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: Adriano Nunes & Son Dairy-Farming

Physical address of dairy:

Number and Street	City	County	Zip Code
18675 32 RD	Tulare	Tulare	93274

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 09/01/1973

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X200-X020-X007-XXXX	X200-X020-X009-XXXX	X200-X020-X011-XXXX	X200-X020-X012-XXXX	X200-X090-X008-XXXX	X200-X150-X001-XXXX
X200-X160-X008-XXXX	X200-X240-X003-XXXX	X200-X270-X002-XXXX	X200-X900-X012-XXXX		

B. OPERATORS

Nunes, Paul OR Irene

Operator name: Nunes, Paul OR Irene

Telephone no.: (559) 686-9758 Landline, (559) 259-4945 Cellular

Mailing Address Number and Street	City	State	Zip Code
18675 32 RD	Tulare	CA	93274

This operator is responsible for paying permit fees.

C. OWNERS

Nunes, Paul OR Irene

Legal owner name: Nunes, Paul OR Irene

Telephone no.: (559) 686-9758 Landline, (559) 259-4945 Cellular

Mailing Address Number and Street	City	State	Zip Code
18675 32 RD	Tulare	CA	93274

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	790	144	295	300	140	109
Number under roof	0	0	0	0	0	0
Maximum number	790	144	295	300	140	109
Average number	790	144	295	300	140	109
Avg live weight (lbs)	1,400	1,450	1,100	800		

Predominant milk cow breed: Holstein

Average milk production: 65 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 28,885.28 *tons per reporting period*

Total nitrogen from manure: 354,358.56 *lbs per reporting period*

After ammonia losses (30% loss applied): 248,050.99 *lbs per reporting period*

Total phosphorus from manure: 57,664.44 *lbs per reporting period*

Total potassium from manure: 148,697.14 *lbs per reporting period*

Total salt from manure: 405,084.30 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 3,874,500 *gallons*

Total nitrogen generated: 13,440.94 *lbs*

Total phosphorus generated: 1,461.91 *lbs*

Total potassium generated: 7,616.32 *lbs*

Total salt generated: 89,601.02 *lbs*

	3,874,500	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	3,874,500	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
3-A	Ground water
3-B	Ground water
Canal	Surface water
P-10	Ground water
P-12	Ground water

Source Description	Type
P-13	Ground water
P-16A	Ground water
P-16B	Ground water
P-16C	Ground water
P-2A	Ground water
P-4	Ground water
P-5	Ground water
P-6	Ground water
P-7	Ground water
P-9A	Ground water
P-9B	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
F-1	33	33	2	both	X200-X900-X012-XXXX
F-10	42	42	1	none	X200-X020-X011-XXXX
F-12	78	78	0	none	X200-X160-X008-XXXX
F-16	148	148	1	manure	X200-X240-X003-XXXX
F-17	73	73	2	manure	X200-X270-X002-XXXX
F-2	41	41	1	both	X200-X900-X012-XXXX
F-3	152	152	1	manure	X200-X150-X001-XXXX
F-4	80	80	1	none	X200-X150-X001-XXXX
F-5	76	76	0	none	X200-X150-X001-XXXX
F-6	78	78	0	none	X200-X160-X008-XXXX
F-7	37	37	0	none	X200-X020-X007-XXXX
F-8	37	37	2	manure	X200-X020-X007-XXXX
F-9	40	40	1	manure	X200-X020-X009-XXXX X200-X020-X012-XXXX
Totals for areas that were used for application	524	524	10		
Totals for areas that were not used for application	391	391	2		
Land application area totals	915	915	12		

B. CROPS AND HARVESTS

F-1

Field name: F-1

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 33 Plant date: 11/04/2022

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	588.00 *ton*	Dry-weight		60.6	14,000.00	2,700.00	9,600.00		9.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.82	196.57	37.91	134.79	1,364.76

F-1

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 33 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	904.00 *ton*	Dry-weight		69.0	13,000.00	2,700.00	14,400.00		6.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.39	220.80	45.86	244.57	1,132.85

F-10

Field name: F-10

10/03/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 42 Plant date: 10/03/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	264.00 *ton*	Dry-weight		70.0	28,500.00	2,800.00	23,900.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	6.29	107.49	10.56	90.14	396.00

F-16

Field name: F-16

F-16

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 148 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	3,697.00 *ton*	Dry-weight		70.4	9,500.00	2,100.00	11,100.00		5.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	24.98	140.49	31.05	164.15	786.72

F-17

Field name: F-17

11/02/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 73 Plant date: 11/02/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,270.00 *ton*	Dry-weight		60.6	14,400.00	3,100.00	10,700.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.40	197.41	42.50	146.69	1,603.96

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	1,898.00 *ton*	Dry-weight		65.0	10,300.00	3,100.00	9,900.00		6.06

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	208.00	39.00	171.60	0.00
Total actual harvest content	26.00	187.46	56.42	180.18	1,102.92

F-2

Field name: F-2

04/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 04/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/03/2023	1,178.00 *ton*	Dry-weight		58.6	12,900.00	2,700.00	13,700.00		6.27

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.73	306.89	64.23	325.92	1,491.62

F-3

Field name: F-3

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

Crop: Wheat, silage, soft dough Acres planted: 152 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	2,624.00 *ton*	Dry-weight		61.2	13,700.00	2,600.00	9,500.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.26	183.53	34.83	127.26	1,353.02

F-4

Field name: F-4

F-4

10/15/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 80 Plant date: 10/15/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	584.00 *ton*	Dry-weight		68.9	32,700.00	2,900.00	24,500.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.30	148.48	13.17	111.24	476.76

F-8

Field name: F-8

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

Crop: Wheat, silage, soft dough Acres planted: 37 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 (%)
05/26/2023	625.00 *ton*	Dry-weight		60.8	13,400.00	2,800.00	9,900.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.89	177.46	37.08	131.11	1,456.76

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	1,051.00 *ton*	Dry-weight		70.3	11,100.00	3,000.00	5,500.00		5.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.41	187.29	50.62	92.80	909.44

F-9

Field name: F-9

04/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 04/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/03/2023	895.00 *ton*	Dry-weight		63.4	11,400.00	2,300.00	11,200.00		5.02

	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	22.38	186.71	37.67	183.44	822.20

NUTRIENT BUDGET

A. LAND APPLICATIONS

F-1 - 11/04/2022: Wheat, silage, soft dough

Field name: F-1

Crop: Wheat, silage, soft dough — Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	121.50	43.86	148.11	71.90	269.00 *ton*
Application event totals		121.50	43.86	148.11	71.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	39.97	7.73	30.92	490.15	745,500.00 *gal*
Canal	Surface water	0.33	0.00	0.00	83.07	6,570,000.00 *gal*
Application event totals		40.30	7.73	30.92	573.23	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/18/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.31	0.00	0.00	78.52	6,210,000.00 *gal*
Application event totals		0.31	0.00	0.00	78.52	

F-1 - 06/15/2023: Corn, silage

Field name: F-1

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/27/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	103.70	37.93	46.81	59.26	336.00 *ton*
Application event totals		103.70	37.93	46.81	59.26	

F-1 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/28/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	67.14	5,310,000.00 *gal*
Application event totals		0.27	0.00	0.00	67.14	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/29/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	67.14	5,310,000.00 *gal*
Application event totals		0.27	0.00	0.00	67.14	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	82.57	6.18	39.94	365.20	483,000.00 *gal*
Canal	Surface water	0.23	0.00	0.00	58.04	4,590,000.00 *gal*
Application event totals		82.80	6.18	39.94	423.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/08/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	59.17	4,680,000.00 *gal*
Application event totals		0.24	0.00	0.00	59.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.34	6.99	45.15	412.83	546,000.00 *gal*
Canal	Surface water	0.25	0.00	0.00	61.45	4,860,000.00 *gal*
Application event totals		93.58	6.99	45.15	474.28	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	66.00	5,220,000.00 *gal*
Application event totals		0.26	0.00	0.00	66.00	

