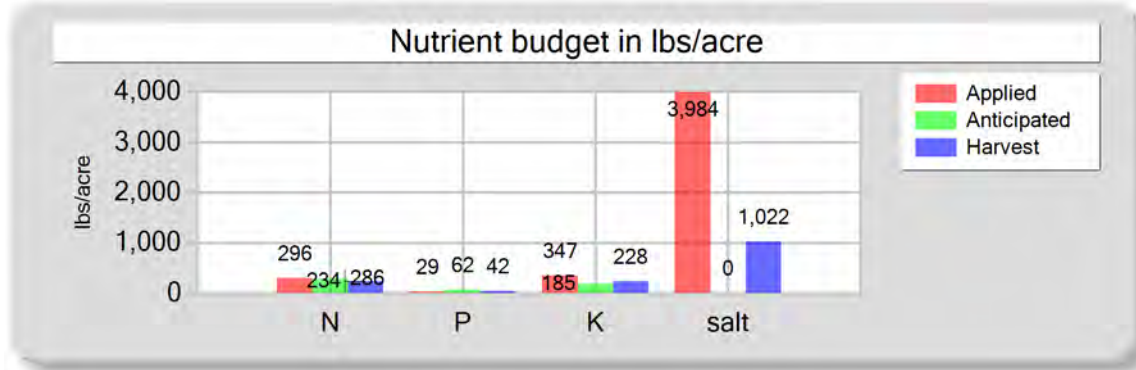
Field name: Field 1 NorthCrop: Wheat, silage, soft doughPlant date: 10/28/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	41,966,400.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,545.48 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	21.46 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	271.46	29.93	388.71	2,057.04	Process wastewater applied
Fresh water	27.64	0.00	0.00	976.80	6,120,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	225.38 <i>acre-inches</i>
Total nutrients applied	306.10	29.93	388.71	3,033.84	3.13 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	314.30	35.92	260.42	1,777.39	Total harvests for the crop
Nutrient balance	-8.20	-5.99	128.29	1,256.45	1 <i>harvests</i>
Applied to removed ratio	0.97	0.83	1.49	1.71	

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Field 1 North - 06/05/2023: Corn, silage

Field name: Field 1 NorthCrop: Corn, silagePlant date: 06/05/2023

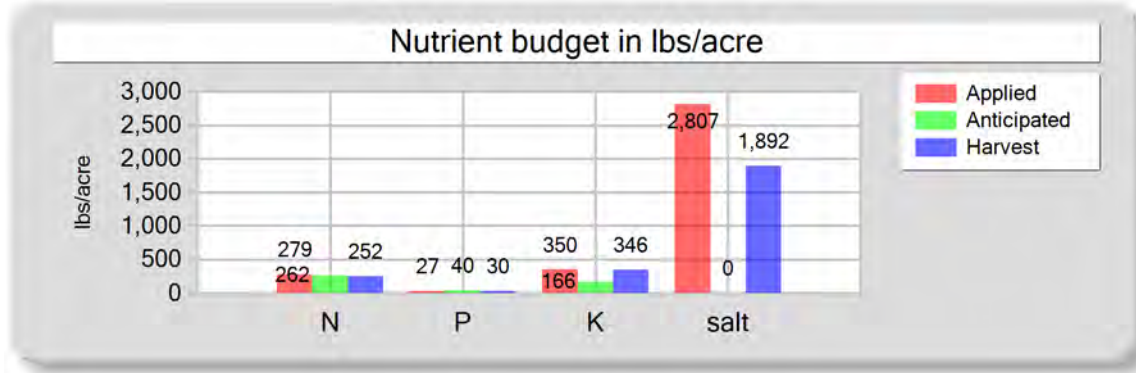
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.85	29.36	346.84	1,587.14
Fresh water	53.03	0.00	0.00	2,397.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	295.88	29.36	346.84	3,984.42
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	234.24	42.04	228.23	1,022.48
Nutrient balance	61.65	-12.69	118.61	2,961.95
Applied to removed ratio	1.26	0.70	1.52	3.90

Fresh water applied
74,224,560.00 <i>gallons</i>
2,733.44 <i>acre-inches</i>
37.96 <i>inches/acre</i>
Process wastewater applied
4,788,000.00 <i>gallons</i>
176.33 <i>acre-inches</i>
2.45 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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Field 1 South - 10/29/2022: Wheat, silage, soft dough

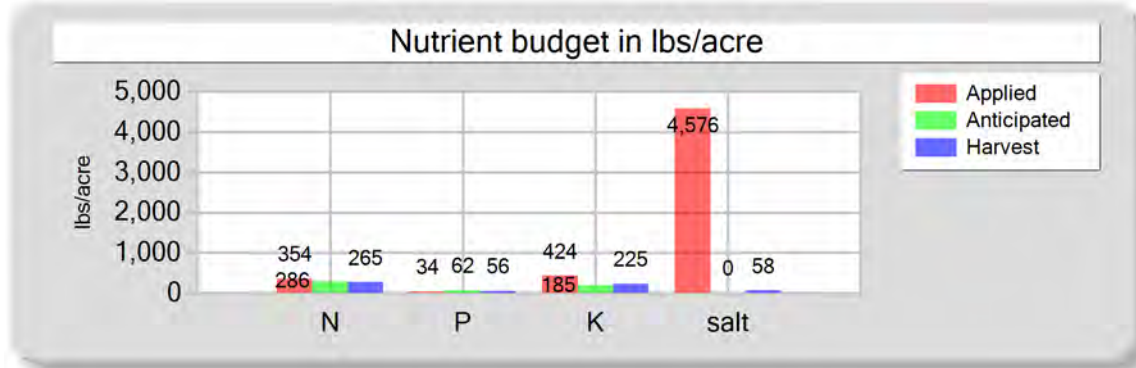
Field name: Field 1 SouthCrop: Wheat, silage, soft doughPlant date: 10/29/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	38,205,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,406.98 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	20.10 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	244.72	26.99	350.43	1,854.45	Process wastewater applied
Fresh water	27.24	0.00	0.00	952.42	5,364,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	197.54 <i>acre-inches</i>
Total nutrients applied	278.96	26.99	350.43	2,806.87	2.82 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	252.17	30.11	346.26	1,892.38	Total harvests for the crop
Nutrient balance	26.79	-3.12	4.17	914.49	1 <i>harvests</i>
Applied to removed ratio	1.11	0.90	1.01	1.48	

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Field 1 South - 06/17/2023: Corn, silage

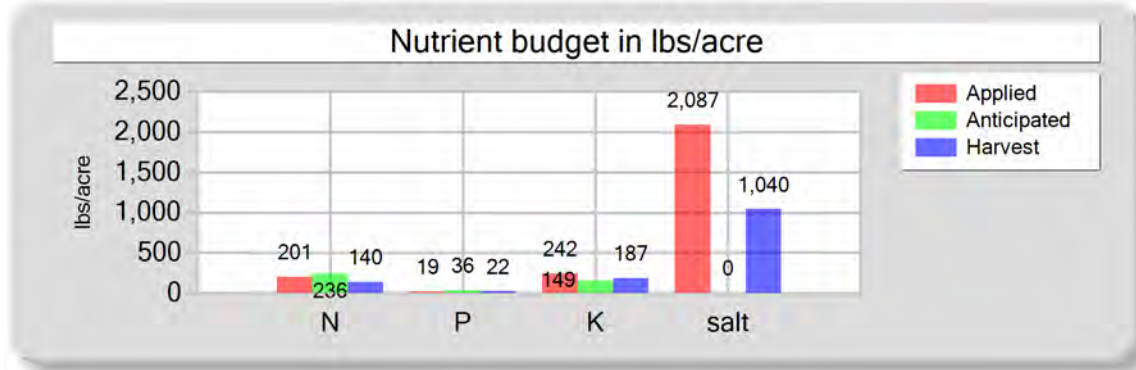
Field name: Field 1 SouthCrop: Corn, silagePlant date: 06/17/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	73,434,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,704.32 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.63 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	294.28	34.14	424.13	2,132.38	Process wastewater applied
Fresh water	53.15	0.00	0.00	2,443.80	6,012,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	221.40 <i>acre-inches</i>
Total nutrients applied	354.43	34.14	424.13	4,576.18	3.16 <i>inches/acre</i>
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00	
Actual crop nutrient removal	264.51	56.28	225.12	58.25	Total harvests for the crop
Nutrient balance	89.92	-22.14	199.01	4,517.93	1 <i>harvests</i>
Applied to removed ratio	1.34	0.61	1.88	78.56	

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Field 13 - 10/25/2022: Wheat Hay

Field name: Field 13Crop: Wheat HayPlant date: 10/25/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	169.23	18.66	242.32	1,282.35
Fresh water	24.53	0.00	0.00	804.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.76	18.66	242.32	2,086.83
Anticipated crop nutrient removal	235.80	36.00	149.40	0.00
Actual crop nutrient removal	139.77	21.64	186.66	1,040.39
Nutrient balance	60.99	-2.98	55.66	1,046.44
Applied to removed ratio	1.44	0.86	1.30	2.01

Fresh water applied
49,950,000.00 <i>gallons</i>
1,839.49 <i>acre-inches</i>
20.67 <i>inches/acre</i>

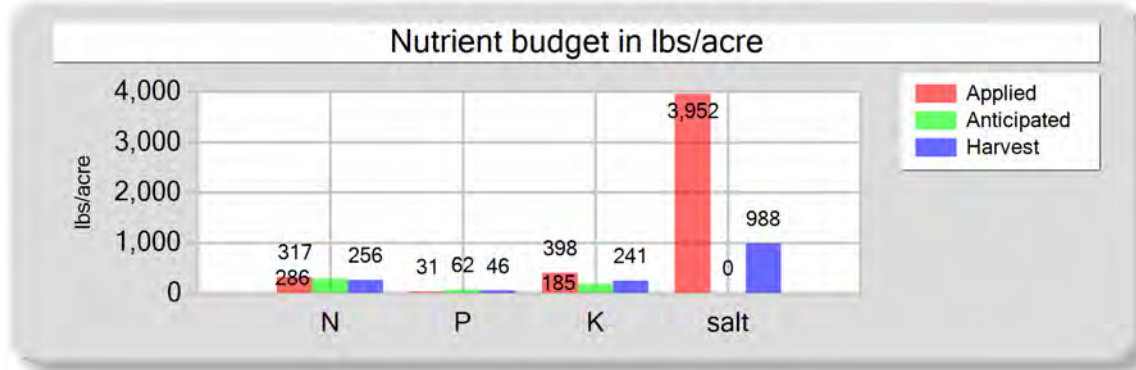
Process wastewater applied
4,716,000.00 <i>gallons</i>
173.67 <i>acre-inches</i>
1.95 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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Field 13 - 06/27/2023: Corn, silage

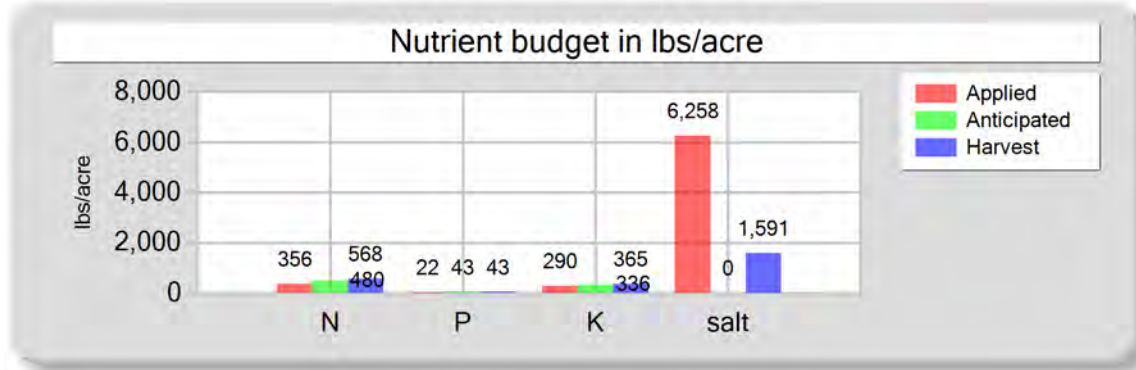
Field name: Field 13Crop: Corn, silagePlant date: 06/27/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	89,916,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,311.30 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.21 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	278.95	31.06	397.55	2,100.17	Process wastewater applied
Fresh water	31.35	0.00	0.00	1,851.46	7,380,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	271.78 <i>acre-inches</i>
Total nutrients applied	317.30	31.06	397.55	3,951.64	3.05 <i>inches/acre</i>
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00	
Actual crop nutrient removal	256.16	46.11	240.79	988.37	Total harvests for the crop
Nutrient balance	61.14	-15.05	156.76	2,963.26	1 <i>harvests</i>
Applied to removed ratio	1.24	0.67	1.65	4.00	

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

Field 17 - 10/29/2018: Alfalfa, hay

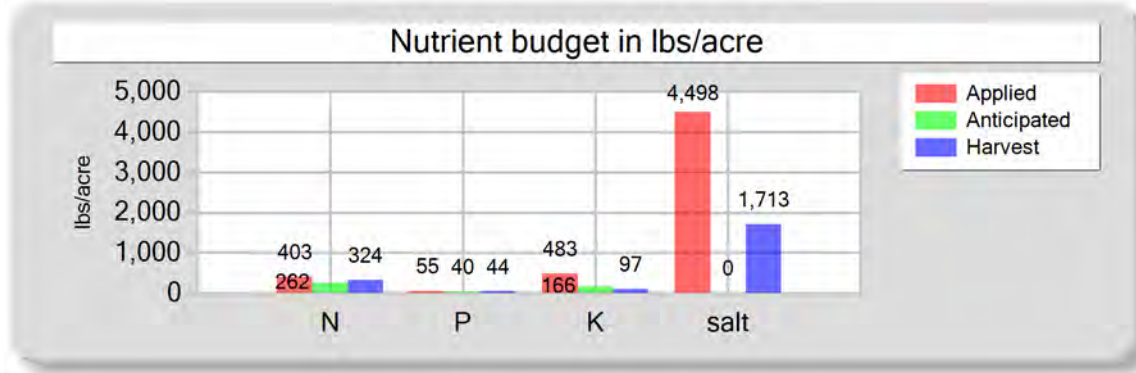
Field name: Field 17Crop: Alfalfa, hayPlant date: 10/29/2018

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	33,090,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,218.59 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	42.02 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	202.19	22.30	289.52	1,532.14	Process wastewater applied
Fresh water	139.37	0.00	0.00	4,726.33	1,836,000.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	67.61 <i>acre-inches</i>
Total nutrients applied	355.56	22.30	289.52	6,258.47	2.33 <i>inches/acre</i>
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00	
Actual crop nutrient removal	567.67	43.08	364.60	1,591.15	Total harvests for the crop
Nutrient balance	-212.11	-20.78	-75.08	4,667.32	1 <i>harvests</i>
Applied to removed ratio	0.63	0.52	0.79	3.93	

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Field 18 - 10/31/2022: Wheat, silage, soft dough

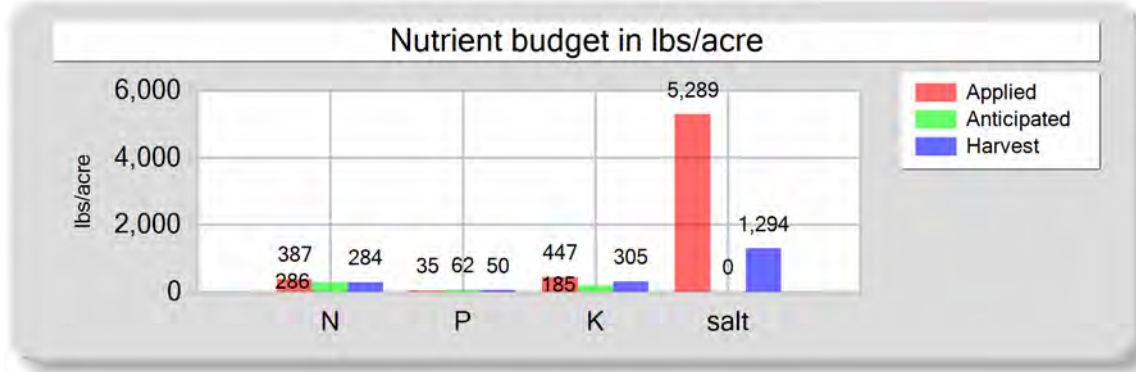
Field name: Field 18Crop: Wheat, silage, soft doughPlant date: 10/31/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	16,740,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	616.48 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	18.68 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	334.72	55.12	483.04	2,740.19	Process wastewater applied
Fresh water	60.82	0.00	0.00	1,757.71	3,780,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	139.20 <i>acre-inches</i>
Total nutrients applied	402.54	55.12	483.04	4,497.91	4.22 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	324.23	43.55	96.79	1,713.10	Total harvests for the crop
Nutrient balance	78.31	11.57	386.25	2,784.81	1 <i>harvests</i>
Applied to removed ratio	1.24	1.27	4.99	2.63	

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Field 18 - 06/10/2023: Corn, silage

