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 #2 (Formerly Golden Valley Dairy)

Physical address of dairy:

18183 S I DR	Tulare	Tulare	93274
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 07/01/1985

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X228-X012-X010-XXXX

B. OPERATORS

Aukeman, Robert

Operator name: Aukeman, Robert

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

17297 Road 96	Tulare	CA	93274
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Aukeman, Robert

Legal owner name: Aukeman, Robert

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

17297 Road 96	Tulare	CA	93274
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	0	65	125	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	70	135	0
Average number	0	0	0	65	125	0
Avg live weight (lbs)	0	0	0	650		

Predominant milk cow breed: Holstein

Average milk production: 1 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 1,038.18 *tons per reporting period*

Total nitrogen from manure: 12,556.00 *lbs per reporting period* After ammonia losses (30% loss applied): 8,789.20 *lbs per reporting period*

Total phosphorus from manure: 1,495.59 *lbs per reporting period*

Total potassium from manure: 1.00 *lbs per reporting period*

Total salt from manure: 0.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: _____ *gallons*

Total nitrogen generated: _____ *lbs*

Total phosphorus generated: _____ *lbs*

Total potassium generated: _____ *lbs*

Total salt generated: _____ *lbs*

	0	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	0	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
IW 28	Ground water
IW 29	Ground water
IW 30	Ground water
IW 31	Ground water
Tule River Canal	Ground 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 (%)
03/31/2023	Corral solids *Corral Solids (Aukeman Farms)*	2,334.00 *ton*	Dry-weight	18.7	12,000.00	3,700.00	17,100.00		0.00

No process wastewater nutrient imports entered.

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
06/04/2023	Solid commercial fertilizer *UN 32*	17.72 *ton*	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	11,329.46	0.00	0.00	0.00
Dry manure	45,541.01	14,041.81	64,895.94	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	56,870.47	14,041.81	64,895.94	0.00

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 24	48	48	1	manure	X228-X012-X010-XXXX
Field 25	1	1	1	none	X228-X012-X010-XXXX
Field 26	16	16	1	none	X228-X012-X010-XXXX
Field 27	37	37	1	manure	X228-X012-X010-XXXX
Field 28	38	38	1	manure	X228-X012-X010-XXXX
Field 29	66	66	1	manure	X228-X013-X006-XXXX
Totals for areas that were used for application	189	189	4		
Totals for areas that were not used for application	17	17	2		
Land application area totals	206	206	6		

B. CROPS AND HARVESTS

Field 24

Field name: Field 24

04/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 48 Plant date: 04/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	1,704.70 *ton*	As-is		66.0	4,300.00	700.00	5,400.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	35.51	305.43	49.72	383.56	1,666.34

Field 25

Field name: Field 25

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Field 25

04/26/2023: Pistachios

Crop: Pistachios Acres planted: 1 Plant date: 04/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *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 26

Field name: Field 26

04/26/2023: Pistachios

Crop: Pistachios Acres planted: 16 Plant date: 04/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *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	0.00	0.00	0.00	0.00	0.00

Field 27

Field name: Field 27

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Field 27

04/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 04/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	1,212.80 *ton*	As-is		62.8	4,500.00	800.00	4,700.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.78	295.01	52.45	308.12	1,463.23

Field 28

Field name: Field 28

04/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/09/2023	1,389.50 *ton*	As-is		65.0	4,300.00	700.00	4,500.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	36.57	314.47	51.19	329.09	1,433.38

Field 29

Field name: Field 29

Field 29

04/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 66 Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/09/2023	2,308.00 *ton*	As-is		66.6	4,100.00	700.00	4,300.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.97	286.75	48.96	300.74	1,541.74

NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 24 - 04/21/2023: Corn, silage

Field name: Field 24

Crop: Corn, silage Plant date: 04/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/31/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	308.13	95.01	439.08	0.00	758.00 *ton*
Application event totals		308.13	95.01	439.08	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Tule River Canal	Ground water	0.68	0.00	0.00	19.74	3,915,000.00 *gal*
Application event totals		0.68	0.00	0.00	19.74	

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
Tule River Canal	Ground water	0.51	0.00	0.00	14.75	2,925,000.00 *gal*
Application event totals		0.51	0.00	0.00	14.75	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Tule River Canal	Ground water	0.56	0.00	0.00	16.34	3,240,000.00 *gal*
Application event totals		0.56	0.00	0.00	16.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Tule River Canal	Ground water	1.13	0.00	0.00	32.90	6,525,000.00 *gal*
Application event totals		1.13	0.00	0.00	32.90	

Field 24 - 04/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/04/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	60.00	0.00	0.00	0.00	
Application event totals		60.00	0.00	0.00	0.00	

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
Tule River Canal	Ground water	1.08	0.00	0.00	31.31	6,210,000.00 *gal*
Application event totals		1.08	0.00	0.00	31.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 30	Ground water	0.44	0.00	0.00	116.60	2,502,600.00 *gal*
Tule River Canal	Ground water	0.76	0.00	0.00	22.01	4,365,000.00 *gal*
Application event totals		1.19	0.00	0.00	138.61	

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 30	Ground water	0.41	0.00	0.00	110.59	2,373,600.00 *gal*
Tule River Canal	Ground water	0.72	0.00	0.00	20.87	4,140,000.00 *gal*
Application event totals		1.13	0.00	0.00	131.47	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Ground water	0.45	0.00	0.00	13.16	2,610,000.00 *gal*
Application event totals		0.45	0.00	0.00	13.16	

Field 25 - 04/26/2023: Pistachios

Field name: Field 25

Crop: Pistachios Plant date: 04/26/2023

Field 25 - 04/26/2023: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/13/2023	Microsprinkler	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	Ground water	2.72	0.00	0.00	78.85	325,800.00 *gal*
Application event totals		2.72	0.00	0.00	78.85	

Field 26 - 04/26/2023: Pistachios

Field name: Field 26

Crop: Pistachios Plant date: 04/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/13/2023	Microsprinkler	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	Ground water	2.72	0.00	0.00	78.82	5,211,000.00 *gal*
Application event totals		2.72	0.00	0.00	78.82	

