

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: Aukeman Farms

Physical address of dairy:

17297 Road 96

Tulare

Tulare

93274

Number and StreetCityCountyZip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 03/02/2000

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X228-X009-X009-XXXX

B. OPERATORS

Aukeman, Robert

Operator name: Aukeman, Robert

Telephone no.: (559) 686-3627 (559) 737-1411

LandlineCellular

17297 Road 96

Tulare

CA

93274

Mailing Address Number and StreetCityStateZip Code

This operator is responsible for paying permit fees.

C. OWNERS

Aukeman, Robert

Legal owner name: Aukeman, Robert

Telephone no.: (559) 686-3627 (559) 737-1411

LandlineCellular

17297 Road 96

Tulare

CA

93274

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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	415	1,935	840	640	535
Number under roof	3,140	0	0	0	0	0
Maximum number	3,145	420	1,954	842	651	553
Average number	3,140	415	1,935	840	640	535
Avg live weight (lbs)	1,400	1,400	900	650		

Predominant milk cow breed: Holstein
Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 119,861.08 tons per reporting period
Total nitrogen from manure: 1,476,312.03 lbs per reporting period After ammonia losses (30% loss applied): 1,033,418.42 lbs per reporting period
Total phosphorus from manure: 241,521.79 lbs per reporting period
Total potassium from manure: 611,653.87 lbs per reporting period
Total salt from manure: 1,573,898.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 67,189,500 gallons
Total nitrogen generated: 342,397.61 lbs
Total phosphorus generated: 52,348.08 lbs
Total potassium generated: 278,308.56 lbs
Total salt generated: 1,465,621.75 lbs

67,189,500 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 67,189,500 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Elk Creek Bayou	Surface water
IW #10	Ground water
IW #11	Ground water
IW #15	Ground water
IW #16	Ground water

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Source Description	Type
IW #17	Ground water
IW #18	Ground water
IW #19	Ground water
IW #20	Ground water
IW #3	Ground water
IW #4	Ground water
IW #5	Ground water
IW #6	Ground water
IW #7	Ground water
IW #8	Ground water
IW #9	Ground water
Tule River Canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES*No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS**

Date	Material type / Description	Quantity	Reporting basis	Moist. (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/06/2023	Separator solids <i>Separator Solids from Elk Creek Dairy</i>	1,918.00 <i>ton</i>	Dry-weight	74.2	16,700.00	3,000.00	7,900.00		32.40

No process wastewater nutrient imports entered.

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
03/15/2023	Solid commercial fertilizer <i>CAN17</i>	9.00 <i>ton</i>	Dry-weight	0.1	17.000000	0.000000	0.000000	0.000000
04/15/2023	Solid commercial fertilizer <i>15-15-15</i>	9.99 <i>ton</i>	Dry-weight	0.1	15.000000	15.000000	15.000000	0.000000
05/10/2023	Solid commercial fertilizer <i>UN32</i>	23.91 <i>ton</i>	Dry-weight	0.1	32.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	21,338.04	2,994.00	2,994.00	0.00
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 imports for all materials	37,865.83	5,963.07	10,812.54	320,658.91

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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 (%)
04/04/2023	Corral solids	2,334.00 ton	Dry-weight	18.7		12,000.00	3,700.00	17,100.00		0.00
07/18/2023	Corral solids	2,657.85 ton	Dry-weight	26.4		23,200.00	6,000.00	27,300.00		0.00
09/01/2023	Corral solids	4,900.00 ton	Dry-weight	26.4		23,200.00	6,000.00	27,300.00		0.00
10/13/2023	Corral solids	589.00 ton	Dry-weight	26.4		23,200.00	6,000.00	27,300.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	323,759.19	85,994.79	392,281.99	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	323,759.19	85,994.79	392,281.99	0.00

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field #10	75	75	1	manure	X232-X007-X012-XXXX
Field #11	78	78	1	manure	X232-X007-X012-XXXX
Field #14	54	54	2	process wastewater	X228-X001-X008-XXXX
Field #15	77	77	1	process wastewater	X228-X001-X005-XXXX
Field #16	77	77	1	process wastewater	X228-X001-X005-XXXX
Field #2	62	62	2	process wastewater	X228-X009-X009-XXXX
Field #3	113	113	2	process wastewater	X228-X009-X009-XXXX X228-X009-X011-XXXX
Field #4 North	65	65	1	process wastewater	X228-X008-X021-XXXX
Field #4 South	73	73	2	process wastewater	X228-X009-X006-XXXX
Field #5 North	67	67	2	both	X228-X009-X009-XXXX
Field #5 South	66	66	2	both	X228-X009-X009-XXXX
Field #6 North	80	80	2	both	X228-X001-X027-XXXX
Field #6 South	84	84	2	both	X228-X001-X026-XXXX X228-X001-X036-XXXX
Field #7	67	67	1	process wastewater	X228-X001-X022-XXXX X228-X001-X023-XXXX
Field #8	75	75	1	none	X232-X007-X012-XXXX
Field #9	75	75	1	none	X232-X007-X012-XXXX
Totals for areas that were used for application	1,038	1,038	22		
Totals for areas that were not used for application	150	150	2		
Land application area totals	1,188	1,188	24		

B. CROPS AND HARVESTS

Field #10

Field name: Field #10

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12/18/2019: Almond, in shell

Crop: Almond, in shell Acres planted: 75 Plant date: 12/18/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	340.88 ton	As-is		7.5	20,700.00	1,900.00	15,000.00		12.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	5.00	162.50	27.50	176.50	0.00
Total actual harvest content	4.55	188.17	17.27	136.35	1,084.68

Field #11Field name: Field #11

12/18/2019: Almond, in shell

Crop: Almond, in shell Acres planted: 78 Plant date: 12/18/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	354.52 ton	As-is		8.5	20,100.00	2,200.00	15,500.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	5.00	162.50	27.50	176.50	0.00
Total actual harvest content	4.55	182.71	20.00	140.90	781.85

Field #14Field name: Field #14

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

Crop: Wheat, silage, soft dough Acres planted: 54 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,034.36 ton	As-is		71.6	5,200.00	800.00	6,700.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	19.15	199.21	30.65	256.67	1,098.87

05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 54 Plant date: 05/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	1,449.76 ton	As-is		66.4	4,000.00	600.00	5,100.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	26.85	214.78	32.22	273.84	1,190.74

Field #15Field name: Field #15

04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/07/2023	2,593.81 ton	As-is		59.2	4,500.00	800.00	4,800.00		6.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	33.69	303.17	53.90	323.38	1,786.70

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04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	2,745.32 ton	As-is		59.0	4,400.00	900.00	4,800.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	35.65	313.75	64.18	342.27	1,812.62

Field #2Field name: Field #2

11/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 60 Plant date: 11/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	894.52 ton	As-is		71.4	5,300.00	800.00	6,600.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	284.00	48.00	166.00	0.00
Total actual harvest content	14.91	158.03	23.85	196.79	912.47

05/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 05/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	1,242.08 ton	As-is		62.9	5,100.00	800.00	6,600.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	20.70	211.15	33.12	273.26	1,167.39

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11/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 111 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,814.15 <i>ton</i>	As-is		60.5	5,800.00	1,100.00	6,600.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	284.00	48.00	166.00	0.00
Total actual harvest content	16.34	189.59	35.96	215.74	1,278.24

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 111 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 (%)
10/04/2023	3,242.28 <i>ton</i>	As-is		66.4	3,300.00	600.00	5,300.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	29.21	192.78	35.05	309.62	1,158.11

Field #4 NorthField name: Field #4 North

11/16/2017: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 64 Plant date: 11/16/2017

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	596.32 <i>ton</i>	As-is		12.5	34,100.00	2,800.00	20,500.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	9.00	562.50	44.10	462.60	0.00
Total actual harvest content	9.32	635.45	52.18	382.02	1,761.01

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10/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	907.15 <i>ton</i>	As-is		51.3	6,800.00	900.00	9,900.00		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	284.00	48.00	166.00	0.00
Total actual harvest content	12.43	169.00	22.37	246.05	1,609.78

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,000.31 <i>ton</i>	As-is		65.1	4,500.00	800.00	3,000.00		4.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	27.40	246.61	43.84	164.41	918.06

Field #5 NorthField name: Field #5 North

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

Crop: Wheat, silage, soft dough Acres planted: 67 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	1,237.04 <i>ton</i>	As-is		54.2	7,500.00	900.00	9,700.00		10.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	284.00	48.00	166.00	0.00
Total actual harvest content	18.46	276.95	33.23	358.19	1,792.71

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06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 67 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,894.02 ton	As-is		65.1	4,600.00	1,000.00	4,400.00		4.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	28.27	260.07	56.54	248.77	927.39

Field #5 SouthField name: Field #5 South

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

Crop: Wheat, silage, soft dough Acres planted: 66 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,237.04 ton	As-is		58.2	6,700.00	1,000.00	9,500.00		11.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	284.00	48.00	166.00	0.00
Total actual harvest content	18.74	251.16	37.49	356.12	1,786.29

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 66 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,331.93 ton	As-is		56.7	4,400.00	1,300.00	3,900.00		4.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	20.18	177.59	52.47	157.41	734.01

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11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 11/01/2022

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	1,794.23 ton	As-is		72.2	4,900.00	800.00	6,800.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	284.00	48.00	166.00	0.00
Total actual harvest content	22.43	219.79	35.88	305.02	1,259.46

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	2,500.90 ton	As-is		68.1	3,500.00	700.00	4,700.00		5.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	31.26	218.83	43.77	293.86	1,037.12

Field #6 SouthField name: Field #6 South

11/05/2022: Wheat Hay

Crop: Wheat Hay Acres planted: 84 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	441.86 ton	As-is		6.4	15,700.00	2,100.00	15,600.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	6.00	255.60	43.20	149.40	0.00
Total actual harvest content	5.26	165.17	22.09	164.12	1,024.11

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06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 84 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	1,914.57 ton	As-is		61.3	5,300.00	1,100.00	6,800.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	22.79	241.60	50.14	309.98	1,040.84

Field #7Field name: Field #7

04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 67 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/09/2023	2,519.60 ton	As-is		55.6	3,600.00	700.00	4,800.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	291.60	59.40	178.20	0.00
Total actual harvest content	37.61	270.76	52.65	361.02	2,103.83

Field #8Field name: Field #8

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #8**

10/27/2021: Pistachios

Crop: Pistachios Acres planted: 75 Plant date: 10/27/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1.00 ton	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	168.00	18.00	150.00	0.00
Total actual harvest content	0.01	0.00	0.00	0.00	0.00

Field #9Field name: Field #9

10/27/2021: Pistachios

Crop: Pistachios Acres planted: 75 Plant date: 10/27/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	1.00 ton	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	168.00	18.00	150.00	0.00
Total actual harvest content	0.01	0.00	0.00	0.00	0.00

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

NUTRIENT BUDGET**A. LAND APPLICATIONS**

Field #10 - 12/18/2019: Almond, in shell

Field name: Field #10

Crop: Almond, in shell

Plant date: 12/18/2019

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
11/07/2022	Broadcast/incorporate	No precipitation		No precipitation			Light rain	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Drying Solids		Corral solids	94.90	29.39	166.29	5,257.40	348.00 <i>ton</i>	
Application event totals			94.90	29.39	166.29	5,257.40		
01/08/2023	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	1.36	0.00	0.00	39.43	12,220,800.00 <i>gal</i>	
Application event totals			1.36	0.00	0.00	39.43		
01/22/2023	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	
Tule River Canal		Surface water	0.91	0.00	0.00	26.29	8,148,000.00 <i>gal</i>	
Application event totals			0.91	0.00	0.00	26.29		
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	
Tule River Canal		Surface water	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>	
Application event totals			0.68	0.00	0.00	19.72		
02/19/2023	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	
Tule River Canal		Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>	
Application event totals			0.45	0.00	0.00	13.15		

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #10 - 12/18/2019: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/05/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
03/19/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
03/19/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	20.00	0.00	0.00	0.00	
Application event totals		20.00	0.00	0.00	0.00	
04/02/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
04/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
04/30/2023	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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #10 - 12/18/2019: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/14/2023	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
Tule River Canal		Surface water	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>
Application event totals			0.68	0.00	0.00	19.72	
05/14/2023	Sidedress	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32		Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals			100.00	0.00	0.00	0.00	
05/28/2023	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
Tule River Canal		Surface water	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>
Application event totals			0.68	0.00	0.00	19.72	
06/11/2023	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
Tule River Canal		Surface water	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>
Application event totals			0.68	0.00	0.00	19.72	
06/25/2023	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	0.68	0.00	0.00	19.72	6,110,400.00 <i>gal</i>
Application event totals			0.68	0.00	0.00	19.72	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal		Surface water	0.45	0.00	0.00	13.15	4,074,000.00 <i>gal</i>
Application event totals			0.45	0.00	0.00	13.15	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #10 - 12/18/2019: Almond, in shell**

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	
Tule River Canal		Surface water	0.28	0.00	0.00	8.22	2,546,400.00 <i>gal</i>	
Application event totals			0.28	0.00	0.00	8.22		
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	
Tule River Canal		Surface water	0.11	0.00	0.00	3.29	1,018,800.00 <i>gal</i>	
Application event totals			0.11	0.00	0.00	3.29		
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	
Tule River Canal		Surface water	0.34	0.00	0.00	9.86	3,055,200.00 <i>gal</i>	
Application event totals			0.34	0.00	0.00	9.86		
09/03/2023	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	
Tule River Canal		Surface water	0.57	0.00	0.00	16.43	5,091,600.00 <i>gal</i>	
Application event totals			0.57	0.00	0.00	16.43		
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	
Tule River Canal		Surface water	0.57	0.00	0.00	16.43	5,091,600.00 <i>gal</i>	
Application event totals			0.57	0.00	0.00	16.43		

Field #11 - 12/18/2019: Almond, in shellField name: Field #11Crop: Almond, in shellPlant date: 12/18/2019

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 #11 - 12/18/2019: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/10/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Drying Solids	Corral solids	93.87	29.08	164.49	5,200.45	358.00 <i>ton</i>
Application event totals		93.87	29.08	164.49	5,200.45	
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
Tule River Canal	Surface water	1.36	0.00	0.00	39.44	12,710,400.00 <i>gal</i>
Application event totals		1.36	0.00	0.00	39.44	
01/26/2023	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
Tule River Canal	Surface water	0.91	0.00	0.00	26.29	8,473,200.00 <i>gal</i>
Application event totals		0.91	0.00	0.00	26.29	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	
02/21/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
03/07/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #11 - 12/18/2019: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/21/2023	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
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
03/21/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN17	Solid commercial fertilizer	20.00	0.00	0.00	0.00	
Application event totals		20.00	0.00	0.00	0.00	
04/04/2023	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	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
04/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
05/03/2023	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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	
05/17/2023	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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/17/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Solid commercial fertilizer	100.00	0.00	0.00	0.00	
Application event totals		100.00	0.00	0.00	0.00	
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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	
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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	
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
Tule River Canal	Surface water	0.68	0.00	0.00	19.72	6,355,200.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	19.72	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	0.45	0.00	0.00	13.15	4,237,200.00 <i>gal</i>
Application event totals		0.45	0.00	0.00	13.15	
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
Tule River Canal	Surface water	0.28	0.00	0.00	8.22	2,648,400.00 <i>gal</i>
Application event totals		0.28	0.00	0.00	8.22	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #11 - 12/18/2019: Almond, in shell**

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	
Tule River Canal		Surface water	0.11	0.00	0.00	3.29	1,059,600.00 <i>gal</i>	
Application event totals			0.11	0.00	0.00	3.29		
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	
Tule River Canal		Surface water	0.34	0.00	0.00	9.86	3,177,600.00 <i>gal</i>	
Application event totals			0.34	0.00	0.00	9.86		
09/05/2023	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	
Tule River Canal		Surface water	0.57	0.00	0.00	16.43	5,295,600.00 <i>gal</i>	
Application event totals			0.57	0.00	0.00	16.43		
09/19/2023	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	
Tule River Canal		Surface water	0.57	0.00	0.00	16.43	5,295,600.00 <i>gal</i>	
Application event totals			0.57	0.00	0.00	16.43		

Field #14 - 11/28/2022: Wheat, silage, soft doughField name: Field #14Crop: Wheat, silage, soft doughPlant date: 11/28/2022

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
WWS	Process wastewater	115.12	11.63	131.15	759.58	1,920,000.00 <i>gal</i>
IW #8	Ground water	1.36	0.00	0.00	270.00	8,823,960.00 <i>gal</i>
Application event totals		116.49	11.63	131.15	1,029.58	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #14 - 11/28/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/06/2023	Surface (irrigation)	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	126.65	15.39	123.53	723.23	1,872,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	1.07	0.00	0.00	46.05	6,930,000.00 <i>gal</i>
Application event totals		127.72	15.39	123.53	769.28	
02/21/2023	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
Elk Creek Bayou	Surface water	0.71	0.00	0.00	30.50	4,590,000.00 <i>gal</i>
Application event totals		0.71	0.00	0.00	30.50	
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
IW #8	Ground water	0.66	0.00	0.00	131.50	4,297,680.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.65	0.00	0.00	28.11	4,230,000.00 <i>gal</i>
Application event totals		1.32	0.00	0.00	159.61	

Field #14 - 05/29/2023: Corn, silageField name: Field #14Crop: Corn, silagePlant date: 05/29/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	149.30	13.70	154.88	817.14	1,728,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.99	0.00	0.00	42.46	6,390,000.00 <i>gal</i>
Application event totals		150.29	13.70	154.88	859.60	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #14 - 05/29/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Elk Creek Bayou	Surface water	1.11	0.00	0.00	47.84	7,200,000.00 <i>gal</i>
Application event totals		1.11	0.00	0.00	47.84	
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 #8	Ground water	0.86	0.00	0.00	170.67	5,577,840.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.85	0.00	0.00	36.48	5,490,000.00 <i>gal</i>
Application event totals		1.71	0.00	0.00	207.15	
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	112.93	13.57	113.60	786.43	1,488,000.00 <i>gal</i>
IW #8	Ground water	0.66	0.00	0.00	131.50	4,297,680.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.65	0.00	0.00	28.11	4,230,000.00 <i>gal</i>
Application event totals		114.25	13.57	113.60	946.04	
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 #8	Ground water	0.71	0.00	0.00	139.90	4,572,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.70	0.00	0.00	29.90	4,500,000.00 <i>gal</i>
Application event totals		1.40	0.00	0.00	169.80	
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
Elk Creek Bayou	Surface water	0.85	0.00	0.00	36.48	5,490,000.00 <i>gal</i>
Application event totals		0.85	0.00	0.00	36.48	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #14 - 05/29/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
08/17/2023	Surface (irrigation)		No precipitation		Light rain		Steady rain		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Elk Creek Bayou			Surface water		0.99	0.00	0.00	42.46	6,390,000.00 <i>gal</i>
Application event totals					0.99	0.00	0.00	42.46	
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
Elk Creek Bayou			Surface water		0.68	0.00	0.00	29.30	4,410,000.00 <i>gal</i>
Application event totals					0.68	0.00	0.00	29.30	