F-10 - 10/03/2021: Alfalfa, hay

Field name: F-10

Crop: Alfalfa, hay

Plant date: 10/03/2021

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.09	0.00	0.00	23.25	2,340,000.00 *gal*
Application event totals		0.09	0.00	0.00	23.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/29/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.16	0.00	0.00	39.34	3,960,000.00 *gal*
Application event totals		0.16	0.00	0.00	39.34	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/21/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.07	0.00	0.00	16.99	1,710,000.00 *gal*
Application event totals		0.07	0.00	0.00	16.99	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.08	0.00	0.00	19.67	1,980,000.00 *gal*
Application event totals		0.08	0.00	0.00	19.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/02/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.08	0.00	0.00	18.78	1,890,000.00 *gal*
Application event totals		0.08	0.00	0.00	18.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.09	0.00	0.00	23.25	2,340,000.00 *gal*
Application event totals		0.09	0.00	0.00	23.25	

F-10 - 10/03/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.08	0.00	0.00	20.56	2,070,000.00 *gal*
Application event totals		0.08	0.00	0.00	20.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.10	0.00	0.00	25.93	2,610,000.00 *gal*
Application event totals		0.10	0.00	0.00	25.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/28/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.09	0.00	0.00	22.35	2,250,000.00 *gal*
Application event totals		0.09	0.00	0.00	22.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/14/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.08	0.00	0.00	20.56	2,070,000.00 *gal*
Application event totals		0.08	0.00	0.00	20.56	

F-16 - 06/02/2023: Corn, silage

Field name: F-16

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/07/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	101.78	37.22	45.95	58.16	1,479.00 *ton*
Application event totals		101.78	37.22	45.95	58.16	

F-16 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/12/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	6.50	0.00	0.00	1.12	19,872,000.00 *gal*
Application event totals		6.50	0.00	0.00	1.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	65.21	23,130,000.00 *gal*
Application event totals		0.26	0.00	0.00	65.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/25/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.27	0.00	0.00	66.99	23,760,000.00 *gal*
Application event totals		0.27	0.00	0.00	66.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	6.12	0.00	0.00	1.06	18,720,000.00 *gal*
Application event totals		6.12	0.00	0.00	1.06	

F-17 - 11/02/2022: Wheat, silage, soft dough

Field name: F-17

Crop: Wheat, silage, soft dough

Plant date: 11/02/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	149.06	53.80	181.69	88.20	730.00 *ton*
Application event totals		149.06	53.80	181.69	88.20	

F-17 - 11/02/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/04/2022	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	6.87	0.00	0.00	1.19	10,368,000.00 *gal*
Application event totals		6.87	0.00	0.00	1.19	

04/14/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	7.30	0.00	0.00	1.26	11,016,000.00 *gal*
Application event totals		7.30	0.00	0.00	1.26	

F-17 - 06/24/2023: Corn, silage

Field name: F-17

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	101.85	37.25	45.98	58.20	730.00 *ton*
Application event totals		101.85	37.25	45.98	58.20	

06/07/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	7.78	0.00	0.00	1.34	11,736,000.00 *gal*
Application event totals		7.78	0.00	0.00	1.34	

07/11/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	6.83	0.00	0.00	1.18	10,296,000.00 *gal*
Application event totals		6.83	0.00	0.00	1.18	

F-17 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	7.83	0.00	0.00	1.35	11,808,000.00 *gal*
Application event totals		7.83	0.00	0.00	1.35	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-12	Ground water	6.59	0.00	0.00	1.14	9,936,000.00 *gal*
Application event totals		6.59	0.00	0.00	1.14	

F-2 - 04/03/2023: Corn, silage

Field name: F-2

Crop: Corn, silage

Plant date: 04/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	119.25	43.04	145.35	70.56	328.00 *ton*
Application event totals		119.25	43.04	145.35	70.56	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/17/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.17	0.00	0.00	43.05	4,230,000.00 *gal*
Application event totals		0.17	0.00	0.00	43.05	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.46	6.92	44.73	408.96	672,000.00 *gal*
Canal	Surface water	0.25	0.00	0.00	61.37	6,030,000.00 *gal*
Application event totals		92.71	6.92	44.73	470.33	

F-2 - 04/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/06/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	31.26	6.05	24.18	383.40	724,500.00 *gal*
Canal	Surface water	0.25	0.00	0.00	63.20	6,210,000.00 *gal*
Application event totals		31.51	6.05	24.18	446.60	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	50.38	4,950,000.00 *gal*
Application event totals		0.20	0.00	0.00	50.38	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	30.36	5.87	23.48	372.29	703,500.00 *gal*
Canal	Surface water	0.25	0.00	0.00	61.37	6,030,000.00 *gal*
Application event totals		30.60	5.87	23.48	433.66	

F-3 - 10/29/2022: Wheat, silage, soft dough

Field name: F-3

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/28/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	156.90	56.63	191.25	92.84	1,600.00 *ton*
Application event totals		156.90	56.63	191.25	92.84	

F-3 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/17/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.15	0.00	0.00	37.31	13,590,000.00 *gal*
Application event totals		0.15	0.00	0.00	37.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/11/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	65.47	23,850,000.00 *gal*
Application event totals		0.26	0.00	0.00	65.47	

F-4 - 10/15/2021: Alfalfa, hay

Field name: F-4

Crop: Alfalfa, hay

Plant date: 10/15/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/07/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	4.40	0.00	0.00	0.76	7,272,000.00 *gal*
Application event totals		4.40	0.00	0.00	0.76	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/09/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	4.27	0.00	0.00	0.74	7,056,000.00 *gal*
Application event totals		4.27	0.00	0.00	0.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	5.14	0.00	0.00	0.89	8,496,000.00 *gal*
Application event totals		5.14	0.00	0.00	0.89	

F-4 - 10/15/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/27/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	4.36	0.00	0.00	0.75	7,200,000.00 *gal*
Application event totals		4.36	0.00	0.00	0.75	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	3.09	0.00	0.00	0.53	5,112,000.00 *gal*
Application event totals		3.09	0.00	0.00	0.53	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/13/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	5.01	0.00	0.00	0.86	8,280,000.00 *gal*
Application event totals		5.01	0.00	0.00	0.86	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/07/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	5.23	0.00	0.00	0.90	8,640,000.00 *gal*
Application event totals		5.23	0.00	0.00	0.90	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/08/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-6	Ground water	5.27	0.00	0.00	0.91	8,712,000.00 *gal*
Application event totals		5.27	0.00	0.00	0.91	

F-8 - 11/05/2022: Wheat, silage, soft dough

Field name: F-8

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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

F-8 - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/01/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	149.06	53.80	181.69	88.20	370.00 *ton*
Application event totals		149.06	53.80	181.69	88.20	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/06/2022	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.19	0.00	0.00	48.72	4,320,000.00 *gal*
Application event totals		0.19	0.00	0.00	48.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/12/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	65.97	5,850,000.00 *gal*
Application event totals		0.26	0.00	0.00	65.97	

F-8 - 06/20/2023: Corn, silage

Field name: F-8

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	122.22	44.70	55.17	69.84	444.00 *ton*
Application event totals		122.22	44.70	55.17	69.84	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	63.94	5,670,000.00 *gal*
Application event totals		0.26	0.00	0.00	63.94	

F-8 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/11/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	64.96	5,760,000.00 *gal*
Application event totals		0.26	0.00	0.00	64.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	59.88	5,310,000.00 *gal*
Application event totals		0.24	0.00	0.00	59.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/08/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	61.91	5,490,000.00 *gal*
Application event totals		0.25	0.00	0.00	61.91	

F-9 - 04/06/2023: Corn, silage

Field name: F-9

Crop: Corn, silage

Plant date: 04/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/24/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.19	0.00	0.00	46.94	4,500,000.00 *gal*
Application event totals		0.19	0.00	0.00	46.94	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/19/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	65.95	24.12	29.77	37.68	259.00 *ton*
Application event totals		65.95	24.12	29.77	37.68	

F-9 - 04/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/20/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	48.82	4,680,000.00 *gal*
Application event totals		0.20	0.00	0.00	48.82	