Field 27 - 04/21/2023: Corn, silage

Field name: Field 27

Crop: Corn, silage Plant date: 04/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	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
Corral Solids	Corral solids	294.26	90.73	419.32	0.00	558.00 *ton*
Application event totals		294.26	90.73	419.32	0.00	

Field 27 - 04/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.68	0.00	0.00	19.72	3,015,000.00 *gal*
Application event totals		0.68	0.00	0.00	19.72	

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
Tule River Canal	Ground water	0.51	0.00	0.00	14.72	2,250,000.00 *gal*
Application event totals		0.51	0.00	0.00	14.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.57	0.00	0.00	16.48	2,520,000.00 *gal*
Application event totals		0.57	0.00	0.00	16.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/07/2023	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	Ground water	1.14	0.00	0.00	32.97	5,040,000.00 *gal*
Application event totals		1.14	0.00	0.00	32.97	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/07/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	60.00	0.00	0.00	0.00	
Application event totals		60.00	0.00	0.00	0.00	

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	Ground water	1.10	0.00	0.00	31.79	4,860,000.00 *gal*
Application event totals		1.10	0.00	0.00	31.79	

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Field 27 - 04/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 30	Ground water	0.43	0.00	0.00	115.40	1,909,200.00 *gal*
Tule River Canal	Ground water	0.75	0.00	0.00	21.78	3,330,000.00 *gal*
Application event totals		1.18	0.00	0.00	137.18	

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 30	Ground water	0.42	0.00	0.00	113.84	1,883,400.00 *gal*
Tule River Canal	Ground water	0.74	0.00	0.00	21.49	3,285,000.00 *gal*
Application event totals		1.17	0.00	0.00	135.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.45	0.00	0.00	12.95	1,980,000.00 *gal*
Application event totals		0.45	0.00	0.00	12.95	

Field 28 - 04/20/2023: Corn, silage

Field name: Field 28

Crop: Corn, silage Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/26/2023	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
Corral Solids	Corral solids	294.95	97.91	388.03	5,270.41	379.00 *ton*
Application event totals		294.95	97.91	388.03	5,270.41	

Field 28 - 04/20/2023: Corn, silage

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	Ground water	0.68	0.00	0.00	19.77	3,105,000.00 *gal*
Application event totals		0.68	0.00	0.00	19.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/10/2023	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	Ground water	0.51	0.00	0.00	14.90	2,340,000.00 *gal*
Application event totals		0.51	0.00	0.00	14.90	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.60	0.00	0.00	17.48	2,745,000.00 *gal*
Application event totals		0.60	0.00	0.00	17.48	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	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	Ground water	1.13	0.00	0.00	32.67	5,130,000.00 *gal*
Application event totals		1.13	0.00	0.00	32.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	60.00	0.00	0.00	0.00	
Application event totals		60.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/23/2023	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	Ground water	1.02	0.00	0.00	29.52	4,635,000.00 *gal*
Application event totals		1.02	0.00	0.00	29.52	

Field 28 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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 30	Ground water	0.43	0.00	0.00	115.40	1,960,800.00 *gal*
Tule River Canal	Ground water	0.75	0.00	0.00	21.78	3,420,000.00 *gal*
Application event totals		1.18	0.00	0.00	137.18	

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 30	Ground water	0.42	0.00	0.00	113.88	1,935,000.00 *gal*
Tule River Canal	Ground water	0.74	0.00	0.00	21.49	3,375,000.00 *gal*
Application event totals		1.17	0.00	0.00	135.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.51	0.00	0.00	14.90	2,340,000.00 *gal*
Application event totals		0.51	0.00	0.00	14.90	

Field 29 - 04/20/2023: Corn, silage

Field name: Field 29

Crop: Corn, silage Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/04/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral solids	300.96	92.80	428.86	0.00	1,018.00 *ton*
Application event totals		300.96	92.80	428.86	0.00	

Field 29 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/29/2023	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
Tule River Canal	Ground water	0.68	0.00	0.00	19.80	5,400,000.00 *gal*
Application event totals		0.68	0.00	0.00	19.80	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/11/2023	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	Ground water	0.51	0.00	0.00	14.85	4,050,000.00 *gal*
Application event totals		0.51	0.00	0.00	14.85	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.53	0.00	0.00	15.51	4,230,000.00 *gal*
Application event totals		0.53	0.00	0.00	15.51	

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	Ground water	1.17	0.00	0.00	33.83	9,225,000.00 *gal*
Application event totals		1.17	0.00	0.00	33.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/11/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Solid commercial fertilizer	60.00	0.00	0.00	0.00	
Application event totals		60.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	Ground water	1.12	0.00	0.00	32.51	8,865,000.00 *gal*
Application event totals		1.12	0.00	0.00	32.51	

Field 29 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
IW 30	Ground water	0.43	0.00	0.00	116.28	3,431,400.00 *gal*
Tule River Canal	Ground water	0.76	0.00	0.00	21.95	5,985,000.00 *gal*
Application event totals		1.19	0.00	0.00	138.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW 30	Ground water	0.41	0.00	0.00	111.03	3,276,600.00 *gal*
Tule River Canal	Ground water	0.72	0.00	0.00	20.96	5,715,000.00 *gal*
Application event totals		1.14	0.00	0.00	131.99	