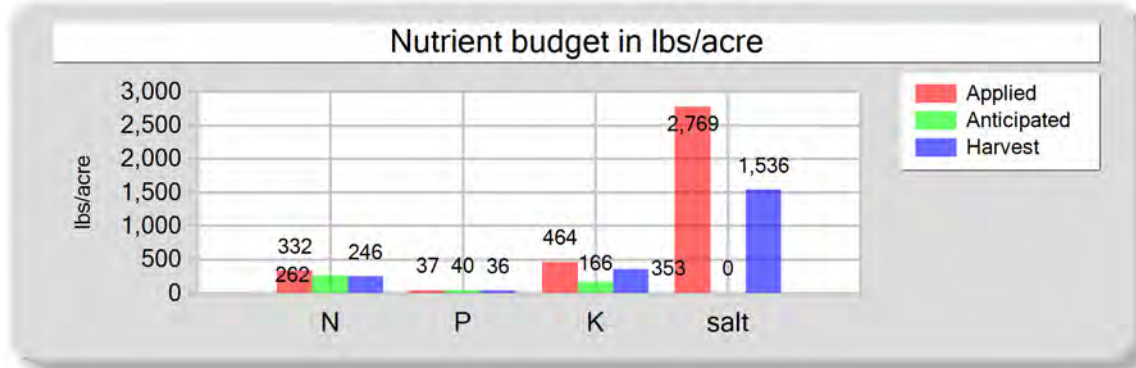
Field name: Field 18Crop: Corn, silagePlant date: 06/10/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	36,690,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,351.17 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.94 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	313.79	34.95	447.22	2,362.21	Process wastewater applied
Fresh water	66.25	0.00	0.00	2,926.70	3,078,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	113.35 <i>acre-inches</i>
Total nutrients applied	387.04	34.95	447.22	5,288.91	3.43 <i>inches/acre</i>
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00	
Actual crop nutrient removal	283.55	49.62	304.82	1,294.41	Total harvests for the crop
Nutrient balance	103.49	-14.68	142.40	3,994.50	1 <i>harvests</i>
Applied to removed ratio	1.36	0.70	1.47	4.09	

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

Field 19 - 11/07/2022: Wheat, silage, soft dough

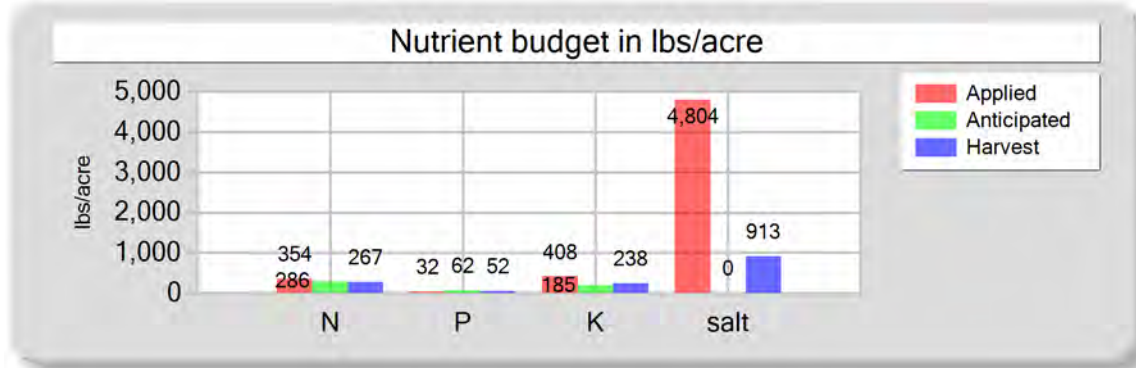
Field name: Field 19Crop: Wheat, silage, soft doughPlant date: 11/07/2022

	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	28,890,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,063.92 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.20 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	321.50	36.80	464.04	2,355.81	Process wastewater applied
Fresh water	3.73	0.00	0.00	413.20	6,840,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	251.89 <i>acre-inches</i>
Total nutrients applied	332.23	36.80	464.04	2,769.00	3.60 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	245.96	35.78	353.29	1,535.61	Total harvests for the crop
Nutrient balance	86.27	1.02	110.74	1,233.39	1 <i>harvests</i>
Applied to removed ratio	1.35	1.03	1.31	1.80	

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

Field 19 - 06/18/2023: Corn, silage

Field name: Field 19Crop: Corn, silagePlant date: 06/18/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	286.46	31.93	408.36	2,154.70
Fresh water	60.62	0.00	0.00	2,649.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.08	31.93	408.36	4,804.03
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	267.22	52.28	238.18	912.51
Nutrient balance	86.85	-20.35	170.18	3,891.51
Applied to removed ratio	1.33	0.61	1.71	5.26

Fresh water applied
75,405,000.00 <i>gallons</i>
2,776.91 <i>acre-inches</i>
39.67 <i>inches/acre</i>

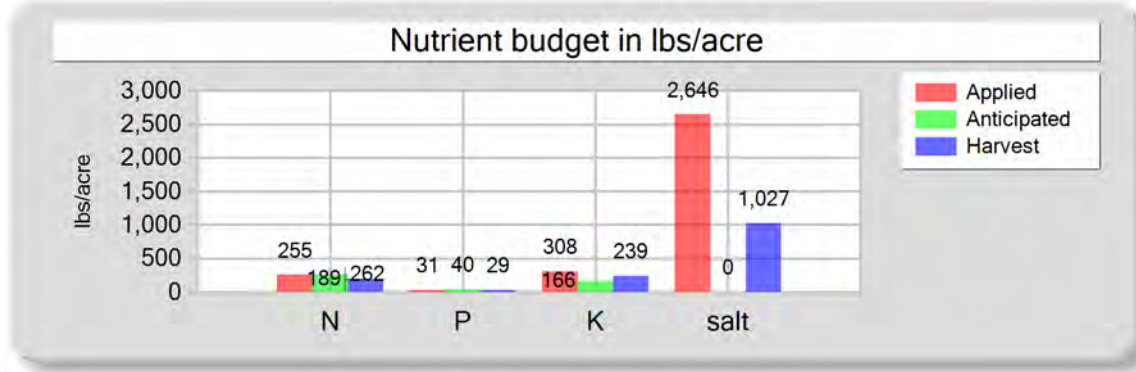
Process wastewater applied
5,958,000.00 <i>gallons</i>
219.41 <i>acre-inches</i>
3.13 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

Field 20 - 11/26/2022: Wheat, silage, soft dough

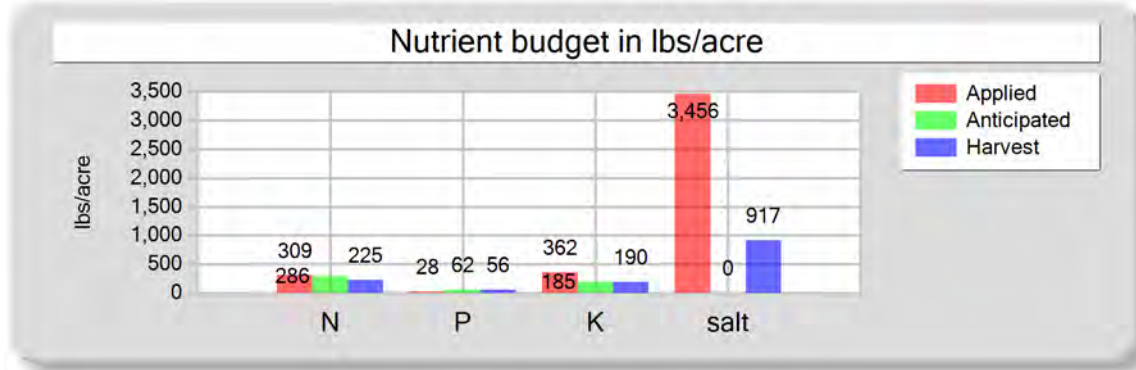
Field name: Field 20Crop: Wheat, silage, soft doughPlant date: 11/26/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	33,912,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,248.86 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.35 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	213.72	31.20	307.60	1,704.88	Process wastewater applied
Fresh water	34.46	0.00	0.00	940.75	5,112,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	188.26 <i>acre-inches</i>
Total nutrients applied	255.18	31.20	307.60	2,645.63	2.61 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	189.28	28.57	239.28	1,027.25	Total harvests for the crop
Nutrient balance	65.90	2.63	68.32	1,618.38	1 <i>harvests</i>
Applied to removed ratio	1.35	1.09	1.29	2.58	

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Field 20 - 06/21/2023: Corn, silage

Field name: Field 20Crop: Corn, silagePlant date: 06/21/2023

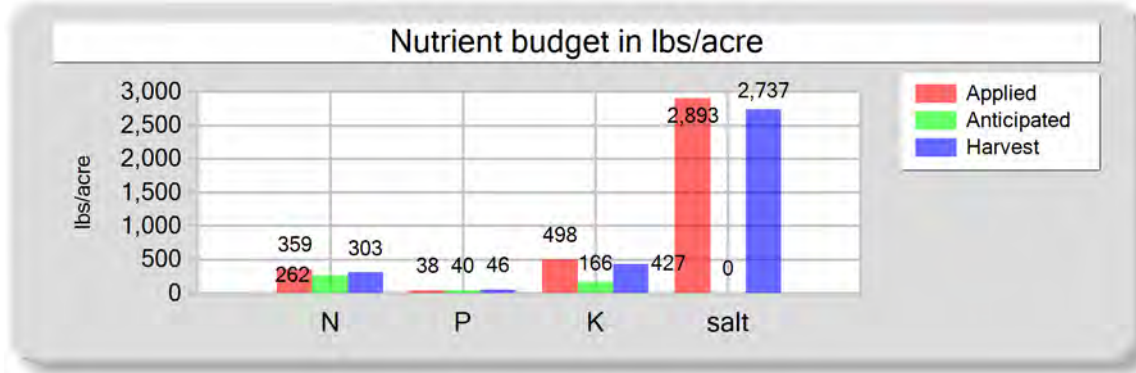
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	254.21	28.36	362.49	1,910.42
Fresh water	48.27	0.00	0.00	1,545.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.47	28.36	362.49	3,456.19
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	225.37	56.34	189.52	917.06
Nutrient balance	84.10	-27.98	172.97	2,539.13
Applied to removed ratio	1.37	0.50	1.91	3.77

Fresh water applied
74,970,000.00 <i>gallons</i>
2,760.89 <i>acre-inches</i>
38.35 <i>inches/acre</i>
Process wastewater applied
5,436,000.00 <i>gallons</i>
200.19 <i>acre-inches</i>
2.78 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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Field 21 - 11/03/2022: Wheat, silage, soft dough

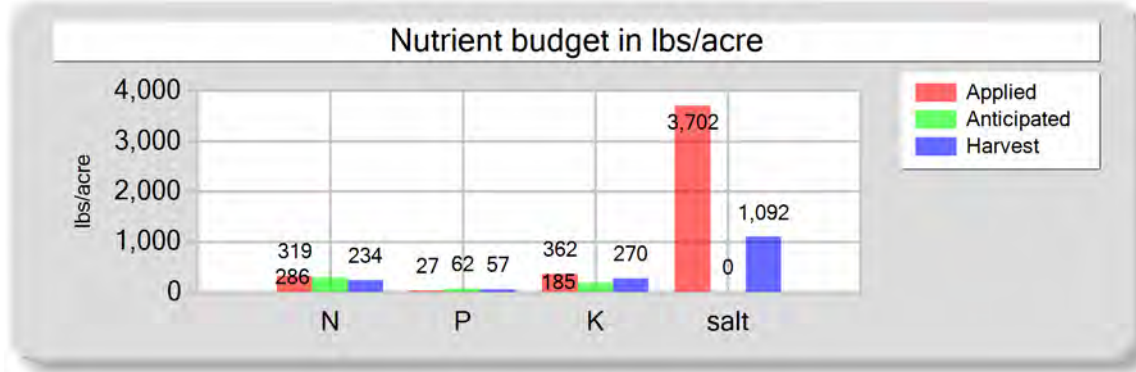
Field name: Field 21Crop: Wheat, silage, soft doughPlant date: 11/03/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	32,556,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,198.93 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.20 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	348.02	38.38	498.34	2,637.20	Process wastewater applied
Fresh water	3.67	0.00	0.00	255.93	8,064,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	296.97 <i>acre-inches</i>
Total nutrients applied	358.69	38.38	498.34	2,893.13	4.01 <i>inches/acre</i>
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00	
Actual crop nutrient removal	303.16	45.93	427.17	2,736.85	Total harvests for the crop
Nutrient balance	55.54	-7.56	71.17	156.28	1 <i>harvests</i>
Applied to removed ratio	1.18	0.84	1.17	1.06	

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

Field 21 - 06/23/2023: Corn, silage

Field name: Field 21Crop: Corn, silagePlant date: 06/23/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.14	26.96	361.72	2,051.95
Fresh water	54.08	0.00	0.00	1,650.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.22	26.96	361.72	3,701.97
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	233.54	57.09	269.87	1,091.58
Nutrient balance	85.68	-30.12	91.85	2,610.39
Applied to removed ratio	1.37	0.47	1.34	3.39

Fresh water applied
78,282,000.00 <i>gallons</i>
2,882.86 <i>acre-inches</i>
38.96 <i>inches/acre</i>

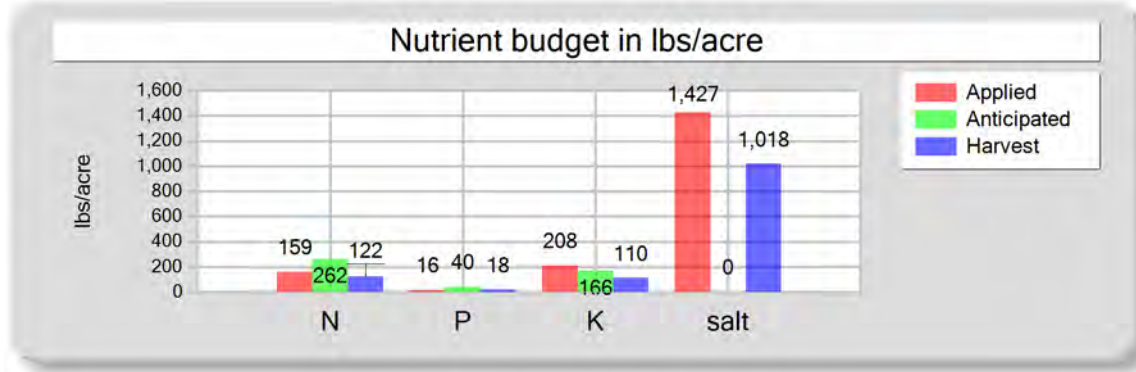
Process wastewater applied
5,832,000.00 <i>gallons</i>
214.77 <i>acre-inches</i>
2.90 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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Field 22 - 10/29/2022: Wheat, silage, soft dough

Field name: Field 22Crop: Wheat, silage, soft doughPlant date: 10/29/2022

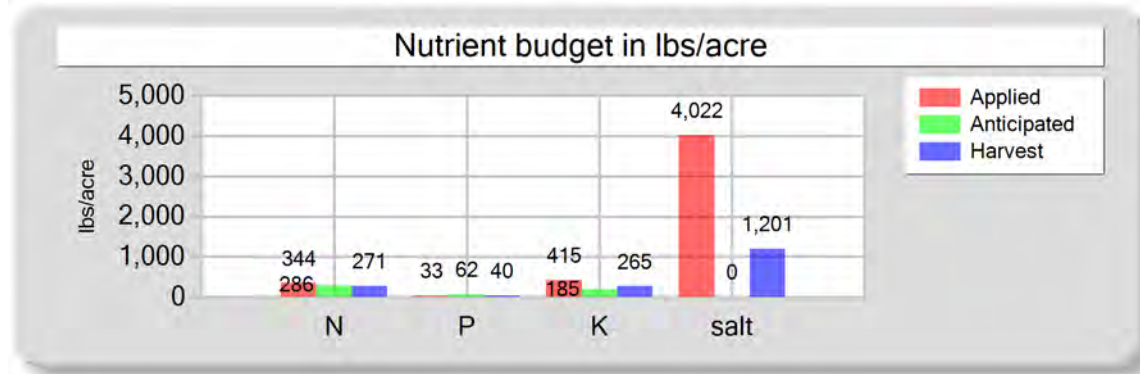
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	145.23	16.01	207.95	1,100.49
Fresh water	7.08	0.00	0.00	326.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.31	16.01	207.95	1,426.75
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00
Actual crop nutrient removal	122.24	18.34	110.01	1,017.80
Nutrient balance	37.07	-2.32	97.94	408.95
Applied to removed ratio	1.30	0.87	1.89	1.40

Fresh water applied
34,260,000.00 <i>gallons</i>
1,261.68 <i>acre-inches</i>
16.60 <i>inches/acre</i>
Process wastewater applied
3,456,000.00 <i>gallons</i>
127.27 <i>acre-inches</i>
1.67 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

Field 22 - 06/14/2023: Corn, silage

Field name: Field 22Crop: Corn, silagePlant date: 06/14/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	290.73	32.55	414.96	2,177.81
Fresh water	45.88	0.00	0.00	1,843.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	343.60	32.55	414.96	4,021.68
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	271.18	40.39	265.41	1,201.26
Nutrient balance	72.42	-7.83	149.55	2,820.42
Applied to removed ratio	1.27	0.81	1.56	3.35

Fresh water applied
82,590,000.00 <i>gallons</i>
3,041.51 <i>acre-inches</i>
40.02 <i>inches/acre</i>

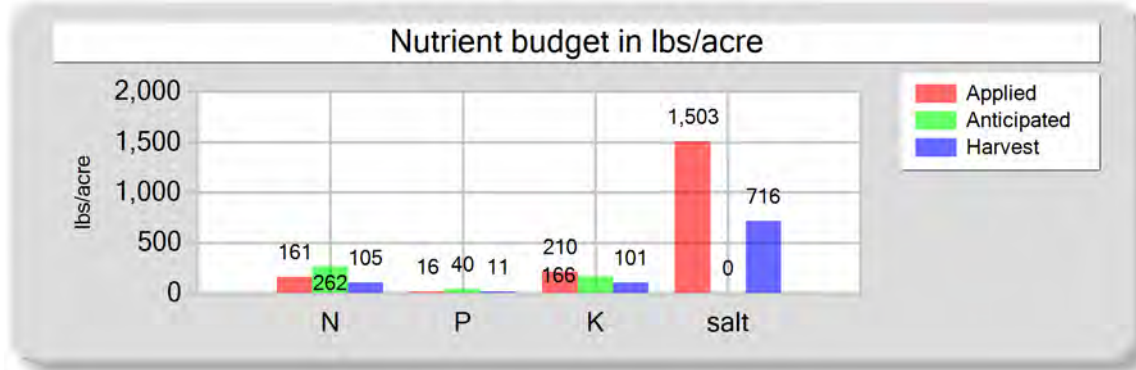
Process wastewater applied
6,552,000.00 <i>gallons</i>
241.29 <i>acre-inches</i>
3.17 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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