Field #15 - 04/18/2023: Corn, silageField name: Field #15Crop: Corn, silagePlant date: 04/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/23/2022	Towed tank	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry	Process wastewater sludge	354.47	86.01	119.48	416.42	1,795,500.00 <i>gal</i>
Application event totals		354.47	86.01	119.48	416.42	
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
IW #11	Ground water	0.39	0.00	0.00	92.86	3,600,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.29	0.00	0.00	12.58	2,700,000.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	105.44	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #15 - 04/18/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #8	Ground water	0.22	0.00	0.00	43.17	2,011,680.00 <i>gal</i>
IW #11	Ground water	0.29	0.00	0.00	68.10	2,640,000.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	111.26	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #8	Ground water	0.24	0.00	0.00	48.07	2,240,280.00 <i>gal</i>
IW #11	Ground water	0.32	0.00	0.00	75.83	2,940,000.00 <i>gal</i>
Application event totals		0.56	0.00	0.00	123.91	
06/06/2023	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
IW #11	Ground water	0.65	0.00	0.00	154.76	6,000,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.49	0.00	0.00	20.97	4,500,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	175.73	
06/20/2023	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 #11	Ground water	0.64	0.00	0.00	151.67	5,880,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.48	0.00	0.00	20.55	4,410,000.00 <i>gal</i>
Application event totals		1.12	0.00	0.00	172.22	
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 #8	Ground water	0.51	0.00	0.00	100.07	4,663,440.00 <i>gal</i>
IW #11	Ground water	0.66	0.00	0.00	157.86	6,120,000.00 <i>gal</i>
Application event totals		1.17	0.00	0.00	257.93	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/18/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #8		Ground water	0.50	0.00	0.00	98.11	4,572,000.00 <i>gal</i>	
IW #11		Ground water	0.65	0.00	0.00	154.76	6,000,000.00 <i>gal</i>	
Application event totals			1.15	0.00	0.00	252.87		
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 #8		Ground water	0.20	0.00	0.00	39.24	1,828,800.00 <i>gal</i>	
IW #11		Ground water	0.26	0.00	0.00	61.90	2,400,000.00 <i>gal</i>	
Application event totals			0.46	0.00	0.00	101.15		

Field #16 - 04/18/2023: Corn, silageField name: Field #16Crop: Corn, silagePlant date: 04/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/20/2022	Towed tank	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry	Process wastewater sludge	352.59	85.55	118.85	414.22	1,786,000.00 <i>gal</i>
Application event totals		352.59	85.55	118.85	414.22	
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 #11	Ground water	0.39	0.00	0.00	92.86	3,600,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.29	0.00	0.00	12.58	2,700,000.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	105.44	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #16 - 04/18/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/09/2023	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 #8	Ground water	0.22	0.00	0.00	43.17	2,011,680.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.29	0.00	0.00	12.30	2,640,000.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	55.47	
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #9	Ground water	6.47	0.00	0.00	125.92	1,889,250.00 <i>gal</i>
IW #11	Ground water	0.36	0.00	0.00	85.12	3,300,000.00 <i>gal</i>
Application event totals		6.83	0.00	0.00	211.04	
06/08/2023	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
IW #11	Ground water	0.65	0.00	0.00	154.76	6,000,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.49	0.00	0.00	20.97	4,500,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	175.73	
06/22/2023	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 #11	Ground water	0.66	0.00	0.00	157.86	6,120,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.50	0.00	0.00	21.39	4,590,000.00 <i>gal</i>
Application event totals		1.16	0.00	0.00	179.25	
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 #8	Ground water	0.49	0.00	0.00	96.15	4,480,560.00 <i>gal</i>
IW #11	Ground water	0.64	0.00	0.00	151.67	5,880,000.00 <i>gal</i>
Application event totals		1.12	0.00	0.00	247.81	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #9	Ground water	12.94	0.00	0.00	251.84	3,778,500.00 <i>gal</i>
IW #11	Ground water	0.72	0.00	0.00	170.24	6,600,000.00 <i>gal</i>
Application event totals		13.66	0.00	0.00	422.08	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #8	Ground water	0.20	0.00	0.00	39.24	1,828,800.00 <i>gal</i>
IW #11	Ground water	0.26	0.00	0.00	61.90	2,400,000.00 <i>gal</i>
Application event totals		0.46	0.00	0.00	101.15	

Field #2 - 11/29/2022: Wheat, silage, soft doughField name: Field #2Crop: Wheat, silage, soft doughPlant date: 11/29/2022

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 #4	Ground water	21.78	0.00	0.00	538.25	9,000,000.00 <i>gal</i>
Application event totals		21.78	0.00	0.00	538.25	
10/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry	Process wastewater sludge	180.51	43.80	60.85	212.07	712,500.00 <i>gal</i>
Application event totals		180.51	43.80	60.85	212.07	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #2 - 11/29/2022: Wheat, silage, soft dough**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
01/20/2023	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	1.27	0.00	0.00	36.78	9,120,000.00 <i>gal</i>	
Application event totals			1.27	0.00	0.00	36.78		
02/17/2023	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	
Tule River Canal		Surface water	1.05	0.00	0.00	30.49	7,560,000.00 <i>gal</i>	
Application event totals			1.05	0.00	0.00	30.49		
04/14/2023	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	
Tule River Canal		Surface water	1.13	0.00	0.00	32.91	8,160,000.00 <i>gal</i>	
Application event totals			1.13	0.00	0.00	32.91		

Field #2 - 05/23/2023: Corn, silageField name: Field #2Crop: Corn, silagePlant date: 05/23/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/12/2023	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	
WWS		Process wastewater	145.57	13.36	151.01	796.71	1,872,000.00 <i>gal</i>	
Tule River Canal		Surface water	0.82	0.00	0.00	23.72	5,880,000.00 <i>gal</i>	
Application event totals			146.39	13.36	151.01	820.43		
06/15/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tule River Canal		Surface water	1.24	0.00	0.00	35.82	8,880,000.00 <i>gal</i>	
Application event totals			1.24	0.00	0.00	35.82		

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #2 - 05/23/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/21/2023	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
Tule River Canal	Surface water	1.32	0.00	0.00	38.24	9,480,000.00 <i>gal</i>
Application event totals		1.32	0.00	0.00	38.24	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	104.91	12.60	105.53	730.62	1,536,000.00 <i>gal</i>
Tule River Canal	Surface water	1.35	0.00	0.00	39.20	9,720,000.00 <i>gal</i>
Application event totals		106.27	12.60	105.53	769.83	
07/17/2023	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
Tule River Canal	Surface water	0.78	0.00	0.00	22.75	5,640,000.00 <i>gal</i>
Application event totals		0.78	0.00	0.00	22.75	
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
Tule River Canal	Surface water	1.08	0.00	0.00	31.46	7,800,000.00 <i>gal</i>
Application event totals		1.08	0.00	0.00	31.46	
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
Tule River Canal	Surface water	1.24	0.00	0.00	35.82	8,880,000.00 <i>gal</i>
Application event totals		1.24	0.00	0.00	35.82	
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
Tule River Canal	Surface water	1.00	0.00	0.00	29.04	7,200,000.00 <i>gal</i>
Application event totals		1.00	0.00	0.00	29.04	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #3 - 11/23/2022: Wheat, silage, soft dough**Field name: Field #3Crop: Wheat, silage, soft doughPlant date: 11/23/2022

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 #4		Ground water	17.27	0.00	0.00	426.72	13,200,000.00 <i>gal</i>	
Application event totals			17.27	0.00	0.00	426.72		
10/25/2022	Towed tank	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Slurry		Process wastewater sludge	182.14	44.20	61.39	213.98	1,330,000.00 <i>gal</i>	
Application event totals			182.14	44.20	61.39	213.98		
01/30/2023	Surface (irrigation)	Light rain		No precipitation			Light rain	
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	32.70	15,000,000.00 <i>gal</i>	
Application event totals			1.13	0.00	0.00	32.70		
02/18/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tule River Canal		Surface water	0.65	0.00	0.00	18.84	8,640,000.00 <i>gal</i>	
Application event totals			0.65	0.00	0.00	18.84		
04/17/2023	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	
Tule River Canal		Surface water	1.52	0.00	0.00	44.21	20,280,000.00 <i>gal</i>	
Application event totals			1.52	0.00	0.00	44.21		

Field #3 - 06/14/2023: Corn, silageField name: Field #3Crop: Corn, silagePlant date: 06/14/2023

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #3 - 06/14/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/28/2023	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	145.27	13.33	150.70	795.06	3,456,000.00 <i>gal</i>
Tule River Canal	Surface water	1.47	0.00	0.00	42.65	19,560,000.00 <i>gal</i>
Application event totals		146.74	13.33	150.70	837.70	
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
Tule River Canal	Surface water	1.08	0.00	0.00	31.40	14,400,000.00 <i>gal</i>
Application event totals		1.08	0.00	0.00	31.40	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	101.02	12.14	101.61	703.47	2,736,000.00 <i>gal</i>
Tule River Canal	Surface water	0.51	0.00	0.00	14.91	6,840,000.00 <i>gal</i>
Application event totals		101.53	12.14	101.61	718.38	
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
Tule River Canal	Surface water	1.09	0.00	0.00	31.66	14,520,000.00 <i>gal</i>
Application event totals		1.09	0.00	0.00	31.66	
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
Tule River Canal	Surface water	1.50	0.00	0.00	43.43	19,920,000.00 <i>gal</i>
Application event totals		1.50	0.00	0.00	43.43	
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
Tule River Canal	Surface water	1.06	0.00	0.00	30.87	14,160,000.00 <i>gal</i>
Application event totals		1.06	0.00	0.00	30.87	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #3 - 06/14/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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	
	Tule River Canal	Surface water	1.47	0.00	0.00	42.65	19,560,000.00 <i>gal</i>	
	Application event totals		1.47	0.00	0.00	42.65		
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	
	Tule River Canal	Surface water	0.85	0.00	0.00	24.59	11,280,000.00 <i>gal</i>	
	Application event totals		0.85	0.00	0.00	24.59		

Field #4 North - 11/16/2017: Alfalfa, hayField name: Field #4 NorthCrop: Alfalfa, hayPlant date: 11/16/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/13/2022	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	278.49	28.30	336.51	902.51	4,944,000.00 <i>gal</i>
IW #6	Ground water	1.27	0.00	0.00	272.00	9,702,600.00 <i>gal</i>
IW #7	Ground water	16.66	0.00	0.00	451.51	3,361,920.00 <i>gal</i>
Application event totals		296.41	28.30	336.51	1,626.03	
05/01/2023	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
IW #6	Ground water	1.52	0.00	0.00	327.46	11,680,800.00 <i>gal</i>
IW #7	Ground water	20.05	0.00	0.00	543.57	4,047,360.00 <i>gal</i>
Application event totals		21.58	0.00	0.00	871.03	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #4 North - 11/16/2017: Alfalfa, hay**

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 #6	Ground water	1.54	0.00	0.00	330.10	11,775,000.00 <i>gal</i>
IW #7	Ground water	20.22	0.00	0.00	547.95	4,080,000.00 <i>gal</i>
Application event totals		21.75	0.00	0.00	878.05	
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 #6	Ground water	0.98	0.00	0.00	211.26	7,536,000.00 <i>gal</i>
IW #7	Ground water	12.94	0.00	0.00	350.69	2,611,200.00 <i>gal</i>
Application event totals		13.92	0.00	0.00	561.95	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #6	Ground water	1.04	0.00	0.00	224.47	8,007,000.00 <i>gal</i>
IW #7	Ground water	13.74	0.00	0.00	372.55	2,774,000.00 <i>gal</i>
Application event totals		14.79	0.00	0.00	597.02	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	1.30	0.00	0.00	37.66	9,960,000.00 <i>gal</i>
Application event totals		1.30	0.00	0.00	37.66	

Field #4 South - 10/28/2022: Wheat, silage, soft doughField name: Field #4 SouthCrop: Wheat, silage, soft doughPlant date: 10/28/2022

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 #4 South - 10/28/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/17/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #6		Ground water	0.95	0.00	0.00	203.74	8,289,600.00 <i>gal</i>
IW #7		Ground water	12.48	0.00	0.00	338.20	2,872,320.00 <i>gal</i>
Application event totals			13.42	0.00	0.00	541.94	
01/24/2023	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	187.38	22.77	182.75	1,069.99	3,744,000.00 <i>gal</i>
Tule River Canal		Surface water	1.25	0.00	0.00	36.20	10,920,000.00 <i>gal</i>
Application event totals			188.62	22.77	182.75	1,106.19	
03/04/2023	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
Tule River Canal		Surface water	0.81	0.00	0.00	23.47	7,080,000.00 <i>gal</i>
Application event totals			0.81	0.00	0.00	23.47	
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
Tule River Canal		Surface water	0.67	0.00	0.00	19.49	5,880,000.00 <i>gal</i>
Application event totals			0.67	0.00	0.00	19.49	

Field #4 South - 06/22/2023: Corn, silageField name: Field #4 SouthCrop: Corn, silage Plant date: 06/22/2023

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 #4 South - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/05/2023	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	98.17	9.01	101.84	537.30	1,536,000.00 <i>gal</i>
IW #6	Ground water	0.87	0.00	0.00	187.53	7,630,200.00 <i>gal</i>
IW #7	Ground water	11.48	0.00	0.00	311.30	2,643,840.00 <i>gal</i>
Application event totals		110.53	9.01	101.84	1,036.13	
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
IW #6	Ground water	1.01	0.00	0.00	217.63	8,854,800.00 <i>gal</i>
Application event totals		1.01	0.00	0.00	217.63	
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
WWS	Process wastewater	86.23	10.36	86.74	600.51	1,536,000.00 <i>gal</i>
IW #6	Ground water	1.04	0.00	0.00	224.58	9,137,400.00 <i>gal</i>
IW #7	Ground water	13.75	0.00	0.00	372.79	3,166,080.00 <i>gal</i>
Application event totals		101.03	10.36	86.74	1,197.88	
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 #6	Ground water	0.79	0.00	0.00	169.01	6,876,600.00 <i>gal</i>
IW #7	Ground water	10.35	0.00	0.00	280.55	2,382,720.00 <i>gal</i>
Application event totals		11.14	0.00	0.00	449.56	
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
Tule River Canal	Surface water	0.99	0.00	0.00	28.64	8,640,000.00 <i>gal</i>
Application event totals		0.99	0.00	0.00	28.64	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #4 South - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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 #6		Ground water	0.79	0.00	0.00	169.01	6,876,600.00 <i>gal</i>
IW #7		Ground water	10.35	0.00	0.00	280.55	2,382,720.00 <i>gal</i>
Application event totals			11.14	0.00	0.00	449.56	
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
WWS		Process wastewater	83.54	10.04	84.03	581.74	1,488,000.00 <i>gal</i>
Tule River Canal		Surface water	1.28	0.00	0.00	37.00	11,160,000.00 <i>gal</i>
Application event totals			84.81	10.04	84.03	618.74	

Field #5 North - 11/06/2022: Wheat, silage, soft doughField name: Field #5 NorthCrop: Wheat, silage, soft doughPlant date: 11/06/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/15/2023	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
WWS	Process wastewater	151.81	18.45	148.06	866.88	2,784,000.00 <i>gal</i>
Tule River Canal	Surface water	1.30	0.00	0.00	37.71	10,440,000.00 <i>gal</i>
Application event totals		153.11	18.45	148.06	904.59	
03/02/2023	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	183.22	22.26	178.70	1,046.24	3,360,000.00 <i>gal</i>
Tule River Canal	Surface water	1.39	0.00	0.00	40.31	11,160,000.00 <i>gal</i>
Application event totals		184.61	22.26	178.70	1,086.55	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #5 North - 11/06/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/27/2023	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
Tule River Canal	Surface water	1.24	0.00	0.00	35.98	9,960,000.00 <i>gal</i>
Application event totals		1.24	0.00	0.00	35.98	

Field #5 North - 06/19/2023: Corn, silageField name: Field #5 NorthCrop: Corn, silagePlant date: 06/19/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/30/2023	Broadcast/incorporate	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Separator Solids		Separator solids	190.33	26.05	62.11	1,833.17	1,645.00 <i>ton</i>	
Application event totals			190.33	26.05	62.11	1,833.17		
06/04/2023	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	116.99	10.73	121.36	640.30	1,680,000.00 <i>gal</i>	
Tule River Canal		Surface water	1.32	0.00	0.00	38.14	10,560,000.00 <i>gal</i>	
Application event totals			118.31	10.73	121.36	678.44		
07/09/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tule River Canal		Surface water	1.21	0.00	0.00	35.11	9,720,000.00 <i>gal</i>	
Application event totals			1.21	0.00	0.00	35.11		
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	
Tule River Canal		Surface water	1.29	0.00	0.00	37.28	10,320,000.00 <i>gal</i>	
Application event totals			1.29	0.00	0.00	37.28		

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #5 North - 06/19/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	1.14	0.00	0.00	32.94	9,120,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	32.94	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	1.06	0.00	0.00	30.85	8,540,000.00 <i>gal</i>
Application event totals		1.06	0.00	0.00	30.85	
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
Tule River Canal	Surface water	1.24	0.00	0.00	35.98	9,960,000.00 <i>gal</i>
Application event totals		1.24	0.00	0.00	35.98	
09/05/2023	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
Tule River Canal	Surface water	0.90	0.00	0.00	26.01	7,200,000.00 <i>gal</i>
Application event totals		0.90	0.00	0.00	26.01	
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
Tule River Canal	Surface water	0.73	0.00	0.00	21.24	5,880,000.00 <i>gal</i>
Application event totals		0.73	0.00	0.00	21.24	

Field #5 South - 11/06/2022: Wheat, silage, soft doughField name: Field #5 SouthCrop: Wheat, silage, soft doughPlant date: 11/06/2022