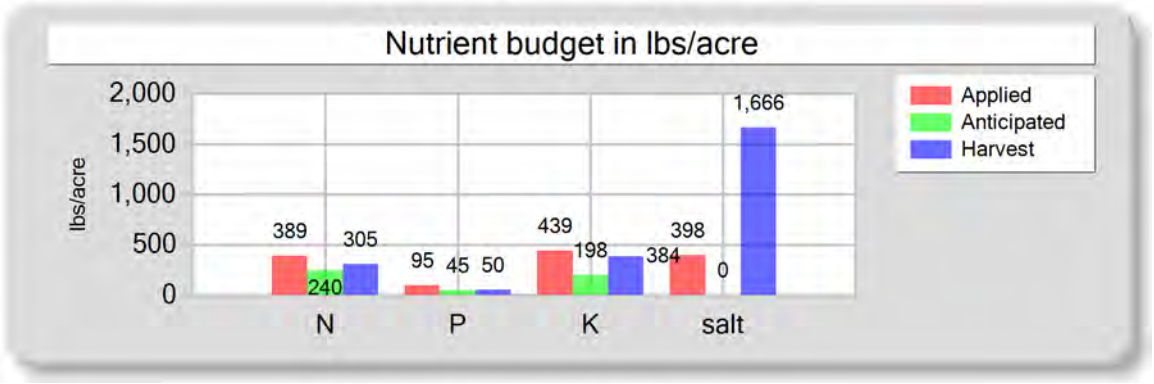
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tule River Canal	Ground water	0.46	0.00	0.00	13.20	3,600,000.00 *gal*
Application event totals		0.46	0.00	0.00	13.20	

B. NUTRIENT BUDGET

Field 24 - 04/21/2023: Corn, silage

Field name: Field 24 Crop: Corn, silage Plant date: 04/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	60.00	0.00	0.00	0.00
Dry manure	308.13	95.01	439.08	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.75	0.00	0.00	398.26
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	388.87	95.01	439.08	398.26
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	305.43	49.72	383.56	1,666.34
Nutrient balance	83.45	45.29	55.52	-1,268.08
Applied to removed ratio	1.27	1.91	1.14	0.24

Fresh water applied	
38,806,200.00	*gallons*
1,429.10	*acre-inches*
29.77	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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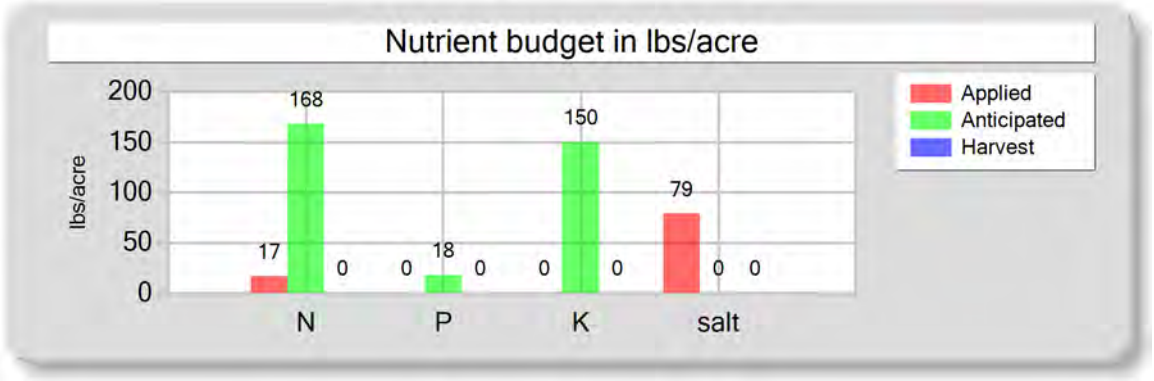
Reporting period 01/01/2023 to 12/31/2023.

Field 25 - 04/26/2023: Pistachios

Field name: Field 25 Crop: Pistachios Plant date: 04/26/2023



	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	0.00	0.00	0.00	0.00
Fresh water	2.72	0.00	0.00	78.85
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.72	0.00	0.00	78.85
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	16.72	0.00	0.00	78.85
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
325,800.00	*gallons*
12.00	*acre-inches*
12.00	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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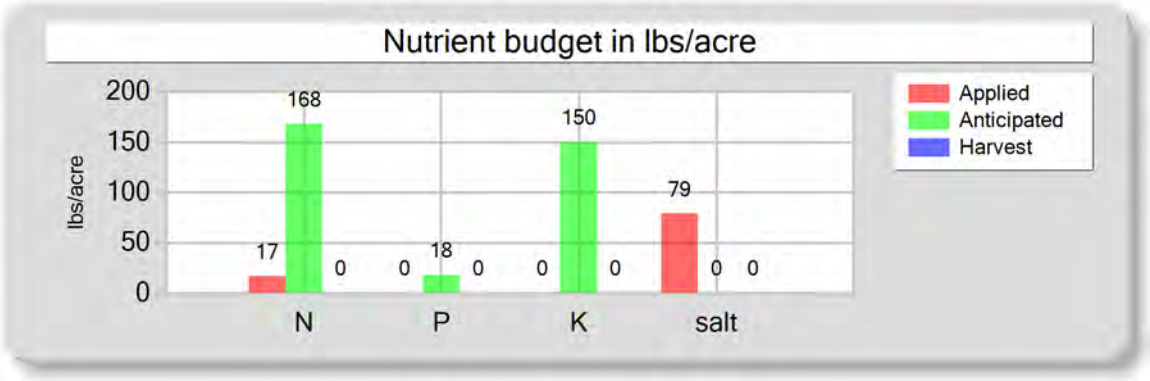
Reporting period 01/01/2023 to 12/31/2023.