Field 23 - 11/30/2022: Wheat, silage, soft dough

Field name: Field 23Crop: Wheat, silage, soft doughPlant date: 11/30/2022

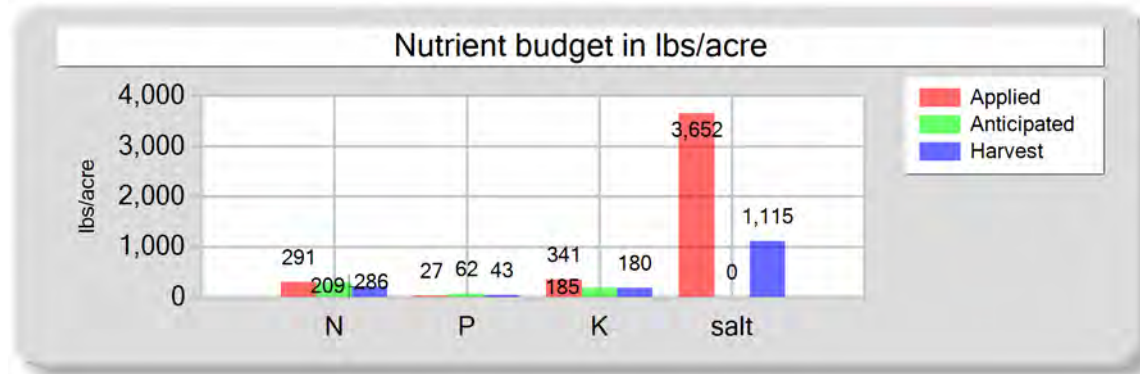
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	146.74	16.18	210.12	1,111.95
Fresh water	7.45	0.00	0.00	391.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	161.19	16.18	210.12	1,503.17
Anticipated crop nutrient removal	262.00	40.00	166.00	0.00
Actual crop nutrient removal	104.89	11.44	101.08	716.10
Nutrient balance	56.30	4.74	109.04	787.07
Applied to removed ratio	1.54	1.41	2.08	2.10

Fresh water applied
24,120,000.00 <i>gallons</i>
888.26 <i>acre-inches</i>
11.69 <i>inches/acre</i>
Process wastewater applied
3,492,000.00 <i>gallons</i>
128.60 <i>acre-inches</i>
1.69 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

Field 23 - 06/14/2023: Corn, silage

Field name: Field 23Crop: Corn, silagePlant date: 06/14/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.28	26.71	341.23	1,797.54
Fresh water	44.95	0.00	0.00	1,854.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.23	26.71	341.23	3,651.69
Anticipated crop nutrient removal	285.60	61.60	184.80	0.00
Actual crop nutrient removal	208.54	42.66	180.10	1,115.22
Nutrient balance	82.69	-15.95	161.13	2,536.47
Applied to removed ratio	1.40	0.63	1.89	3.27

Fresh water applied
84,204,000.00 <i>gallons</i>
3,100.95 <i>acre-inches</i>
40.80 <i>inches/acre</i>
Process wastewater applied
5,400,000.00 <i>gallons</i>
198.86 <i>acre-inches</i>
2.62 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****Corral Solids DM1**Sample and source description: Corral Solids DM1Sample date: 04/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 26.5 %

	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	11,800.00	3,100.00	12,100.00							0.00
DL	100.00	100.00	100.00							0.01

Drying Solids DM2Sample and source description: Drying Solids DM2Sample date: 04/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 36.4 %

	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	5,800.00	1,100.00	15,300.00	11,200.00	3,300.00	2,100.00	2,000.00	4,000.00		78.30
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

Separator Solids DM2Sample and source description: Separator Solids DM2Sample date: 04/18/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 74.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,700.00	3,000.00	7,900.00	12,800.00	4,900.00	2,100.00	2,700.00	2,000.00		32.40
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

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	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	22,100.00	6,200.00	24,000.00							0.00
DL	100.00	100.00	100.00							0.01

Separator SolidsSample and source description: Separator SolidsSample date: 10/03/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 76.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,400.00	8,000.00							0.00
DL	100.00	100.00	100.00							0.01

B. PROCESS WASTEWATER ANALYSES**WWQ4 2022 NE Corner WWS #4**Sample and source description: WWQ4 2022 NE Corner WWS #4Sample date: 10/18/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.50

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	332.00	325.00	0.00	1.90	65.40	484.00								5,980.00	2,850
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

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	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	382.00	216.00	0.00	0.70	42.20	548.00								6,190.00	2,900
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWQ2Sample and source description: WWQ2Sample date: 06/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	424.00	342.00	0.00	1.00	52.90	625.00								6,580.00	2,860
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWQ3 NE Corner WWS #4Sample and source description: WWQ3 NE Corner WWS #4Sample date: 09/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	392.00	337.00	0.00	0.50	41.00	550.00	91.70	81.40	212.00	2,460.00	0.00	52.60	263.00	5,660.00	3,120
DL	1.00	0.50	0.50	0.10	0.10	0.50	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

WWQ4 NE Corner WWS #4Sample and source description: WWQ4 NE Corner WWS #4Sample date: 10/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	310.00	298.00	0.00	0.60	46.70	553.00								5,740.00	3,150
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

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	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	790.00	392.00	0.00	0.10	122.00	643.00								7,180.00	3,400
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

C. FRESH WATER ANALYSES**Elk Creek Bayou****Surface Water**Sample description: Surface WaterSample date: 09/06/2023 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	1.00	0.00	0.10								44.00	43
DL	1.00	0.50	0.10								10.00	10

IW #1**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	1.56	0.00	1.50	6.40	0.50	74.00	90.60	0.00	31.70	18.70	350.00	218
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #12

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***IW #12****Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	1.00	0.00	0.10	2.10	0.00	71.00	82.60	0.00	13.00	26.60	312.00	200
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #14**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	5.84	0.00	5.80	24.30	2.70	88.00	150.00	0.00	35.30	30.70	504.00	340
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #2**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	39.60	0.00	39.60	105.00	9.40	160.00	324.00	0.00	103.00	40.60	1,230.00	860
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #21

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***IW #21****Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	30.10	0.00	30.10	96.30	13.10	185.00	413.00	0.00	95.30	61.40	1,300.00	920
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #22**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	44.10	0.00	44.10	3.60	0.20	70.00	413.00	0.00	93.40	70.60	1,440.00	990
DL	1.00	0.50	0.10	0.20	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #23**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	1.00	0.00	0.20	3.60	0.20	70.00	82.50	0.00	30.30	16.70	297.00	185
DL	1.00	0.50	0.10	0.10	0.10	1.00	10.00	1.00	0.50	0.20	10.00	10

IW #24

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***IW #24****Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	46.30	0.00	45.50	141.00	14.90	158.00	408.00	0.00	63.90	67.10	1,370.00	900
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

IW #25**Ag Supply Well**Sample description: Ag Supply WellSample date: 09/06/2023 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	4.76	0.00	4.76	9.10	0.50	87.00	131.00	0.00	18.60	21.70	410.00	275
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

IW #27**Ag Supply Well**Sample description: Ag Supply WellSample date: 08/18/2023 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	1.17	0.00	0.50	3.50	0.40	77.00	94.90	0.00	17.90	25.60	331.00	215
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

IW #3

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***IW #3****Ag Supply Well**Sample description: Ag Supply WellSample date: 08/08/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	71.50	0.00	71.50	178.00	16.50	128.00	311.00	0.00	95.70	59.60	1,430.00	1,050
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

Tule River Canal**Tule River Canal**Sample description: Tule River CanalSample date: 09/06/2023 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	1.00	0.00	0.10								25.00	29
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

Field 1 North - 10/28/2022: Wheat, silage, soft dough

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Field 1 North - 10/28/2022: Wheat, silage, soft dough

Wheat SilageSample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,000.00	800.00	5,800.00		10.50
DL	100.00	100.00	100.00		0.01

Field 1 North - 06/05/2023: Corn, silage

Corn SilageSample and source description: Corn SilageSample date: 09/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	700.00	3,800.00		5.60
DL	100.00	100.00	100.00		0.01

Corn SilageSample and source description: Corn SilageSample date: 09/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	700.00	3,800.00		5.60
DL	100.00	100.00	100.00		0.01

Field 1 South - 10/29/2022: Wheat, silage, soft dough

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	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	800.00	9,200.00		12.00
DL	100.00	100.00	100.00		0.01

Field 1 South - 06/17/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,000.00	4,000.00		0.30
DL	100.00	100.00	100.00		0.01

Field 13 - 10/25/2022: Wheat Hay**Wheat Hay**Sample and source description: Wheat HaySample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 6.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	2,400.00	20,700.00		12.30
DL	100.00	100.00	100.00		0.01

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	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	900.00	4,700.00		5.30
DL	100.00	100.00	100.00		0.01

Field 17 - 10/29/2018: Alfalfa, hay**Alfalfa**Sample and source description: AlfalfaSample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 11.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,900.00	2,800.00	23,700.00		11.70
DL	100.00	100.00	100.00		0.01

Field 18 - 10/31/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	900.00	2,000.00		10.00
DL	100.00	200.00	100.00		0.01

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	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	700.00	4,300.00		5.60
DL	100.00	100.00	100.00		0.01

Corn SilageSample and source description: Corn SilageSample date: 09/29/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	700.00	4,300.00		5.50
DL	100.00	100.00	100.00		0.01

Field 19 - 11/07/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 70.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	800.00	7,900.00		11.80
DL	100.00	100.00	100.00		0.01

Field 19 - 06/18/2023: Corn, silage

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	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	900.00	4,100.00		4.40
DL	100.00	100.00	100.00		0.01

Field 20 - 11/26/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2022 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	800.00	6,700.00		10.20
DL	100.00	100.00	100.00		0.01

Field 20 - 06/21/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/10/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	1,100.00	3,700.00		4.80
DL	100.00	100.00	100.00		0.01

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 21 - 11/03/2022: Wheat, silage, soft dough****Wheat Silage**Sample and source description: Wheat SilageSample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 55.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,000.00	9,300.00		13.30
DL	100.00	100.00	100.00		0.01

Field 21 - 06/23/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	1,100.00	5,200.00		5.70
DL	100.00	100.00	100.00		0.01

Field 22 - 10/29/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 57.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	900.00	5,400.00		11.70
DL	100.00	100.00	100.00		0.01

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field 22 - 06/14/2023: Corn, silage****Corn Silage**Sample and source description: Corn SilageSample date: 10/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	700.00	4,600.00		6.00
DL	100.00	100.00	100.00		0.01

Field 23 - 11/30/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 55.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	600.00	5,300.00		8.40
DL	100.00	100.00	100.00		0.01

Field 23 - 06/14/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/08/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 63.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	900.00	3,800.00		6.50
DL	100.00	100.00	100.00		0.01

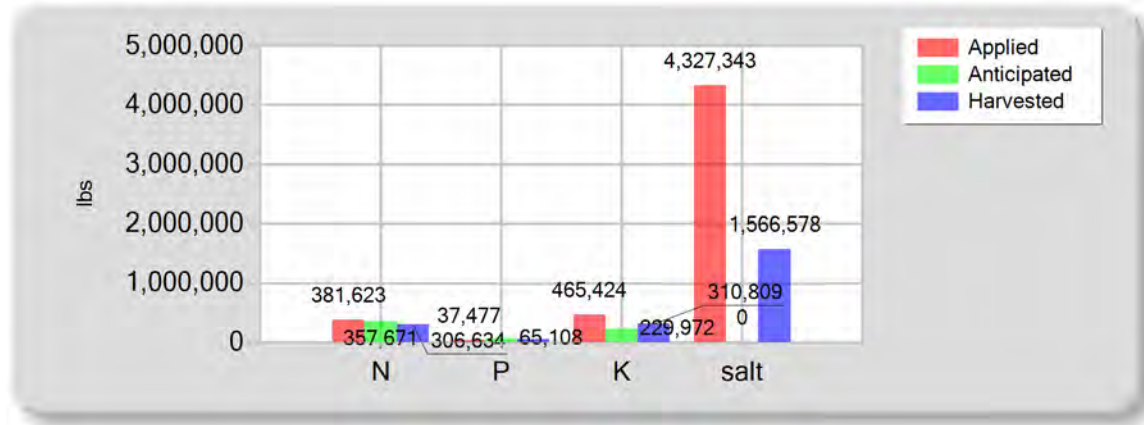
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

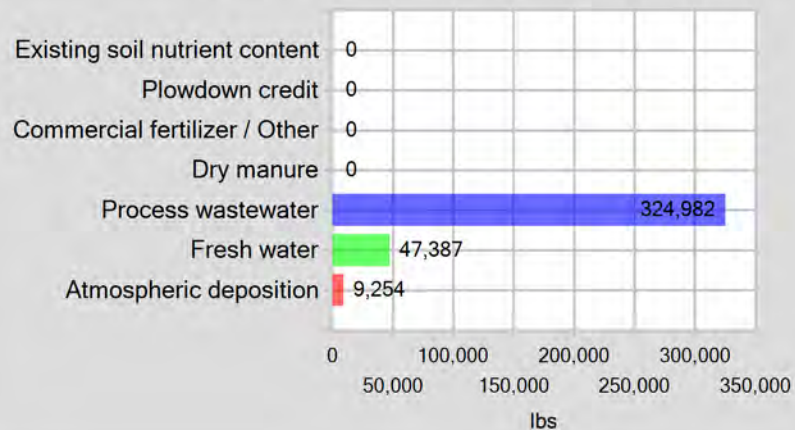
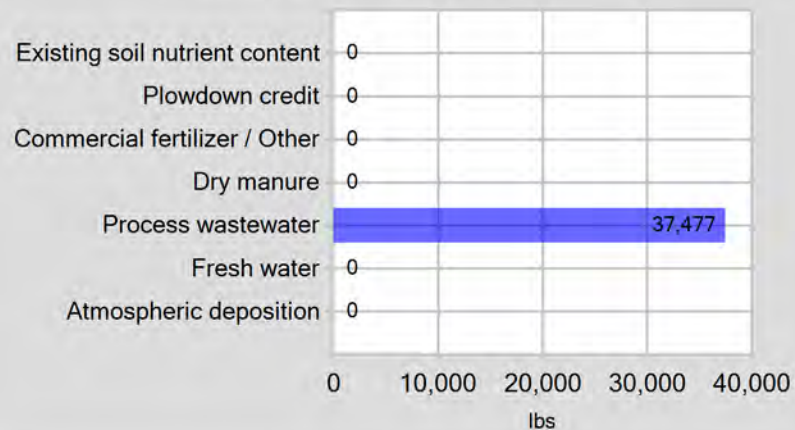
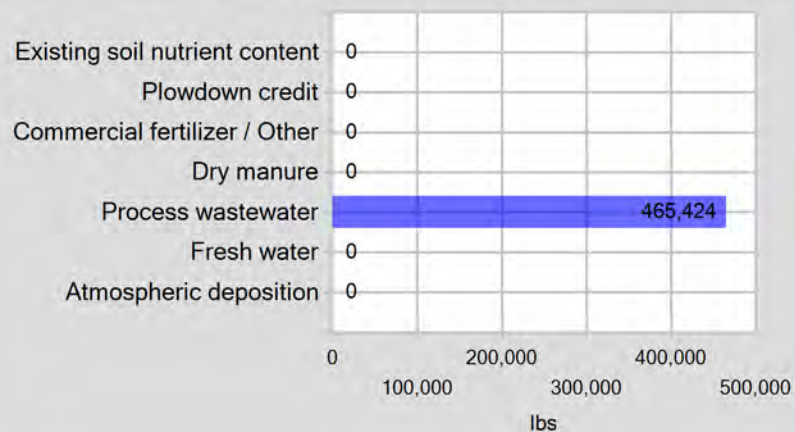
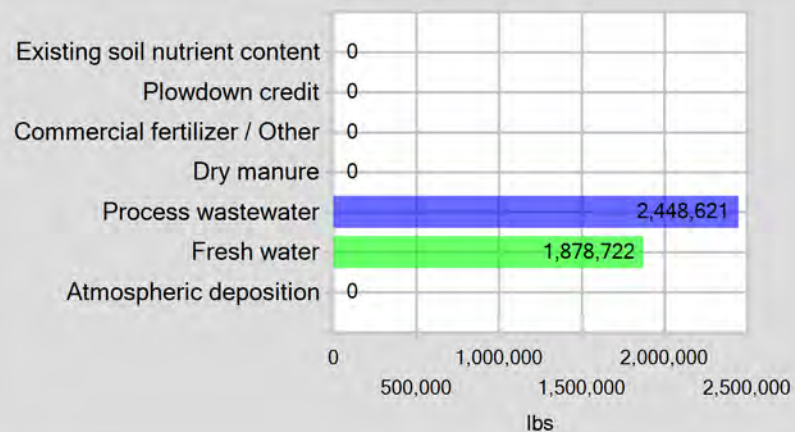
F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE****A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	324,982.01	37,477.06	465,423.58	2,448,621.28
Fresh water	47,386.54	0.00	0.00	1,878,722.21
Atmospheric deposition	9,254.00	0.00	0.00	0.00
Total nutrients applied	381,622.55	37,477.06	465,423.58	4,327,343.49
Anticipated crop nutrient removal	357,671.40	65,108.00	229,972.20	0.00
Actual crop nutrient removal	306,634.42	50,490.43	310,809.01	1,566,578.00
Nutrient balance	74,988.13	-13,013.36	154,614.57	2,760,765.48
Applied to removed ratio	1.24	0.74	1.50	2.76

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation well IW #26 was non-operational in 2023 and will be sampled once the well becomes operational. Heavy rains during the winter season allowed for a greater amount of surface water allocation to grow crops.

Field #22 Wheat had a lower than anticipated removal rate. This was due to extremely low tonnage and a lower than expected %N. The %N was based on analysis that was derived through a certified laboratory. However, the applications to this field matched the low removal rate and was able to meet the field ratio threshold of 1.4.