05/13/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.18	0.00	0.00	45.06	4,320,000.00 *gal*
Application event totals		0.18	0.00	0.00	45.06	

06/05/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.18	0.00	0.00	46.00	4,410,000.00 *gal*
Application event totals		0.18	0.00	0.00	46.00	

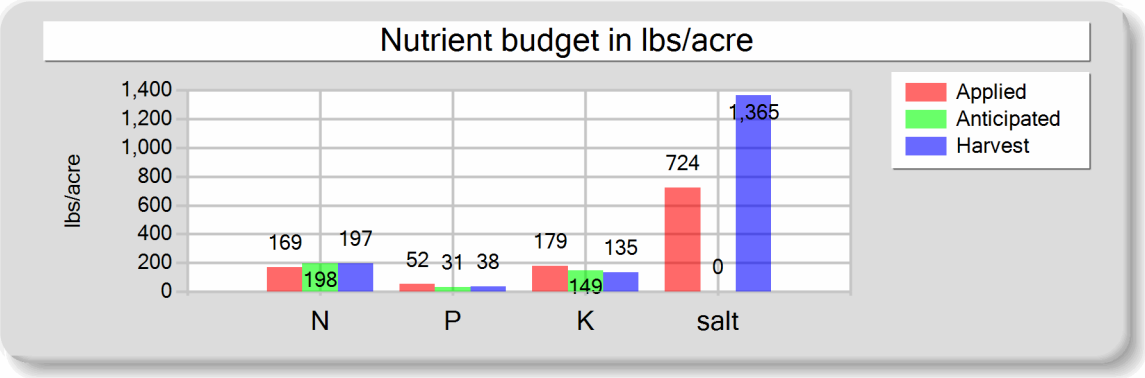
07/06/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.20	0.00	0.00	49.76	4,770,000.00 *gal*
Application event totals		0.20	0.00	0.00	49.76	

B. NUTRIENT BUDGET

F-1 - 11/04/2022: Wheat, silage, soft dough

Field name: F-1 Crop: Wheat, silage, soft dough Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	121.50	43.86	148.11	71.90
Process wastewater	39.97	7.73	30.92	490.15
Fresh water	0.65	0.00	0.00	161.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	169.12	51.59	179.02	723.64
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	196.57	37.91	134.79	1,364.76
Nutrient balance	-27.45	13.68	44.23	-641.12
Applied to removed ratio	0.86	1.36	1.33	0.53

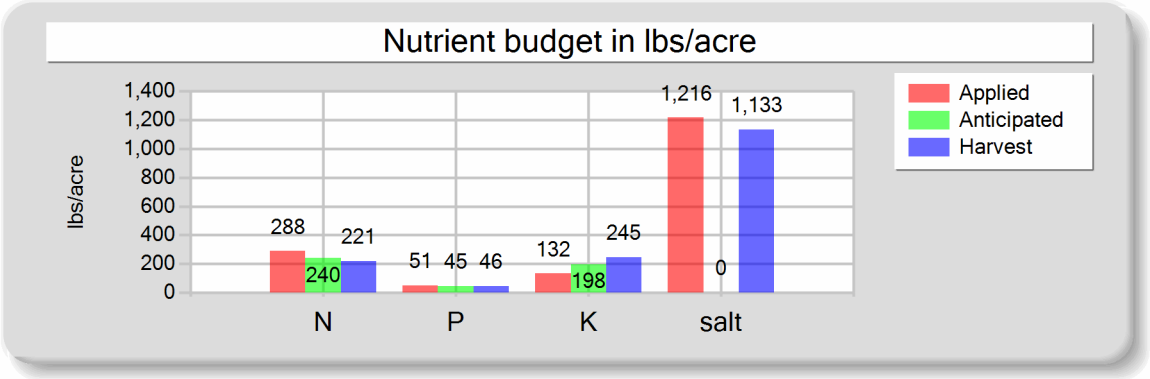
Fresh water applied	
12,780,000.00	*gallons*
470.64	*acre-inches*
14.26	*inches/acre*

Process wastewater applied	
745,500.00	*gallons*
27.45	*acre-inches*
0.83	*inches/acre*

Total harvests for the crop	
1	*harvests*

F-1 - 06/15/2023: Corn, silage

Field name: F-1 Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	103.70	37.93	46.81	59.26
Process wastewater	175.90	13.17	85.09	778.03
Fresh water	1.52	0.00	0.00	378.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.12	51.09	131.90	1,216.23
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	220.80	45.86	244.57	1,132.85
Nutrient balance	67.33	5.23	-112.67	83.38
Applied to removed ratio	1.30	1.11	0.54	1.07

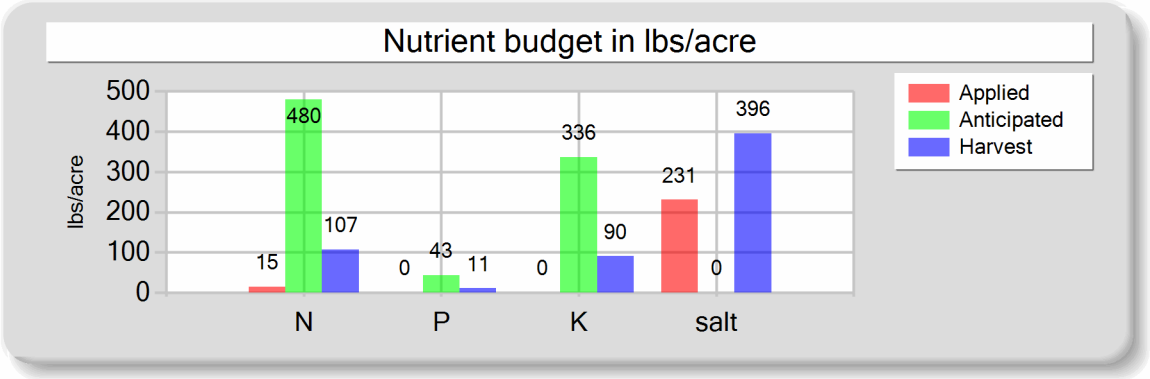
Fresh water applied	
29,970,000.00	*gallons*
1,103.69	*acre-inches*
33.45	*inches/acre*

Process wastewater applied	
1,029,000.00	*gallons*
37.89	*acre-inches*
1.15	*inches/acre*

Total harvests for the crop	
1	*harvests*

F-10 - 10/03/2021: Alfalfa, hay

Field name: F-10 Crop: Alfalfa, hay Plant date: 10/03/2021



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.92	0.00	0.00	230.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.92	0.00	0.00	230.68
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	107.49	10.56	90.14	396.00
Nutrient balance	-92.56	-10.56	-90.14	-165.32
Applied to removed ratio	0.14	0.00	0.00	0.58

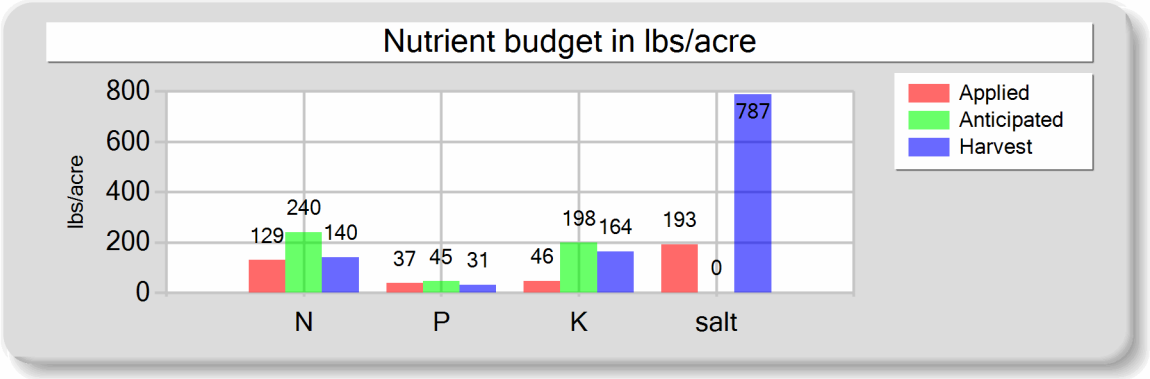
Fresh water applied	
23,220,000.00	*gallons*
855.11	*acre-inches*
20.36	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-16 - 06/02/2023: Corn, silage