Field 26 - 04/26/2023: Pistachios

Field name: Field 26 Crop: Pistachios Plant date: 04/26/2023



	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	0.00	0.00	0.00	0.00
Fresh water	2.72	0.00	0.00	78.82
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	16.72	0.00	0.00	78.82
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	16.72	0.00	0.00	78.82
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
5,211,000.00	*gallons*
191.90	*acre-inches*
11.99	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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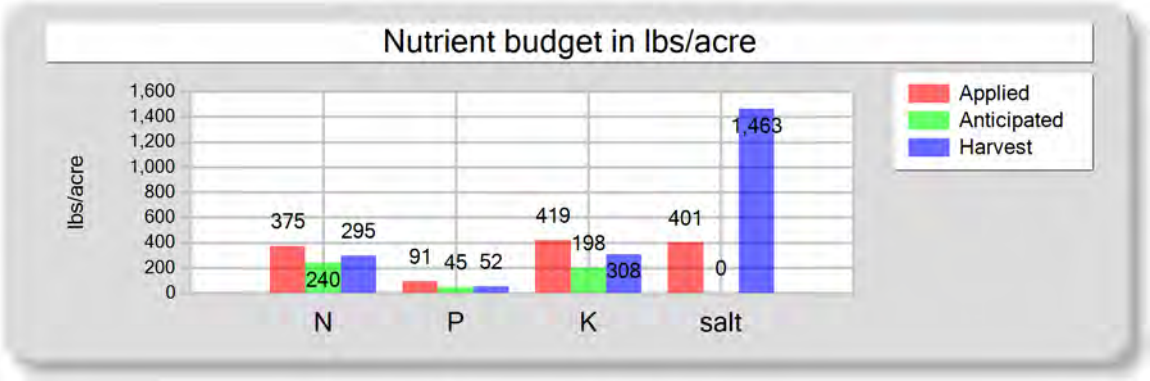
Field 27 - 04/21/2023: Corn, silage

Field name: Field 27 Crop: Corn, silage Plant date: 04/21/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	60.00	0.00	0.00	0.00
Dry manure	294.26	90.73	419.32	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.78	0.00	0.00	401.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	375.04	90.73	419.32	401.13
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	295.01	52.45	308.12	1,463.23
Nutrient balance	80.04	38.29	111.21	-1,062.09
Applied to removed ratio	1.27	1.73	1.36	0.27

Fresh water applied	
30,072,600.00	*gallons*
1,107.47	*acre-inches*
29.93	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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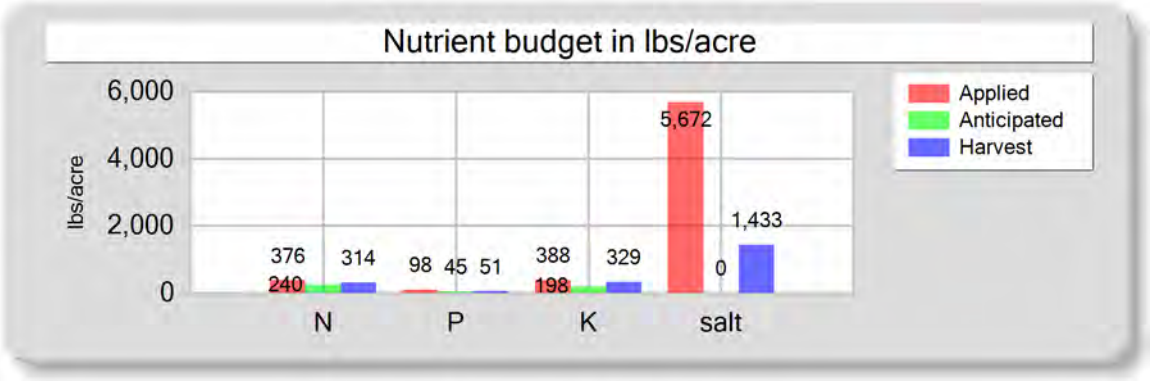
Field 28 - 04/20/2023: Corn, silage

Field name: Field 28 Crop: Corn, silage Plant date: 04/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	60.00	0.00	0.00	0.00
Dry manure	294.95	97.91	388.03	5,270.41
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.80	0.00	0.00	401.81
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	375.75	97.91	388.03	5,672.22
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	314.47	51.19	329.09	1,433.38
Nutrient balance	61.29	46.72	58.94	4,238.84
Applied to removed ratio	1.19	1.91	1.18	3.96

Fresh water applied	
30,985,800.00	*gallons*
1,141.10	*acre-inches*
30.03	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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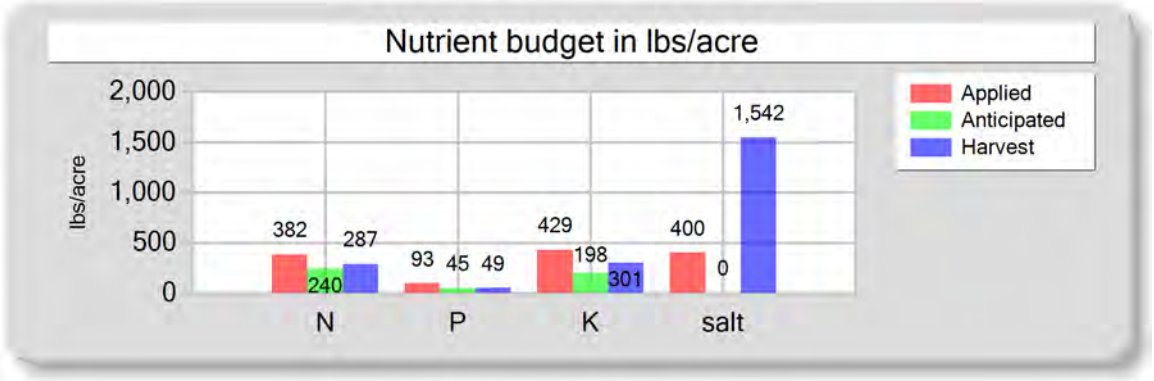
Field 29 - 04/20/2023: Corn, silage

Field name: Field 29 Crop: Corn, silage Plant date: 04/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	60.00	0.00	0.00	0.00
Dry manure	300.96	92.80	428.86	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.80	0.00	0.00	399.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	381.76	92.80	428.86	399.90
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	286.75	48.96	300.74	1,541.74
Nutrient balance	95.01	43.84	128.13	-1,141.84
Applied to removed ratio	1.33	1.90	1.43	0.26

Fresh water applied	
53,778,000.00	*gallons*
1,980.46	*acre-inches*
30.01	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral Solids

Sample and source description: Corral Solids
Sample date: 04/18/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 39.4 %

	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	24,400.00	8,100.00	32,100.00	31,400.00	11,900.00	6,200.00	6,100.00	6,000.00		43.60
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: 21.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,500.00	6,500.00	31,100.00							0.00
DL	100.00	100.00	100.00							0.01

B. PROCESS WASTEWATER ANALYSES

1QWW

Sample and source description: 1QWW
Sample date: 02/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	285.00	183.00	0.00	1.00	19.30	402.00								4,780.00	2,230
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