Fields #13 Wheat Hay & 23 Wheat had lower than anticipated removal rates, which was due to extremely low tonnage and lower than expected %N. This resulted in field ratios slightly exceeding target limits.

A portion of Fields #22 & 23 Wheat suffered from weather related damage which caused a decrease in tonnage .

Field #12 was fallow during 2023, because it was used as flood protection for the facility during the unusually high amounts of rain during the winter.

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.

DocuSigned by:

7D9C736C4E07400...

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Brent Aukeman

SAME AS OWNER

PRINT OR TYPE NAME
6/18/2024

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.

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

Name of Operator: <u>Brent Aukeman</u>			
Name of Dairy Facility: <u>Elk Creek Dairy</u>			
Facility Address:			
18035 Road 96	Tulare	Tulare	93274
Number and Street	City	County	Zip Code
Contact Person Name and Phone Number:	<u>Brent Aukeman</u>		<u>(559) 471-8304</u>
	Name		Phone Number

Name of Hauling Company/Person: Gutierrez Spreading LLC			
Address of Hauling Company/Person:			
3612 Avenue 236	Tulare	CA	93274
Number and Street	City	State	Zip Code
Contact Person:	Jesus Gutierrez		(559) 280-3719
	Name		Phone Number

Composting Facility / Broker / Farmer / Other (identify):				Farmer
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
Aukeman Farms			(559) 737-1411	
Name			Phone Number	
17297 Road 96		Tulare	CA	93274
Address		City	State	Zip Code
Destination Address or Assessor's Parcel Number:				
Address		City		Zip Code
Street and nearest cross street (if no address)			County	
X228-X001-X026-XXXX		Tulare		
Assessor's Parcel Number		Assessor's Parcel Number County		
Last date hauled: 06/06/2023				

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies
General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,918.00 tons
Manure Solids Content: 25.8 %

Method used to determine amount of manure:

Number of loads multiplied by load weight

CERTIFICATION

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

<div>DocuSigned by: Brent Lukeman</div>	6/18/2024
Operator Signature	Date
<div>DocuSigned by: Jesus Gutierrez</div>	6/18/2024
Hauler Signature	Date



Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1716-01	IW #1	Ag Water	Jake	Irrigation Wells	08/18/2023 7:31
23H1716-02	IW #2	Ag Water	Jake	Irrigation Wells	08/18/2023 7:38
23H1716-03	IW #12	Ag Water	Jake	Irrigation Wells	08/18/2023 7:46
23H1716-04	IW #14	Ag Water	Jake	Irrigation Wells	08/18/2023 7:53
23H1716-05	IW #21	Ag Water	Jake	Irrigation Wells	08/18/2023 7:54
23H1716-06	IW #22	Ag Water	Jake	Irrigation Wells	08/18/2023 8:08
23H1716-07	IW #23	Ag Water	Jake	Irrigation Wells	08/18/2023 8:16
23H1716-08	IW #24	Ag Water	Jake	Irrigation Wells	08/18/2023 8:23
23H1716-09	IW #27	Ag Water	Jake	Irrigation Wells	08/18/2023 8:32

Default Cooler Temperature on Receipt °C: 0.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Sample Results

Sample: IW #1
23H1716-01 (Water)

Sampled: 8/18/2023 7:31
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	104	mg/L	10.0	1		08/22/23 13:21	SM 2320 B		BEH0949
Calcium	6.4	mg/L	0.1	1		08/22/23 13:04	EPA 200.7		BEH0945
Chloride	18.7	mg/L	0.2	1	250	08/18/23 20:38	EPA 300.0		BEH0943
Carbonate as CaCO3	14	mg/L	1	1		08/22/23 13:21	SM 2320 B		BEH0949
Electrical Conductivity	0.35	mmhos/cm	0.01	1		08/22/23 13:21	SM 2510 B		BEH0949
Electrical Conductivity umhos	350	umhos/cm	10.0	1		08/22/23 13:21	SM 2510 B		BEH0949
Bicarbonate as CaCO3	90.6	mg/L	5.00	1		08/22/23 13:21	SM 2320 B		BEH0949
Potassium	ND	mg/L	0.500	1		08/22/23 13:04	EPA 200.7		BEH0945
Magnesium	0.5	mg/L	0.1	1		08/22/23 13:04	EPA 200.7		BEH0945
Sodium	74	mg/L	1	1		08/22/23 13:04	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:31	Field		BEH1018
Nitrate Nitrogen as NO3N	1.5	mg/L	0.1	1	10	08/18/23 20:38	EPA 300.0		BEH0943
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 13:21	SM 2320 B		BEH0949
pH	8.8	units	1.0	1		08/22/23 13:21	SM 4500-H+	H	BEH0949
Sulfate (SO4)	31.7	mg/L	0.5	1	250	08/18/23 20:38	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	218	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:41	SM 4500-NH3 C		BEH1053
Total Nitrogen	1.56	mg/L	1.00	1		08/24/23 12:41	SM 4500-NH3 C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Sample Results (Continued)

Sample: IW #2
23H1716-02 (Water)

Sampled: 8/18/2023 7:38
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	324	mg/L	10.0	1		08/22/23 13:21	SM 2320 B		BEH0949
Calcium	105	mg/L	0.1	1		08/22/23 13:05	EPA 200.7		BEH0945
Chloride	40.6	mg/L	0.2	1	250	08/18/23 20:58	EPA 300.0		BEH0943
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 13:21	SM 2320 B		BEH0949
Electrical Conductivity	1.23	mmhos/cm	0.01	1		08/22/23 13:21	SM 2510 B		BEH0949
Electrical Conductivity umhos	1230	umhos/cm	10.0	1		08/22/23 13:21	SM 2510 B		BEH0949
Bicarbonate as CaCO₃	324	mg/L	5.00	1		08/22/23 13:21	SM 2320 B		BEH0949
Potassium	0.504	mg/L	0.500	1		08/22/23 13:05	EPA 200.7		BEH0945
Magnesium	9.4	mg/L	0.1	1		08/22/23 13:05	EPA 200.7		BEH0945
Sodium	160	mg/L	1	1		08/22/23 13:05	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:38	Field		BEH1018
Nitrate Nitrogen as NO₃N	39.6	mg/L	0.1	1	10	08/18/23 20:58	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 13:21	SM 2320 B		BEH0949
pH	7.8	units	1.0	1		08/22/23 13:21	SM 4500-H+	H	BEH0949
Sulfate (SO₄)	103	mg/L	0.5	1	250	08/18/23 20:58	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	860	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:42	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	39.6	mg/L	1.00	1		08/24/23 12:42	SM 4500-NH ₃ C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Sample Results (Continued)

Sample: IW #12
23H1716-03 (Water)

Sampled: 8/18/2023 7:46
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	104	mg/L	10.0	1		08/22/23 15:56	SM 2320 B		BEH0992
Calcium	2.1	mg/L	0.1	1		08/22/23 13:07	EPA 200.7		BEH0945
Chloride	26.6	mg/L	0.2	1	250	08/18/23 23:37	EPA 300.0		BEH0943
Carbonate as CaCO₃	21	mg/L	1	1		08/22/23 15:56	SM 2320 B		BEH0992
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/22/23 15:56	SM 2510 B		BEH0992
Electrical Conductivity umhos	312	umhos/cm	10.0	1		08/22/23 15:56	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	82.6	mg/L	5.00	1		08/22/23 15:56	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:07	EPA 200.7		BEH0945
Magnesium	ND	mg/L	0.1	1		08/22/23 13:07	EPA 200.7		BEH0945
Sodium	71	mg/L	1	1		08/22/23 13:07	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:46	Field		BEH1018
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 23:37	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 15:56	SM 2320 B		BEH0992
pH	9.3	units	1.0	1		08/22/23 15:56	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	13.0	mg/L	0.5	1	250	08/18/23 23:37	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	200	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:43	SM 4500-NH3 C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 12:43	SM 4500-NH3 C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Sample Results
(Continued)

Sample: IW #14
23H1716-04 (Water)

Sampled: 8/18/2023 7:53
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	150	mg/L	10.0	1		08/22/23 15:59	SM 2320 B		BEH0992
Calcium	24.3	mg/L	0.1	1		08/22/23 13:08	EPA 200.7		BEH0945
Chloride	30.7	mg/L	0.2	1	250	08/18/23 23:57	EPA 300.0		BEH0943
Carbonate as CaCO3	ND	mg/L	1	1		08/22/23 15:59	SM 2320 B		BEH0992
Electrical Conductivity	0.50	mmhos/cm	0.01	1		08/22/23 15:59	SM 2510 B		BEH0992
Electrical Conductivity umhos	504	umhos/cm	10.0	1		08/22/23 15:59	SM 2510 B		BEH0992
Bicarbonate as CaCO3	150	mg/L	5.00	1		08/22/23 15:59	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:08	EPA 200.7		BEH0945
Magnesium	2.7	mg/L	0.1	1		08/22/23 13:08	EPA 200.7		BEH0945
Sodium	88	mg/L	1	1		08/22/23 13:08	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:53	Field		BEH1018
Nitrate Nitrogen as NO3N	5.8	mg/L	0.1	1	10	08/18/23 23:57	EPA 300.0		BEH0943
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 15:59	SM 2320 B		BEH0992
pH	8.1	units	1.0	1		08/22/23 15:59	SM 4500-H+	H	BEH0992
Sulfate (SO4)	35.3	mg/L	0.5	1	250	08/18/23 23:57	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	340	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:45	SM 4500-NH3 C		BEH1053
Total Nitrogen	5.84	mg/L	1.00	1		08/24/23 12:45	SM 4500-NH3 C		BEH1053



Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Sample Results (Continued)

Sample: IW #21
23H1716-05 (Water)

Sampled: 8/18/2023 7:54
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	391	mg/L	10.0	1		08/22/23 16:03	SM 2320 B		BEH0992
Calcium	96.3	mg/L	0.1	1		08/22/23 13:09	EPA 200.7		BEH0945
Chloride	61.4	mg/L	0.2	1	250	08/19/23 00:16	EPA 300.0		BEH0943
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 16:03	SM 2320 B		BEH0992
Electrical Conductivity	1.30	mmhos/cm	0.01	1		08/22/23 16:03	SM 2510 B		BEH0992
Electrical Conductivity umhos	1300	umhos/cm	10.0	1		08/22/23 16:03	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	391	mg/L	5.00	1		08/22/23 16:03	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:09	EPA 200.7		BEH0945
Magnesium	13.1	mg/L	0.1	1		08/22/23 13:09	EPA 200.7		BEH0945
Sodium	185	mg/L	1	1		08/22/23 13:09	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:54	Field		BEH1018
Nitrate Nitrogen as NO₃N	30.1	mg/L	0.1	1	10	08/19/23 00:16	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:03	SM 2320 B		BEH0992
pH	7.6	units	1.0	1		08/22/23 16:03	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	95.3	mg/L	0.5	1	250	08/19/23 00:16	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	920	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:46	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	30.1	mg/L	1.00	1		08/24/23 12:46	SM 4500-NH ₃ C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Sample Results (Continued)

Sample: IW #22
23H1716-06 (Water)

Sampled: 8/18/2023 8:08
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	413	mg/L	10.0	1		08/22/23 16:12	SM 2320 B		BEH0992
Calcium	140	mg/L	0.1	1		08/22/23 13:10	EPA 200.7		BEH0945
Chloride	70.6	mg/L	0.2	1	250	08/19/23 00:36	EPA 300.0		BEH0943
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 16:12	SM 2320 B		BEH0992
Electrical Conductivity	1.44	mmhos/cm	0.01	1		08/22/23 16:12	SM 2510 B		BEH0992
Electrical Conductivity umhos	1440	umhos/cm	10.0	1		08/22/23 16:12	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	413	mg/L	5.00	1		08/22/23 16:12	SM 2320 B		BEH0992
Potassium	0.652	mg/L	0.500	1		08/22/23 13:10	EPA 200.7		BEH0945
Magnesium	17.9	mg/L	0.1	1		08/22/23 13:10	EPA 200.7		BEH0945
Sodium	165	mg/L	1	1		08/22/23 13:10	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:08	Field		BEH1018
Nitrate Nitrogen as NO₃N	44.1	mg/L	0.1	1	10	08/19/23 00:36	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:12	SM 2320 B		BEH0992
pH	7.7	units	1.0	1		08/22/23 16:12	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	93.4	mg/L	0.5	1	250	08/19/23 00:36	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	990	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:48	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	44.1	mg/L	1.00	1		08/24/23 12:48	SM 4500-NH ₃ C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Sample Results (Continued)

Sample: IW #23
23H1716-07 (Water)

Sampled: 8/18/2023 8:16
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	96.5	mg/L	10.0	1		08/22/23 16:20	SM 2320 B		BEH0992
Calcium	3.6	mg/L	0.1	1		08/22/23 13:11	EPA 200.7		BEH0945
Chloride	16.7	mg/L	0.2	1	250	08/19/23 00:56	EPA 300.0		BEH0943
Carbonate as CaCO₃	14	mg/L	1	1		08/22/23 16:20	SM 2320 B		BEH0992
Electrical Conductivity	0.30	mmhos/cm	0.01	1		08/22/23 16:20	SM 2510 B		BEH0992
Electrical Conductivity umhos	297	umhos/cm	10.0	1		08/22/23 16:20	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	82.5	mg/L	5.00	1		08/22/23 16:20	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:11	EPA 200.7		BEH0945
Magnesium	0.2	mg/L	0.1	1		08/22/23 13:11	EPA 200.7		BEH0945
Sodium	70	mg/L	1	1		08/22/23 13:11	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:16	Field		BEH1018
Nitrate Nitrogen as NO₃N	0.2	mg/L	0.1	1	10	08/19/23 00:56	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:20	SM 2320 B		BEH0992
pH	9.0	units	1.0	1		08/22/23 16:20	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	30.3	mg/L	0.5	1	250	08/19/23 00:56	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	185	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:49	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 12:49	SM 4500-NH ₃ C		BEH1053

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18017 Road 96
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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Sample Results (Continued)

Sample: IW #24
23H1716-08 (Water)

Sampled: 8/18/2023 8:23
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	408	mg/L	10.0	1		08/22/23 16:24	SM 2320 B		BEH0992
Calcium	141	mg/L	0.1	1		08/22/23 13:13	EPA 200.7		BEH0945
Chloride	67.1	mg/L	0.2	1	250	08/19/23 01:15	EPA 300.0		BEH0943
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 16:24	SM 2320 B		BEH0992
Electrical Conductivity	1.37	mmhos/cm	0.01	1		08/22/23 16:24	SM 2510 B		BEH0992
Electrical Conductivity umhos	1370	umhos/cm	10.0	1		08/22/23 16:24	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	408	mg/L	5.00	1		08/22/23 16:24	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:13	EPA 200.7		BEH0945
Magnesium	14.9	mg/L	0.1	1		08/22/23 13:13	EPA 200.7		BEH0945
Sodium	158	mg/L	1	1		08/22/23 13:13	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:23	Field		BEH1018
Nitrate Nitrogen as NO₃N	45.5	mg/L	0.1	1	10	08/19/23 01:15	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:24	SM 2320 B		BEH0992
pH	7.6	units	1.0	1		08/22/23 16:24	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	63.9	mg/L	0.5	1	250	08/19/23 01:15	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	900	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:50	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	46.3	mg/L	1.00	1		08/24/23 12:50	SM 4500-NH ₃ C		BEH1053

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Sample Results (Continued)

Sample: IW #27
23H1716-09 (Water)

Sampled: 8/18/2023 8:32
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	111	mg/L	10.0	1		08/22/23 16:32	SM 2320 B		BEH0992
Calcium	3.5	mg/L	0.1	1		08/22/23 13:14	EPA 200.7		BEH0945
Chloride	25.6	mg/L	0.2	1	250	08/19/23 01:35	EPA 300.0		BEH0943
Carbonate as CaCO3	16	mg/L	1	1		08/22/23 16:32	SM 2320 B		BEH0992
Electrical Conductivity	0.33	mmhos/cm	0.01	1		08/22/23 16:32	SM 2510 B		BEH0992
Electrical Conductivity umhos	331	umhos/cm	10.0	1		08/22/23 16:32	SM 2510 B		BEH0992
Bicarbonate as CaCO3	94.9	mg/L	5.00	1		08/22/23 16:32	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/22/23 13:14	EPA 200.7		BEH0945
Magnesium	0.4	mg/L	0.1	1		08/22/23 13:14	EPA 200.7		BEH0945
Sodium	77	mg/L	1	1		08/22/23 13:14	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:32	Field		BEH1018
Nitrate Nitrogen as NO3N	0.5	mg/L	0.1	1	10	08/19/23 01:35	EPA 300.0		BEH0943
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 16:32	SM 2320 B		BEH0992
pH	9.1	units	1.0	1		08/22/23 16:32	SM 4500-H+	H	BEH0992
Sulfate (SO4)	17.9	mg/L	0.5	1	250	08/19/23 01:35	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	215	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:52	SM 4500-NH3 C		BEH1053
Total Nitrogen	1.17	mg/L	1.00	1		08/24/23 12:52	SM 4500-NH3 C		BEH1053

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18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0943									
Blank (BEH0943-BLK1)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK2)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK3)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK4)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
LCS (BEH0943-BS1)				Prepared & Analyzed: 8/18/2023					
Chloride	4.8	0.2	mg/L	5.000		95.8	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.8	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.8	90-110		
LCS (BEH0943-BS2)				Prepared & Analyzed: 8/19/2023					
Chloride	4.8	0.2	mg/L	5.000		95.4	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.6	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.7	90-110		
LCS (BEH0943-BS3)				Prepared & Analyzed: 8/19/2023					
Chloride	4.7	0.2	mg/L	5.000		94.5	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.7	90-110		
Sulfate (SO4)	4.5	0.5	mg/L	5.000		90.3	90-110		
Duplicate (BEH0943-DUP1)				Source: 23H1716-01		Prepared & Analyzed: 8/18/2023			
Chloride	18.9	0.2	mg/L		18.7			0.830	10
Nitrate Nitrogen as NO3N	1.6	0.1	mg/L		1.5			1.23	10
Sulfate (SO4)	32.1	0.5	mg/L		31.7			1.10	10
Duplicate (BEH0943-DUP2)				Source: 23H1716-07		Prepared & Analyzed: 8/19/2023			
Chloride	16.8	0.2	mg/L		16.7			0.625	10
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			1.25	10
Sulfate (SO4)	30.5	0.5	mg/L		30.3			0.773	10