Field name: F-16 Crop: Corn, silage Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	101.78	37.22	45.95	58.16
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	13.15	0.00	0.00	134.37
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	128.93	37.22	45.95	192.53
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	140.49	31.05	164.15	786.72
Nutrient balance	-11.56	6.17	-118.20	-594.19
Applied to removed ratio	0.92	1.20	0.28	0.24

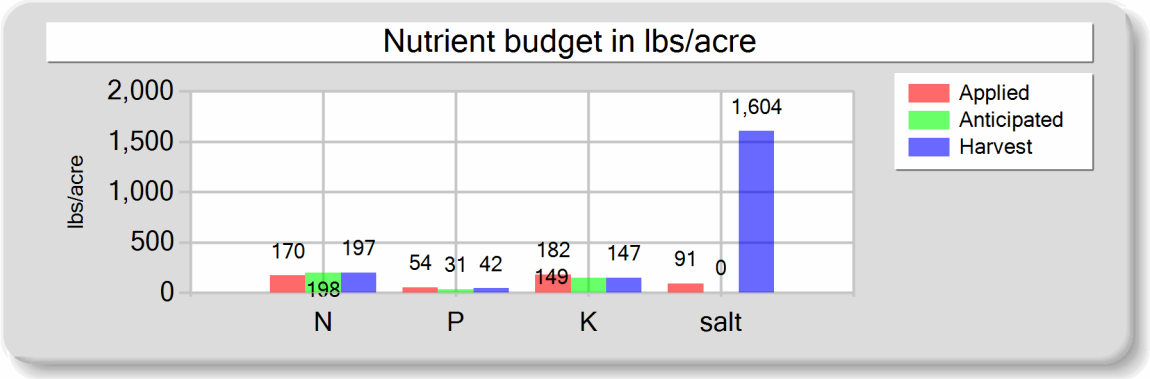
Fresh water applied	
85,482,000.00	*gallons*
3,148.01	*acre-inches*
21.27	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-17 - 11/02/2022: Wheat, silage, soft dough

Field name: F-17 Crop: Wheat, silage, soft dough Plant date: 11/02/2022



	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	149.06	53.80	181.69	88.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	14.18	0.00	0.00	2.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	170.24	53.80	181.69	90.64
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	197.41	42.50	146.69	1,603.96
Nutrient balance	-27.17	11.30	35.01	-1,513.31
Applied to removed ratio	0.86	1.27	1.24	0.06

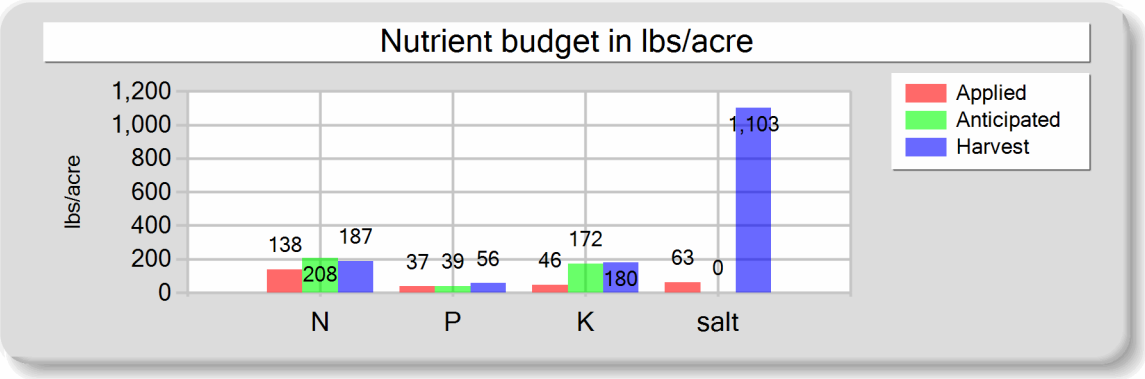
Fresh water applied	
21,384,000.00	*gallons*
787.50	*acre-inches*
10.79	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-17 - 06/24/2023: Corn, silage

Field name: F-17 Crop: Corn, silage Plant date: 06/24/2023



	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	101.85	37.25	45.98	58.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	29.02	0.00	0.00	5.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	137.87	37.25	45.98	63.20
Anticipated crop nutrient removal	208.00	39.00	171.60	0.00
Actual crop nutrient removal	187.46	56.42	180.18	1,102.92
Nutrient balance	-49.59	-19.17	-134.20	-1,039.72
Applied to removed ratio	0.74	0.66	0.26	0.06

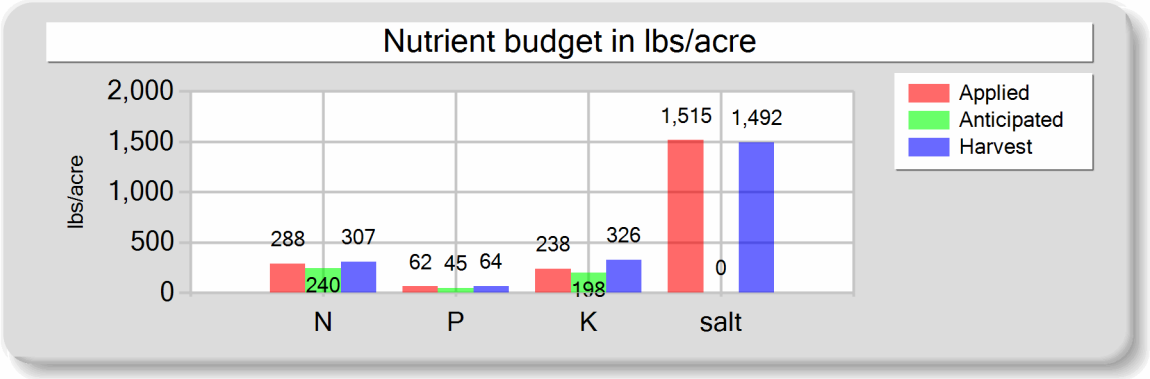
Fresh water applied	
43,776,000.00	*gallons*
1,612.12	*acre-inches*
22.08	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-2 - 04/03/2023: Corn, silage

Field name: F-2 Crop: Corn, silage Plant date: 04/03/2023



	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	119.25	43.04	145.35	70.56
Process wastewater	154.08	18.84	92.39	1,164.65
Fresh water	1.12	0.00	0.00	279.35
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	288.44	61.88	237.75	1,514.57
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	306.89	64.23	325.92	1,491.62
Nutrient balance	-18.45	-2.35	-88.17	22.94
Applied to removed ratio	0.94	0.96	0.73	1.02

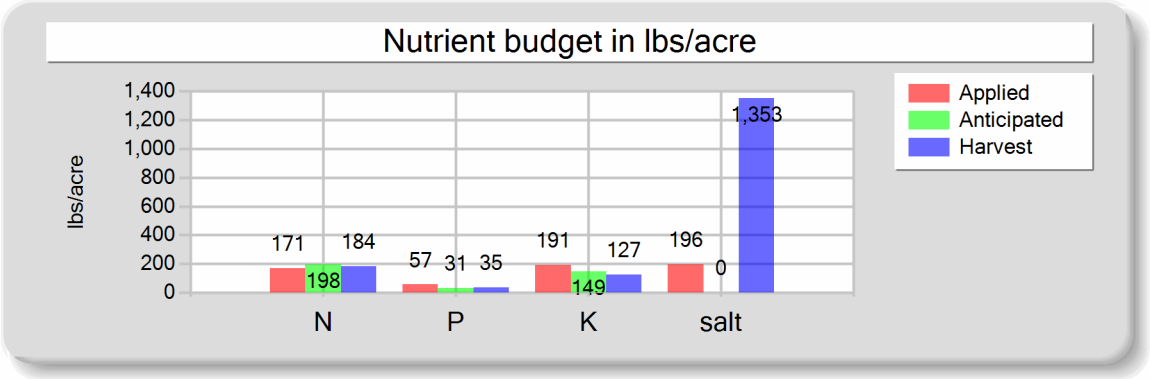
Fresh water applied	
27,450,000.00	*gallons*
1,010.89	*acre-inches*
24.66	*inches/acre*