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 #5 South - 11/06/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
01/12/2023	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	124.88	15.18	121.80	713.12	2,256,000.00 <i>gal</i>
Tule River Canal		Surface water	0.71	0.00	0.00	20.68	5,640,000.00 <i>gal</i>
Application event totals			125.59	15.18	121.80	733.80	
02/10/2023	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
Tule River Canal		Surface water	1.47	0.00	0.00	42.68	11,640,000.00 <i>gal</i>
Application event totals			1.47	0.00	0.00	42.68	
02/24/2023	Surface (irrigation)	No precipitation		Steady rain			Light rain
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS		Process wastewater	183.34	22.28	178.81	1,046.92	3,312,000.00 <i>gal</i>
Tule River Canal		Surface water	1.05	0.00	0.00	30.36	8,280,000.00 <i>gal</i>
Application event totals			184.38	22.28	178.81	1,077.28	
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
Tule River Canal		Surface water	1.06	0.00	0.00	30.80	8,400,000.00 <i>gal</i>
Application event totals			1.06	0.00	0.00	30.80	

Field #5 South - 06/19/2023: Corn, silageField name: Field #5 SouthCrop: Corn, silage Plant date: 06/19/2023

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 #5 South - 06/19/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids		Separator solids	145.06	19.85	47.33	1,397.12	1,235.00 <i>ton</i>
Application event totals			145.06	19.85	47.33	1,397.12	
06/07/2023	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
Tule River Canal		Surface water	1.27	0.00	0.00	36.96	10,080,000.00 <i>gal</i>
Application event totals			1.27	0.00	0.00	36.96	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal		Surface water	1.43	0.00	0.00	41.58	11,340,000.00 <i>gal</i>
Application event totals			1.43	0.00	0.00	41.58	
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
WWS		Process wastewater	83.45	10.03	83.95	581.18	1,344,000.00 <i>gal</i>
Tule River Canal		Surface water	1.26	0.00	0.00	36.52	9,960,000.00 <i>gal</i>
Application event totals			84.71	10.03	83.95	617.70	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal		Surface water	0.73	0.00	0.00	21.12	5,760,000.00 <i>gal</i>
Application event totals			0.73	0.00	0.00	21.12	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal		Surface water	1.12	0.00	0.00	32.56	8,880,000.00 <i>gal</i>
Application event totals			1.12	0.00	0.00	32.56	

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #5 South - 06/19/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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	
Tule River Canal		Surface water	1.27	0.00	0.00	36.96	10,080,000.00 <i>gal</i>	
Application event totals			1.27	0.00	0.00	36.96		
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	
Tule River Canal		Surface water	0.90	0.00	0.00	25.96	7,080,000.00 <i>gal</i>	
Application event totals			0.90	0.00	0.00	25.96		
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	
Tule River Canal		Surface water	0.77	0.00	0.00	22.44	6,120,000.00 <i>gal</i>	
Application event totals			0.77	0.00	0.00	22.44		

Field #6 North - 11/01/2022: Wheat, silage, soft doughField name: Field #6 NorthCrop: Wheat, silage, soft doughPlant date: 11/01/2022

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 #8	Ground water	0.53	0.00	0.00	105.76	5,120,640.00 <i>gal</i>
IW #11	Ground water	0.70	0.00	0.00	166.83	6,720,000.00 <i>gal</i>
Application event totals		1.24	0.00	0.00	272.59	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
12/27/2022	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
WWS		Process wastewater	144.92	14.73	175.11	469.66	3,216,000.00 <i>gal</i>
Tule River Canal		Surface water	0.84	0.00	0.00	24.32	8,040,000.00 <i>gal</i>
Application event totals			145.76	14.73	175.11	493.98	
02/07/2023	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	135.91	16.52	132.56	776.09	2,976,000.00 <i>gal</i>
Tule River Canal		Surface water	0.98	0.00	0.00	28.31	9,360,000.00 <i>gal</i>
Application event totals			136.88	16.52	132.56	804.40	
02/24/2023	Surface (irrigation)	No precipitation		Steady rain			Light rain
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal		Surface water	0.86	0.00	0.00	25.05	8,280,000.00 <i>gal</i>
Application event totals			0.86	0.00	0.00	25.05	
04/23/2023	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 #8		Ground water	0.44	0.00	0.00	86.88	4,206,240.00 <i>gal</i>
IW #11		Ground water	0.58	0.00	0.00	137.04	5,520,000.00 <i>gal</i>
Application event totals			1.01	0.00	0.00	223.92	

Field #6 North - 06/04/2023: Corn, silageField name: Field #6 NorthCrop: Corn, silagePlant date: 06/04/2023

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/17/2023	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
Tule River Canal	Surface water	1.11	0.00	0.00	32.31	10,680,000.00 <i>gal</i>
Application event totals		1.11	0.00	0.00	32.31	
05/26/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids	Separator solids	158.24	21.65	51.64	1,524.08	1,633.00 <i>ton</i>
Application event totals		158.24	21.65	51.64	1,524.08	
06/21/2023	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
Tule River Canal	Surface water	1.00	0.00	0.00	29.04	9,600,000.00 <i>gal</i>
Application event totals		1.00	0.00	0.00	29.04	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	106.04	12.74	106.67	738.47	2,070,000.00 <i>gal</i>
IW #8	Ground water	0.54	0.00	0.00	107.65	5,212,080.00 <i>gal</i>
Tule River Canal	Surface water	0.71	0.00	0.00	20.69	6,840,000.00 <i>gal</i>
Application event totals		107.30	12.74	106.67	866.81	
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
IW #8	Ground water	0.58	0.00	0.00	115.20	5,577,840.00 <i>gal</i>
IW #11	Ground water	0.76	0.00	0.00	181.73	7,320,000.00 <i>gal</i>
Application event totals		1.35	0.00	0.00	296.93	

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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	
IW #8		Ground water	0.38	0.00	0.00	75.54	3,657,600.00 <i>gal</i>	
IW #11		Ground water	0.50	0.00	0.00	119.17	4,800,000.00 <i>gal</i>	
Application event totals			0.88	0.00	0.00	194.71		
08/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #8		Ground water	0.47	0.00	0.00	92.54	4,480,560.00 <i>gal</i>	
Tule River Canal		Surface water	0.61	0.00	0.00	17.79	5,880,000.00 <i>gal</i>	
Application event totals			1.08	0.00	0.00	110.33		
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	
IW #8		Ground water	0.52	0.00	0.00	101.98	4,937,760.00 <i>gal</i>	
Tule River Canal		Surface water	0.68	0.00	0.00	19.60	6,480,000.00 <i>gal</i>	
Application event totals			1.19	0.00	0.00	121.59		
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 #8		Ground water	0.54	0.00	0.00	107.65	5,212,080.00 <i>gal</i>	
Tule River Canal		Surface water	0.71	0.00	0.00	20.69	6,840,000.00 <i>gal</i>	
Application event totals			1.26	0.00	0.00	128.34		

Field #6 South - 11/05/2022: Wheat HayField name: Field #6 SouthCrop: Wheat HayPlant date: 11/05/2022

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 #6 South - 11/05/2022: Wheat Hay**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/14/2023	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	119.00	14.46	116.06	679.52	2,736,000.00 <i>gal</i>
Tule River Canal	Surface water	1.60	0.00	0.00	46.33	16,080,000.00 <i>gal</i>
Application event totals		120.60	14.46	116.06	725.85	
02/10/2023	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
Tule River Canal	Surface water	1.35	0.00	0.00	39.07	13,560,000.00 <i>gal</i>
Application event totals		1.35	0.00	0.00	39.07	
02/27/2023	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	100.21	12.18	97.74	572.23	2,304,000.00 <i>gal</i>
Tule River Canal	Surface water	0.86	0.00	0.00	24.89	8,640,000.00 <i>gal</i>
Application event totals		101.07	12.18	97.74	597.12	

Field #6 South - 06/25/2023: Corn, silageField name: Field #6 SouthCrop: Corn, silagePlant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/06/2023	Broadcast/incorporate	No precipitation		No precipitation		Light rain	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Separator Solids Import ECD		Separator solids	196.76	35.35	93.08	3,817.37	1,918.00 <i>ton</i>
Application event totals			196.76	35.35	93.08	3,817.37	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/11/2023	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
Tule River Canal	Surface water	1.20	0.00	0.00	34.92	12,120,000.00 <i>gal</i>
Application event totals		1.20	0.00	0.00	34.92	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	1.48	0.00	0.00	42.87	14,880,000.00 <i>gal</i>
Application event totals		1.48	0.00	0.00	42.87	
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
IW #8	Ground water	0.59	0.00	0.00	116.91	5,943,600.00 <i>gal</i>
IW #11	Ground water	0.77	0.00	0.00	184.42	7,800,000.00 <i>gal</i>
Application event totals		1.37	0.00	0.00	301.34	
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
WWS	Process wastewater	110.07	13.22	110.72	766.50	2,256,000.00 <i>gal</i>
IW #8	Ground water	0.56	0.00	0.00	111.52	5,669,280.00 <i>gal</i>
IW #11	Ground water	0.74	0.00	0.00	175.91	7,440,000.00 <i>gal</i>
Application event totals		111.37	13.22	110.72	1,053.93	
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
Tule River Canal	Surface water	1.00	0.00	0.00	29.04	10,080,000.00 <i>gal</i>
Application event totals		1.00	0.00	0.00	29.04	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
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 #8		Ground water	0.45	0.00	0.00	89.93	4,572,000.00 <i>gal</i>
IW #11		Ground water	0.60	0.00	0.00	141.87	6,000,000.00 <i>gal</i>
Application event totals			1.05	0.00	0.00	231.80	
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 #8		Ground water	0.58	0.00	0.00	115.11	5,852,160.00 <i>gal</i>
IW #11		Ground water	0.76	0.00	0.00	181.59	7,680,000.00 <i>gal</i>
Application event totals			1.34	0.00	0.00	296.70	

Field #7 - 04/18/2023: Corn, silageField name: Field #7Crop: Corn, silagePlant date: 04/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/18/2022	Towed tank	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Slurry	Process wastewater sludge	321.15	77.93	108.25	377.29	1,415,500.00 <i>gal</i>
Application event totals		321.15	77.93	108.25	377.29	
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 #11	Ground water	0.39	0.00	0.00	92.49	3,120,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.29	0.00	0.00	12.53	2,340,000.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	105.02	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/07/2023	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 #8	Ground water	0.22	0.00	0.00	43.97	1,783,080.00 <i>gal</i>
IW #11	Ground water	0.29	0.00	0.00	69.37	2,340,000.00 <i>gal</i>
Application event totals		0.51	0.00	0.00	113.34	
05/21/2023	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 #9	Ground water	6.49	0.00	0.00	126.30	1,648,800.00 <i>gal</i>
IW #11	Ground water	0.36	0.00	0.00	85.37	2,880,000.00 <i>gal</i>
Application event totals		6.85	0.00	0.00	211.67	
06/04/2023	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 #11	Ground water	0.65	0.00	0.00	154.74	5,220,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.49	0.00	0.00	20.97	3,915,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	175.71	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #11	Ground water	0.65	0.00	0.00	154.74	5,220,000.00 <i>gal</i>
Elk Creek Bayou	Surface water	0.49	0.00	0.00	20.97	3,915,000.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	175.71	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW #8	Ground water	0.49	0.00	0.00	96.97	3,931,920.00 <i>gal</i>
IW #11	Ground water	0.64	0.00	0.00	152.96	5,160,000.00 <i>gal</i>
Application event totals		1.13	0.00	0.00	249.93	

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Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
IW #9		Ground water	12.98	0.00	0.00	252.59	3,297,600.00 <i>gal</i>	
IW #11		Ground water	0.72	0.00	0.00	170.75	5,760,000.00 <i>gal</i>	
Application event totals			13.70	0.00	0.00	423.34		
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 #8		Ground water	0.19	0.00	0.00	38.34	1,554,480.00 <i>gal</i>	
IW #11		Ground water	0.25	0.00	0.00	60.47	2,040,000.00 <i>gal</i>	
Application event totals			0.45	0.00	0.00	98.81		

Field #8 - 10/27/2021: PistachiosField name: Field #8Crop: PistachiosPlant date: 10/27/2021

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
04/16/2023	Sidedress		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-15-15			Solid commercial fertilizer		20.00	20.00	20.00	0.00	
Application event totals					20.00	20.00	20.00	0.00	
10/08/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal			Surface water		7.26	0.00	0.00	210.52	65,241,600.00 <i>gal</i>
Application event totals					7.26	0.00	0.00	210.52	

Field #9 - 10/27/2021: Pistachios

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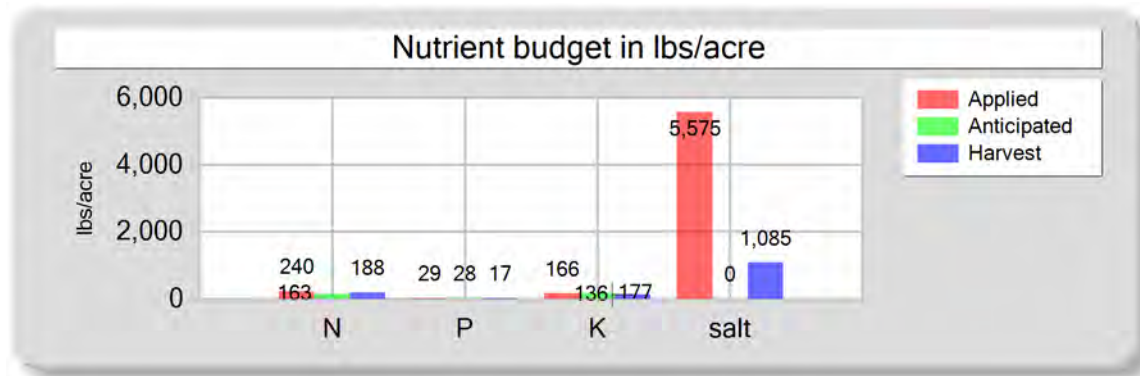
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/18/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15-15-15	Solid commercial fertilizer	20.00	20.00	20.00	0.00	
Application event totals		20.00	20.00	20.00	0.00	
10/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Surface water	7.26	0.00	0.00	210.52	65,241,600.00 <i>gal</i>
Application event totals		7.26	0.00	0.00	210.52	

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

B. NUTRIENT BUDGET

Field #10 - 12/18/2019: Almond, in shell

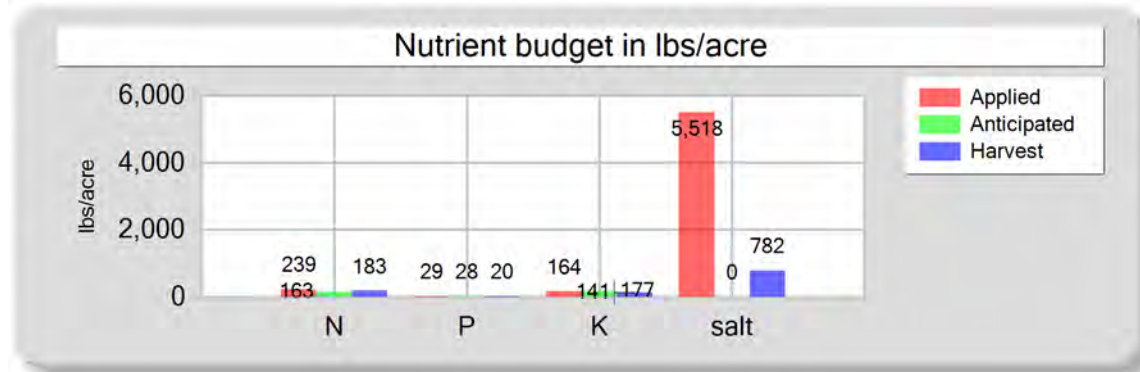
Field name: Field #10Crop: Almond, in shellPlant date: 12/18/2019

	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	98,278,800.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,619.27 <i>acre-inches</i>
Commercial fertilizer / Other	120.00	0.00	0.00	0.00	48.26 <i>inches/acre</i>
Dry manure	94.90	29.39	166.29	5,257.40	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	10.94	0.00	0.00	317.12	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	239.84	29.39	166.29	5,574.52	
Anticipated crop nutrient removal	162.50	27.50	176.50	0.00	
Actual crop nutrient removal	188.17	17.27	136.35	1,084.68	
Nutrient balance	51.67	12.12	29.94	4,489.84	
Applied to removed ratio	1.27	1.70	1.22	5.14	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <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 #11 - 12/18/2019: Almond, in shell

Field name: Field #11Crop: Almond, in shellPlant date: 12/18/2019

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	120.00	0.00	0.00	0.00
Dry manure	93.87	29.08	164.49	5,200.45
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.94	0.00	0.00	317.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	238.81	29.08	164.49	5,517.59
Anticipated crop nutrient removal	162.50	27.50	176.50	0.00
Actual crop nutrient removal	182.71	20.00	140.90	781.85
Nutrient balance	56.10	9.08	23.59	4,735.74
Applied to removed ratio	1.31	1.45	1.17	7.06

Fresh water applied
102,214,800.00 <i>gallons</i>
3,764.22 <i>acre-inches</i>
48.26 <i>inches/acre</i>

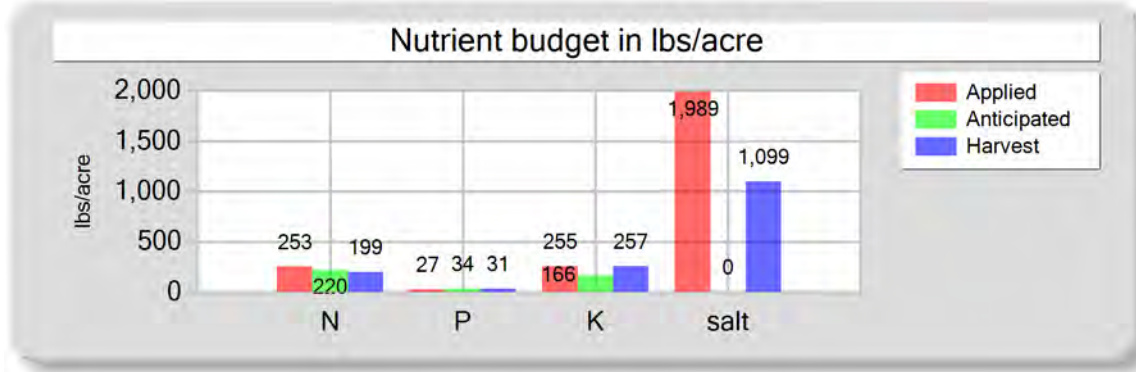
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