2QWW

Sample and source description: 2QWW

Sample date: 06/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.20

	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	235.00	166.00	0.00	0.60	34.40	627.00								5,380.00	2,840
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

3QWW

Sample and source description: 3QWW

Sample date: 09/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.50

	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	120.00	59.80	0.00	0.90	31.50	777.00	134.00	133.00	345.00	2,360.00	107.00	52.10	419.00	5,920.00	4,360
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	1.00	10

4QWW

Sample and source description: 4QWW

Sample date: 10/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.40

	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	105.00	45.20	0.00	0.70	36.10	947.00								6,610.00	4,750
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

C. FRESH WATER ANALYSES

IW 30

IW 30

Fresh Water

Sample description: Fresh Water

Sample 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								444.00	268
DL	1.00	0.50	0.10								10.00	10

Tule River Canal

Fresh Water

Sample description: Fresh Water

Sample date: 09/06/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.00	0.00	0.10								25.00	29
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 24 - 04/21/2023: Corn, silage

Field 24 - 04/21/2023: 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: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	700.00	5,400.00		6.90
DL	100.00	100.00	100.00		0.01

Field 27 - 04/21/2023: 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: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	800.00	4,700.00		6.00
DL	100.00	100.00	100.00		0.01

Field 28 - 04/20/2023: 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: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	700.00	4,500.00		5.60
DL	100.00	100.00	100.00		0.01

Field 29 - 04/20/2023: 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: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	4,300.00		6.60
DL	100.00	100.00	100.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

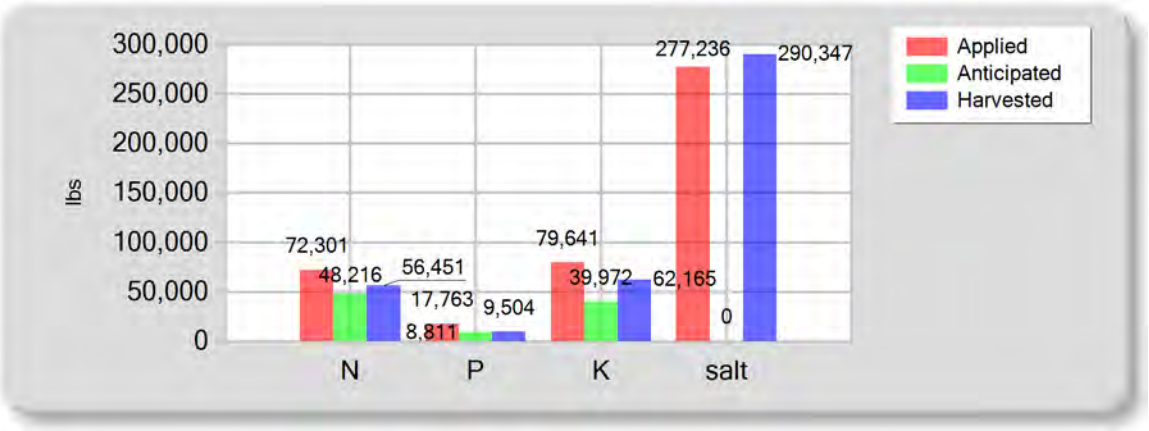
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

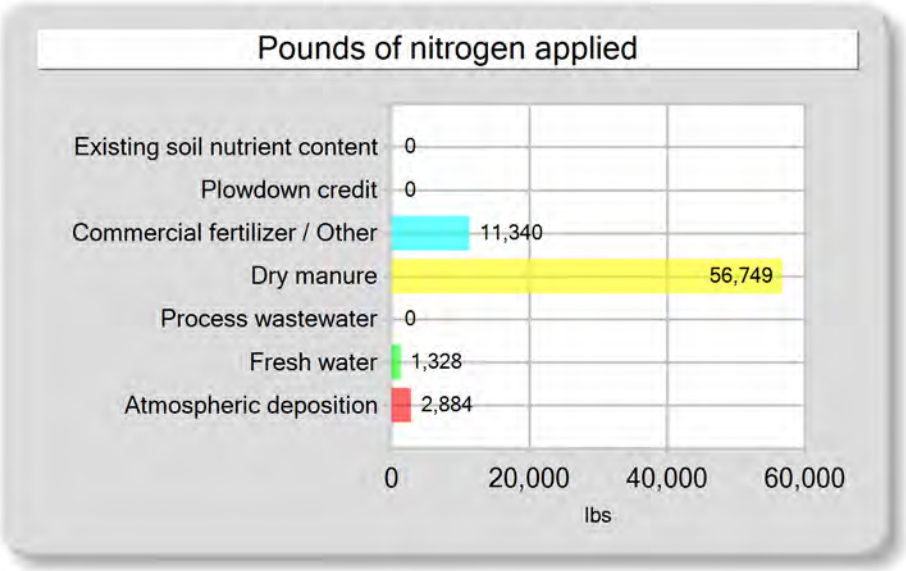
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