Process wastewater applied	
2,100,000.00	*gallons*
77.34	*acre-inches*
1.89	*inches/acre*

Total harvests for the crop	
1	*harvests*

F-3 - 10/29/2022: Wheat, silage, soft dough

Field name: F-3 Crop: Wheat, silage, soft dough Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	156.90	56.63	191.25	92.84
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.41	0.00	0.00	102.78
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	171.31	56.63	191.25	195.62
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	183.53	34.83	127.26	1,353.02
Nutrient balance	-12.21	21.80	63.99	-1,157.40
Applied to removed ratio	0.93	1.63	1.50	0.14

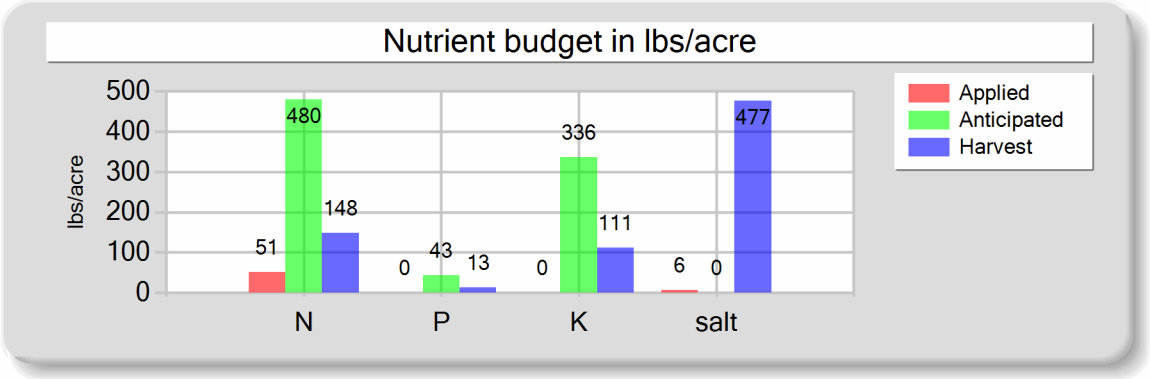
Fresh water applied	
37,440,000.00	*gallons*
1,378.79	*acre-inches*
9.07	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-4 - 10/15/2021: Alfalfa, hay

Field name: F-4 Crop: Alfalfa, hay Plant date: 10/15/2021



	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	36.77	0.00	0.00	6.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	50.77	0.00	0.00	6.34
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	148.48	13.17	111.24	476.76
Nutrient balance	-97.71	-13.17	-111.24	-470.42
Applied to removed ratio	0.34	0.00	0.00	0.01

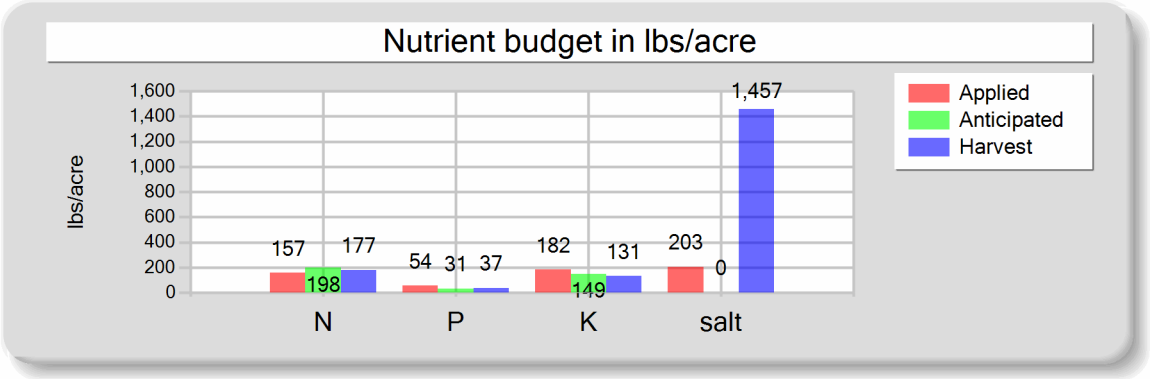
Fresh water applied	
60,768,000.00	*gallons*
2,237.88	*acre-inches*
27.97	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-8 - 11/05/2022: Wheat, silage, soft dough

Field name: F-8 Crop: Wheat, silage, soft dough Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	149.06	53.80	181.69	88.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.46	0.00	0.00	114.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	156.52	53.80	181.69	202.89
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	177.46	37.08	131.11	1,456.76
Nutrient balance	-20.94	16.72	50.58	-1,253.87
Applied to removed ratio	0.88	1.45	1.39	0.14

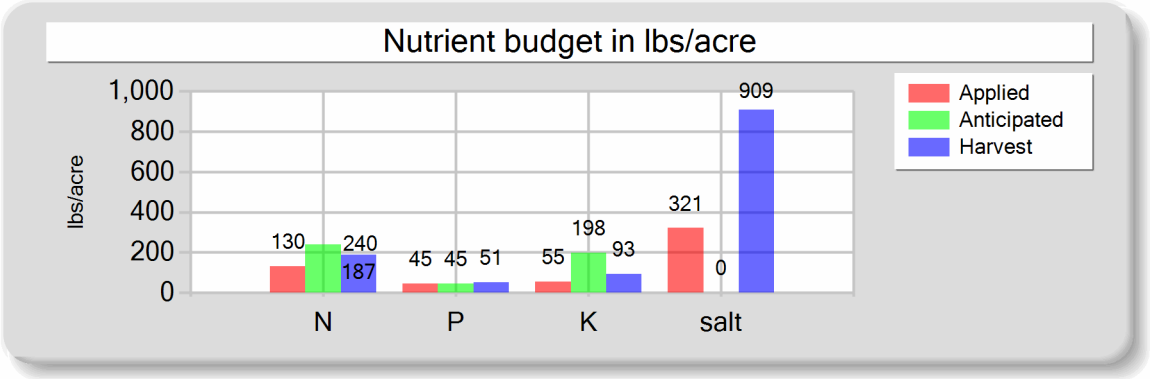
Fresh water applied	
10,170,000.00	*gallons*
374.53	*acre-inches*
10.12	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-8 - 06/20/2023: Corn, silage

Field name: F-8 Crop: Corn, silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	122.22	44.70	55.17	69.84
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.00	0.00	0.00	250.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	130.22	44.70	55.17	320.53
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	187.29	50.62	92.80	909.44
Nutrient balance	-57.07	-5.92	-37.63	-588.92
Applied to removed ratio	0.70	0.88	0.59	0.35

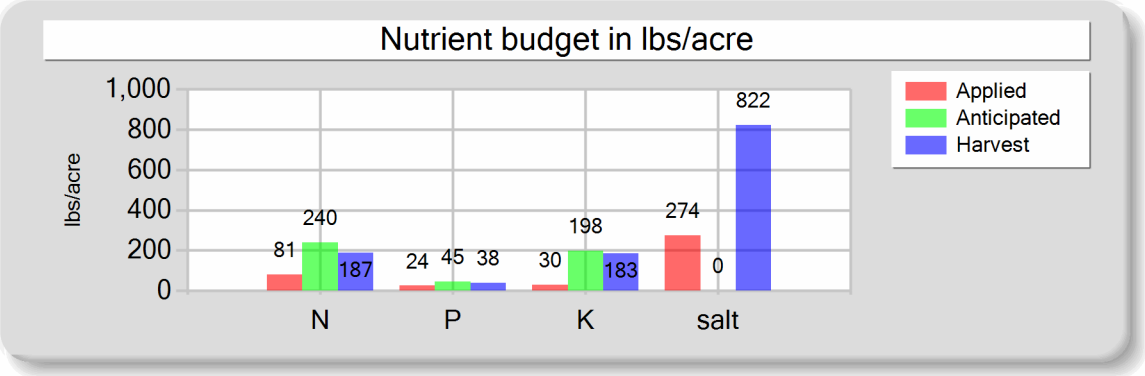
Fresh water applied	
22,230,000.00	*gallons*
818.66	*acre-inches*
22.13	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