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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0943 (Continued)

Duplicate (BEH0943-DUP3)		Source: 23H1759-06		Prepared & Analyzed: 8/19/2023					
Chloride	9.0	0.2	mg/L		9.0			0.266	10
Nitrate Nitrogen as NO3N	1.5	0.1	mg/L		1.5			0.334	10
Sulfate (SO4)	3.5	0.5	mg/L		3.5			0.254	10
Matrix Spike (BEH0943-MS1)		Source: 23H1716-01		Prepared & Analyzed: 8/18/2023					
Chloride	23.7	0.2	mg/L	5.000	18.7	100	90-110		
Nitrate Nitrogen as NO3N	6.6	0.1	mg/L	5.000	1.5	101	90-110		
Sulfate (SO4)	36.8	0.5	mg/L	5.000	31.7	101	90-110		
Matrix Spike (BEH0943-MS2)		Source: 23H1716-07		Prepared & Analyzed: 8/19/2023					
Chloride	21.7	0.2	mg/L	5.000	16.7	99.2	90-110		
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.2	96.3	90-110		
Sulfate (SO4)	35.2	0.5	mg/L	5.000	30.3	97.5	90-110		
Matrix Spike (BEH0943-MS3)		Source: 23H1759-06		Prepared & Analyzed: 8/19/2023					
Chloride	13.9	0.2	mg/L	5.000	9.0	98.4	90-110		
Nitrate Nitrogen as NO3N	6.5	0.1	mg/L	5.000	1.5	101	90-110		
Sulfate (SO4)	8.3	0.5	mg/L	5.000	3.5	95.1	90-110		
Reference (BEH0943-SRM1)				Prepared & Analyzed: 8/18/2023					
Chloride	12.2		mg/L	12.50		98.0	90-110		
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.3	90-110		
Sulfate (SO4)	9.4		mg/L	10.00		93.9	90-110		
Reference (BEH0943-SRM2)				Prepared & Analyzed: 8/18/2023					
Chloride	12.5		mg/L	12.50		99.8	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
Sulfate (SO4)	9.5		mg/L	10.00		95.3	90-110		
Reference (BEH0943-SRM3)				Prepared & Analyzed: 8/19/2023					
Chloride	12.5		mg/L	12.50		99.6	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.9	90-110		
Sulfate (SO4)	9.5		mg/L	10.00		95.0	90-110		
Reference (BEH0943-SRM4)				Prepared & Analyzed: 8/19/2023					
Chloride	12.4		mg/L	12.50		99.1	90-110		
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.4	90-110		
Sulfate (SO4)	9.4		mg/L	10.00		94.4	90-110		

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Elk Creek Dairy
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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0945									
Blank (BEH0945-BLK1)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEH0945-BLK2)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEH0945-BS1)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Potassium	37.3	0.500	mg/L	35.71		104	90-110		
Calcium	38.3	0.1	mg/L	35.71		107	90-110		
Sodium	38	1	mg/L	35.71		107	90-110		
Magnesium	37.6	0.1	mg/L	35.71		105	90-110		
LCS (BEH0945-BS2)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Potassium	38.0	0.500	mg/L	35.71		106	90-110		
Calcium	38.6	0.1	mg/L	35.71		108	90-110		
Sodium	39	1	mg/L	35.71		110	90-110		
Magnesium	37.8	0.1	mg/L	35.71		106	90-110		
Duplicate (BEH0945-DUP1)									
				Source: 23H1598-01		Prepared: 8/18/2023 Analyzed: 8/22/2023			
Calcium	40.6	0.1	mg/L		42.0			3.54	15
Potassium	3.39	0.500	mg/L		3.50			2.96	15
Sodium	27	1	mg/L		28			1.62	15
Magnesium	55.2	0.1	mg/L		57.2			3.45	15
Matrix Spike (BEH0945-MS1)									
				Source: 23H1598-01		Prepared: 8/18/2023 Analyzed: 8/22/2023			
Sodium	71	1	mg/L	35.71	28	120	90-110		
Potassium	44.4	0.500	mg/L	35.71	3.50	114	90-110		
Calcium	85.2	0.1	mg/L	35.71	42.0	121	90-110		
Magnesium	98.8	0.1	mg/L	35.71	57.2	117	90-110		
Matrix Spike (BEH0945-MS2)									
				Source: 23H1716-03		Prepared: 8/18/2023 Analyzed: 8/22/2023			
Sodium	112	1	mg/L	35.71	71	115	90-110		
Potassium	37.6	0.500	mg/L	35.71	0.407	104	90-110		
Calcium	40.1	0.1	mg/L	35.71	2.1	106	90-110		
Magnesium	37.3	0.1	mg/L	35.71	ND	104	90-110		
Reference (BEH0945-SRM2)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Potassium	20.6		mg/L	21.90		94.2	90-110		

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0945 (Continued)									
Reference (BEH0945-SRM2)									
Sodium	100		mg/L	91.50		109	90-110		
Reference (BEH0945-SRM3)									
Calcium	49.4		mg/L	45.90		108	90-110		
Magnesium	37.5		mg/L	35.60		105	90-110		



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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0949

Blank (BEH0949-BLK1)		Prepared: 8/18/2023 Analyzed: 8/22/2023							
Hydroxide as CaCO3	ND	1.00	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	5.1	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Blank (BEH0949-BLK2)		Prepared: 8/18/2023 Analyzed: 8/22/2023							
Alkalinity as CaCO3	ND	10.0	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Blank (BEH0949-BLK3)		Prepared: 8/18/2023 Analyzed: 8/22/2023							
Carbonate as CaCO3	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.2	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Bicarbonate as CaCO3	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Duplicate (BEH0949-DUP1)		Source: 23H1598-01		Prepared: 8/18/2023 Analyzed: 8/22/2023					
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Electrical Conductivity	0.70	0.01	mmhos/cm		0.70		0.230		10
Alkalinity as CaCO3	276	10.0	mg/L		276		0.272		10
Carbonate as CaCO3	ND	1	mg/L		ND				10
pH	7.8	1.0	units		7.8		0.385		10
Electrical Conductivity umhos	697	10.0	umhos/cm		695		0.230		10

Duplicate (BEH0949-DUP2)		Source: 23H1715-01		Prepared: 8/18/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO3	149	10.0	mg/L		148		0.921		10
pH	8.0	1.0	units		8.0		0.125		10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Electrical Conductivity	0.74	0.01	mmhos/cm		0.73		1.29		10
Electrical Conductivity umhos	740	10.0	umhos/cm		730		1.29		10

Reference (BEH0949-SRM1)		Prepared: 8/18/2023 Analyzed: 8/22/2023							
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0949 (Continued)									
Reference (BEH0949-SRM1)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO ₃	40.3		mg/L	40.60		99.4	90-110		
Electrical Conductivity	516		umhos/cm	538.0		96.0	90-110		
Reference (BEH0949-SRM2)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO ₃	41.0		mg/L	40.60		101	90-110		
Electrical Conductivity	539		umhos/cm	538.0		100	90-110		
Reference (BEH0949-SRM3)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO ₃	41.3		mg/L	40.60		102	90-110		
Electrical Conductivity	553		umhos/cm	538.0		103	90-110		
Reference (BEH0949-SRM4)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEH0949-SRM5)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0949-SRM6)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
pH	4.1		units	4.000		102	97.5-102.5		
Reference (BEH0949-SRM7)				Prepared: 8/18/2023 Analyzed: 8/22/2023					
pH	5.9		units	5.820		102	28178-101.7:		

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Quality Control
(Continued)

Analyte	ResultQual	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch: BEH0982								
Blank (BEH0982-BLK1)								
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023				
LCS (BEH0982-BS1)								
Total Filterable Solids (TDS)	32.5	10.0	mg/L	2000	1.62	0-200		
Duplicate (BEH0982-DUP1)								
Total Filterable Solids (TDS)	860	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023			0.00	10
Duplicate (BEH0982-DUP2)								
Total Filterable Solids (TDS)	1050	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023			1.92	10
Reference (BEH0982-SRM1)								
Total Filterable Solids (TDS)	323		mg/L	325.0	99.5	90-110		
Reference (BEH0982-SRM2)								
Total Filterable Solids (TDS)	500		mg/L	495.0	101	90-110		

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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0992

Blank (BEH0992-BLK1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Carbonate as CaCO ₃	ND	1	mg/L						
pH	5.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						

Blank (BEH0992-BLK2)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Hydroxide as CaCO ₃	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.3	1.0	units						
Carbonate as CaCO ₃	ND	1	mg/L						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Blank (BEH0992-BLK3)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Hydroxide as CaCO ₃	ND	1.00	mg/L						
Carbonate as CaCO ₃	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Duplicate (BEH0992-DUP1)

Source: 23H1717-01

Prepared: 8/21/2023 Analyzed: 8/22/2023

pH	7.6	1.0	units	7.6		0.132	10
Electrical Conductivity	1.44	0.01	mmhos/cm	1.43		0.662	10
Carbonate as CaCO ₃	ND	1	mg/L	ND			10
Alkalinity as CaCO ₃	315	10.0	mg/L	311		1.01	10
Hydroxide as CaCO ₃	ND	1.00	mg/L	ND			10
Electrical Conductivity umhos	1440	10.0	umhos/cm	1430		0.662	10

Duplicate (BEH0992-DUP2)

Source: 23H1717-04

Prepared: 8/21/2023 Analyzed: 8/22/2023

pH	7.9	1.0	units	7.8		0.893	10
Electrical Conductivity	1.42	0.01	mmhos/cm	1.42		0.190	10
Hydroxide as CaCO ₃	ND	1.00	mg/L	ND			10
Alkalinity as CaCO ₃	382	10.0	mg/L	386		1.04	10
Carbonate as CaCO ₃	ND	1	mg/L	ND			10
Electrical Conductivity umhos	1420	10.0	umhos/cm	1420		0.190	10

Reference (BEH0992-SRM1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

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Received: 08/18/2023 12:11
Reported: 08/24/2023 16:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0992 (Continued)									
Reference (BEH0992-SRM1)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
Alkalinity as CaCO ₃	40.6		mg/L	40.60		100	90-110		
Electrical Conductivity	527		umhos/cm	538.0		98.0	90-110		
Reference (BEH0992-SRM2)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
Electrical Conductivity	533		umhos/cm	538.0		99.0	90-110		
Alkalinity as CaCO ₃	40.5		mg/L	40.60		99.7	90-110		
Reference (BEH0992-SRM3)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
Alkalinity as CaCO ₃	42.6		mg/L	40.60		105	90-110		
Electrical Conductivity	538		umhos/cm	538.0		99.9	90-110		
Reference (BEH0992-SRM4)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM5)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM6)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEH0992-SRM7)				Prepared: 8/21/2023		Analyzed: 8/22/2023			
pH	5.8		units	5.820		100	28178-101.7:		

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Account# 00-0021435
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Submitted By: Brent Aukeman

Received: 08/18/2023 12:11
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1053									
Blank (BEH1053-BLK1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
Blank (BEH1053-BLK2)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
LCS (BEH1053-BS1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	5.82	1.00	mg/L	5.709		102	90-110		
LCS (BEH1053-BS2)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	6.01	1.00	mg/L	5.709		105	90-110		
Duplicate (BEH1053-DUP1)				Source: 23H1716-03		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Duplicate (BEH1053-DUP2)				Source: 23H1717-06		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Matrix Spike (BEH1053-MS1)				Source: 23H1716-03		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	6.21	1.40	mg/L	7.992	ND	77.7	90-110		
Matrix Spike (BEH1053-MS2)				Source: 23H1717-06		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	8.87	1.40	mg/L	7.992	ND	111	90-110		
Reference (BEH1053-SRM1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	24.8		mg/L	23.80		104	90-110		

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08/18/23 12:11

23H1716

DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

21435

08

Acct #

Cons #

Results Need By

Name: Elk Creek Dairy

Address: 18017 Road 96

City: Tulare

State: CA

Zip: 93274

Telephone:

Fax:

Cell/Email:

elkcreekdairy@gmail.com

COPY TO:

ariordan@fragservices.com

REQUESTED BY:

Brent Aukeman

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

JAKE

Description of Samples

1	IW #1
2	IW #2
3	IW #12
4	IW #14
5	IW #21
6	IW #22
7	IW #23
8	IW #24
9	IW #27
10	

Water Type:

☐ Drinking Water☐ Wastewater☒ Ag Water☐ Groundwater☐ Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)

☐ DWW1: EC, NO₃-N NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

☒ DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DCW1: EC, NO₃-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

☒ Other + TN

Date Sampled	Time Sampled	Rec'd Temp °C	Field Notes
8/18/23	0731	0.4	345m.n
	0738	0.3	
	0746	0.5	
	0753	1.0	
	0759	1.3	
	0808	-0.2	
	0816	-0.3	
	0823	0.9	
	0832	0.8	

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/18/23 1000	8/18/23
Second				
Third				
Fourth	Eds	DLF	8-18-23 12:11	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

Billing Information:

Sampling hrs	\$	In
Miles	\$	Out
Consulting		
Amt Paid	Rec By	Check #
		Date

Shipping

Signature

Sample received in cooler with ice (coolant)

☐ Yes ☐ No



08/18/23 12:11

23H1716

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/> _____											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO₃ or H₂SO₄ were:					<input type="checkbox"/> Received Preserved <input checked="" type="checkbox"/> Preserved Upon Receipt at Laboratory						
Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* pH Value										
	250 mL H ₂ SO ₄ (Yellow) Plastic	1	1	1	1	1	1	1	1	1	1
	* pH Value	12	12	12	12	12	12	12	12	12	12
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	1	1	1	1	1	1	1
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										



Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1717-01	IW #3	Ag Water	Jake	Irrigation Wells	08/18/2023 9:11
23H1717-02	IW #4	Ag Water	Jake	Irrigation Wells	08/18/2023 9:18
23H1717-03	IW #6	Ag Water	Jake	Irrigation Wells	08/18/2023 9:26
23H1717-04	IW #7	Ag Water	Jake	Irrigation Wells	08/18/2023 9:33
23H1717-05	IW #8	Ag Water	Jake	Irrigation Wells	08/18/2023 9:41
23H1717-06	IW #11	Ag Water	Jake	Irrigation Wells	08/18/2023 9:49

Default Cooler Temperature on Receipt °C: 0.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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17781 Road 96
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Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results

Sample: IW #3
23H1717-01 (Water)

Sampled: 8/18/2023 9:11
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	311	mg/L	10.0	1		08/22/23 16:36	SM 2320 B		BEH0992
Calcium	178	mg/L	0.1	1		08/24/23 13:40	EPA 200.7		BEH1087
Chloride	59.6	mg/L	0.2	1	250	08/18/23 19:30	EPA 300.0		BEH0944
Carbonate as CaCO3	ND	mg/L	1	1		08/22/23 16:36	SM 2320 B		BEH0992
Electrical Conductivity	1.43	mmhos/cm	0.01	1		08/22/23 16:36	SM 2510 B		BEH0992
Electrical Conductivity umhos	1430	umhos/cm	10.0	1		08/22/23 16:36	SM 2510 B		BEH0992
Bicarbonate as CaCO3	311	mg/L	5.00	1		08/22/23 16:36	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:40	EPA 200.7		BEH1087
Magnesium	16.5	mg/L	0.1	1		08/24/23 13:40	EPA 200.7		BEH1087
Sodium	128	mg/L	1	1		08/24/23 13:40	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:11	Field		BEH1019
Nitrate Nitrogen as NO3N	71.5	mg/L	0.1	1	10	08/18/23 19:30	EPA 300.0		BEH0944
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 16:36	SM 2320 B		BEH0992
pH	7.6	units	1.0	1		08/22/23 16:36	SM 4500-H+	H	BEH0992
Sulfate (SO4)	95.7	mg/L	0.5	1	250	08/18/23 19:30	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	1050	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 12:53	SM 4500-NH3 C		BEH1053
Total Nitrogen	71.5	mg/L	1.00	1		08/24/23 12:53	SM 4500-NH3 C		BEH1053

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Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results (Continued)

Sample: IW #4

23H1717-02 (Water)

Sampled: 8/18/2023 9:18

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	163	mg/L	10.0	1		08/22/23 16:43	SM 2320 B		BEH0992
Calcium	85.3	mg/L	0.1	1		08/24/23 13:41	EPA 200.7		BEH1087
Chloride	16.9	mg/L	0.2	1	250	08/18/23 19:50	EPA 300.0		BEH0944
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 16:43	SM 2320 B		BEH0992
Electrical Conductivity	0.60	mmhos/cm	0.01	1		08/22/23 16:43	SM 2510 B		BEH0992
Electrical Conductivity umhos	595	umhos/cm	10.0	1		08/22/23 16:43	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	163	mg/L	5.00	1		08/22/23 16:43	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:41	EPA 200.7		BEH1087
Magnesium	6.5	mg/L	0.1	1		08/24/23 13:41	EPA 200.7		BEH1087
Sodium	31	mg/L	1	1		08/24/23 13:41	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:18	Field		BEH1019
Nitrate Nitrogen as NO₃N	17.4	mg/L	0.1	1	10	08/18/23 19:50	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:43	SM 2320 B		BEH0992
pH	7.7	units	1.0	1		08/22/23 16:43	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	52.8	mg/L	0.5	1	250	08/18/23 19:50	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	430	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 13:03	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	17.4	mg/L	1.00	1		08/24/23 13:03	SM 4500-NH ₃ C		BEH1053

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Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results (Continued)

Sample: IW #6

23H1717-03 (Water)