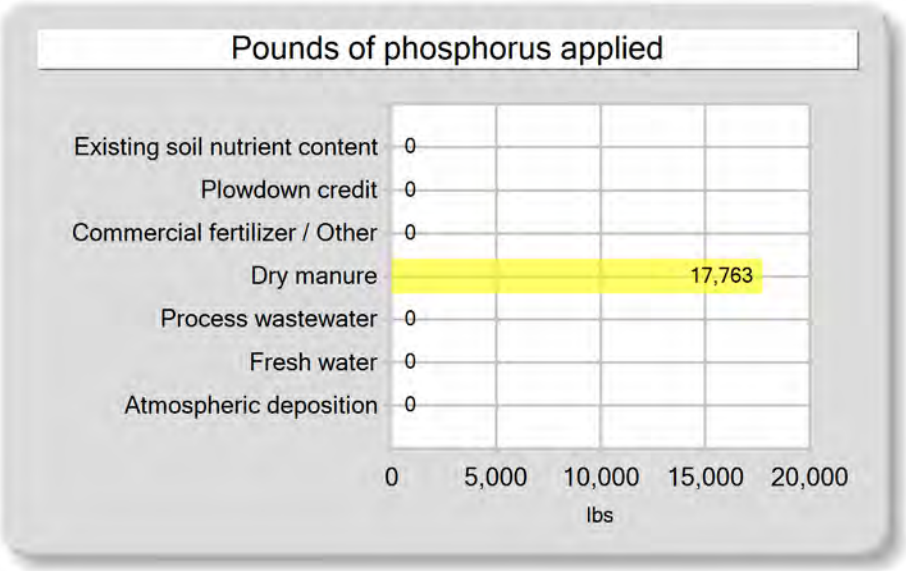
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	11,340.00	0.00	0.00	0.00
Dry manure	56,749.10	17,762.53	79,641.01	200,275.73
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1,328.35	0.00	0.00	76,960.54
Atmospheric deposition	2,884.00	0.00	0.00	0.00
Total nutrients applied	72,301.45	17,762.53	79,641.01	277,236.27
Anticipated crop nutrient removal	48,216.00	8,811.00	39,972.00	0.00
Actual crop nutrient removal	56,450.92	9,503.56	62,165.38	290,347.42
Nutrient balance	15,850.53	8,258.97	17,475.63	-13,111.15
Applied to removed ratio	1.28	1.87	1.28	0.95

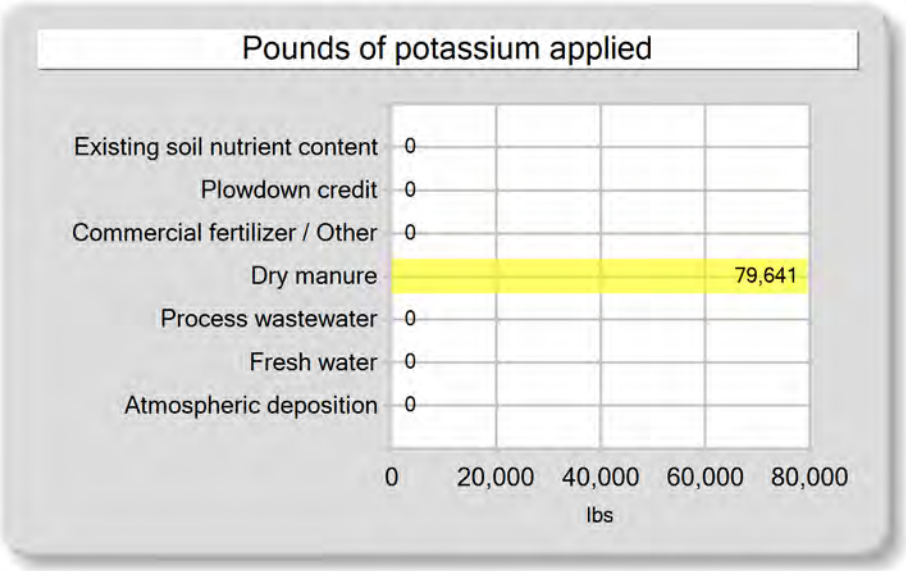
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

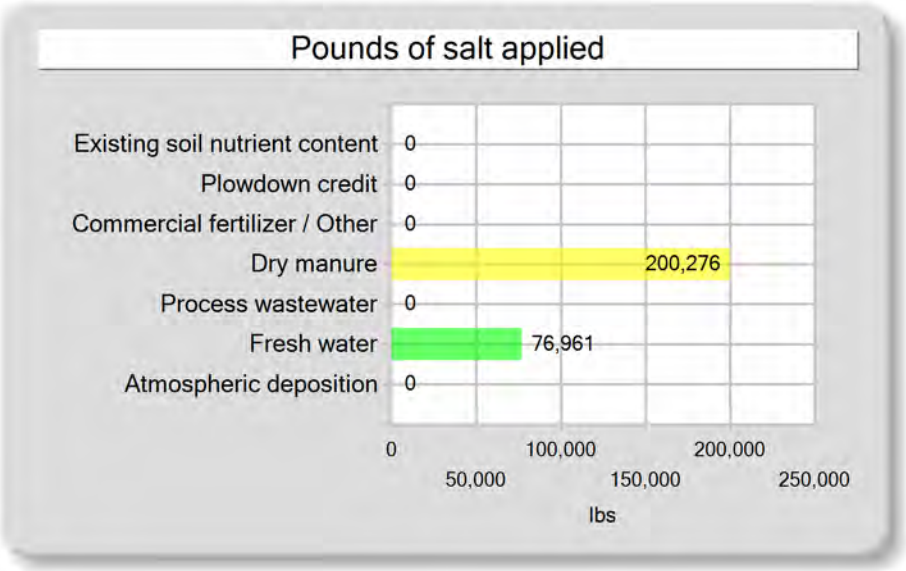


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility 's Nutrient Management Plan.

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No land application area to surface water discharges occurred during the reporting period.

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

B. EXPORT AGREEMENT STATEMENT

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

ADDITIONAL NOTES

A. NOTES

Precipitation utilized during winter months to meet forage freshwater requirements.

Irrigation wells IW #28, 29, & 31 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.

Fields #25 & 26 Pistachios received no wastewater or solid manure in 2023. All nutrients applied to these fields were contributed through freshwater applications only.

Fields #24, 27, 28, & 29 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:
Robert Aukeman
E9D460E7Z6C045B...

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.

DELLAVALLE™
LABORATORY INC

Aukeman Farms #2
17781 Road 96
Tulare, CA 93274

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

Received: 09/06/2023 14:50
Reported: 09/11/2023 10:48

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0429-01	IW #30	Ag Water	Jake	Irrigation Well	09/06/2023 8:35

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.