Field #14 - 11/28/2022: Wheat, silage, soft dough

Field name: Field #14Crop: Wheat, silage, soft doughPlant date: 11/28/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	241.78	27.02	254.67	1,482.81
Fresh water	4.46	0.00	0.00	506.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	253.24	27.02	254.67	1,988.97
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	199.21	30.65	256.67	1,098.87
Nutrient balance	54.03	-3.63	-2.00	890.10
Applied to removed ratio	1.27	0.88	0.99	1.81

Fresh water applied
28,871,640.00 <i>gallons</i>
1,063.24 <i>acre-inches</i>
19.69 <i>inches/acre</i>

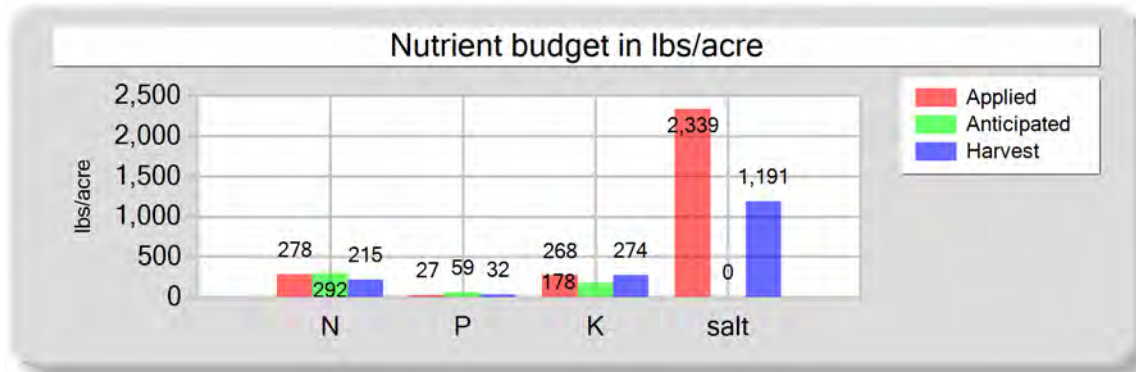
Process wastewater applied
3,792,000.00 <i>gallons</i>
139.65 <i>acre-inches</i>
2.59 <i>inches/acre</i>

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

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

Field #14 - 05/29/2023: Corn, silage

Field name: Field #14Crop: Corn, silagePlant date: 05/29/2023

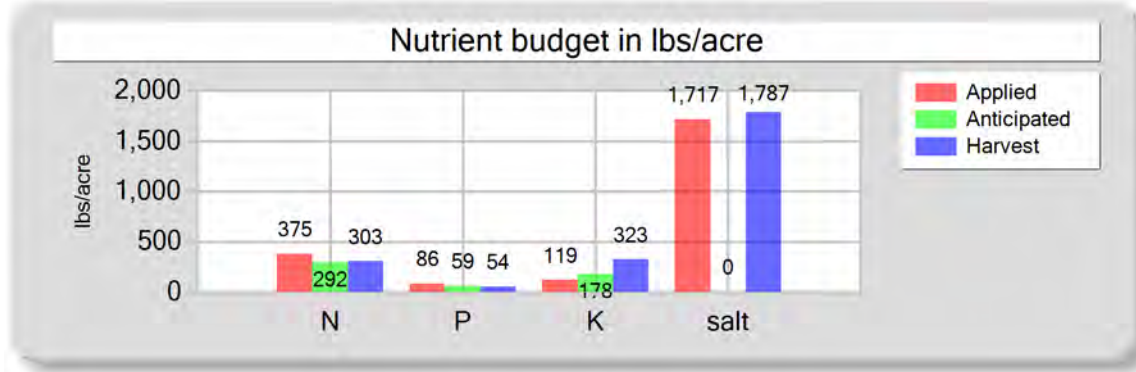
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	262.23	27.27	268.48	1,603.58
Fresh water	9.05	0.00	0.00	735.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.28	27.27	268.48	2,338.69
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	214.78	32.22	273.84	1,190.74
Nutrient balance	63.50	-4.95	-5.36	1,147.96
Applied to removed ratio	1.30	0.85	0.98	1.96

Fresh water applied
58,547,520.00 <i>gallons</i>
2,156.11 <i>acre-inches</i>
39.93 <i>inches/acre</i>
Process wastewater applied
3,216,000.00 <i>gallons</i>
118.43 <i>acre-inches</i>
2.19 <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 #15 - 04/18/2023: Corn, silage

Field name: Field #15Crop: Corn, silagePlant date: 04/18/2023

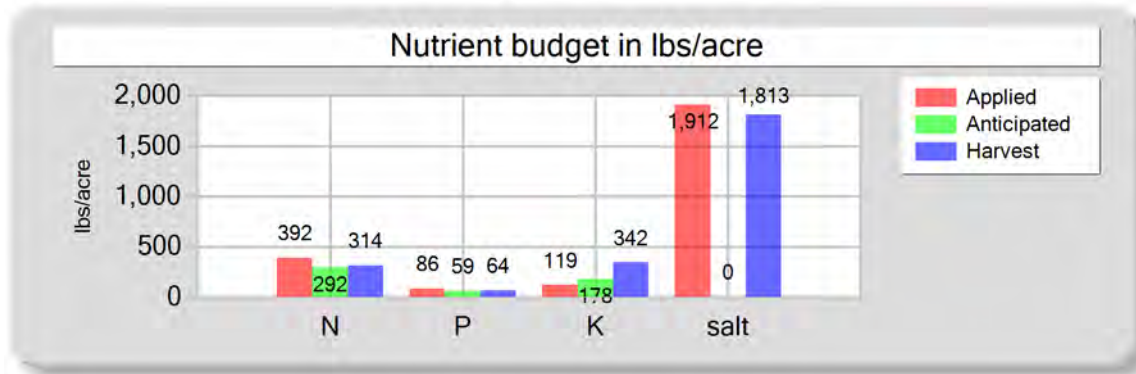
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	354.47	86.01	119.48	416.42
Fresh water	6.77	0.00	0.00	1,300.51
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	375.24	86.01	119.48	1,716.93
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	303.17	53.90	323.38	1,786.70
Nutrient balance	72.07	32.11	-203.91	-69.77
Applied to removed ratio	1.24	1.60	0.37	0.96

Fresh water applied
62,506,200.00 <i>gallons</i>
2,301.89 <i>acre-inches</i>
29.89 <i>inches/acre</i>
Process wastewater applied
1,795,500.00 <i>gallons</i>
66.12 <i>acre-inches</i>
0.86 <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 #16 - 04/18/2023: Corn, silage

Field name: Field #16Crop: Corn, silagePlant date: 04/18/2023

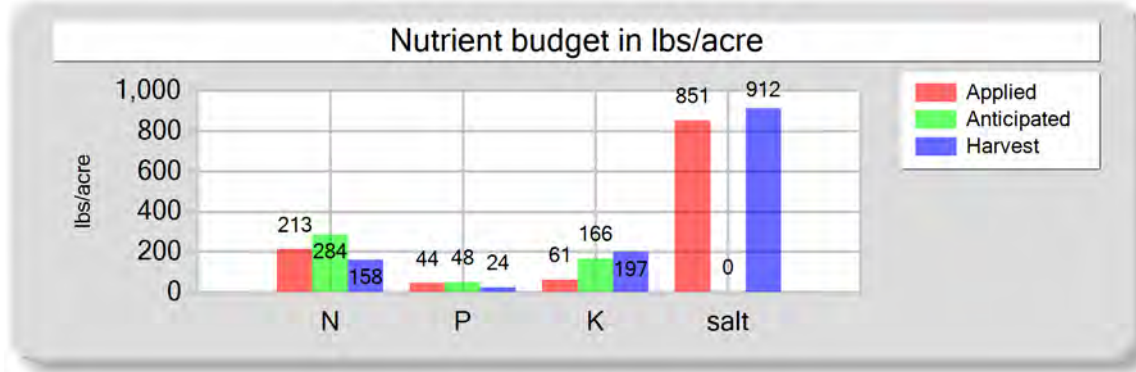
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	352.59	85.55	118.85	414.22
Fresh water	25.55	0.00	0.00	1,497.97
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	392.14	85.55	118.85	1,912.19
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	313.75	64.18	342.27	1,812.62
Nutrient balance	78.39	21.38	-223.43	99.57
Applied to removed ratio	1.25	1.33	0.35	1.05

Fresh water applied
62,318,790.00 <i>gallons</i>
2,294.99 <i>acre-inches</i>
29.81 <i>inches/acre</i>
Process wastewater applied
1,786,000.00 <i>gallons</i>
65.77 <i>acre-inches</i>
0.85 <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 #2 - 11/29/2022: Wheat, silage, soft dough

Field name: Field #2Crop: Wheat, silage, soft doughPlant date: 11/29/2022

	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	180.51	43.80	60.85	212.07
Fresh water	25.24	0.00	0.00	638.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	212.75	43.80	60.85	850.51
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	158.03	23.85	196.79	912.47
Nutrient balance	54.72	19.95	-135.95	-61.96
Applied to removed ratio	1.35	1.84	0.31	0.93

Fresh water applied
33,840,000.00 <i>gallons</i>
1,246.21 <i>acre-inches</i>
20.77 <i>inches/acre</i>

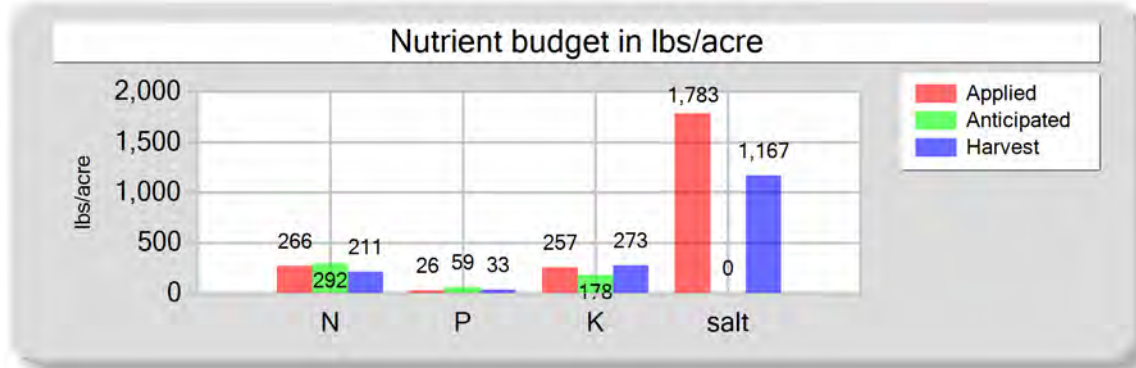
Process wastewater applied
712,500.00 <i>gallons</i>
26.24 <i>acre-inches</i>
0.44 <i>inches/acre</i>

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

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

Field #2 - 05/23/2023: Corn, silage

Field name: Field #2Crop: Corn, silagePlant date: 05/23/2023

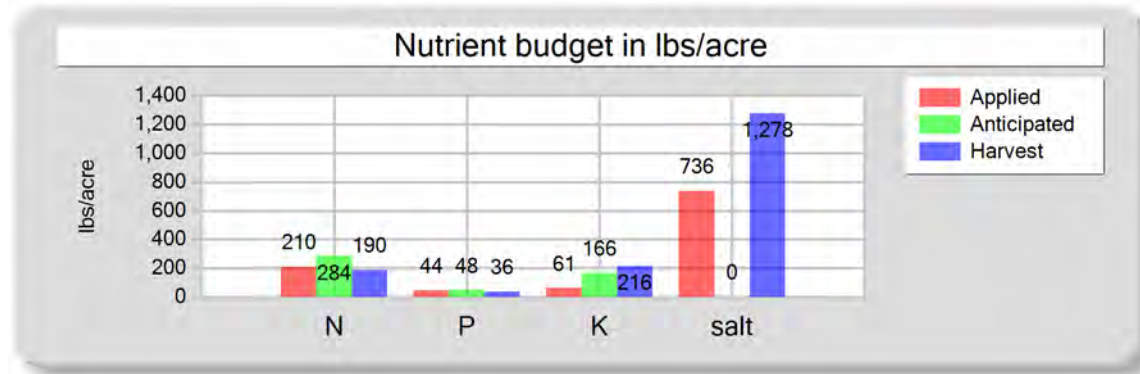
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	250.48	25.96	256.55	1,527.34
Fresh water	8.83	0.00	0.00	256.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	266.31	25.96	256.55	1,783.38
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	211.15	33.12	273.26	1,167.39
Nutrient balance	55.16	-7.16	-16.71	615.99
Applied to removed ratio	1.26	0.78	0.94	1.53

Fresh water applied
63,480,000.00 <i>gallons</i>
2,337.75 <i>acre-inches</i>
38.96 <i>inches/acre</i>
Process wastewater applied
3,408,000.00 <i>gallons</i>
125.51 <i>acre-inches</i>
2.09 <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 #3 - 11/23/2022: Wheat, silage, soft dough

Field name: Field #3Crop: Wheat, silage, soft doughPlant date: 11/23/2022

	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	182.14	44.20	61.39	213.98
Fresh water	20.57	0.00	0.00	522.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	209.71	44.20	61.39	736.46
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	189.59	35.96	215.74	1,278.24
Nutrient balance	20.12	8.24	-154.34	-541.78
Applied to removed ratio	1.11	1.23	0.28	0.58

Fresh water applied
57,120,000.00 <i>gallons</i>
2,103.54 <i>acre-inches</i>
18.95 <i>inches/acre</i>

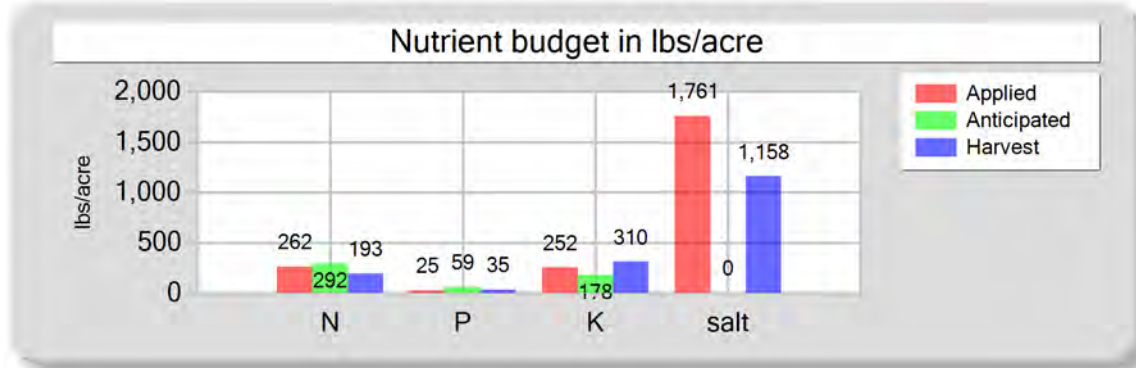
Process wastewater applied
1,330,000.00 <i>gallons</i>
48.98 <i>acre-inches</i>
0.44 <i>inches/acre</i>

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

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

Field #3 - 06/14/2023: Corn, silage

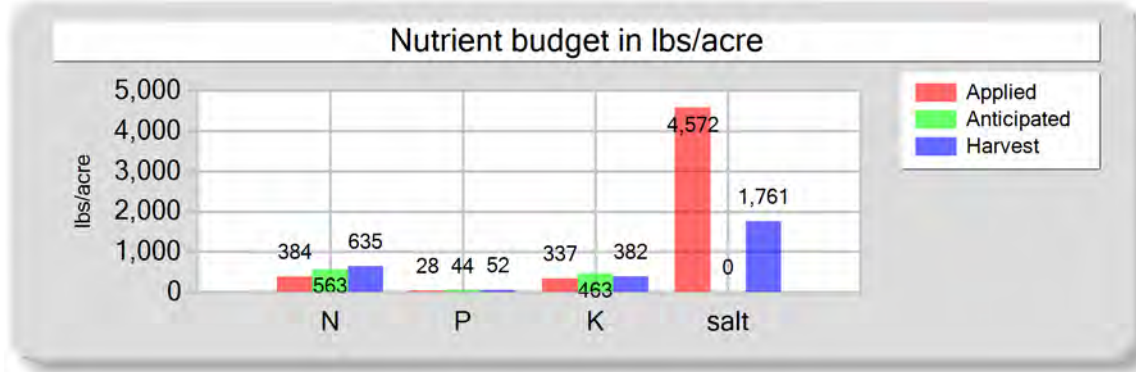
Field name: Field #3Crop: Corn, silagePlant date: 06/14/2023

	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	120,240,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	4,428.03 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	39.89 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	246.28	25.46	252.31	1,498.53	Process wastewater applied
Fresh water	9.04	0.00	0.00	262.15	6,192,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	228.03 <i>acre-inches</i>
Total nutrients applied	262.32	25.46	252.31	1,760.68	2.05 <i>inches/acre</i>
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00	
Actual crop nutrient removal	192.78	35.05	309.62	1,158.11	Total harvests for the crop
Nutrient balance	69.54	-9.59	-57.31	602.57	1 <i>harvests</i>
Applied to removed ratio	1.36	0.73	0.81	1.52	

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

Field #4 North - 11/16/2017: Alfalfa, hay

Field name: Field #4 NorthCrop: Alfalfa, hayPlant date: 11/16/2017

	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	278.49	28.30	336.51	902.51
Fresh water	91.26	0.00	0.00	3,669.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	383.75	28.30	336.51	4,571.75
Anticipated crop nutrient removal	562.50	44.10	462.60	0.00
Actual crop nutrient removal	635.45	52.18	382.02	1,761.01
Nutrient balance	-251.70	-23.88	-45.51	2,810.74
Applied to removed ratio	0.60	0.54	0.88	2.60

Fresh water applied
75,535,880.00 <i>gallons</i>
2,781.73 <i>acre-inches</i>
43.46 <i>inches/acre</i>