Sampled: 8/18/2023 9:26

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	102	mg/L	10.0	1		08/22/23 16:48	SM 2320 B		BEH0992
Calcium	2.5	mg/L	0.1	1		08/24/23 13:42	EPA 200.7		BEH1087
Chloride	32.5	mg/L	0.2	1	250	08/18/23 20:10	EPA 300.0		BEH0944
Carbonate as CaCO₃	16	mg/L	1	1		08/22/23 16:48	SM 2320 B		BEH0992
Electrical Conductivity	0.34	mmhos/cm	0.01	1		08/22/23 16:48	SM 2510 B		BEH0992
Electrical Conductivity umhos	336	umhos/cm	10.0	1		08/22/23 16:48	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	85.8	mg/L	5.00	1		08/22/23 16:48	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:42	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:42	EPA 200.7		BEH1087
Sodium	78	mg/L	1	1		08/24/23 13:42	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:26	Field		BEH1019
Nitrate Nitrogen as NO₃N	0.2	mg/L	0.1	1	10	08/18/23 20:10	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 16:48	SM 2320 B		BEH0992
pH	9.2	units	1.0	1		08/22/23 16:48	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	15.2	mg/L	0.5	1	250	08/18/23 20:10	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	215	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 13:05	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 13:05	SM 4500-NH ₃ C		BEH1053

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Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results (Continued)

Sample: IW #7

23H1717-04 (Water)

Sampled: 8/18/2023 9:33

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	386	mg/L	10.0	1		08/22/23 17:04	SM 2320 B		BEH0992
Calcium	127	mg/L	0.1	1		08/24/23 13:43	EPA 200.7		BEH1087
Chloride	43.1	mg/L	0.2	1	250	08/18/23 22:48	EPA 300.0		BEH0944
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 17:04	SM 2320 B		BEH0992
Electrical Conductivity	1.42	mmhos/cm	0.01	1		08/22/23 17:04	SM 2510 B		BEH0992
Electrical Conductivity umhos	1420	umhos/cm	10.0	1		08/22/23 17:04	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	386	mg/L	5.00	1		08/22/23 17:04	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:43	EPA 200.7		BEH1087
Magnesium	13.0	mg/L	0.1	1		08/24/23 13:43	EPA 200.7		BEH1087
Sodium	197	mg/L	1	1		08/24/23 13:43	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:33	Field		BEH1019
Nitrate Nitrogen as NO₃N	38.0	mg/L	0.1	1	10	08/18/23 22:48	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 17:04	SM 2320 B		BEH0992
pH	7.8	units	1.0	1		08/22/23 17:04	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	188	mg/L	0.5	1	250	08/18/23 22:48	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	1030	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 13:06	SM 4500-NH ₃ C		BEH1053
Total Nitrogen	38.0	mg/L	1.00	1		08/24/23 13:06	SM 4500-NH ₃ C		BEH1053

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17781 Road 96
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Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results (Continued)

Sample: IW #8
23H1717-05 (Water)

Sampled: 8/18/2023 9:41
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	104	mg/L	10.0	1		08/22/23 17:12	SM 2320 B		BEH0992
Calcium	1.7	mg/L	0.1	1		08/24/23 13:45	EPA 200.7		BEH1087
Chloride	20.2	mg/L	0.2	1	250	08/18/23 23:08	EPA 300.0		BEH0944
Carbonate as CaCO3	23	mg/L	1	1		08/22/23 17:12	SM 2320 B		BEH0992
Electrical Conductivity	0.28	mmhos/cm	0.01	1		08/22/23 17:12	SM 2510 B		BEH0992
Electrical Conductivity umhos	283	umhos/cm	10.0	1		08/22/23 17:12	SM 2510 B		BEH0992
Bicarbonate as CaCO3	80.4	mg/L	5.00	1		08/22/23 17:12	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:45	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:45	EPA 200.7		BEH1087
Sodium	66	mg/L	1	1		08/24/23 13:45	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:41	Field		BEH1019
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 23:08	EPA 300.0		BEH0944
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 17:12	SM 2320 B		BEH0992
pH	9.3	units	1.0	1		08/22/23 17:12	SM 4500-H+	H	BEH0992
Sulfate (SO4)	12.7	mg/L	0.5	1	250	08/18/23 23:08	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	198	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 13:07	SM 4500-NH3 C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 13:07	SM 4500-NH3 C		BEH1053

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17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Sample Results (Continued)

Sample: IW #11

23H1717-06 (Water)

Sampled: 8/18/2023 9:49

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	125	mg/L	10.0	1		08/22/23 17:16	SM 2320 B		BEH0992
Calcium	1.5	mg/L	0.1	1		08/24/23 13:46	EPA 200.7		BEH1087
Chloride	15.6	mg/L	0.2	1	250	08/18/23 23:28	EPA 300.0		BEH0944
Carbonate as CaCO3	29	mg/L	1	1		08/22/23 17:16	SM 2320 B		BEH0992
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/22/23 17:16	SM 2510 B		BEH0992
Electrical Conductivity umhos	312	umhos/cm	10.0	1		08/22/23 17:16	SM 2510 B		BEH0992
Bicarbonate as CaCO3	95.3	mg/L	5.00	1		08/22/23 17:16	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:46	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:46	EPA 200.7		BEH1087
Sodium	75	mg/L	1	1		08/24/23 13:46	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 09:49	Field		BEH1019
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 23:28	EPA 300.0		BEH0944
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 17:16	SM 2320 B		BEH0992
pH	9.4	units	1.0	1		08/22/23 17:16	SM 4500-H+	H	BEH0992
Sulfate (SO4)	12.4	mg/L	0.5	1	250	08/18/23 23:28	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	238	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		08/24/23 13:09	SM 4500-NH3 C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 13:09	SM 4500-NH3 C		BEH1053

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17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0944									
Blank (BEH0944-BLK1)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0944-BLK2)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0944-BLK3)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0944-BLK4)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
LCS (BEH0944-BS1)				Prepared & Analyzed: 8/18/2023					
Chloride	4.9	0.2	mg/L	5.000		98.9	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110		
Sulfate (SO4)	4.8	0.5	mg/L	5.000		95.8	90-110		
LCS (BEH0944-BS2)				Prepared & Analyzed: 8/19/2023					
Chloride	5.0	0.2	mg/L	5.000		99.8	90-110		
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000		103	90-110		
Sulfate (SO4)	4.8	0.5	mg/L	5.000		96.8	90-110		
LCS (BEH0944-BS3)				Prepared & Analyzed: 8/19/2023					
Chloride	4.9	0.2	mg/L	5.000		98.5	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110		
Sulfate (SO4)	4.8	0.5	mg/L	5.000		95.3	90-110		
Duplicate (BEH0944-DUP1)				Source: 23H1712-02		Prepared & Analyzed: 8/18/2023			
Chloride	19.9	0.2	mg/L		19.6			1.40	10
Nitrate Nitrogen as NO3N	0.06	0.1	mg/L		0.06			0.00	10
Sulfate (SO4)	11.7	0.5	mg/L		11.5			1.70	10
Duplicate (BEH0944-DUP2)				Source: 23H1717-05		Prepared & Analyzed: 8/19/2023			
Chloride	20.5	0.2	mg/L		20.2			1.27	10
Nitrate Nitrogen as NO3N	0.09	0.1	mg/L		0.08			3.47	10
Sulfate (SO4)	12.8	0.5	mg/L		12.7			0.862	10

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Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0944 (Continued)									
Duplicate (BEH0944-DUP3)		Source: 23H1758-01		Prepared & Analyzed: 8/19/2023					
Chloride	9.7	0.2	mg/L		9.7			0.186	10
Nitrate Nitrogen as NO3N	1.7	0.1	mg/L		1.7			0.532	10
Sulfate (SO4)	3.9	0.5	mg/L		3.9			0.130	10
Matrix Spike (BEH0944-MS1)		Source: 23H1712-02		Prepared & Analyzed: 8/18/2023					
Chloride	24.5	0.2	mg/L	5.000	19.6	98.6	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.06	102	90-110		
Sulfate (SO4)	16.8	0.5	mg/L	5.000	11.5	107	90-110		
Matrix Spike (BEH0944-MS2)		Source: 23H1717-05		Prepared & Analyzed: 8/19/2023					
Chloride	25.1	0.2	mg/L	5.000	20.2	98.1	90-110		
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.08	101	90-110		
Sulfate (SO4)	17.9	0.5	mg/L	5.000	12.7	104	90-110		
Matrix Spike (BEH0944-MS3)		Source: 23H1758-01		Prepared & Analyzed: 8/19/2023					
Chloride	14.6	0.2	mg/L	5.000	9.7	98.6	90-110		
Nitrate Nitrogen as NO3N	6.9	0.1	mg/L	5.000	1.7	104	90-110		
Sulfate (SO4)	9.0	0.5	mg/L	5.000	3.9	103	90-110		
Reference (BEH0944-SRM1)				Prepared & Analyzed: 8/18/2023					
Chloride	12.7		mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	10.0		mg/L	10.00		100	90-110		
Reference (BEH0944-SRM2)				Prepared & Analyzed: 8/18/2023					
Chloride	13.0		mg/L	12.50		104	90-110		
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110		
Sulfate (SO4)	10.3		mg/L	10.00		103	90-110		
Reference (BEH0944-SRM3)				Prepared & Analyzed: 8/19/2023					
Chloride	12.8		mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		
Reference (BEH0944-SRM4)				Prepared & Analyzed: 8/19/2023					
Chloride	12.8		mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Sulfate (SO4)	10.1		mg/L	10.00		101	90-110		

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Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0982									
Blank (BEH0982-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023				
LCS (BEH0982-BS1)									
Total Filterable Solids (TDS)	32.5	10.0	mg/L	2000		1.62	0-200		
Duplicate (BEH0982-DUP1)									
Total Filterable Solids (TDS)	860	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	860		0.00	10
Duplicate (BEH0982-DUP2)									
Total Filterable Solids (TDS)	1050	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	1030		1.92	10
Reference (BEH0982-SRM1)									
Total Filterable Solids (TDS)	323		mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	325.0	99.5	90-110	
Reference (BEH0982-SRM2)									
Total Filterable Solids (TDS)	500		mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	495.0	101	90-110	

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Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0992

Blank (BEH0992-BLK1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO ₃	ND	1	mg/L						
pH	5.2	1.0	units						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Blank (BEH0992-BLK2)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Carbonate as CaCO ₃	ND	1	mg/L						
pH	5.3	1.0	units						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						

Blank (BEH0992-BLK3)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Hydroxide as CaCO ₃	ND	1.00	mg/L						
pH	5.4	1.0	units						
Carbonate as CaCO ₃	ND	1	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO ₃	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						

Duplicate (BEH0992-DUP1)

Source: 23H1717-01

Prepared: 8/21/2023 Analyzed: 8/22/2023

Alkalinity as CaCO ₃	315	10.0	mg/L		311		1.01	10
Carbonate as CaCO ₃	ND	1	mg/L		ND			10
Electrical Conductivity	1.44	0.01	mmhos/cm		1.43		0.662	10
Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10
pH	7.6	1.0	units		7.6		0.132	10
Electrical Conductivity umhos	1440	10.0	umhos/cm		1430		0.662	10

Duplicate (BEH0992-DUP2)

Source: 23H1717-04

Prepared: 8/21/2023 Analyzed: 8/22/2023

pH	7.9	1.0	units		7.8		0.893	10
Carbonate as CaCO ₃	ND	1	mg/L		ND			10
Electrical Conductivity	1.42	0.01	mmhos/cm		1.42		0.190	10
Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10
Alkalinity as CaCO ₃	382	10.0	mg/L		386		1.04	10
Electrical Conductivity umhos	1420	10.0	umhos/cm		1420		0.190	10

Reference (BEH0992-SRM1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

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Account# 00-0025070
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0992 (Continued)									
Reference (BEH0992-SRM1)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Electrical Conductivity	527		umhos/cm	538.0		98.0	90-110		
Alkalinity as CaCO ₃	40.6		mg/L	40.60		100	90-110		
Reference (BEH0992-SRM2)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO ₃	40.5		mg/L	40.60		99.7	90-110		
Electrical Conductivity	533		umhos/cm	538.0		99.0	90-110		
Reference (BEH0992-SRM3)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Electrical Conductivity	538		umhos/cm	538.0		99.9	90-110		
Alkalinity as CaCO ₃	42.6		mg/L	40.60		105	90-110		
Reference (BEH0992-SRM4)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM5)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM6)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEH0992-SRM7)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	5.8		units	5.820		100	28178-101.7:		

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Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1053									
Blank (BEH1053-BLK1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
Blank (BEH1053-BLK2)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
LCS (BEH1053-BS1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	5.82	1.00	mg/L	5.709		102	90-110		
LCS (BEH1053-BS2)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	6.01	1.00	mg/L	5.709		105	90-110		
Duplicate (BEH1053-DUP1)				Source: 23H1716-03		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Duplicate (BEH1053-DUP2)				Source: 23H1717-06		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Matrix Spike (BEH1053-MS1)				Source: 23H1716-03		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	6.21	1.40	mg/L	7.992	ND	77.7	90-110		
Matrix Spike (BEH1053-MS2)				Source: 23H1717-06		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Kjeldahl Nitrogen (TKN), Total	8.87	1.40	mg/L	7.992	ND	111	90-110		
Reference (BEH1053-SRM1)				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Kjeldahl Nitrogen (TKN), Total	24.8		mg/L	23.80		104	90-110		

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Submitted By: Bob Aukeman

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Reported: 08/25/2023 10:30

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1087									
Blank (BEH1087-BLK1)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEH1087-BLK2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEH1087-BS1)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	78	1	mg/L	71.43		110	90-110		
Calcium	78.9	0.1	mg/L	71.43		110	90-110		
Potassium	75.7	0.500	mg/L	71.43		106	90-110		
Magnesium	78.6	0.1	mg/L	71.43		110	90-110		
LCS (BEH1087-BS2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Calcium	76.6	0.1	mg/L	71.43		107	90-110		
Sodium	76	1	mg/L	71.43		107	90-110		
Potassium	72.7	0.500	mg/L	71.43		102	90-110		
Magnesium	76.2	0.1	mg/L	71.43		107	90-110		
Duplicate (BEH1087-DUP1)									
				Source: 23H1801-01		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Calcium	1.1	0.1	mg/L		1.2			6.53	15
Sodium	69	1	mg/L		71			3.48	15
Potassium	ND	0.500	mg/L		ND				15
Magnesium	ND	0.1	mg/L		ND				15
Matrix Spike (BEH1087-MS1)									
				Source: 23H1801-01		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Potassium	74.8	0.500	mg/L	71.43	ND	105	90-110		
Calcium	78.5	0.1	mg/L	71.43	1.2	108	90-110		
Sodium	143	1	mg/L	71.43	71	101	90-110		
Magnesium	76.4	0.1	mg/L	71.43	ND	107	90-110		
Matrix Spike (BEH1087-MS2)									
				Source: 23H1827-02		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Sodium	118	1	mg/L	71.43	40	109	90-110		
Potassium	77.7	0.500	mg/L	71.43	2.38	105	90-110		
Calcium	141	0.1	mg/L	71.43	61.8	111	90-110		
Magnesium	100	0.1	mg/L	71.43	22.4	109	90-110		
Reference (BEH1087-SRM2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	95		mg/L	91.50		104	90-110		

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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH1087 (Continued)

Reference (BEH1087-SRM2)

Potassium	22.4	mg/L	21.90	102	90-110
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Prepared: 8/22/2023 Analyzed: 8/24/2023

Reference (BEH1087-SRM3)

Calcium	47.9	mg/L	45.90	104	90-110
Magnesium	37.4	mg/L	35.60	105	90-110

Prepared: 8/22/2023 Analyzed: 8/24/2023



08/18/23 12:14

23H1717

DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

Acct #

Cons #

No. Samples:

No of Bottles:

Results Need By

Name: Aukeman Farms

Address: 17781 Road 96

City: Tulare State: CA Zip: 93274

Telephone: Fax:

Cell/Email: bkaukeman@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Bob Aukeman

PROJECT:

CROP: IRRIGATION WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

JAKE

Water Type:

☐ Drinking Water☐ Wastewater☒ Ag Water☐ Groundwater☐ Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)

() DWW1: EC, NO₃-N NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DCW1: EC, NO₃-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

() Other + TN

Description of Samples

1	IW #3
2	IW #4
3	IW #6
4	IW #7
5	IW #8
6	IW #11
7	
8	
9	
10	

Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
8/18/23	0911	0.8	> 45 min
	0918	0.1	
	0926	-0.6	
	0933	0.3	
	0941	0.6	
	0949	-0.7	

iR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/18/23 1000	8/18/23
Second				
Third				
Fourth			8/18/23 12:14	

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

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

Billing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Armt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

☐ Yes ☐ No



08/18/23 12:14

23H1717

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO₃ or H₂SO₄ were: <input type="checkbox"/> Received Preserved <input checked="" type="checkbox"/> Preserved Upon Receipt at Laboratory											
Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* [pH Value]										
	250 mL H ₂ SO ₄ (Yellow) Plastic	1	1	1	1	1	1				
	* [pH Value]	4.2	4.2	4.2	4.2	4.2	4.2				
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	1	1	1				
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

pH Strips
Lot: 10BDH4501 Exp: Jan 2025



Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:23

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
2310422-01	IW #25	Ag Water	Jake	Irrigation Well	09/06/2023 9:25

Default Cooler Temperature on Receipt °C: -0.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

A handwritten signature in black ink, reading 'Scott M. Friedland'.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:23

Sample Results

Sample: IW #25
23I0422-01 (Water)