F-9 - 04/06/2023: Corn, silage

Field name: F-9 Crop: Corn, silage Plant date: 04/06/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	65.95	24.12	29.77	37.68
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.95	0.00	0.00	236.58
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	80.89	24.12	29.77	274.27
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	186.71	37.67	183.44	822.20
Nutrient balance	-105.82	-13.55	-153.67	-547.94
Applied to removed ratio	0.43	0.64	0.16	0.33

Fresh water applied	
22,680,000.00	*gallons*
835.23	*acre-inches*
20.88	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

M43959-01 Valley Tech

Sample and source description: M43959-01 Valley Tech
Sample date: 05/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 55.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,900.00	6,100.00	20,600.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

M67202-01 Valley Tech

Sample and source description: M67202-01 Valley Tech
Sample date: 09/28/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 70.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,500.00	6,400.00	7,900.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

B. PROCESS WASTEWATER ANALYSES

L42240-01 Valley Tech

Sample and source description: L42240-01 Valley Tech
Sample date: 01/26/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	285.00	175.00	0.00	0.00	60.90	525.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.34	3,550
DL	10.00	2.00	2.00	2.00	0.02	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L45343-01 Valley Tech

Sample and source description: L45343-01 Valley Tech

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	676.00	215.00	0.00	0.00	50.60	327.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	4.51	2,990
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L63601-01 Valley Tech

Sample and source description: L63601-01 Valley Tech

Sample date: 08/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.20

	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	212.00	207.00	0.00	0.00	41.00	164.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	3.91	2,600
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L74158-01 Valley Tech

Sample and source description: L74158-01 Valley Tech

Sample date: 12/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.33

	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	393.00	337.00	0.00	0.00	61.00	426.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.69	3,780
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

C. FRESH WATER ANALYSES

3-A

3-A

23H0236-02 Dellavalle

Sample description: 23H0236-02 Dellavalle

Sample date: 08/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.90	0.00	5.90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	274.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

Canal

23E0701-01 Dellavalle

Sample description: 23E0701-01 Dellavalle

Sample date: 05/08/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20	0.00	0.20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	68.70	50
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	10

P-12

23H0236-03 Dellavalle Type O says 3B Should be 12

Sample description: 23H0236-03 Dellavalle Type O says 3B Should be 12

Sample date: 08/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.80	0.00	5.80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	274.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-13

P-13

23K0836-01 Dellavalle

Sample description: 23K0836-01 Dellavalle

Sample date: 11/16/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.20	0.00	5.20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	250.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-2A

23H0236-01 Dellavalle

Sample description: 23H0236-01 Dellavalle

Sample date: 08/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.90	0.00	5.90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	275.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-6

23H0236-4 Dellavalle

Sample description: 23H0236-4 Dellavalle

Sample date: 08/01/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.80	0.00	5.80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	272.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

D. SOIL ANALYSES

F-1

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	30.20	89.70	69.00	1,410.00	1.45	0.00	
DL	0.10	0.20	0.20	0.50	0.01	0.00	

F-10

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	5.30	14.90	25.00	335.00	0.59	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

F-2

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	44.70	33.00	45.00	546.00	2.04	0.00	
DL	0.01	0.02	0.02	0.05	0.10	0.00	

F-3

F-3

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	7.65	15.90	32.00	376.00	0.78	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

F-4

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	6.90	9.10	69.00	279.00	82.00	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

F-5

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	21.00	28.60	31.00	597.00	0.96	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

F-7

F-7

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	6.90	20.80	33.00	288.00	0.82	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

F-8

05-26S51582 Valley Tech

Sample and source description: 05-26S51582 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	27.00	21.40	26.00	445.00	1.03	0.00	
DL	0.01	0.02	0.02	0.05	0.05	0.00	

E. PLANT TISSUE ANALYSES

F-1 - 11/04/2022: Wheat, silage, soft dough

H52102-01 Valley Tech

Sample and source description: H52102-01 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	2,700.00	9,600.00		9.72
DL	0.05	0.02	0.02		0.05

F-1 - 06/15/2023: Corn, silage

F-1 - 06/15/2023: Corn, silage

H69364-01 Valley Tech

Sample and source description: H69364-01 Valley Tech

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	2,700.00	14,400.00		6.67
DL	0.05	0.02	0.02		0.05

F-10 - 10/03/2021: Alfalfa, hay

H50164-02 Valley Tech

Sample and source description: H50164-02 Valley Tech

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,500.00	2,800.00	23,900.00		10.50
DL	0.05	0.02	0.02		0.05

H67419-02 Valley Tech

Sample and source description: H67419-02 Valley Tech

Sample date: 09/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,000.00	3,700.00	29,200.00		12.30
DL	0.05	0.02	0.02		0.05

F-16 - 06/02/2023: Corn, silage

F-16 - 06/02/2023: Corn, silage

H66861-01 Valley Tech

Sample and source description: H66861-01 Valley Tech

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

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,500.00	2,100.00	11,100.00		5.32
DL	0.05	0.02	0.02		0.05

F-17 - 11/02/2022: Wheat, silage, soft dough

H52102-04 Valley Tech

Sample and source description: H52102-04 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	3,100.00	10,700.00		11.70
DL	0.05	0.02	0.02		0.05

F-17 - 06/24/2023: Corn, silage

H69364-02 Valley Tech

Sample and source description: H69364-02 Valley Tech

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,300.00	3,100.00	9,900.00		6.06
DL	0.05	0.02	0.02		0.05

F-2 - 04/03/2023: Corn, silage

H60633-01 Valley Tech

Sample and source description: H60633-01 Valley Tech

Sample date: 08/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	2,700.00	13,700.00		6.27
DL	0.05	0.02	0.02		0.05

F-3 - 10/29/2022: Wheat, silage, soft dough

H52102-02 Valley Tech

Sample and source description: H52102-02 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,700.00	2,600.00	9,500.00		10.10
DL	0.05	0.02	0.02		0.05

F-4 - 10/15/2021: Alfalfa, hay

H50164-01 Valley Tech

Sample and source description: H50164-01 Valley Tech

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,700.00	2,900.00	24,500.00		10.50
DL	0.05	0.02	0.02		0.05

F-4 - 10/15/2021: Alfalfa, hay

H67419-01 Valley Tech

Sample and source description: H67419-01 Valley Tech

Sample date: 09/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	39,800.00	3,700.00	29,100.00		12.70
DL	0.05	0.02	0.02		0.05

F-8 - 11/05/2022: Wheat, silage, soft dough

H52102-03 Valley Tech

Sample and source description: H52102-03 Valley Tech

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	2,800.00	9,900.00		11.00
DL	0.05	0.02	0.02		0.05

F-8 - 06/20/2023: Corn, silage

H67692-01 Valley Tech

Sample and source description: H67692-01 Valley Tech

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	3,000.00	5,500.00		5.39
DL	0.05	0.02	0.02		0.05

F-9 - 04/06/2023: Corn, silage

H60633-02 Valley Tech

Sample and source description: H60633-02 Valley Tech

Sample date: 08/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	2,300.00	11,200.00		5.02
DL	0.05	0.02	0.02		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