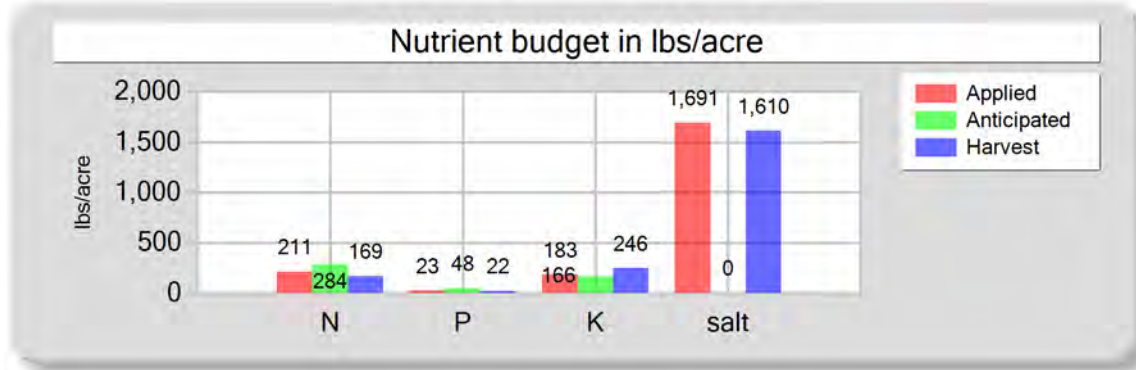
Process wastewater applied
4,944,000.00 <i>gallons</i>
182.07 <i>acre-inches</i>
2.84 <i>inches/acre</i>

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

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

Field #4 South - 10/28/2022: Wheat, silage, soft dough

Field name: Field #4 SouthCrop: Wheat, silage, soft doughPlant date: 10/28/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	187.38	22.77	182.75	1,069.99
Fresh water	16.15	0.00	0.00	621.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	210.53	22.77	182.75	1,691.09
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	169.00	22.37	246.05	1,609.78
Nutrient balance	41.53	0.40	-63.29	81.31
Applied to removed ratio	1.25	1.02	0.74	1.05

Fresh water applied
35,041,920.00 <i>gallons</i>
1,290.47 <i>acre-inches</i>
17.68 <i>inches/acre</i>

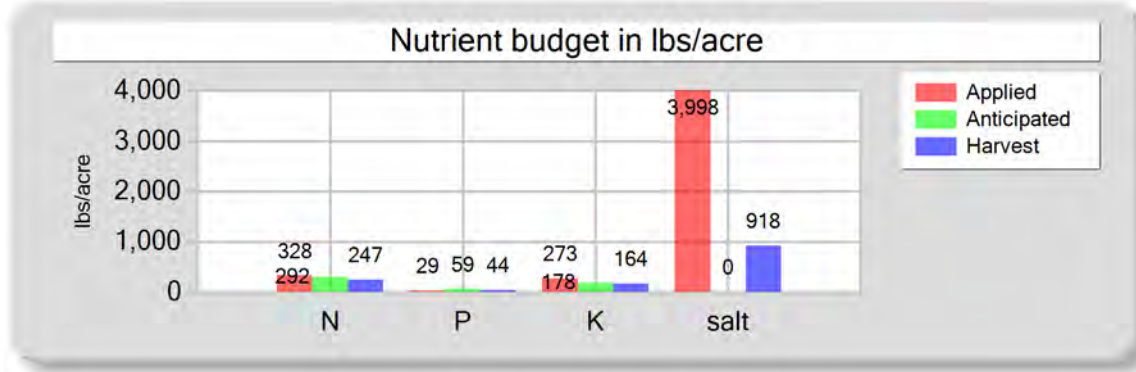
Process wastewater applied
3,744,000.00 <i>gallons</i>
137.88 <i>acre-inches</i>
1.89 <i>inches/acre</i>

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

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

Field #4 South - 06/22/2023: Corn, silage

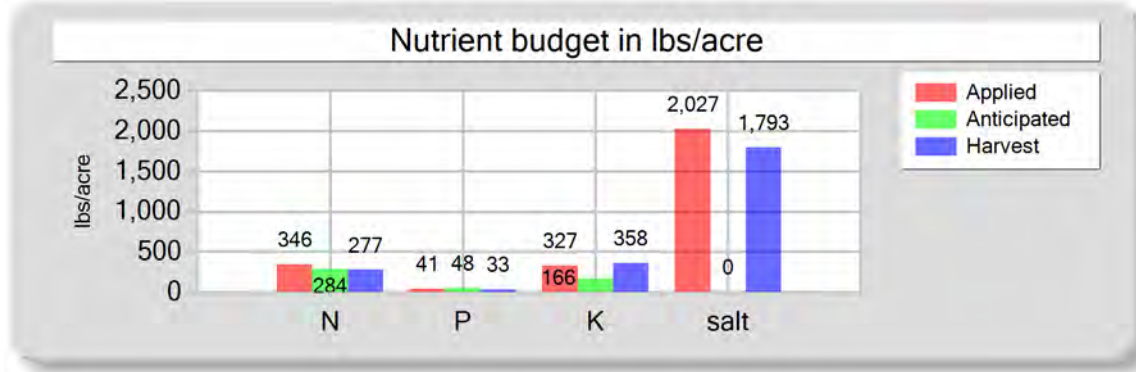
Field name: Field #4 SouthCrop: Corn, silagePlant date: 06/22/2023

	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	69,750,960.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,568.69 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	35.19 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	267.94	29.40	272.61	1,719.55	Process wastewater applied
Fresh water	52.70	0.00	0.00	2,278.59	4,560,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	167.93 <i>acre-inches</i>
Total nutrients applied	327.64	29.40	272.61	3,998.15	2.30 <i>inches/acre</i>
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00	
Actual crop nutrient removal	246.61	43.84	164.41	918.06	Total harvests for the crop
Nutrient balance	81.03	-14.44	108.20	3,080.09	1 <i>harvests</i>
Applied to removed ratio	1.33	0.67	1.66	4.35	

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

Field #5 North - 11/06/2022: Wheat, silage, soft dough

Field name: Field #5 NorthCrop: Wheat, silage, soft doughPlant date: 11/06/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	335.03	40.71	326.76	1,913.12
Fresh water	3.93	0.00	0.00	114.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	345.96	40.71	326.76	2,027.12
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	276.95	33.23	358.19	1,792.71
Nutrient balance	69.01	7.48	-31.43	234.41
Applied to removed ratio	1.25	1.22	0.91	1.13

Fresh water applied
31,560,000.00 <i>gallons</i>
1,162.25 <i>acre-inches</i>
17.35 <i>inches/acre</i>

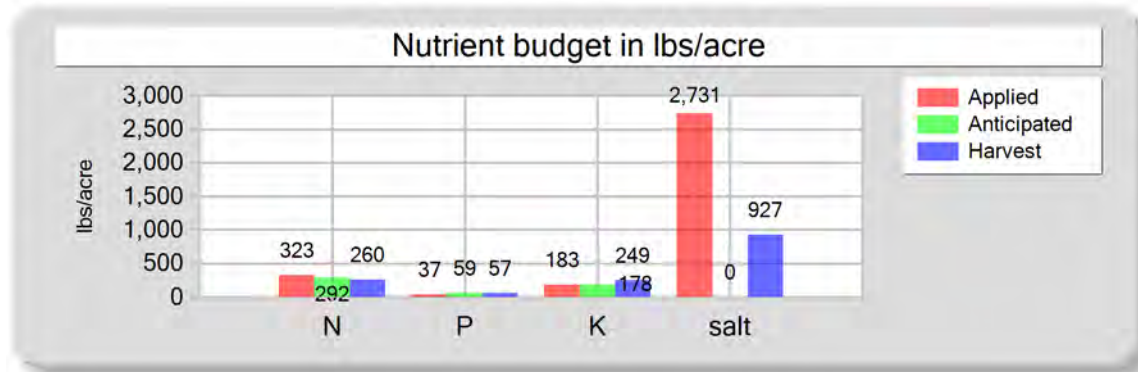
Process wastewater applied
6,144,000.00 <i>gallons</i>
226.26 <i>acre-inches</i>
3.38 <i>inches/acre</i>

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

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

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

Field #5 North - 06/19/2023: Corn, silage

Field name: Field #5 NorthCrop: Corn, silagePlant date: 06/19/2023

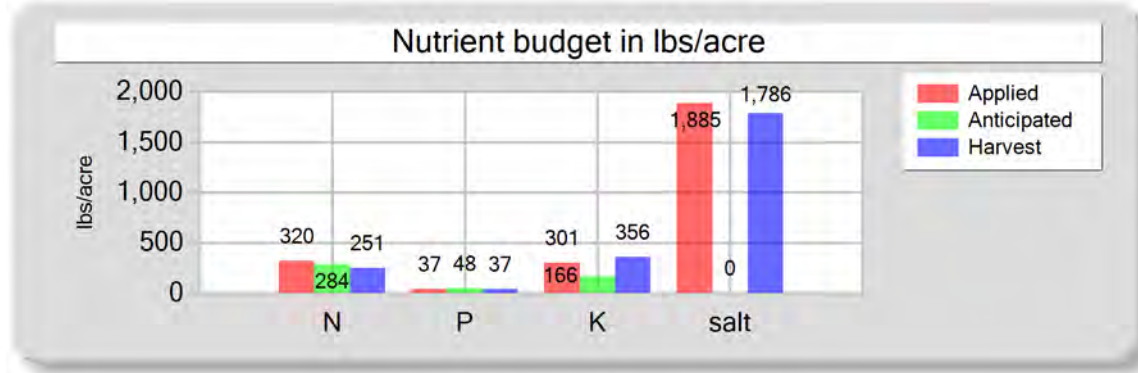
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	190.33	26.05	62.11	1,833.17
Process wastewater	116.99	10.73	121.36	640.30
Fresh water	8.88	0.00	0.00	257.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.20	36.78	183.47	2,731.00
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	260.07	56.54	248.77	927.39
Nutrient balance	63.13	-19.76	-65.30	1,803.61
Applied to removed ratio	1.24	0.65	0.74	2.94

Fresh water applied
71,300,000.00 <i>gallons</i>
2,625.74 <i>acre-inches</i>
39.19 <i>inches/acre</i>
Process wastewater applied
1,680,000.00 <i>gallons</i>
61.87 <i>acre-inches</i>
0.92 <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 #5 South - 11/06/2022: Wheat, silage, soft dough

Field name: Field #5 SouthCrop: Wheat, silage, soft doughPlant date: 11/06/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	308.22	37.45	300.61	1,760.04
Fresh water	4.29	0.00	0.00	124.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.51	37.45	300.61	1,884.56
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	251.16	37.49	356.12	1,786.29
Nutrient balance	68.35	-0.03	-55.50	98.27
Applied to removed ratio	1.27	1.00	0.84	1.06

Fresh water applied
33,960,000.00 <i>gallons</i>
1,250.63 <i>acre-inches</i>
18.95 <i>inches/acre</i>

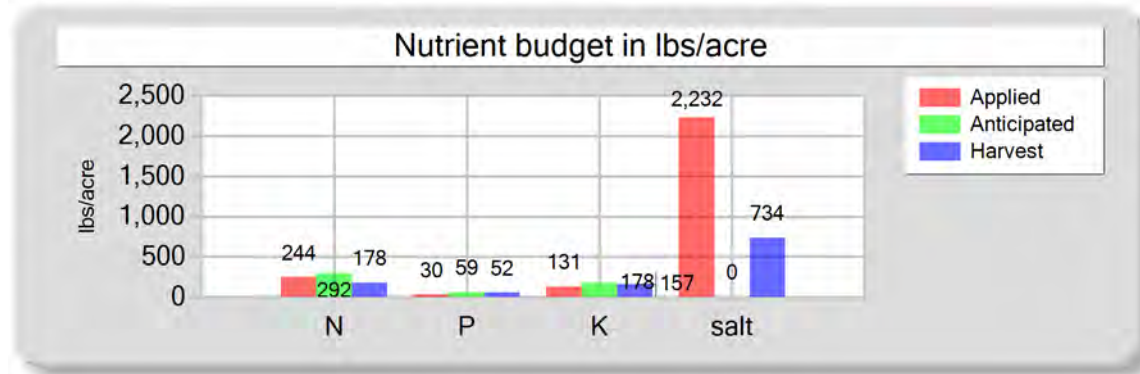
Process wastewater applied
5,568,000.00 <i>gallons</i>
205.05 <i>acre-inches</i>
3.11 <i>inches/acre</i>

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

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

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

Field #5 South - 06/19/2023: Corn, silage

Field name: Field #5 SouthCrop: Corn, silagePlant date: 06/19/2023

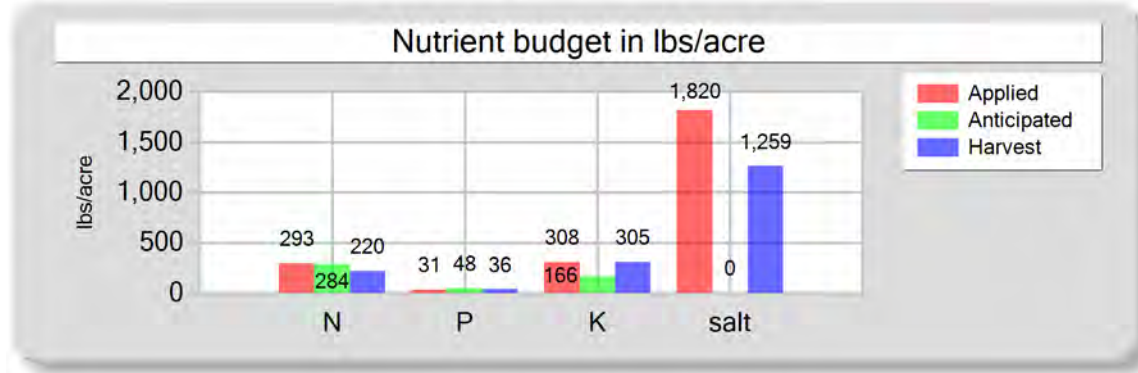
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	145.06	19.85	47.33	1,397.12
Process wastewater	83.45	10.03	83.95	581.18
Fresh water	8.76	0.00	0.00	254.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.27	29.88	131.28	2,232.40
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	177.59	52.47	157.41	734.01
Nutrient balance	66.68	-22.59	-26.13	1,498.39
Applied to removed ratio	1.38	0.57	0.83	3.04

Fresh water applied
69,300,000.00 <i>gallons</i>
2,552.08 <i>acre-inches</i>
38.67 <i>inches/acre</i>
Process wastewater applied
1,344,000.00 <i>gallons</i>
49.49 <i>acre-inches</i>
0.75 <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 #6 North - 11/01/2022: Wheat, silage, soft dough

Field name: Field #6 NorthCrop: Wheat, silage, soft doughPlant date: 11/01/2022

	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	280.83	31.24	307.67	1,245.74
Fresh water	4.93	0.00	0.00	574.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.76	31.24	307.67	1,819.94
Anticipated crop nutrient removal	284.00	48.00	166.00	0.00
Actual crop nutrient removal	219.79	35.88	305.02	1,259.46
Nutrient balance	72.97	-4.64	2.65	560.48
Applied to removed ratio	1.33	0.87	1.01	1.45

Fresh water applied
47,246,880.00 <i>gallons</i>
1,739.94 <i>acre-inches</i>
21.75 <i>inches/acre</i>

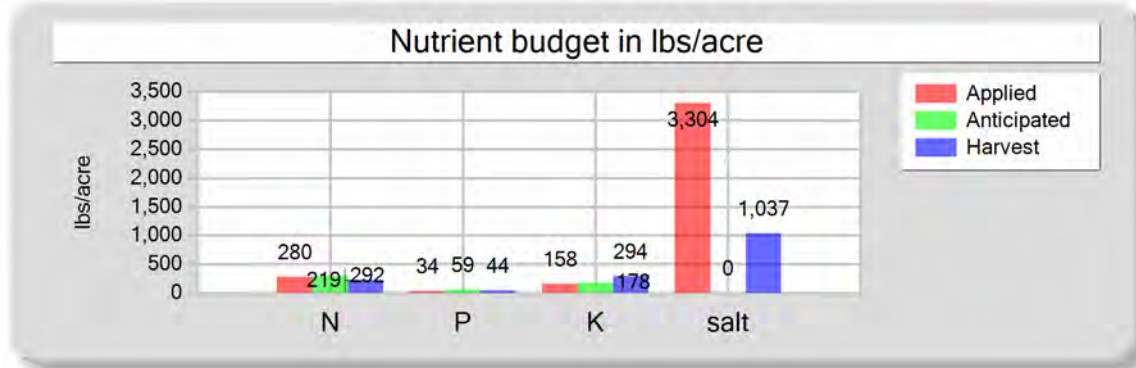
Process wastewater applied
6,192,000.00 <i>gallons</i>
228.03 <i>acre-inches</i>
2.85 <i>inches/acre</i>

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

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

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

Field name: Field #6 NorthCrop: Corn, silagePlant date: 06/04/2023

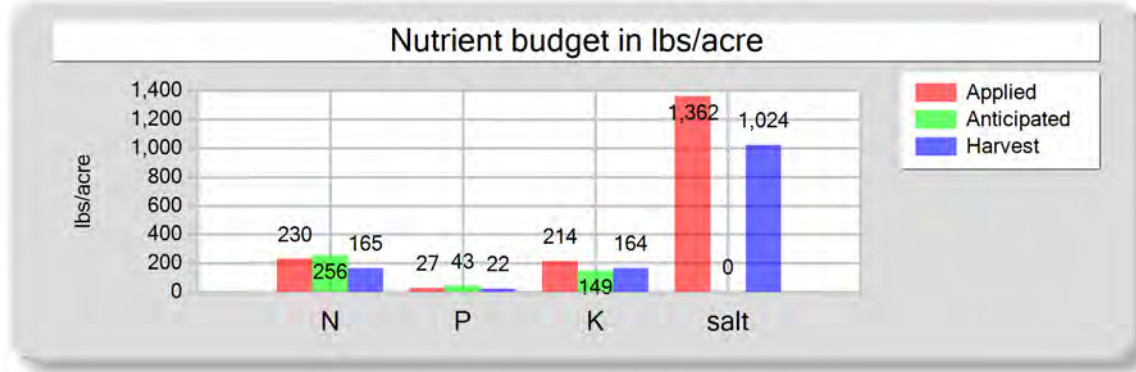
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	158.24	21.65	51.64	1,524.08
Process wastewater	106.04	12.74	106.67	738.47
Fresh water	9.13	0.00	0.00	1,041.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	280.41	34.39	158.30	3,304.14
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	218.83	43.77	293.86	1,037.12
Nutrient balance	61.58	-9.37	-135.55	2,267.01
Applied to removed ratio	1.28	0.79	0.54	3.19

Fresh water applied
87,517,920.00 <i>gallons</i>
3,222.99 <i>acre-inches</i>
40.29 <i>inches/acre</i>
Process wastewater applied
2,070,000.00 <i>gallons</i>
76.23 <i>acre-inches</i>
0.95 <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 #6 South - 11/05/2022: Wheat Hay