Sampled: 9/6/2023 9:25
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	139	mg/L	10.0	1		09/07/23 16:41	SM 2320 B		BEI0145
Calcium	9.1	mg/L	0.1	1		09/11/23 14:19	EPA 200.7		BEI0146
Chloride	21.7	mg/L	0.2	1	250	09/06/23 23:53	EPA 300.0		BEI0128
Carbonate as CaCO3	8	mg/L	1	1		09/07/23 16:41	SM 2320 B		BEI0145
Electrical Conductivity	0.41	mmhos/cm	0.01	1		09/07/23 16:41	SM 2510 B		BEI0145
Electrical Conductivity umhos	410	umhos/cm	10.0	1		09/07/23 16:41	SM 2510 B		BEI0145
Bicarbonate as CaCO3	131	mg/L	5.00	1		09/07/23 16:41	SM 2320 B		BEI0145
Potassium	ND	mg/L	0.500	1		09/11/23 14:19	EPA 200.7		BEI0146
Magnesium	0.5	mg/L	0.1	1		09/11/23 14:19	EPA 200.7		BEI0146
Sodium	87	mg/L	1	1		09/11/23 14:19	EPA 200.7		BEI0146
Ammonia (as N)	*	mg/L	0.00	1		09/06/23 09:25	Field		BEI0134
Nitrate Nitrogen as NO3N	4.8	mg/L	0.1	1	10	09/06/23 23:53	EPA 300.0		BEI0128
Hydroxide as CaCO3	ND	mg/L	1.00	1		09/07/23 16:41	SM 2320 B		BEI0145
pH	8.7	units	1.0	1		09/07/23 16:41	SM 4500-H+	H	BEI0145
Sulfate (SO4)	18.6	mg/L	0.5	1	250	09/06/23 23:53	EPA 300.0		BEI0128
Total Filterable Solids (TDS)	275	mg/L	10.0	1		09/08/23 13:57	SM 2540 C		BEI0143
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/08/23 08:46	SM 4500-NH3 C		BEI0148
Total Nitrogen	4.76	mg/L	1.00	1		09/08/23 08:46	SM 4500-NH3 C		BEI0148

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50

Reported: 09/12/2023 14:23

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0128									
Blank (BEI0128-BLK1)				Prepared & Analyzed: 9/6/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEI0128-BLK2)				Prepared & Analyzed: 9/7/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
LCS (BEI0128-BS1)				Prepared & Analyzed: 9/7/2023					
Chloride	4.9	0.2	mg/L	5.000		98.9	90-110		
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110		
Sulfate (SO4)	4.8	0.5	mg/L	5.000		95.5	90-110		
Duplicate (BEI0128-DUP1)				Source: 23I0422-01		Prepared & Analyzed: 9/7/2023			
Chloride	21.8	0.2	mg/L		21.7			0.395	10
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L		4.8			0.273	10
Sulfate (SO4)	18.8	0.5	mg/L		18.6			0.979	10
Matrix Spike (BEI0128-MS1)				Source: 23I0422-01		Prepared & Analyzed: 9/7/2023			
Chloride	27.4	0.2	mg/L	5.000	21.7	113	90-110		
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	4.8	120	90-110		
Sulfate (SO4)	24.5	0.5	mg/L	5.000	18.6	118	90-110		
Reference (BEI0128-SRM1)				Prepared & Analyzed: 9/6/2023					
Chloride	12.4		mg/L	12.50		99.2	90-110		
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.3	90-110		
Sulfate (SO4)	9.6		mg/L	10.00		96.4	90-110		
Reference (BEI0128-SRM2)				Prepared & Analyzed: 9/7/2023					
Chloride	12.3		mg/L	12.50		98.4	90-110		
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.5	90-110		
Sulfate (SO4)	9.5		mg/L	10.00		95.4	90-110		

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:23

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0143									
Blank (BEI0143-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
Prepared: 9/7/2023 Analyzed: 9/8/2023									
LCS (BEI0143-BS1)									
Total Filterable Solids (TDS)	31.2	10.0	mg/L	2000		1.56	0-200		
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Duplicate (BEI0143-DUP1)									
Total Filterable Solids (TDS)	3150	10.0	mg/L		3120			1.06	10
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Duplicate (BEI0143-DUP2)									
Total Filterable Solids (TDS)	628	10.0	mg/L		615			2.01	10
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Reference (BEI0143-SRM1)									
Total Filterable Solids (TDS)	327		mg/L	325.0		101	90-110		

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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50

Reported: 09/12/2023 14:23

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEI0145

Blank (BEI0145-BLK1)

Prepared & Analyzed: 9/7/2023

Hydroxide as CaCO3	ND	1.00	mg/L						
pH	4.9	1.0	units						
Carbonate as CaCO3	ND	1	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Blank (BEI0145-BLK2)

Prepared & Analyzed: 9/7/2023

Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Blank (BEI0145-BLK3)

Prepared & Analyzed: 9/7/2023

Electrical Conductivity	ND	0.01	mmhos/cm						
Carbonate as CaCO3	ND	1	mg/L						
pH	5.1	1.0	units						
Alkalinity as CaCO3	ND	10.0	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Duplicate (BEI0145-DUP1)

Source: 23I0424-01

Prepared & Analyzed: 9/7/2023

Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	161	10.0	mg/L		162		0.700		10
Electrical Conductivity	0.58	0.01	mmhos/cm		0.59		0.308		10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
pH	8.2	1.0	units		8.2		0.243		10
Electrical Conductivity umhos	584	10.0	umhos/cm		586		0.308		10

Duplicate (BEI0145-DUP2)

Source: 23I0425-01

Prepared & Analyzed: 9/7/2023

Electrical Conductivity	0.94	0.01	mmhos/cm		0.93		0.289		10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
pH	8.0	1.0	units		8.0		0.376		10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	296	10.0	mg/L		271		8.83		10
Electrical Conductivity umhos	937	10.0	umhos/cm		934		0.289		10

Reference (BEI0145-SRM1)

Prepared & Analyzed: 9/7/2023

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Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0145 (Continued)									
Reference (BEI0145-SRM1)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	523		umhos/cm	538.0		97.1	90-110		
Alkalinity as CaCO ₃	39.3		mg/L	40.60		96.8	90-110		
Reference (BEI0145-SRM2)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	538		umhos/cm	538.0		100	90-110		
Alkalinity as CaCO ₃	41.0		mg/L	40.60		101	90-110		
Reference (BEI0145-SRM3)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	545		umhos/cm	538.0		101	90-110		
Alkalinity as CaCO ₃	42.8		mg/L	40.60		106	90-110		
Reference (BEI0145-SRM4)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEI0145-SRM5)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEI0145-SRM6)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEI0145-SRM7)				Prepared & Analyzed: 9/7/2023					
pH	5.8		units	5.820		100	28178-101.7:		

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Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0146									
Blank (BEI0146-BLK1)				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEI0146-BLK2)									
				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEI0146-BS1)									
				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Sodium	37	1	mg/L	35.71		103	90-110		
Calcium	36.9	0.1	mg/L	35.71		103	90-110		
Potassium	35.5	0.500	mg/L	35.71		99.3	90-110		
Magnesium	37.3	0.1	mg/L	35.71		105	90-110		
Duplicate (BEI0146-DUP1)									
				Source: 23I0302-01		Prepared: 9/7/2023 Analyzed: 9/11/2023			
Potassium	3.80	0.500	mg/L		3.93			3.47	15
Calcium	113	0.1	mg/L		112			0.979	15
Sodium	130	1	mg/L		123			5.06	15
Magnesium	97.2	0.1	mg/L		92.2			5.31	15
Matrix Spike (BEI0146-MS1)									
				Source: 23I0302-01		Prepared: 9/7/2023 Analyzed: 9/11/2023			
Potassium	41.6	0.500	mg/L	35.71	3.93	105	90-110		
Sodium	162	1	mg/L	35.71	123	109	90-110		
Calcium	148	0.1	mg/L	35.71	112	101	90-110		
Magnesium	127	0.1	mg/L	35.71	92.2	96.9	90-110		
Reference (BEI0146-SRM2)									
				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Potassium	21.9		mg/L	21.90		100	90-110		
Sodium	95		mg/L	91.50		104	90-110		
Reference (BEI0146-SRM3)									
				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Calcium	49.2		mg/L	45.90		107	90-110		
Magnesium	38.5		mg/L	35.60		108	90-110		

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Elk Creek Dairy
18017 Road 96
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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:23

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0148									
Blank (BEI0148-BLK1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
Blank (BEI0148-BLK2)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
LCS (BEI0148-BS1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	5.77	1.00	mg/L	5.709		101	90-110		
LCS (BEI0148-BS2)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	5.72	1.00	mg/L	5.709		100	90-110		
Duplicate (BEI0148-DUP1)				Source: 23I0047-01		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	5.60	3.50	mg/L		5.16			8.17	10
Duplicate (BEI0148-DUP2)				Source: 23I0428-02		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Matrix Spike (BEI0148-MS1)				Source: 23I0047-01		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	15.3	3.50	mg/L	9.990	5.16	101	90-110		
Matrix Spike (BEI0148-MS2)				Source: 23I0428-02		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	9.05	1.40	mg/L	7.992	ND	113	90-110		
Reference (BEI0148-SRM1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	24.2		mg/L	23.80		102	90-110		

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09/06/23 14:50

2310422

DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Elk Creek Dairy

Address: 18017 Road 96

City: Tulare

State: CA

Zip: 93274

Telephone:

Fax:

Cell/Email:

elkcreekdairy@gmail.com

COPY TO:

ariordan@fragservices.com

REQUESTED BY:

Brent Aukeman

PROJECT:

CROP: IRRIGATION WELL

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

JAKE

Description of Samples

1

IW #25

2

3

4

5

6

7

8

9

10

No. Samples:

1

No of Bottles:

2

Water Type:

☐ Drinking Water☐ Wastewater☒ Ag Water☐ Groundwater☐ Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)

() DWW1: EC, NO₃-N NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DCW1: EC, NO₃-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

() Other + TN

Date

Sampled

Time

Sampled

Rec'd
Temp °CField NH₄-N

9/6/23

0925

6.8

3.45mm

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	9/6/23 1205	9/6/23
Second				
Third				
Fourth	Alex Riordan	F&R Ag Services	9-6-23 14:58	

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

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

Investigating Information:

Shipping

Sampling hrs

\$

In

Miles

\$

Out

Consulting

Amt Paid

Rec By

Check #

Date

Signature

Sample received in cooler with ice (coolant)

☒ Yes ☐ No

Paste Label Here



09/06/23 14:50

2310422

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/> _____											
<input type="checkbox"/> Samples re Fridgerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO₃ or H₂SO₄ were:					<input type="checkbox"/> Received Preserved <input checked="" type="checkbox"/> Preserved Upon Receipt at Laboratory						
Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* pH Value										
	250 mL H ₂ SO ₄ (Yellow) Plastic	1									
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
Other:											



Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1718-01	Dom Well North	Ag Water	Jake	Domestic Wells	08/18/2023 7:10
23H1718-02	Dom Well South	Ag Water	Jake	Domestic Wells	08/18/2023 7:18
23H1718-03	Dom Well Middle	Ag Water	Jake	Domestic Wells	08/18/2023 7:23

Default Cooler Temperature on Receipt °C: 2.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

A handwritten signature in black ink that reads "Scott M. Friedland".

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02



Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
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Sample Results

Sample: Dom Well North
23H1718-01 (Water)

Sampled: 8/18/2023 7:10

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	104	mg/L	10.0	1		08/22/23 17:20	SM 2320 B		BEH0992
Calcium	1.7	mg/L	0.1	1		08/24/23 13:47	EPA 200.7		BEH1087
Chloride	26.5	mg/L	0.2	1	250	08/19/23 01:55	EPA 300.0		BEH0943
Carbonate as CaCO₃	22	mg/L	1	1		08/22/23 17:20	SM 2320 B		BEH0992
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/22/23 17:20	SM 2510 B		BEH0992
Electrical Conductivity umhos	309	umhos/cm	10.0	1		08/22/23 17:20	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	82.5	mg/L	5.00	1		08/22/23 17:20	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:47	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:47	EPA 200.7		BEH1087
Sodium	72	mg/L	1	1		08/24/23 13:47	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:10	Field		BEH1020
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/19/23 01:55	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 17:20	SM 2320 B		BEH0992
pH	9.3	units	1.0	1		08/22/23 17:20	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	13.0	mg/L	0.5	1	250	08/19/23 01:55	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	190	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
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Sample Results (Continued)

**Sample: Dom Well South
23H1718-02 (Water)**

Sampled: 8/18/2023 7:18

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	110	mg/L	10.0	1		08/22/23 17:23	SM 2320 B		BEH0992
Calcium	1.8	mg/L	0.1	1		08/24/23 13:48	EPA 200.7		BEH1087
Chloride	26.6	mg/L	0.2	1	250	08/19/23 02:15	EPA 300.0		BEH0943
Carbonate as CaCO₃	20	mg/L	1	1		08/22/23 17:23	SM 2320 B		BEH0992
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/22/23 17:23	SM 2510 B		BEH0992
Electrical Conductivity umhos	308	umhos/cm	10.0	1		08/22/23 17:23	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	90.0	mg/L	5.00	1		08/22/23 17:23	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:48	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:48	EPA 200.7		BEH1087
Sodium	73	mg/L	1	1		08/24/23 13:48	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:18	Field		BEH1020
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/19/23 02:15	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 17:23	SM 2320 B		BEH0992
pH	9.2	units	1.0	1		08/22/23 17:23	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	13.0	mg/L	0.5	1	250	08/19/23 02:15	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	200	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982

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Account# 00-0021435
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Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
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Sample Results (Continued)

**Sample: Dom Well Middle
23H1718-03 (Water)**

Sampled: 8/18/2023 7:23

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	101	mg/L	10.0	1		08/22/23 17:27	SM 2320 B		BEH0992
Calcium	1.8	mg/L	0.1	1		08/24/23 13:49	EPA 200.7		BEH1087
Chloride	26.8	mg/L	0.2	1	250	08/19/23 02:34	EPA 300.0		BEH0943
Carbonate as CaCO₃	17	mg/L	1	1		08/22/23 17:27	SM 2320 B		BEH0992
Electrical Conductivity	0.31	mmhos/cm	0.01	1		08/22/23 17:27	SM 2510 B		BEH0992
Electrical Conductivity umhos	306	umhos/cm	10.0	1		08/22/23 17:27	SM 2510 B		BEH0992
Bicarbonate as CaCO₃	84.3	mg/L	5.00	1		08/22/23 17:27	SM 2320 B		BEH0992
Potassium	ND	mg/L	0.500	1		08/24/23 13:49	EPA 200.7		BEH1087
Magnesium	ND	mg/L	0.1	1		08/24/23 13:49	EPA 200.7		BEH1087
Sodium	73	mg/L	1	1		08/24/23 13:49	EPA 200.7		BEH1087
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 07:23	Field		BEH1020
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/19/23 02:34	EPA 300.0		BEH0943
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 17:27	SM 2320 B		BEH0992
pH	9.1	units	1.0	1		08/22/23 17:27	SM 4500-H+	H	BEH0992
Sulfate (SO₄)	13.0	mg/L	0.5	1	250	08/19/23 02:34	EPA 300.0		BEH0943
Total Filterable Solids (TDS)	195	mg/L	10.0	1		08/24/23 12:07	SM 2540 C		BEH1056

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Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0943									
Blank (BEH0943-BLK1)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK2)				Prepared & Analyzed: 8/18/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK3)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
Blank (BEH0943-BLK4)				Prepared & Analyzed: 8/19/2023					
Chloride	ND	0.2	mg/L						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Sulfate (SO4)	ND	0.5	mg/L						
LCS (BEH0943-BS1)				Prepared & Analyzed: 8/18/2023					
Chloride	4.8	0.2	mg/L	5.000		95.8	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.8	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.8	90-110		
LCS (BEH0943-BS2)				Prepared & Analyzed: 8/19/2023					
Chloride	4.8	0.2	mg/L	5.000		95.4	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.6	90-110		
Sulfate (SO4)	4.6	0.5	mg/L	5.000		91.7	90-110		
LCS (BEH0943-BS3)				Prepared & Analyzed: 8/19/2023					
Chloride	4.7	0.2	mg/L	5.000		94.5	90-110		
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.7	90-110		
Sulfate (SO4)	4.5	0.5	mg/L	5.000		90.3	90-110		
Duplicate (BEH0943-DUP1)				Source: 23H1716-01		Prepared & Analyzed: 8/18/2023			
Chloride	18.9	0.2	mg/L		18.7			0.830	10
Nitrate Nitrogen as NO3N	1.6	0.1	mg/L		1.5			1.23	10
Sulfate (SO4)	32.1	0.5	mg/L		31.7			1.10	10
Duplicate (BEH0943-DUP2)				Source: 23H1716-07		Prepared & Analyzed: 8/19/2023			
Chloride	16.8	0.2	mg/L		16.7			0.625	10
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			1.25	10
Sulfate (SO4)	30.5	0.5	mg/L		30.3			0.773	10

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Submitted By: Brent Aukeman

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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0943 (Continued)									
Duplicate (BEH0943-DUP3)									
Chloride	9.0	0.2	mg/L		9.0			0.266	10
Nitrate Nitrogen as NO3N	1.5	0.1	mg/L		1.5			0.334	10
Sulfate (SO4)	3.5	0.5	mg/L		3.5			0.254	10
Matrix Spike (BEH0943-MS1)									
Chloride	23.7	0.2	mg/L	5.000	18.7	100	90-110		
Nitrate Nitrogen as NO3N	6.6	0.1	mg/L	5.000	1.5	101	90-110		
Sulfate (SO4)	36.8	0.5	mg/L	5.000	31.7	101	90-110		
Matrix Spike (BEH0943-MS2)									
Chloride	21.7	0.2	mg/L	5.000	16.7	99.2	90-110		
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.2	96.3	90-110		
Sulfate (SO4)	35.2	0.5	mg/L	5.000	30.3	97.5	90-110		
Matrix Spike (BEH0943-MS3)									
Chloride	13.9	0.2	mg/L	5.000	9.0	98.4	90-110		
Nitrate Nitrogen as NO3N	6.5	0.1	mg/L	5.000	1.5	101	90-110		
Sulfate (SO4)	8.3	0.5	mg/L	5.000	3.5	95.1	90-110		
Reference (BEH0943-SRM1)									
Chloride	12.2		mg/L	12.50		98.0	90-110		
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.3	90-110		
Sulfate (SO4)	9.4		mg/L	10.00		93.9	90-110		
Reference (BEH0943-SRM2)									
Chloride	12.5		mg/L	12.50		99.8	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
Sulfate (SO4)	9.5		mg/L	10.00		95.3	90-110		
Reference (BEH0943-SRM3)									
Chloride	12.5		mg/L	12.50		99.6	90-110		
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.9	90-110		
Sulfate (SO4)	9.5		mg/L	10.00		95.0	90-110		
Reference (BEH0943-SRM4)									
Chloride	12.4		mg/L	12.50		99.1	90-110		
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.4	90-110		
Sulfate (SO4)	9.4		mg/L	10.00		94.4	90-110		