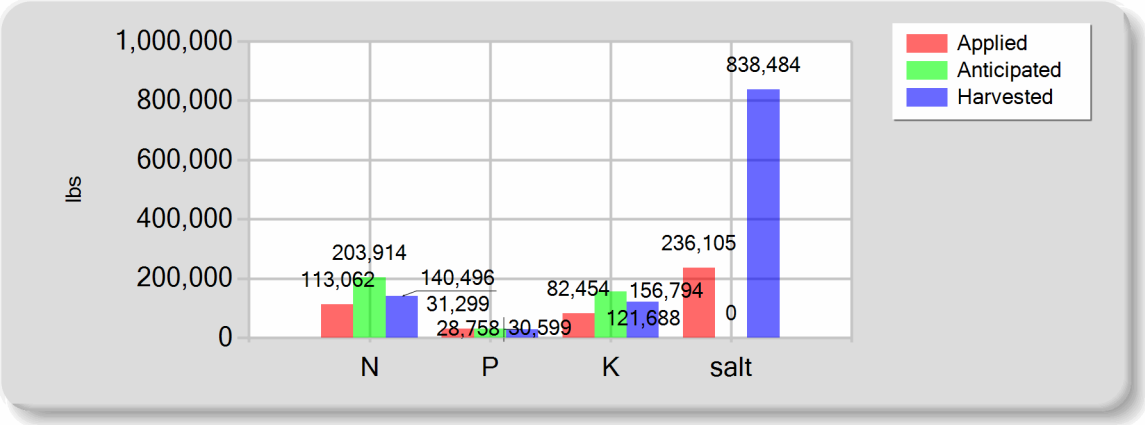
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

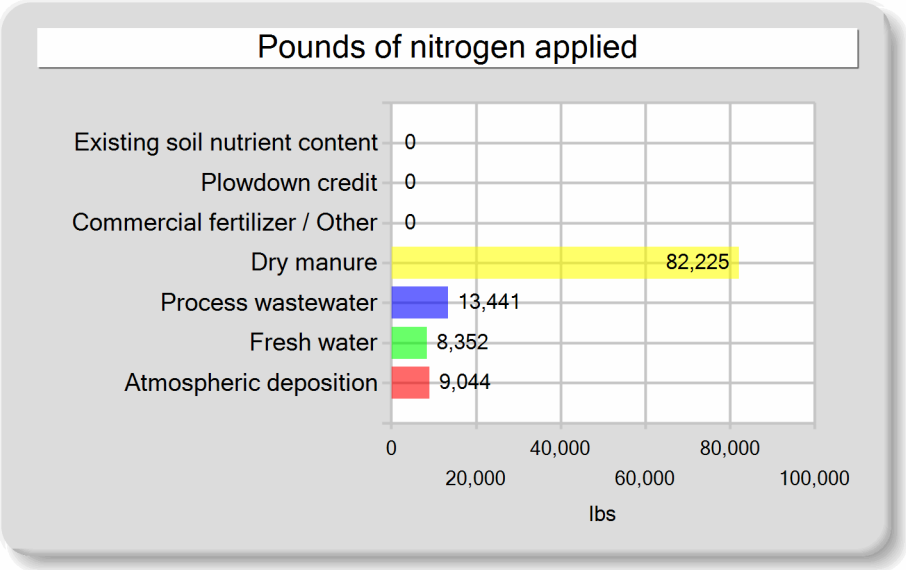
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

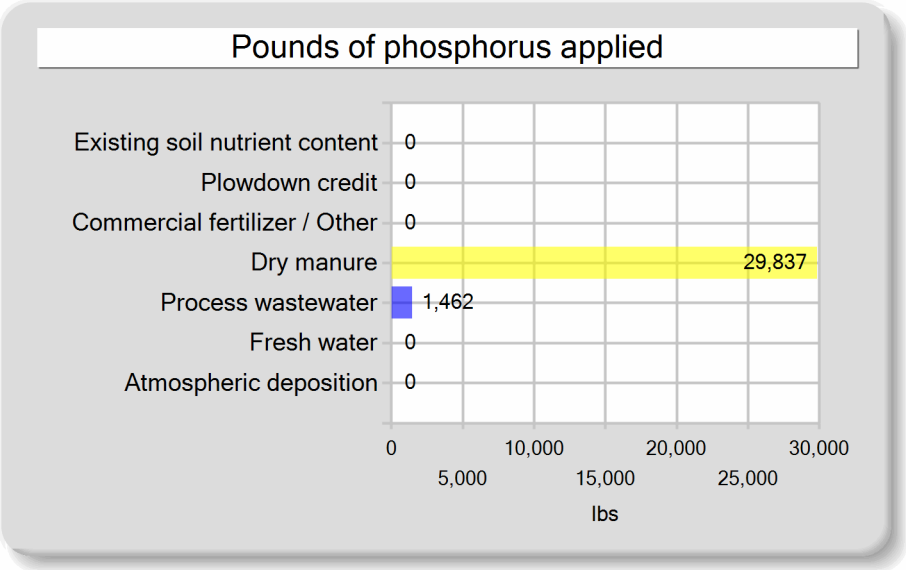
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	82,225.30	29,836.67	74,837.51	47,982.90
Process wastewater	13,440.94	1,461.91	7,616.32	89,601.02
Fresh water	8,351.53	0.00	0.00	98,521.24
Atmospheric deposition	9,044.00	0.00	0.00	0.00
Total nutrients applied	113,061.77	31,298.58	82,453.83	236,105.15
Anticipated crop nutrient removal	203,914.00	30,599.40	156,793.80	0.00
Actual crop nutrient removal	140,496.10	28,757.81	121,688.42	838,483.65
Nutrient balance	-27,434.33	2,540.77	-39,234.59	-602,378.49
Applied to removed ratio	0.80	1.09	0.68	0.28

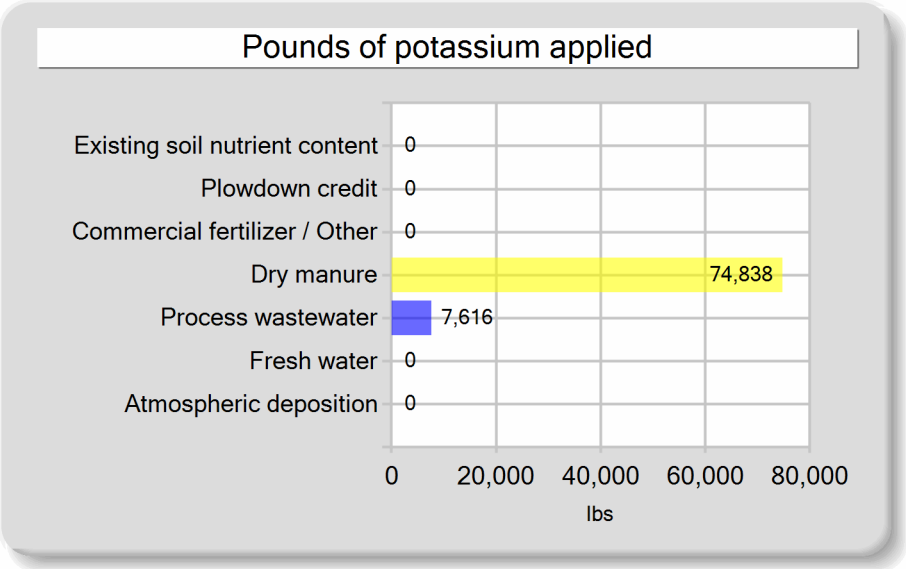
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