Field name: Field #6 SouthCrop: Wheat HayPlant date: 11/05/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	219.21	26.64	213.80	1,251.75
Fresh water	3.80	0.00	0.00	110.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	230.01	26.64	213.80	1,362.04
Anticipated crop nutrient removal	255.60	43.20	149.40	0.00
Actual crop nutrient removal	165.17	22.09	164.12	1,024.11
Nutrient balance	64.84	4.54	49.68	337.93
Applied to removed ratio	1.39	1.21	1.30	1.33

Fresh water applied
38,280,000.00 <i>gallons</i>
1,409.72 <i>acre-inches</i>
16.78 <i>inches/acre</i>

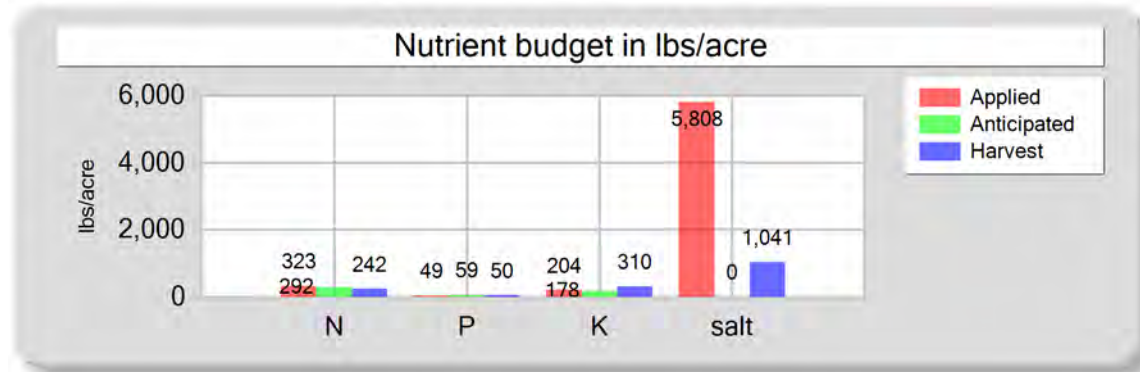
Process wastewater applied
5,040,000.00 <i>gallons</i>
185.61 <i>acre-inches</i>
2.21 <i>inches/acre</i>

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

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

Field #6 South - 06/25/2023: Corn, silage

Field name: Field #6 SouthCrop: Corn, silagePlant date: 06/25/2023

	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	196.76	35.35	93.08	3,817.37
Process wastewater	110.07	13.22	110.72	766.50
Fresh water	8.75	0.00	0.00	1,224.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.57	48.57	203.79	5,807.96
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	241.60	50.14	309.98	1,040.84
Nutrient balance	80.97	-1.57	-106.18	4,767.12
Applied to removed ratio	1.34	0.97	0.66	5.58

Fresh water applied
88,037,040.00 <i>gallons</i>
3,242.10 <i>acre-inches</i>
38.60 <i>inches/acre</i>

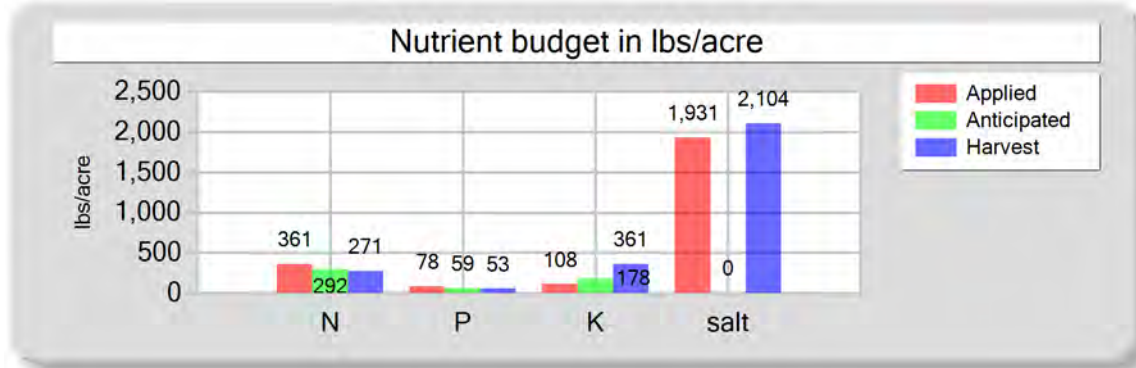
Process wastewater applied
2,256,000.00 <i>gallons</i>
83.08 <i>acre-inches</i>
0.99 <i>inches/acre</i>

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

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

Field #7 - 04/18/2023: Corn, silage

Field name: Field #7Crop: Corn, silagePlant date: 04/18/2023

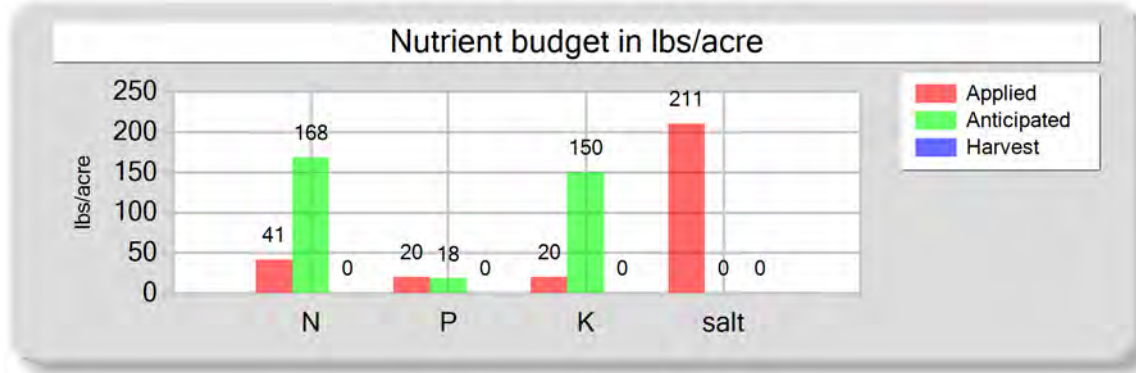
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	321.15	77.93	108.25	377.29
Fresh water	25.59	0.00	0.00	1,553.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	360.75	77.93	108.25	1,930.81
Anticipated crop nutrient removal	291.60	59.40	178.20	0.00
Actual crop nutrient removal	270.76	52.65	361.02	2,103.83
Nutrient balance	89.99	25.28	-252.77	-173.02
Applied to removed ratio	1.33	1.48	0.30	0.92

Fresh water applied
54,125,880.00 <i>gallons</i>
1,993.27 <i>acre-inches</i>
29.75 <i>inches/acre</i>
Process wastewater applied
1,415,500.00 <i>gallons</i>
52.13 <i>acre-inches</i>
0.78 <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 #8 - 10/27/2021: Pistachios

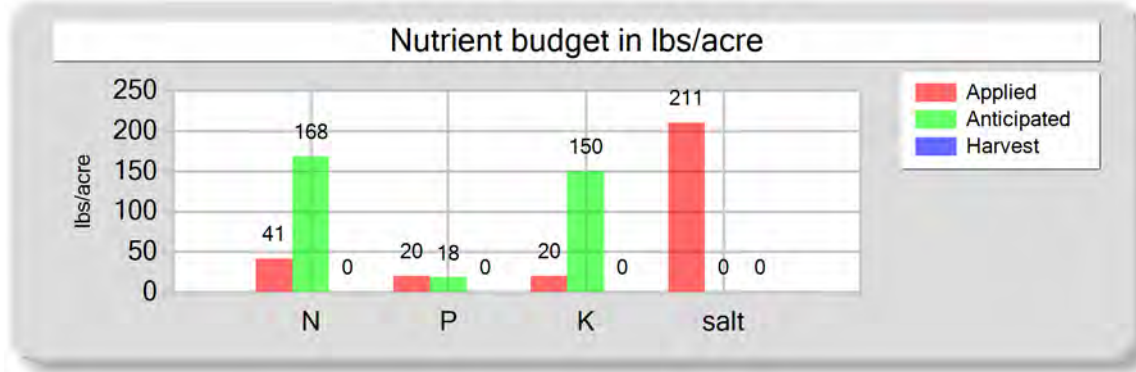
Field name: Field #8Crop: PistachiosPlant date: 10/27/2021

	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	65,241,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,402.63 <i>acre-inches</i>
Commercial fertilizer / Other	20.00	20.00	20.00	0.00	32.04 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	7.26	0.00	0.00	210.52	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	41.26	20.00	20.00	210.52	
Anticipated crop nutrient removal	168.00	18.00	150.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	41.26	20.00	20.00	210.52	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <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 #9 - 10/27/2021: Pistachios

Field name: Field #9Crop: PistachiosPlant date: 10/27/2021

	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	65,241,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,402.63 <i>acre-inches</i>
Commercial fertilizer / Other	20.00	20.00	20.00	0.00	32.04 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	7.26	0.00	0.00	210.52	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	41.26	20.00	20.00	210.52	
Anticipated crop nutrient removal	168.00	18.00	150.00	0.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	41.26	20.00	20.00	210.52	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <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

Drying Solids

Sample and source description: Drying Solids

Sample date: 10/04/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.5 %

	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	11,300.00	3,500.00	19,800.00							0.00
DL	100.00	100.00	100.00							0.01

Corral Solids - DM1

Sample and source description: Corral Solids - DM1

Sample date: 04/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 18.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	3,700.00	17,100.00							0.00
DL	100.00	100.00	100.00							0.01

Drying Solids DM2

Sample and source description: Drying Solids DM2

Sample date: 04/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 32.5 %

	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	6,800.00	3,000.00	20,200.00	20,900.00	6,400.00	3,200.00	2,400.00	4,000.00		84.20
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

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

Separator Solids

Sample and source description: Separator Solids
Sample date: 04/18/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 79.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,000.00	2,600.00	6,200.00	12,900.00	4,000.00	1,600.00	3,100.00	1,000.00		18.30
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

Corral Solids

Sample and source description: Corral Solids
Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 26.4 %

	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	23,200.00	6,000.00	27,300.00							0.00
DL	100.00	100.00	100.00							0.01

Separator Solids

Sample and source description: Separator Solids
Sample date: 10/03/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 53.0 %

	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	16,900.00	4,200.00	13,700.00							0.00
DL	100.00	100.00	100.00							0.01

B. PROCESS WASTEWATER ANALYSES

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***WWQ3 2022 NE Corner WWS #1**Sample and source description: WWQ3 2022 NE Corner WWS #1Sample date: 08/02/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.80

	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	384.00	328.00	0.00	4.00	39.20	442.00								5,770.00	2,560
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

SlurrySample and source description: SlurrySample date: 09/21/2022 Material type: Process wastewater sludge Source of analysis: Lab analysis pH: 7.40

	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	1,820.00	527.00	0.00	1.60	442.00	614.00	1,560.00	319.00	266.00	6,160.00	0.00	14.30	273.00	6,800.00	2,140
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 2022 NE Corner WWS #1Sample and source description: WWQ4 2022 NE Corner WWS #1Sample date: 10/18/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.80

	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	430.00	409.00	0.00	2.00	43.90	522.00								6,450.00	1,400
DL	1.00	0.50	0.50	1.00	0.10	0.50								10.00	10

WWQ1 NE Corner WWS#1Sample and source description: WWQ1 NE Corner WWS#1Sample date: 02/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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	437.00	204.00	0.00	0.80	53.20	427.00								5,180.00	2,500
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	558.00	457.00	0.00	1.10	51.30	580.00								7,560.00	3,060
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

SlurrySample and source description: SlurrySample date: 09/06/2023 Material type: Process wastewater sludge Source of analysis: Lab analysis pH: 7.60

	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	1,120.00	433.00	0.00	0.00	298.00	720.00								6,290.00	2,950
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWQ3 NE Corner WWS #1Sample and source description: WWQ3 NE Corner WWS #1Sample date: 09/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

	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	490.00	407.00	0.00	1.10	59.00	494.00	146.00	92.50	37.80	2,760.00	0.00	37.80	207.00	6,100.00	3,420
DL	1.00	0.50	0.50	0.10	0.10	0.50	0.10	0.10	1.00	5.00	1.00	0.50	0.20	10.00	10

WWQ4 NE Corner WWS#1Sample and source description: WWQ4 NE Corner WWS#1Sample date: 10/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.60

	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	423.00	294.00	0.00	0.60	46.40	416.00								5,300.00	2,550
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

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	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 #11**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	1.50	0.00	75.00	95.30	0.00	12.40	15.60	312.00	238
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	2.00	0.50	0.20	10.00	10

IW #3**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	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

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	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	17.40	0.00	17.40	85.30	6.50	31.00	163.00	0.00	52.80	16.90	595.00	430
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 #6**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	2.50	0.00	78.00	85.80	0.00	15.20	32.50	336.00	215
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	2.00	0.50	0.20	10.00	10

IW #7**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	38.00	0.00	38.00	127.00	13.00	197.00	386.00	0.00	188.00	43.10	1,420.00	1,030
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	2.00	0.50	0.20	10.00	10

IW #8

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	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	1.70	0.00	66.00	80.40	0.00	12.70	20.20	283.00	198
DL	1.00	0.50	0.10	0.10	0.10	1.00	5.00	2.00	0.50	0.20	10.00	10

IW #9**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	31.60	0.00	31.10	107.00	11.90	93.00	271.00	0.00	66.00	31.40	934.00	615
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**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								25.00	29
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES

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No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field #10 - 12/18/2019: Almond, in shell

AlmondsSample and source description: AlmondsSample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 7.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,700.00	1,900.00	15,000.00		12.90
DL	100.00	100.00	100.00		0.01

Field #11 - 12/18/2019: Almond, in shell

AlmondsSample and source description: AlmondsSample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 8.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,100.00	2,200.00	15,500.00		9.40
DL	100.00	100.00	100.00		0.01

Field #14 - 11/28/2022: Wheat, silage, soft dough

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***Field #14 - 11/28/2022: Wheat, silage, soft dough****Wheat Silage**Sample and source description: Wheat SilageSample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	800.00	6,700.00		10.10
DL	100.00	100.00	100.00		0.01

Field #14 - 05/29/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	600.00	5,100.00		6.60
DL	100.00	100.00	100.00		0.01

Field #15 - 04/18/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 08/09/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 59.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	800.00	4,800.00		6.50
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	4,400.00	900.00	4,800.00		6.20
DL	100.00	100.00	100.00		0.01

Field #2 - 11/29/2022: Wheat, silage, soft dough**Wheat Silage**Sample and source description: Wheat SilageSample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 71.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	800.00	6,600.00		10.70
DL	100.00	100.00	100.00		0.01

Field #2 - 05/23/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 62.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	800.00	6,600.00		7.60
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 #3 - 11/23/2022: 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: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,100.00	6,600.00		9.90
DL	100.00	100.00	100.00		0.01

Field #3 - 06/14/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,300.00	600.00	5,300.00		5.90
DL	100.00	100.00	100.00		0.01

Field #4 North - 11/16/2017: Alfalfa, hay**Alfalfa**Sample and source description: AlfalfaSample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 12.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,100.00	2,800.00	20,500.00		10.80
DL	100.00	100.00	100.00		0.01

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Field #4 South - 10/28/2022: Wheat, silage, soft dough

Wheat SilageSample and source description: Wheat SilageSample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 51.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,800.00	900.00	9,900.00		13.30
DL	100.00	100.00	100.00		0.01

Field #4 South - 06/22/2023: Corn, silage

Corn SilageSample and source description: Corn SilageSample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	800.00	3,000.00		4.80
DL	100.00	100.00	100.00		0.01

Field #5 North - 11/06/2022: Wheat, silage, soft dough

Wheat SilageSample and source description: Wheat SilageSample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 54.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,500.00	900.00	9,700.00		10.60
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	4,600.00	1,000.00	4,400.00		4.70
DL	100.00	100.00	100.00		0.01

Field #5 South - 11/06/2022: 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: 58.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,700.00	1,000.00	9,500.00		11.40
DL	100.00	100.00	100.00		0.01

Field #5 South - 06/19/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 56.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	1,300.00	3,900.00		4.20
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	4,900.00	800.00	6,800.00		10.10
DL	100.00	100.00	100.00		0.01

Field #6 North - 06/04/2023: Corn, silage**Corn Silage**Sample and source description: Corn SilageSample date: 09/22/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	700.00	4,700.00		5.20
DL	100.00	100.00	100.00		0.01

Field #6 South - 11/05/2022: Wheat Hay**Wheat Hay**Sample and source description: Wheat HaySample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 6.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,100.00	15,600.00		10.40
DL	100.00	100.00	100.00		0.01

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Field #6 South - 06/25/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/13/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,100.00	6,800.00		5.90
DL	100.00	100.00	100.00		0.01

Field #7 - 04/18/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 08/09/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	700.00	4,800.00		6.30
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