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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0982									
Blank (BEH0982-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023				
LCS (BEH0982-BS1)									
Total Filterable Solids (TDS)	32.5	10.0	mg/L	2000		1.62	0-200		
Duplicate (BEH0982-DUP1)									
Total Filterable Solids (TDS)	860	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	860		0.00	10
Duplicate (BEH0982-DUP2)									
Total Filterable Solids (TDS)	1050	10.0	mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	1030		1.92	10
Reference (BEH0982-SRM1)									
Total Filterable Solids (TDS)	323		mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	325.0	99.5	90-110	
Reference (BEH0982-SRM2)									
Total Filterable Solids (TDS)	500		mg/L	Prepared: 8/21/2023	Analyzed: 8/23/2023	495.0	101	90-110	

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Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0992

Blank (BEH0992-BLK1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
pH	5.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Blank (BEH0992-BLK2)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Alkalinity as CaCO3	ND	10.0	mg/L						
pH	5.3	1.0	units						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Blank (BEH0992-BLK3)

Prepared: 8/21/2023 Analyzed: 8/22/2023

Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Carbonate as CaCO3	ND	1	mg/L						
Alkalinity as CaCO3	ND	10.0	mg/L						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO3	ND	5.00	mg/L						

Duplicate (BEH0992-DUP1)

Source: 23H1717-01

Prepared: 8/21/2023 Analyzed: 8/22/2023

pH	7.6	1.0	units		7.6		0.132	10
Carbonate as CaCO3	ND	1	mg/L		ND			10
Electrical Conductivity	1.44	0.01	mmhos/cm		1.43		0.662	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10
Alkalinity as CaCO3	315	10.0	mg/L		311		1.01	10
Electrical Conductivity umhos	1440	10.0	umhos/cm		1430		0.662	10

Duplicate (BEH0992-DUP2)

Source: 23H1717-04

Prepared: 8/21/2023 Analyzed: 8/22/2023

Electrical Conductivity	1.42	0.01	mmhos/cm		1.42		0.190	10
Alkalinity as CaCO3	382	10.0	mg/L		386		1.04	10
pH	7.9	1.0	units		7.8		0.893	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND			10
Carbonate as CaCO3	ND	1	mg/L		ND			10
Electrical Conductivity umhos	1420	10.0	umhos/cm		1420		0.190	10

Reference (BEH0992-SRM1)

Prepared: 8/21/2023 Analyzed: 8/22/2023

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0992 (Continued)									
Reference (BEH0992-SRM1)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Electrical Conductivity	527		umhos/cm	538.0		98.0	90-110		
Alkalinity as CaCO ₃	40.6		mg/L	40.60		100	90-110		
Reference (BEH0992-SRM2)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Alkalinity as CaCO ₃	40.5		mg/L	40.60		99.7	90-110		
Electrical Conductivity	533		umhos/cm	538.0		99.0	90-110		
Reference (BEH0992-SRM3)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
Electrical Conductivity	538		umhos/cm	538.0		99.9	90-110		
Alkalinity as CaCO ₃	42.6		mg/L	40.60		105	90-110		
Reference (BEH0992-SRM4)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM5)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEH0992-SRM6)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEH0992-SRM7)				Prepared: 8/21/2023 Analyzed: 8/22/2023					
pH	5.8		units	5.820		100	28178-101.7:		

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18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1056									
Blank (BEH1056-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 8/22/2023 Analyzed: 8/24/2023					
LCS (BEH1056-BS1)									
Total Filterable Solids (TDS)	31.2	10.0	mg/L	2000		1.56	0-200		
Duplicate (BEH1056-DUP1)									
Total Filterable Solids (TDS)	200	10.0	mg/L	Prepared: 8/22/2023 Analyzed: 8/24/2023		198		1.26	10
Duplicate (BEH1056-DUP2)									
Total Filterable Solids (TDS)	810	10.0	mg/L	Prepared: 8/22/2023 Analyzed: 8/24/2023		800		1.24	10
Reference (BEH1056-SRM1)									
Total Filterable Solids (TDS)	320		mg/L	Prepared: 8/22/2023 Analyzed: 8/24/2023		325.0	98.5	90-110	
Reference (BEH1056-SRM2)									
Total Filterable Solids (TDS)	487		mg/L	Prepared: 8/22/2023 Analyzed: 8/24/2023		495.0	98.3	90-110	

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1087									
Blank (BEH1087-BLK1)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Calcium	ND	0.1	mg/L						
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEH1087-BLK2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	ND	1	mg/L						
Potassium	ND	0.500	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEH1087-BS1)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	78	1	mg/L	71.43		110	90-110		
Potassium	75.7	0.500	mg/L	71.43		106	90-110		
Calcium	78.9	0.1	mg/L	71.43		110	90-110		
Magnesium	78.6	0.1	mg/L	71.43		110	90-110		
LCS (BEH1087-BS2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	76	1	mg/L	71.43		107	90-110		
Potassium	72.7	0.500	mg/L	71.43		102	90-110		
Calcium	76.6	0.1	mg/L	71.43		107	90-110		
Magnesium	76.2	0.1	mg/L	71.43		107	90-110		
Duplicate (BEH1087-DUP1)									
				Source: 23H1801-01		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Sodium	69	1	mg/L		71			3.48	15
Potassium	ND	0.500	mg/L		ND				15
Calcium	1.1	0.1	mg/L		1.2			6.53	15
Magnesium	ND	0.1	mg/L		ND				15
Matrix Spike (BEH1087-MS1)									
				Source: 23H1801-01		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Sodium	143	1	mg/L	71.43	71	101	90-110		
Potassium	74.8	0.500	mg/L	71.43	ND	105	90-110		
Calcium	78.5	0.1	mg/L	71.43	1.2	108	90-110		
Magnesium	76.4	0.1	mg/L	71.43	ND	107	90-110		
Matrix Spike (BEH1087-MS2)									
				Source: 23H1827-02		Prepared: 8/22/2023 Analyzed: 8/24/2023			
Sodium	118	1	mg/L	71.43	40	109	90-110		
Calcium	141	0.1	mg/L	71.43	61.8	111	90-110		
Potassium	77.7	0.500	mg/L	71.43	2.38	105	90-110		
Magnesium	100	0.1	mg/L	71.43	22.4	109	90-110		
Reference (BEH1087-SRM2)									
				Prepared: 8/22/2023 Analyzed: 8/24/2023					
Sodium	95		mg/L	91.50		104	90-110		

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Elk Creek Dairy
18017 Road 96
Tulare, CA 93274

Account# 00-0021435
Account Manager: Ben Nydam
Submitted By: Brent Aukeman

Received: 08/18/2023 12:14
Reported: 08/25/2023 10:37

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH1087 (Continued)

Reference (BEH1087-SRM2)

Potassium	22.4	mg/L	21.90	102	90-110
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Prepared: 8/22/2023 Analyzed: 8/24/2023

Reference (BEH1087-SRM3)

Calcium	47.9	mg/L	45.90	104	90-110
Magnesium	37.4	mg/L	35.60	105	90-110

Prepared: 8/22/2023 Analyzed: 8/24/2023

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08/18/23 12:14

23H1718

DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

Acct #

Cons #

Results Need By

Name: Elk Creek Dairy

Address: 18017 Road 96

City: Tulare State: CA Zip: 93274

Telephone: Fax:

Cell/Email: elkcreekdairy@gmail.com

COPY TO: ariordan@fragservices.com

REQUESTED BY: Brent Aukeman

PROJECT:

CROP: DOMESTIC WELLS

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

JAKE

No. Samples:

3

No of Bottles:

Water Type:

☐ Drinking Water☐ Wastewater☒ Ag Water☐ Groundwater☐ Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)

() DWW1: EC, NO₃-N NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DCW1: EC, NO₃-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

() Other

Description of Samples

1 DOM WELL NORTH

2 DOM WELL SOUTH

3 DOM WELL MIDDLE

4

5

6

7

8

9

10

Date
SampledTime
SampledRec'd
Temp °C

Field Notes

8/18/23

0710

2.4

330 min

↓

0718

0.9

↓

0723

1.2

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	8/18/23 1000	8/18/23
Second				
Third				
Fourth			8/18/23 12:14	

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

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

Investigating Information:

Sampling hrs _____ \$ _____ In
Miles _____ \$ _____ Out
Consulting _____

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

☐ Yes ☐ No



08/18/23 12:14

23H1718

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/> _____											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>						
Samples Preserved with HNO₃ or H₂SO₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory											
Type of Container(s) Received		Sample Number									
		1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* pH Value										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1							
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										



Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0428-01	Tule River Canal	Ag Water	Jake	Canal/Surface Water	09/06/2023 7:50
23I0428-02	Elk Creek Bayou	Ag Water	Jake	Canal/Surface Water	09/06/2023 8:15

Default Cooler Temperature on Receipt °C: -1.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

A handwritten signature in black ink, reading 'Scott M. Friedland'.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02



Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Sample Results

Sample: Tule River Canal
23I0428-01 (Water)

Sampled: 9/6/2023 7:50

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.03	mmhos/cm	0.01	1		09/07/23 12:46	SM 2510 B		BEI0144
Electrical Conductivity umhos	25.4	umhos/cm	10.0	1		09/07/23 12:46	SM 2510 B		BEI0144
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	09/07/23 00:53	EPA 300.0		BEI0128
pH	7.2	units	1.0	1		09/07/23 12:46	SM 4500-H+	H	BEI0144
Total Filterable Solids (TDS)	29.0	mg/L	10.0	1		09/08/23 13:57	SM 2540 C		BEI0143
Temperature	25.0	°C	0.0	1		09/07/23 12:46	SM 2510 B		BEI0144
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/08/23 08:48	SM 4500-NH3 C		BEI0148
Total Nitrogen	ND	mg/L	1.00	1		09/08/23 08:48	SM 4500-NH3 C		BEI0148

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Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Sample Results (Continued)

Sample: Elk Creek Bayou
23I0428-02 (Water)

Sampled: 9/6/2023 8:15

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.04	mmhos/cm	0.01	1		09/07/23 12:53	SM 2510 B		BEI0144
Electrical Conductivity umhos	44.4	umhos/cm	10.0	1		09/07/23 12:53	SM 2510 B		BEI0144
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	09/07/23 01:13	EPA 300.0		BEI0128
pH	6.7	units	1.0	1		09/07/23 12:53	SM 4500-H+	H	BEI0144
Total Filterable Solids (TDS)	43.0	mg/L	10.0	1		09/08/23 13:57	SM 2540 C		BEI0143
Temperature	25.0	°C	0.0	1		09/07/23 12:53	SM 2510 B		BEI0144
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/08/23 08:50	SM 4500-NH3 C		BEI0148
Total Nitrogen	ND	mg/L	1.00	1		09/08/23 08:50	SM 4500-NH3 C		BEI0148

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17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0128									
Blank (BEI0128-BLK1)				Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEI0128-BLK2)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEI0128-BS1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0128-DUP1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	4.8				0.273	10
Matrix Spike (BEI0128-MS1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	4.8	120	90-110		
Reference (BEI0128-SRM1)				Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.3	90-110		
Reference (BEI0128-SRM2)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.5	90-110		

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17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0143									
Blank (BEI0143-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L						
Prepared: 9/7/2023 Analyzed: 9/8/2023									
LCS (BEI0143-BS1)									
Total Filterable Solids (TDS)	31.2	10.0	mg/L	2000		1.56	0-200		
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Duplicate (BEI0143-DUP1)									
Total Filterable Solids (TDS)	3150	10.0	mg/L		3120			1.06	10
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Duplicate (BEI0143-DUP2)									
Total Filterable Solids (TDS)	628	10.0	mg/L		615			2.01	10
Prepared: 9/7/2023 Analyzed: 9/8/2023									
Reference (BEI0143-SRM1)									
Total Filterable Solids (TDS)	327		mg/L	325.0		101	90-110		

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Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0144									
Blank (BEI0144-BLK1)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.1	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0144-BLK2)									
Blank (BEI0144-BLK2)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	4.9	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEI0144-BLK3)									
Blank (BEI0144-BLK3)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	4.8	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEI0144-DUP1)									
Duplicate (BEI0144-DUP1)				Source: 23I0136-01		Prepared & Analyzed: 9/7/2023			
pH	7.2	1.0	units		7.2			0.00	10
Electrical Conductivity	0.46	0.01	mmhos/cm		0.46			0.240	10
Electrical Conductivity umhos	458	10.0	umhos/cm		459			0.240	10
Duplicate (BEI0144-DUP2)									
Duplicate (BEI0144-DUP2)				Source: 23I0428-02		Prepared & Analyzed: 9/7/2023			
Electrical Conductivity	0.04	0.01	mmhos/cm		0.04			0.905	10
pH	7.2	1.0	units		6.7			7.45	10
Electrical Conductivity umhos	44.0	10.0	umhos/cm		44.4			0.905	10
Reference (BEI0144-SRM1)									
Reference (BEI0144-SRM1)						Prepared & Analyzed: 9/7/2023			
Electrical Conductivity	525		umhos/cm		538.0	97.6	90-110		
Reference (BEI0144-SRM2)									
Reference (BEI0144-SRM2)						Prepared & Analyzed: 9/7/2023			
pH	5.8		units		5.820	100	28178-101.7:		
Reference (BEI0144-SRM3)									
Reference (BEI0144-SRM3)						Prepared & Analyzed: 9/7/2023			
Electrical Conductivity	986		umhos/cm		1000	98.6	90-110		
Electrical Conductivity umhos	986		umhos/cm		1000	98.6	90-110		
Reference (BEI0144-SRM4)									
Reference (BEI0144-SRM4)						Prepared & Analyzed: 9/7/2023			
Electrical Conductivity	990		umhos/cm		1000	99.0	90-110		
Electrical Conductivity umhos	990		umhos/cm		1000	99.0	90-110		
Reference (BEI0144-SRM5)									
Reference (BEI0144-SRM5)						Prepared & Analyzed: 9/7/2023			
Electrical Conductivity	994		umhos/cm		1000	99.4	90-110		

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17781 Rd 96
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Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0144 (Continued)									
Reference (BEI0144-SRM5)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity umhos	994		umhos/cm	1000		99.4	90-110		
Reference (BEI0144-SRM6)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEI0144-SRM7)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEI0144-SRM8)				Prepared & Analyzed: 9/7/2023					
pH	4.0		units	4.000		100	97.5-102.5		

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Tulare, CA 93274

Account# 00-0015886
Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:45

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0148									
Blank (BEI0148-BLK1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
Blank (BEI0148-BLK2)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	ND	1.00	mg/L						
Total Nitrogen	ND	1.00	mg/L						
LCS (BEI0148-BS1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	5.77	1.00	mg/L	5.709		101	90-110		
LCS (BEI0148-BS2)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	5.72	1.00	mg/L	5.709		100	90-110		
Duplicate (BEI0148-DUP1)				Source: 23I0047-01		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	5.60	3.50	mg/L		5.16			8.17	10
Duplicate (BEI0148-DUP2)				Source: 23I0428-02		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	ND	1.40	mg/L		ND				10
Matrix Spike (BEI0148-MS1)				Source: 23I0047-01		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	15.3	3.50	mg/L	9.990	5.16	101	90-110		
Matrix Spike (BEI0148-MS2)				Source: 23I0428-02		Prepared: 9/7/2023 Analyzed: 9/8/2023			
Kjeldahl Nitrogen (TKN), Total	9.05	1.40	mg/L	7.992	ND	113	90-110		
Reference (BEI0148-SRM1)				Prepared: 9/7/2023 Analyzed: 9/8/2023					
Kjeldahl Nitrogen (TKN), Total	24.2		mg/L	23.80		102	90-110		

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09/06/23 14:50

2310428

DELLAVALLE LABORATORY, INC.

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

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

Purchase Order No

Bill To:

15886

08

Cons #

No. Samples:

2

No of Bottles:

24

Kas 9/6/23

Results Need By

Water Type:

☐ Drinking Water☐ Wastewater☒ Ag Water☐ Groundwater☐ Monitoring Well

Other:

Name: Aukeman Farms Dairy - Tulare

Address: 17781 Road 96

City: Tulare

State: CA

Zip: 93274

Telephone:

Fax:

Cell/Email:

bkaukeman@gmail.com

COPY TO:

ariordan@fragservices.com

REQUESTED BY:

Bob Aukeman

PROJECT:

CROP: CANAL/SURFACE WATER

Analysis and Bottles Required: (Please indicate Analysis)

☐ DWW1: EC, NO₃-NNH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

☒ DCW1: EC, NO₃-N, TKN, TN, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

☐ Other☒ Copy of Chain ☒ QA/QC Documents

Sampled By:

JAKE

Description of Samples

Date
SampledTime
SampledRec'd
Temp °CField NH₄-N

1 TULE RIVER CANAL

9/6/23

0750

-1.3

2 ELK CREEK BAYOV

9/6/23

0815

-0.1

3

4

5

6

7

8

9

10

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Alex Riordan	F&R Ag Services	9/6/23 1205	9/6/23
Second				
Third				
Fourth	Alex Riordan	F&R	9-3-23 14:50	

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

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

Billing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

☒ Yes ☐ No



09/06/23 14:50

2310428

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples re Fridgerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO₃ or H₂SO₄ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory					
Type of Container(s) Received		Sample Number								
		1	2	3	4	5	6	7	8	9
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value	1	1							
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
Other:										