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
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Sample Results

Sample: IW #30
23I0429-01 (Water)

Sampled: 9/6/2023 8:35
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.44**	mmhos/cm	0.01	1		09/07/23 12:55	SM 2510 B		BEI0144
Electrical Conductivity umhos	**444**	umhos/cm	10.0	1		09/07/23 12:55	SM 2510 B		BEI0144
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	09/07/23 01:33	EPA 300.0		BEI0128
pH	**9.1**	units	1.0	1		09/07/23 12:55	SM 4500-H+	H	BEI0144
Total Filterable Solids (TDS)	**268**	mg/L	10.0	1		09/08/23 13:57	SM 2540 C		BEI0143
Temperature	**25.0**	°C	0.0	1		09/07/23 12:55	SM 2510 B		BEI0144
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/08/23 08:51	SM 4500-NH3 C		BEI0148
Total Nitrogen	ND	mg/L	1.00	1		09/08/23 08:51	SM 4500-NH3 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					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0128-BLK2)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0128-BS1)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0128-DUP1)		**Source: 23I0422-01**			Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L		4.8			0.273	10
Matrix Spike (BEI0128-MS1)		**Source: 23I0422-01**			Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	10.8		0.1	mg/L	5.000	4.8	120	90-110		
Reference (BEI0128-SRM1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.3	90-110		
Reference (BEI0128-SRM2)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0143										
Blank (BEI0143-BLK1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0143-BS1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	31.2		10.0	mg/L	2000		1.56	0-200		
Duplicate (BEI0143-DUP1)		**Source: 23I0409-01**			Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	3150		10.0	mg/L		3120			1.06	10
Duplicate (BEI0143-DUP2)		**Source: 23I0425-01**			Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	628		10.0	mg/L		615			2.01	10
Reference (BEI0143-SRM1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	327			mg/L	325.0		101	90-110		

DELLAVALLE™ LABORATORY INC

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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					
pH	5.1		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0144-BLK2)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	4.9		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
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)		**Source: 23I0136-01**			Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	0.46		0.01	mmhos/cm		0.46			0.240	10
pH	7.2		1.0	units		7.2			0.00	10
Electrical Conductivity umhos	458		10.0	umhos/cm		459			0.240	10
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)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	525			umhos/cm	538.0		97.6	90-110		
Reference (BEI0144-SRM2)					Prepared & Analyzed: 9/7/2023					
pH	5.8			units	5.820		100	28178-101.7		
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)					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)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	994			umhos/cm	1000		99.4	90-110		

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Received: 09/06/2023 14:50
Reported: 09/11/2023 10:48

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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Received: 09/06/2023 14:50
Reported: 09/11/2023 10:48

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		

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

09/06/23 14:50 23I0429

Purchase Order No | Bill To: 28070 Acct # | 08 Cons #

Results Need By

Name: Aukeman Farms #2
Address: 18183 S. I Drive
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

No. Samples: 1 No of Bottles: 2

Water Type: [ ] Drinking Water [ ] Wastewater
[✓] Ag Water [ ] Groundwater [ ] Monitoring Well

Other:

Analysis and Bottles Required: (*Please indicate Analysis*)

( ) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
(✓) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	~~Field NH_4-N~~ PURGE
1	IW #3	9/6/23	0835	-0.6	>45 min
2					
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	[illegible]	DLI	9-6-23 1950	

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.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[✓] Yes [ ] No

Pa

09/06/23 14:50 23I0429

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

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

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic	1									
	* pH Value	<2									
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_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, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (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

DELLAVALLE™
LABORATORY INC

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.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

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

DELLAVALLE™
LABORATORY INC

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

DELLAVALLE™
LABORATORY INC

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0128										
Blank (BEI0128-BLK1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0128-BLK2)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0128-BS1)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0128-DUP1)		**Source: 23I0422-01**			Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L		4.8			0.273	10
Matrix Spike (BEI0128-MS1)		**Source: 23I0422-01**			Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	10.8		0.1	mg/L	5.000	4.8	120	90-110		
Reference (BEI0128-SRM1)					Prepared & Analyzed: 9/6/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.3	90-110		
Reference (BEI0128-SRM2)					Prepared & Analyzed: 9/7/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.5	90-110		

DELLAVALLE™
LABORATORY INC

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: BEI0143										
Blank (BEI0143-BLK1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0143-BS1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	31.2		10.0	mg/L	2000		1.56	0-200		
Duplicate (BEI0143-DUP1)		**Source: 23I0409-01**			Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	3150		10.0	mg/L		3120			1.06	10
Duplicate (BEI0143-DUP2)		**Source: 23I0425-01**			Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	628		10.0	mg/L		615			2.01	10
Reference (BEI0143-SRM1)					Prepared: 9/7/2023 Analyzed: 9/8/2023					
Total Filterable Solids (TDS)	327			mg/L	325.0		101	90-110		

DELLAVALLE™ LABORATORY INC

Aukeman Dairy-Tulare
17781 Rd 96
Tulare, CA 93274

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

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

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0144										
Blank (BEI0144-BLK1)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.1		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0144-BLK2)					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)					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)		**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)		**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)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	525			umhos/cm	538.0		97.6	90-110		
Reference (BEI0144-SRM2)					Prepared & Analyzed: 9/7/2023					
pH	5.8			units	5.820		100	28178-101.7		
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)					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)					Prepared & Analyzed: 9/7/2023					
Electrical Conductivity	994			umhos/cm	1000		99.4	90-110		

DELLAVALLE™
LABORATORY INC

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		

DELLAVALLE™ LABORATORY INC

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		

09/06/23 14:50 23I0428

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 Acct # 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

Name: Aukeman ~~Farms~~ Dairy - Tulare

Other:

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

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

Sampled By: JAKE

Analysis and Bottles Required: (*Please indicate Analysis*)

( ) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

(✓) ~~D~~CW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	TULE RIVER CANAL	9/6/23	0750	-1.3	
2	ELK CREEK BAYOU	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	[illegible]	DSI	9-7-23 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.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[✓] Yes [ ] No

09/06/23 14:50 23I0428

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

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

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value	<2	<2								
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_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, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (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

DELLAVALLE™
LABORATORY INC

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: 08/24/2023 16:34

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1720-01	Dom Well #1	Drinking Water	Jake	Domestic Wells	08/18/2023 6:54
23H1720-02	Dom Well #2	Drinking Water	Jake	Domestic Wells	08/18/2023 7:01