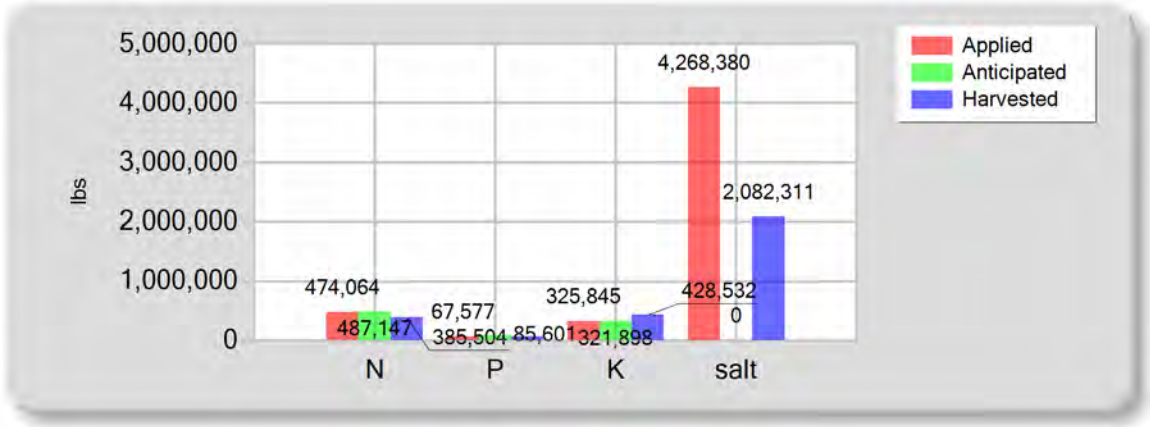
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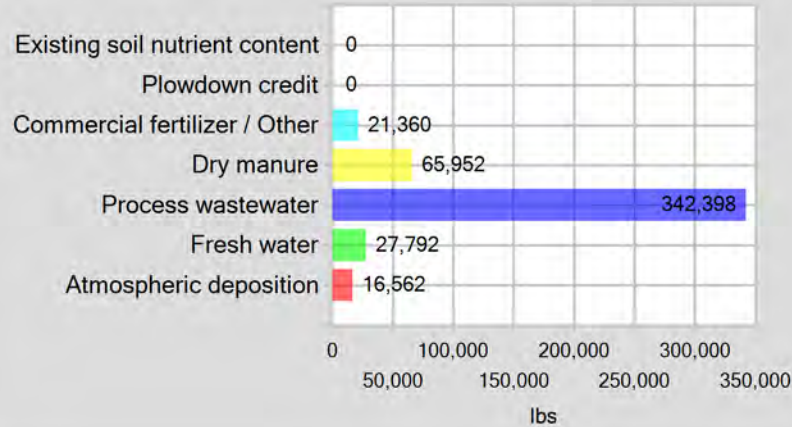
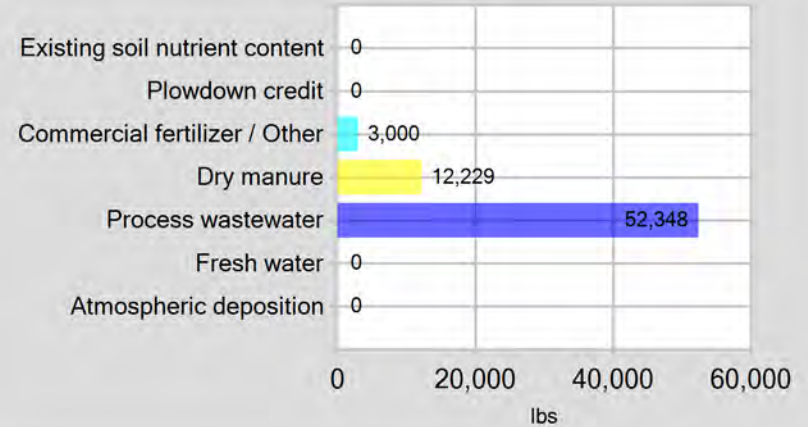
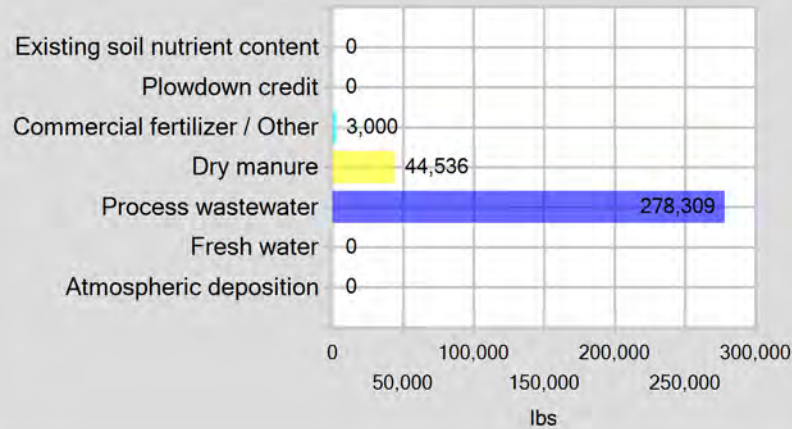
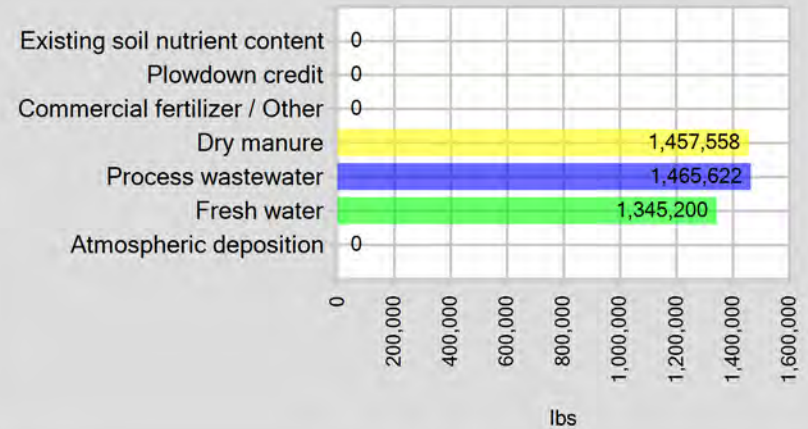
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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	21,360.00	3,000.00	3,000.00	0.00
Dry manure	65,952.38	12,228.96	44,536.25	1,457,557.90
Process wastewater	342,397.61	52,348.08	278,308.56	1,465,621.75
Fresh water	27,791.77	0.00	0.00	1,345,200.33
Atmospheric deposition	16,562.00	0.00	0.00	0.00
Total nutrients applied	474,063.77	67,577.04	325,844.81	4,268,379.99
Anticipated crop nutrient removal	487,146.50	85,601.10	321,897.70	0.00
Actual crop nutrient removal	385,503.66	62,733.92	428,531.86	2,082,310.68
Nutrient balance	88,560.11	4,843.12	-102,687.05	2,186,069.31
Applied to removed ratio	1.23	1.08	0.76	2.05

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?

Yes

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

Yes

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

Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?

No

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

ADDITIONAL NOTES

A. NOTES

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation wells IW #5, 10, 17, 18, 19, & 20 were not utilized during 2023 due to excessive amounts of rain during the winter season. Surface water was at 100% allocation and therefore more canal water was available for use during the 2023 cropping season. All irrigation wells will be sampled when used. IW #15 was non-operational and will be sampled once the well becomes operational. IW #16 was retired from service and will be removed.

Fields #2 Wheat, 3 Wheat, 4 South Wheat, 6 South Wheat Hay, 3 Corn, & 5 South Corn had lower than anticipated removal rates. This was due to lower than expected yields and/or expected %N. The %N was based on analysis that was derived through a certified laboratory. However, the applications to these fields matched the low removal rates and was able to meet the field ratio threshold of 1.4.

Nutrients applied to permanent crops, such as trees and vines, are used for tree growth, vine development and fruit production (grapes, nuts, etc.). Comparing nutrient applications to nutrient content of harvested material for permanent crops is not appropriate and will result in high field ratios. A more accurate reporting methodology will need to be developed in order to account for nutrients retained in the permanent crops. All applications will continue to be monitored closely to ensure that over application of nutrients does not occur.

Fields #8 & 9 Pistachios received no wastewater or solid manure in 2023. All nutrients applied to these fields were contributed through freshwater applications and/or commercial fertilizer only.

Fields #7, 15 & 16 were fallow during the winter cropping season for 2023.

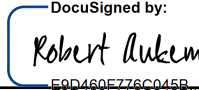
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

DocuSigned by:



E9D460E776C045B...

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Robert Aukeman

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6/17/2024

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.

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/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.

OPERATOR INFORMATION

Name of Operator: Robert Aukeman

Name of Dairy Facility: Aukeman Farms

Facility Address:

<u>17297 Road 96</u>	<u>Tulare</u>	<u>Tulare</u>	<u>93274</u>
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number:	<u>Robert Aukeman</u>	<u>(559) 737-1411</u>
	Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Gutierrez Spreading LLC

Address of Hauling Company/Person:

<u>3612 Avenue 236</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Number and Street	City	State	Zip Code

Contact Person:	<u>Jesus Gutierrez</u>	<u>(559) 280-3719</u>
	Name	Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

<u>Aukeman Farms #2</u>	<u>(559) 737-1411</u>
Name	Phone Number

<u>18183 S I Drive</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

<u>18183 S I Drive</u>	<u>Tulare</u>	<u>93274</u>
Address	City	Zip Code

<u>Street and nearest cross street (if no address)</u>	<u>Tulare</u>
	County

<u>Assessor's Parcel Number</u>	<u>Assessor's Parcel Number County</u>
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Last date hauled: 04/04/2023

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: 2,334.00 tons
Manure Solids Content: 81.3 %

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><div>DocuSigned by:</div><div>Robert Lukeman</div><div>E9D460F726C046B...</div></div>	6/17/2024
Operator Signature	Date
<div><div>DocuSigned by:</div><div>Jesus Gutierrez</div><div>7D9C736C4E97400...</div></div>	6/18/2024
Hauler Signature	Date

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/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.

OPERATOR INFORMATION

Name of Operator: Robert Aukeman

Name of Dairy Facility: Aukeman Farms

Facility Address:

<u>17297 Road 96</u>	<u>Tulare</u>	<u>Tulare</u>	<u>93274</u>
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number:	<u>Robert Aukeman</u>	<u>(559) 737-1411</u>
	Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Gutierrez Spreading LLC

Address of Hauling Company/Person:

<u>3612 Avenue 236</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Number and Street	City	State	Zip Code

Contact Person:	<u>Jesus Gutierrez</u>	<u>(559) 280-3719</u>
	Name	Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

<u>Bebereia Farms</u>	<u>(559) 688-1272</u>
Name	Phone Number

<u>5162 Avenue 252</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

<u>5162 Avenue 252</u>	<u>Tulare</u>	<u>93274</u>
Address	City	Zip Code

<u>Street and nearest cross street (if no address)</u>	<u>Tulare</u>
	County

<u>Assessor's Parcel Number</u>	<u>Assessor's Parcel Number County</u>
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Last date hauled: 09/01/2023

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: 4,900.00 tons
Manure Solids Content: 73.6 %

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><div>DocuSigned by:</div><div>Robert Lukeman</div><div>E0D460F776G046B...</div></div>	6/17/2024
Operator Signature	Date
<div><div>DocuSigned by:</div><div>Jesus Gutierrez</div><div>7D96GZ36C4E07400...</div></div>	6/18/2024
Hauler Signature	Date

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/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.

OPERATOR INFORMATION

Name of Operator: Robert Aukeman

Name of Dairy Facility: Aukeman Farms

Facility Address:

17297 Road 96	Tulare	Tulare	93274
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: <u>Robert Aukeman</u>	(559) 737-1411
Name	Phone Number

MANURE HAULER INFORMATION

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: <u>Jesus Gutierrez</u>	(559) 280-3719
Name	Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

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

Elk Creek Dairy	(559) 471-8304
Name	Phone Number

18035 Road 96	Tulare	CA	93274
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

Address	City	Zip Code
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Street and nearest cross street (if no address)	County
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X228-X009-X006-XXXX	Tulare
Assessor's Parcel Number	Assessor's Parcel Number County

Last date hauled: 10/13/2023

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: 589.00 tons
Manure Solids Content: 73.6 %

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: Robert Lukeman</div>	6/17/2024
Operator Signature	Date
<div>DocuSigned by: Jesus Gutierrez</div>	6/18/2024
Hauler Signature	Date

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

- 1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
- 2) If there are multiple destinations, complete a separate form for each destination.
- 3) The operator must obtain the signature of the hauler upon completion of each manure/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.

OPERATOR INFORMATION

Name of Operator: Robert Aukeman

Name of Dairy Facility: Aukeman Farms

Facility Address:

<u>17297 Road 96</u>	<u>Tulare</u>	<u>Tulare</u>	<u>93274</u>
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number:	<u>Robert Aukeman</u>	<u>(559) 737-1411</u>
	Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Gutierrez Spreading LLC

Address of Hauling Company/Person:

<u>3612 Avenue 236</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Number and Street	City	State	Zip Code

Contact Person:	<u>Jesus Gutierrez</u>	<u>(559) 280-3719</u>
	Name	Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Composting Facility

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

<u>Gutierrez Spreading LLC</u>	<u>(559) 280-3719</u>
Name	Phone Number

<u>3612 Avenue 236</u>	<u>Tulare</u>	<u>CA</u>	<u>93274</u>
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

<u>3612 Avenue 236</u>	<u>Tulare</u>	<u>93274</u>
Address	City	Zip Code

<u>Street and nearest cross street (if no address)</u>	<u>Tulare</u>
	County

<u>Assessor's Parcel Number</u>	<u>Assessor's Parcel Number County</u>
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Last date hauled: 07/18/2023

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: 2,657.85 tons
Manure Solids Content: 73.6 %

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><div>DocuSigned by:</div><div>Robert Ankeman</div><div>E9D480EF776G045B</div></div>	6/17/2024
Operator Signature	Date
<div><div>DocuSigned by:</div><div>Jesus Gutierrez</div><div>7B9G726C4E97490</div></div>	6/18/2024
Hauler Signature	Date



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

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



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

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 CaCO ₃	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 CaCO ₃	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-NH ₃ C		BEH1053
Total Nitrogen	71.5	mg/L	1.00	1		08/24/23 12:53	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 #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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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 NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 23:08	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	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-NH ₃ C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 13:07	SM 4500-NH ₃ C		BEH1053

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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 #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 NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 23:28	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	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-NH ₃ C		BEH1053
Total Nitrogen	ND	mg/L	1.00	1		08/24/23 13:09	SM 4500-NH ₃ C		BEH1053

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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

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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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 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)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	ND	10.0	mg/L						
LCS (BEH0982-BS1)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	32.5	10.0	mg/L	2000		1.62	0-200		
Duplicate (BEH0982-DUP1)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	860	10.0	mg/L		860			0.00	10
Duplicate (BEH0982-DUP2)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	1050	10.0	mg/L		1030			1.92	10
Reference (BEH0982-SRM1)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	323		mg/L	325.0		99.5	90-110		
Reference (BEH0982-SRM2)				Prepared: 8/21/2023 Analyzed: 8/23/2023					
Total Filterable Solids (TDS)	500		mg/L	495.0		101	90-110		

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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 (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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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: 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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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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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: 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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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: 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	6.6	
	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



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: 09/12/2023 14:44

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
2310425-01	IW #9	Ag Water	Jake	Irrigation Well	09/06/2023 9:10

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

Notes and Definitions

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

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:44

Sample Results

Sample: IW #9
23I0425-01 (Water)

Sampled: 9/6/2023 9:10
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	271	mg/L	10.0	1		09/07/23 17:02	SM 2320 B		BEI0145
Calcium	107	mg/L	0.1	1		09/11/23 14:21	EPA 200.7		BEI0146
Chloride	31.4	mg/L	0.2	1	250	09/07/23 00:33	EPA 300.0		BEI0128
Carbonate as CaCO ₃	ND	mg/L	1	1		09/07/23 17:02	SM 2320 B		BEI0145
Electrical Conductivity	0.93	mmhos/cm	0.01	1		09/07/23 17:02	SM 2510 B		BEI0145
Electrical Conductivity umhos	934	umhos/cm	10.0	1		09/07/23 17:02	SM 2510 B		BEI0145
Bicarbonate as CaCO₃	271	mg/L	5.00	1		09/07/23 17:02	SM 2320 B		BEI0145
Potassium	ND	mg/L	0.500	1		09/11/23 14:21	EPA 200.7		BEI0146
Magnesium	11.9	mg/L	0.1	1		09/11/23 14:21	EPA 200.7		BEI0146
Sodium	93	mg/L	1	1		09/11/23 14:21	EPA 200.7		BEI0146
Ammonia (as N)	*	mg/L	0.00	1		09/06/23 09:10	Field		BEI0116
Nitrate Nitrogen as NO₃N	31.1	mg/L	0.1	1	10	09/07/23 00:33	EPA 300.0		BEI0128
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/07/23 17:02	SM 2320 B		BEI0145
pH	8.0	units	1.0	1		09/07/23 17:02	SM 4500-H+	H	BEI0145
Sulfate (SO₄)	66.0	mg/L	0.5	1	250	09/07/23 00:33	EPA 300.0		BEI0128
Total Filterable Solids (TDS)	615	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 08:47	SM 4500-NH ₃ C		BEI0148
Total Nitrogen	31.6	mg/L	1.00	1		09/08/23 08:47	SM 4500-NH ₃ C		BEI0148

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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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Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:44

Quality Control
(Continued)

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



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: 09/12/2023 14:44

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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17781 Rd 96
Tulare, CA 93274

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

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:44

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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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: 09/12/2023 14:44

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		
Potassium	35.5	0.500	mg/L	35.71		99.3	90-110		
Calcium	36.9	0.1	mg/L	35.71		103	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			
Sodium	130	1	mg/L		123			5.06	15
Potassium	3.80	0.500	mg/L		3.93			3.47	15
Calcium	113	0.1	mg/L		112			0.979	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			
Sodium	162	1	mg/L	35.71	123	109	90-110		
Potassium	41.6	0.500	mg/L	35.71	3.93	105	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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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: 09/12/2023 14:44

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

2310425

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 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: IRRIGATION WELL

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

Sampled By:

JAKE

Description of Samples

1
2
3
4
5
6
7
8
9
10

IW #9

Date
SampledTime
SampledRec'd
Temp °CField NH₄-N

9/6/23

0910

0.6

245min

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				

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)

[X] Yes [] No

Paste Label I



09/06/23 14:50

2310425

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										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO ₄ -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: 09/12/2023 14:31

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
2310424-01	Dom Well #32	Drinking Water	Jake	Domestic Well	09/06/2023 8:45

Default Cooler Temperature on Receipt °C: -0.9
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

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

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:31

Sample Results

Sample: Dom Well #32
23I0424-01 (Water)

Sampled: 9/6/2023 8:45
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	162	mg/L	10.0	1		09/07/23 16:45	SM 2320 B		BEI0145
Calcium	40.3	mg/L	0.1	1		09/11/23 14:20	EPA 200.7		BEI0146
Chloride	20.5	mg/L	0.2	1	250	09/07/23 00:13	EPA 300.0		BEI0128
Carbonate as CaCO3	ND	mg/L	1	1		09/07/23 16:45	SM 2320 B		BEI0145
Electrical Conductivity	0.59	mmhos/cm	0.01	1		09/07/23 16:45	SM 2510 B		BEI0145
Electrical Conductivity umhos	586	umhos/cm	10.0	1		09/07/23 16:45	SM 2510 B		BEI0145
Bicarbonate as CaCO3	162	mg/L	5.00	1		09/07/23 16:45	SM 2320 B		BEI0145
Potassium	ND	mg/L	0.500	1		09/11/23 14:20	EPA 200.7		BEI0146
Magnesium	3.1	mg/L	0.1	1		09/11/23 14:20	EPA 200.7		BEI0146
Sodium	92	mg/L	1	1		09/11/23 14:20	EPA 200.7		BEI0146
Ammonia (as N)	*	mg/L	0.00	1		09/06/23 08:45	Field		BEI0135
Nitrate Nitrogen as NO3N	10.9	mg/L	0.1	1	10	09/07/23 00:13	EPA 300.0		BEI0128
Hydroxide as CaCO3	ND	mg/L	1.00	1		09/07/23 16:45	SM 2320 B		BEI0145
pH	8.2	units	1.0	1		09/07/23 16:45	SM 4500-H+	H	BEI0145
Sulfate (SO4)	67.3	mg/L	0.5	1	250	09/07/23 00:13	EPA 300.0		BEI0128
Total Filterable Solids (TDS)	393	mg/L	10.0	1		09/08/23 13:57	SM 2540 C		BEI0143

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

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:31

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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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: 09/12/2023 14:31

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	Prepared: 9/7/2023 Analyzed: 9/8/2023	1.56	0-200		
Duplicate (BEI0143-DUP1)									
Total Filterable Solids (TDS)	3150	10.0	mg/L		Prepared: 9/7/2023 Analyzed: 9/8/2023	3120		1.06	10
Duplicate (BEI0143-DUP2)									
Total Filterable Solids (TDS)	628	10.0	mg/L		Prepared: 9/7/2023 Analyzed: 9/8/2023	615		2.01	10
Reference (BEI0143-SRM1)									
Total Filterable Solids (TDS)	327		mg/L	325.0	Prepared: 9/7/2023 Analyzed: 9/8/2023	101	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: 09/12/2023 14:31

Quality Control
(Continued)

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

Batch: BEI0145

Blank (BEI0145-BLK1)				Prepared & Analyzed: 9/7/2023					
Alkalinity as CaCO3	ND	10.0	mg/L						
pH	4.9	1.0	units						
Hydroxide as CaCO3	ND	1.00	mg/L						
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 (BEI0145-BLK2)				Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Alkalinity as CaCO3	ND	10.0	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Carbonate as CaCO3	ND	1	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 (BEI0145-BLK3)				Prepared & Analyzed: 9/7/2023					
Alkalinity as CaCO3	ND	10.0	mg/L						
Carbonate as CaCO3	ND	1	mg/L						
Hydroxide as CaCO3	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.1	1.0	units						
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					
pH	8.2	1.0	units		8.2			0.243	10
Hydroxide as CaCO3	ND	1.00	mg/L		ND				10
Electrical Conductivity	0.58	0.01	mmhos/cm		0.59			0.308	10
Carbonate as CaCO3	ND	1	mg/L		ND				10
Alkalinity as CaCO3	161	10.0	mg/L		162			0.700	10
Electrical Conductivity umhos	584	10.0	umhos/cm		586			0.308	10

Duplicate (BEI0145-DUP2)		Source: 23I0425-01		Prepared & Analyzed: 9/7/2023					
Carbonate as CaCO3	ND	1	mg/L		ND				10
pH	8.0	1.0	units		8.0			0.376	10
Electrical Conductivity	0.94	0.01	mmhos/cm		0.93			0.289	10
Hydroxide as CaCO3	ND	1.00	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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17781 Rd 96
Tulare, CA 93274

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

Received: 09/06/2023 14:50
Reported: 09/12/2023 14:31

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					
Alkalinity as CaCO ₃	39.3		mg/L	40.60		96.8	90-110		
Electrical Conductivity	523		umhos/cm	538.0		97.1	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					
Alkalinity as CaCO ₃	42.8		mg/L	40.60		106	90-110		
Electrical Conductivity	545		umhos/cm	538.0		101	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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Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

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

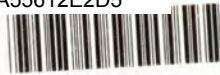
Received: 09/06/2023 14:50
Reported: 09/12/2023 14:31

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					
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEI0146-BLK2)									
Blank (BEI0146-BLK2)				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEI0146-BS1)									
LCS (BEI0146-BS1)				Prepared: 9/7/2023 Analyzed: 9/11/2023					
Sodium	37	1	mg/L	35.71		103	90-110		
Potassium	35.5	0.500	mg/L	35.71		99.3	90-110		
Calcium	36.9	0.1	mg/L	35.71		103	90-110		
Magnesium	37.3	0.1	mg/L	35.71		105	90-110		
Duplicate (BEI0146-DUP1)									
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
Sodium	130	1	mg/L		123			5.06	15
Calcium	113	0.1	mg/L		112			0.979	15
Magnesium	97.2	0.1	mg/L		92.2			5.31	15
Matrix Spike (BEI0146-MS1)									
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		
Calcium	148	0.1	mg/L	35.71	112	101	90-110		
Sodium	162	1	mg/L	35.71	123	109	90-110		
Magnesium	127	0.1	mg/L	35.71	92.2	96.9	90-110		
Reference (BEI0146-SRM2)									
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)									
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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Paste Label Here



09/06/23 14:50

2310424

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										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
Special	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO ₄ -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:											



09/06/23 14:50

2310424

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

Acct #

Cons #

No. Samples:

1

No of Bottles:

1

Results Need By

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: DOMESTIC WELL

[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

Description of Samples

Don WELL #32

Date
Sampled

9/6/23

Time
Sampled

0845

Rec'd
Temp °C

-0.9

Field NH₄-N PURGE
20 minIR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

Kara 9/7/23

11:41 - left rm. for Alex R.

15:04 - per Alex, OK & Hux

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	DIT	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



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: 08/28/2023 13:47

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1714-01	Dom Well North	Drinking Water	Jake	Domestic Wells	08/18/2023 8:41
23H1714-02	Dom Well South	Drinking Water	Jake	Domestic Wells	08/18/2023 8:49
23H1714-03	Dom Well Middle	Drinking Water	Jake	Domestic Wells	08/18/2023 8:59

Default Cooler Temperature on Receipt °C: 0.3
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 that reads "Scott M. Friedland".

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02



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: 08/28/2023 13:47

Sample Results

Sample: Dom Well North
23H1714-01 (Water)

Sampled: 8/18/2023 8:41

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	130	mg/L	10.0	1		08/22/23 13:21	SM 2320 B		BEH0949
Calcium	16.1	mg/L	0.1	1		08/22/23 12:52	EPA 200.7		BEH0945
Chloride	16.5	mg/L	0.2	1	250	08/18/23 18:31	EPA 300.0		BEH0944
Carbonate as CaCO3	10	mg/L	1	1		08/22/23 13:21	SM 2320 B		BEH0949
Electrical Conductivity	0.41	mmhos/cm	0.01	1		08/22/23 13:21	SM 2510 B		BEH0949
Electrical Conductivity umhos	415	umhos/cm	10.0	1		08/22/23 13:21	SM 2510 B		BEH0949
Bicarbonate as CaCO3	120	mg/L	5.00	1		08/22/23 13:21	SM 2320 B		BEH0949
Potassium	ND	mg/L	0.500	1		08/22/23 12:52	EPA 200.7		BEH0945
Magnesium	1.3	mg/L	0.1	1		08/22/23 12:52	EPA 200.7		BEH0945
Sodium	78	mg/L	1	1		08/22/23 12:52	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:41	Field		BEH1305
Nitrate Nitrogen as NO3N	3.7	mg/L	0.1	1	10	08/18/23 18:31	EPA 300.0		BEH0944
Hydroxide as CaCO3	ND	mg/L	1.00	1		08/22/23 13:21	SM 2320 B		BEH0949
pH	8.6	units	1.0	1		08/22/23 13:21	SM 4500-H+	H	BEH0949
Sulfate (SO4)	37.7	mg/L	0.5	1	250	08/18/23 18:31	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	278	mg/L	10.0	1		08/23/23 15:00	SM 2540 C		BEH0981

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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: 08/28/2023 13:47

Sample Results (Continued)

**Sample: Dom Well South
23H1714-02 (Water)**

Sampled: 8/18/2023 8:49

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		08/22/23 13:21	SM 2320 B		BEH0949
Calcium	15.6	mg/L	0.1	1		08/22/23 12:54	EPA 200.7		BEH0945
Chloride	16.5	mg/L	0.2	1	250	08/18/23 18:51	EPA 300.0		BEH0944
Carbonate as CaCO₃	12	mg/L	1	1		08/22/23 13:21	SM 2320 B		BEH0949
Electrical Conductivity	0.41	mmhos/cm	0.01	1		08/22/23 13:21	SM 2510 B		BEH0949
Electrical Conductivity umhos	411	umhos/cm	10.0	1		08/22/23 13:21	SM 2510 B		BEH0949
Bicarbonate as CaCO₃	128	mg/L	5.00	1		08/22/23 13:21	SM 2320 B		BEH0949
Potassium	ND	mg/L	0.500	1		08/22/23 12:54	EPA 200.7		BEH0945
Magnesium	1.2	mg/L	0.1	1		08/22/23 12:54	EPA 200.7		BEH0945
Sodium	79	mg/L	1	1		08/22/23 12:54	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:49	Field		BEH1305
Nitrate Nitrogen as NO₃N	3.7	mg/L	0.1	1	10	08/18/23 18:51	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 13:21	SM 2320 B		BEH0949
pH	8.7	units	1.0	1		08/22/23 13:21	SM 4500-H+	H	BEH0949
Sulfate (SO₄)	37.4	mg/L	0.5	1	250	08/18/23 18:51	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	280	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982

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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: 08/28/2023 13:47

Sample Results (Continued)

**Sample: Dom Well Middle
23H1714-03 (Water)**

Sampled: 8/18/2023 8:59

Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO₃	181	mg/L	10.0	1		08/22/23 13:21	SM 2320 B		BEH0949
Calcium	52.0	mg/L	0.1	1		08/22/23 12:55	EPA 200.7		BEH0945
Chloride	24.6	mg/L	0.2	1	250	08/18/23 19:11	EPA 300.0		BEH0944
Carbonate as CaCO ₃	ND	mg/L	1	1		08/22/23 13:21	SM 2320 B		BEH0949
Electrical Conductivity	0.68	mmhos/cm	0.01	1		08/22/23 13:21	SM 2510 B		BEH0949
Electrical Conductivity umhos	683	umhos/cm	10.0	1		08/22/23 13:21	SM 2510 B		BEH0949
Bicarbonate as CaCO₃	181	mg/L	5.00	1		08/22/23 13:21	SM 2320 B		BEH0949
Potassium	0.530	mg/L	0.500	1		08/22/23 12:55	EPA 200.7		BEH0945
Magnesium	4.4	mg/L	0.1	1		08/22/23 12:55	EPA 200.7		BEH0945
Sodium	97	mg/L	1	1		08/22/23 12:55	EPA 200.7		BEH0945
Ammonia (as N)	*	mg/L	0.00	1		08/18/23 08:59	Field		BEH1305
Nitrate Nitrogen as NO₃N	14.8	mg/L	0.1	1	10	08/18/23 19:11	EPA 300.0		BEH0944
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		08/22/23 13:21	SM 2320 B		BEH0949
pH	7.9	units	1.0	1		08/22/23 13:21	SM 4500-H+	H	BEH0949
Sulfate (SO₄)	67.5	mg/L	0.5	1	250	08/18/23 19:11	EPA 300.0		BEH0944
Total Filterable Solids (TDS)	460	mg/L	10.0	1		08/23/23 15:11	SM 2540 C		BEH0982

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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: 08/28/2023 13:47

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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Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/28/2023 13:47

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							
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							
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							
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							
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)									
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)									
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)									
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)									
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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Submitted By: Bob 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: BEH0945									
Blank (BEH0945-BLK1)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Calcium	ND	0.1	mg/L						
Magnesium	ND	0.1	mg/L						
Blank (BEH0945-BLK2)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Calcium	ND	0.1	mg/L						
Potassium	ND	0.500	mg/L						
Sodium	ND	1	mg/L						
Magnesium	ND	0.1	mg/L						
LCS (BEH0945-BS1)									
				Prepared: 8/18/2023 Analyzed: 8/22/2023					
Sodium	38	1	mg/L	35.71		107	90-110		
Calcium	38.3	0.1	mg/L	35.71		107	90-110		
Potassium	37.3	0.500	mg/L	35.71		104	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		
Sodium	39	1	mg/L	35.71		110	90-110		
Calcium	38.6	0.1	mg/L	35.71		108	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			
Sodium	27	1	mg/L		28			1.62	15
Potassium	3.39	0.500	mg/L		3.50			2.96	15
Calcium	40.6	0.1	mg/L		42.0			3.54	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			
Calcium	85.2	0.1	mg/L	35.71	42.0	121	90-110		
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		
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					
Sodium	100		mg/L	91.50		109	90-110		

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Received: 08/18/2023 12:14
Reported: 08/28/2023 13:47

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEH0945 (Continued)

Reference (BEH0945-SRM2)

Potassium	20.6	mg/L	21.90	94.2	90-110
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Prepared: 8/18/2023 Analyzed: 8/22/2023

Reference (BEH0945-SRM3)

Calcium	49.4	mg/L	45.90	108	90-110
Magnesium	37.5	mg/L	35.60	105	90-110

Prepared: 8/18/2023 Analyzed: 8/22/2023



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Reported: 08/28/2023 13:47

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

Alkalinity as CaCO ₃	ND	10.0	mg/L						
pH	5.1	1.0	units						
Carbonate as CaCO ₃	ND	1	mg/L						
Hydroxide as CaCO ₃	ND	1.00	mg/L						
Electrical Conductivity	ND	0.01	mmhos/cm						
Bicarbonate as CaCO ₃	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 CaCO ₃	ND	10.0	mg/L						
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	5.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Bicarbonate as CaCO ₃	ND	5.00	mg/L						

Blank (BEH0949-BLK3)

Prepared: 8/18/2023 Analyzed: 8/22/2023

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

Duplicate (BEH0949-DUP1)

Source: 23H1598-01

Prepared: 8/18/2023 Analyzed: 8/22/2023

Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10
Alkalinity as CaCO ₃	276	10.0	mg/L		276		0.272	10
Electrical Conductivity	0.70	0.01	mmhos/cm		0.70		0.230	10
Carbonate as CaCO ₃	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

Hydroxide as CaCO ₃	ND	1.00	mg/L		ND			10
Alkalinity as CaCO ₃	149	10.0	mg/L		148		0.921	10
Electrical Conductivity	0.74	0.01	mmhos/cm		0.73		1.29	10
pH	8.0	1.0	units		8.0		0.125	10
Carbonate as CaCO ₃	ND	1	mg/L		ND			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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17781 Road 96
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Account Manager: Ben Nydam
Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/28/2023 13:47

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					
Electrical Conductivity	516		umhos/cm	538.0		96.0	90-110		
Alkalinity as CaCO ₃	40.3		mg/L	40.60		99.4	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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Received: 08/18/2023 12:14
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Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0981									
Blank (BEH0981-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023					
LCS (BEH0981-BS1)									
Total Filterable Solids (TDS)	32.5	10.0	mg/L	2000		1.62	0-200		
Duplicate (BEH0981-DUP1)									
Total Filterable Solids (TDS)	3550	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023		3280		7.80	10
Duplicate (BEH0981-DUP2)									
Total Filterable Solids (TDS)	950	10.0	mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023		950		0.00	10
Reference (BEH0981-SRM1)									
Total Filterable Solids (TDS)	330		mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023		325.0	102	90-110	
Reference (BEH0981-SRM2)									
Total Filterable Solids (TDS)	490		mg/L	Prepared: 8/21/2023 Analyzed: 8/23/2023		495.0	99.0	90-110	

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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: 08/28/2023 13:47

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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08/18/23 12:14

23H1714

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:

3

No of Bottles:

3

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: DOMESTIC WELLS

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

Sampled By:

JAKE

Description of Samples

1030

3.7 3.7 Dom WELL NORTH

3.7 1403 Dom WELL SOUTH

1403 76.5 Dom WELL MIDDLE

4

5

6

7

8

9

10

Water Type:

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

Other:

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

☐ OtherDate
SampledTime
SampledRec'd
Temp °CField NH₄-N

8/18/23

0841

0.3

30 min

↓

0849

0.3

↓

↓

0859

-0.4

↓

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

Kara 8/21/23

12:44 - left van for Alex R

8/22 12:22

-per Alex, OK & H&M

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				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should I 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.

Inventory Information:

Shipping

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

23H1714

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										
	PO ₄ -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)										
Special	1 L AG HCl (Blue)										
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1 L 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 that reads "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 NO ₃ N	ND	0.1	mg/L						
Blank (BEI0128-BLK2)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO ₃ N	ND	0.1	mg/L						
LCS (BEI0128-BS1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO ₃ N	5.1	0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0128-DUP1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO ₃ N	4.8	0.1	mg/L	4.8				0.273	10
Matrix Spike (BEI0128-MS1)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO ₃ N	10.8	0.1	mg/L	5.000	4.8	120	90-110		
Reference (BEI0128-SRM1)				Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO ₃ N	9.9		mg/L	10.00		99.3	90-110		
Reference (BEI0128-SRM2)				Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO ₃ N	9.8		mg/L	10.00		98.5	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: 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	Prepared: 9/7/2023 Analyzed: 9/8/2023	1.56	0-200		
Duplicate (BEI0143-DUP1)									
Source: 23I0409-01									
Total Filterable Solids (TDS)	3150	10.0	mg/L		Prepared: 9/7/2023 Analyzed: 9/8/2023	3120		1.06	10
Duplicate (BEI0143-DUP2)									
Source: 23I0425-01									
Total Filterable Solids (TDS)	628	10.0	mg/L		Prepared: 9/7/2023 Analyzed: 9/8/2023	615		2.01	10
Reference (BEI0143-SRM1)									
Total Filterable Solids (TDS)	327		mg/L	325.0	Prepared: 9/7/2023 Analyzed: 9/8/2023	101	90-110		

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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: 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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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 (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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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: 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	DI	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	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	42	52										
	500 mL unpreserved (White) Plastic												
Special	1 L unpreserved (White) Plastic	1	1										
	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												
VOA Vials	1 L HNO ₃ (Red)												
	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)												
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)												
	40mL AG VOA unpreserved (White) (Set of 3)												
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)												
	40mL VOA, H ₃ PO ₄ (Set of 3)												
	40 mL VOA, HCl (Blue) (Set of 3)												
Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)												
	250 mL AG unpreserved (White)												
	250 mL AG H ₂ SO ₄ (Yellow)												
	250 mL AG Na ₂ S ₂ O ₃ (Green)												
	250 mL AG Na ₂ S ₂ O ₃ + MCAA												
	500 mL glass unpreserved (White)												
	500 mL AG HCl (Blue)												
	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:													