Default Cooler Temperature on Receipt °C: 4.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

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: 08/24/2023 16:34

Sample Results

Sample: Dom Well #1
23H1720-01 (Water)

Sampled: 8/18/2023 6:54
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.06**	mmhos/cm	0.01	1		08/21/23 16:26	SM 2510 B		BEH0950
Electrical Conductivity umhos	**1060**	umhos/cm	10.0	1		08/21/23 16:26	SM 2510 B		BEH0950
Ammonia (as N)	ND	mg/L	0.00	1		08/18/23 06:54	Field		BEH1219
Nitrate Nitrogen as NO3N	**24.7**	mg/L	0.1	1	10	08/18/23 23:47	EPA 300.0		BEH0944
pH	**7.7**	units	1.0	1		08/21/23 16:26	SM 4500-H+	H	BEH0950
Temperature	**25.0**	°C	0.0	1		08/21/23 16:26	SM 2510 B		BEH0950

DELLAVALLE™
LABORATORY INC

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: 08/24/2023 16:34

Sample Results
(Continued)

Sample: Dom Well #2
23H1720-02 (Water)

Sampled: 8/18/2023 7:01
Sampled By: Jake

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.82**	mmhos/cm	0.01	1		08/21/23 16:28	SM 2510 B		BEH0950
Electrical Conductivity umhos	**820**	umhos/cm	10.0	1		08/21/23 16:28	SM 2510 B		BEH0950
Ammonia (as N)	ND	mg/L	0.00	1		08/18/23 07:01	Field		BEH1219
Nitrate Nitrogen as NO3N	**17.6**	mg/L	0.1	1	10	08/19/23 00:07	EPA 300.0		BEH0944
pH	**7.7**	units	1.0	1		08/21/23 16:28	SM 4500-H+	H	BEH0950
Temperature	**25.0**	°C	0.0	1		08/21/23 16:28	SM 2510 B		BEH0950

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17781 Road 96
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Submitted By: Bob Aukeman

Received: 08/18/2023 12:14
Reported: 08/24/2023 16:34

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					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0944-BLK2)					Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0944-BLK3)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0944-BLK4)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0944-BS1)					Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEH0944-BS2)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		103	90-110		
LCS (BEH0944-BS3)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEH0944-DUP1)		**Source: 23H1712-02**			Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	0.06		0.1	mg/L		0.06			0.00	10
Duplicate (BEH0944-DUP2)		**Source: 23H1717-05**			Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	0.09		0.1	mg/L		0.08			3.47	10
Duplicate (BEH0944-DUP3)		**Source: 23H1758-01**			Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	1.7		0.1	mg/L		1.7			0.532	10
Matrix Spike (BEH0944-MS1)		**Source: 23H1712-02**			Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000	0.06	102	90-110		
Matrix Spike (BEH0944-MS2)		**Source: 23H1717-05**			Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000	0.08	101	90-110		
Matrix Spike (BEH0944-MS3)		**Source: 23H1758-01**			Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	6.9		0.1	mg/L	5.000	1.7	104	90-110		
Reference (BEH0944-SRM1)					Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEH0944-SRM2)					Prepared & Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		

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Reported: 08/24/2023 16:34

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0944 (Continued)										
Reference (BEH0944-SRM3)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEH0944-SRM4)					Prepared & Analyzed: 8/19/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		

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Received: 08/18/2023 12:14
Reported: 08/24/2023 16:34

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0950										
Blank (BEH0950-BLK1)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
pH	5.3		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEH0950-BLK2)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0950-BLK3)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.4		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEH0950-DUP1)		**Source: 23H1684-01**			Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	0.15		0.01	mmhos/cm		0.15			0.781	10
pH	7.6		1.0	units		7.6			0.393	10
Electrical Conductivity umhos	153		10.0	umhos/cm		154			0.781	10
Duplicate (BEH0950-DUP2)		**Source: 23H1684-03**			Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	0.39		0.01	mmhos/cm		0.40			0.761	10
pH	7.6		1.0	units		7.6			0.393	10
Electrical Conductivity umhos	392		10.0	umhos/cm		396			0.761	10
Reference (BEH0950-SRM1)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	508			umhos/cm	538.0		94.5	90-110		
Reference (BEH0950-SRM2)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
pH	5.8			units	5.820		99.8	28178-101.7		
Reference (BEH0950-SRM3)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	958			umhos/cm	1000		95.8	90-110		
Electrical Conductivity umhos	958			umhos/cm	1000		95.8	90-110		
Reference (BEH0950-SRM4)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	958			umhos/cm	1000		95.8	90-110		
Electrical Conductivity umhos	958			umhos/cm	1000		95.8	90-110		
Reference (BEH0950-SRM5)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity	969			umhos/cm	1000		96.9	90-110		

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LABORATORY INC

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: 08/24/2023 16:34

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0950 (Continued)										
Reference (BEH0950-SRM5)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
Electrical Conductivity umhos	969			umhos/cm	1000		96.9	90-110		
Reference (BEH0950-SRM6)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0950-SRM7)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0950-SRM8)					Prepared: 8/18/2023 Analyzed: 8/21/2023					
pH	4.0			units	4.000		100	97.5-102.5		

08/18/23 12:14 23H1720

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

DG

Purchase Order No | Bill To: 25670 Acct # | 08 Cons #

No. Samples: 2 No of Bottles:

Results Need By

Water Type: [✓] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Aukeman Farms #2

Other:

Address: 18183 S. I Drive

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

Analysis and Bottles Required: (*Please indicate Analysis*)

(✓) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	DOM WELL #1	8/18/23	0654	4.3	0
2	DOM WELL #2	8/18/23	0701	0.7	0
3					
4					
5					
6					
7					
8					
9					
10					

PURGE 30 min ↓

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	Jes	DLV	8/18/23 1214	

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.

Invoicing Information:

Sampling hrs
Miles
Consulting

Shipping

$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

08/18/23 12:14 23H1720

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

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

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

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_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, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (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:										