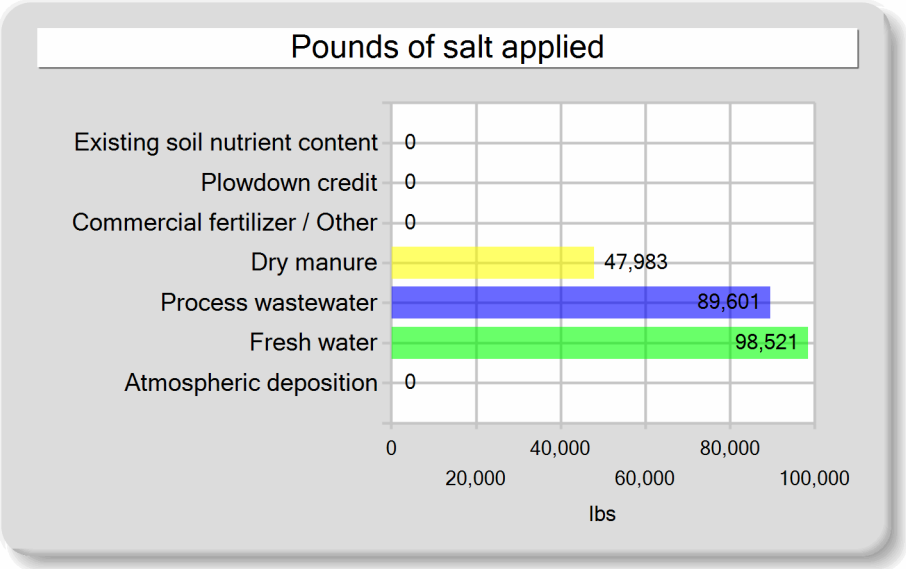


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

B. EXPORT AGREEMENT STATEMENT

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

ADDITIONAL NOTES

A. NOTES

1.) AG Well's # 3B,4,5,7,9A,9B,10,16A,16B,16C Was not used during reporting period. Due to use of Canal Water.
2.) Field Numbers 5,6,7 & 12 were empty during reporting period.
3.) Field Numbers 2,3,9 & 16 were one crop only during reporting period.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Paul OR Irene Nunes	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
DATE	DATE

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Paul OR Irene Nunes	SAME AS OWNER
PRINT OR TYPE NAME Paul Nunes	PRINT OR TYPE NAME
DATE 4/2/24	DATE

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

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23B0630-01	D-2	Drinking Water	Josh		02/15/2023 9:24
23B0630-02	D-2A	Drinking Water	Josh		02/15/2023 9:25
23B0630-03	D-3	Drinking Water	Josh		02/15/2023 9:31
23B0630-04	Barn Well	Drinking Water	Josh		02/15/2023 9:35
23B0630-05	New Well	Drinking Water	Josh		02/15/2023 9:39
23B0630-06	D-3A	Drinking Water	Josh		02/15/2023 9:44

Default Cooler Temperature on Receipt °C: 5.6
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.

Scott McFriedland

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.

1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com

DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results

Sample: D-2
23B0630-01 (Water)

Sampled: 2/15/2023 9:24
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.71**	mmhos/cm	0.01	1		02/17/23 11:49	SM 2510 B		BEB0451
Electrical Conductivity umhos	**705**	umhos/cm	10.0	1		02/17/23 11:49	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:24	Field		BEB0512
Nitrate Nitrogen as NO3N	**15.4**	mg/L	0.1	1	10	02/16/23 18:20	EPA 300.0		BEB0432
pH	**7.4**	units	1.0	1		02/17/23 11:49	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 11:49	SM 2510 B		BEB0451

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results
(Continued)

Sample: D-2A
23B0630-02 (Water)

Sampled: 2/15/2023 9:25
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.72**	mmhos/cm	0.01	1		02/17/23 11:50	SM 2510 B		BEB0451
Electrical Conductivity umhos	**723**	umhos/cm	10.0	1		02/17/23 11:50	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:25	Field		BEB0512
Nitrate Nitrogen as NO3N	**19.3**	mg/L	0.1	1	10	02/16/23 18:40	EPA 300.0		BEB0432
pH	**7.7**	units	1.0	1		02/17/23 11:50	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 11:50	SM 2510 B		BEB0451

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results
(Continued)

Sample: D-3
23B0630-03 (Water)

Sampled: 2/15/2023 9:31
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.62**	mmhos/cm	0.01	1		02/17/23 11:57	SM 2510 B		BEB0451
Electrical Conductivity umhos	**624**	umhos/cm	10.0	1		02/17/23 11:57	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:31	Field		BEB0512
Nitrate Nitrogen as NO3N	**10.7**	mg/L	0.1	1	10	02/16/23 19:00	EPA 300.0		BEB0432
pH	**7.7**	units	1.0	1		02/17/23 11:57	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 11:57	SM 2510 B		BEB0451

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results
(Continued)

Sample: Barn Well
23B0630-04 (Water)

Sampled: 2/15/2023 9:35
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.72**	mmhos/cm	0.01	1		02/17/23 11:59	SM 2510 B		BEB0451
Electrical Conductivity umhos	**718**	umhos/cm	10.0	1		02/17/23 11:59	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:35	Field		BEB0512
Nitrate Nitrogen as NO3N	**18.5**	mg/L	0.1	1	10	02/16/23 19:20	EPA 300.0		BEB0432
pH	**7.7**	units	1.0	1		02/17/23 11:59	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 11:59	SM 2510 B		BEB0451

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results
(Continued)

Sample: New Well
23B0630-05 (Water)

Sampled: 2/15/2023 9:39
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.61**	mmhos/cm	0.01	1		02/17/23 12:00	SM 2510 B		BEB0451
Electrical Conductivity umhos	**610**	umhos/cm	10.0	1		02/17/23 12:00	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:39	Field		BEB0512
Nitrate Nitrogen as NO3N	**9.4**	mg/L	0.1	1	10	02/16/23 19:41	EPA 300.0		BEB0432
pH	**7.7**	units	1.0	1		02/17/23 12:00	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 12:00	SM 2510 B		BEB0451

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Sample Results
(Continued)

Sample: D-3A
23B0630-06 (Water)

Sampled: 2/15/2023 9:44
Sampled By: Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.73**	mmhos/cm	0.01	1		02/17/23 12:01	SM 2510 B		BEB0451
Electrical Conductivity umhos	**734**	umhos/cm	10.0	1		02/17/23 12:01	SM 2510 B		BEB0451
Ammonia (as N)	*	mg/L	0.00	1		02/15/23 09:44	Field		BEB0512
Nitrate Nitrogen as NO3N	**20.4**	mg/L	0.1	1	10	02/16/23 20:01	EPA 300.0		BEB0432
pH	**7.8**	units	1.0	1		02/17/23 12:01	SM 4500-H+	H	BEB0451
Temperature	**25.0**	°C	0.0	1		02/17/23 12:01	SM 2510 B		BEB0451

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEB0432										
Blank (BEB0432-BLK1)					Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEB0432-BLK2)					Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEB0432-BLK3)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEB0432-BS1)					Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		101	90-110		
LCS (BEB0432-BS2)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		103	90-110		
Duplicate (BEB0432-DUP1)		**Source: 23B0028-01**			Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	10.9		0.1	mg/L		10.9			0.542	10
Duplicate (BEB0432-DUP2)		**Source: 23B0632-01**			Prepared: 2/16/2023 Analyzed: 2/17/2023					
Nitrate Nitrogen as NO3N	41.7		0.1	mg/L		42.3			1.48	10
Matrix Spike (BEB0432-MS1)		**Source: 23B0028-01**			Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	16.1		0.1	mg/L	5.000	10.9	103	90-110		
Matrix Spike (BEB0432-MS2)		**Source: 23B0632-01**			Prepared: 2/16/2023 Analyzed: 2/17/2023					
Nitrate Nitrogen as NO3N	46.0		0.1	mg/L	5.000	42.3	75.4	90-110		
Reference (BEB0432-SRM1)					Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	10.7			mg/L	10.00		107	90-110		
Reference (BEB0432-SRM2)					Prepared & Analyzed: 2/16/2023					
Nitrate Nitrogen as NO3N	10.7			mg/L	10.00		107	90-110		
Reference (BEB0432-SRM3)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Nitrate Nitrogen as NO3N	10.9			mg/L	10.00		109	90-110		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEB0451										
Blank (BEB0451-BLK1)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
pH	5.4		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 (BEB0451-BLK2)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.8		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEB0451-BLK3)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.5		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEB0451-DUP1)		**Source: 23B0630-02**			Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	0.72		0.01	mmhos/cm		0.72			0.499	10
pH	7.7		1.0	units		7.7			1.04	10
Electrical Conductivity umhos	719		10.0	umhos/cm		723			0.499	10
Duplicate (BEB0451-DUP2)		**Source: 23B0632-06**			Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	1.02		0.01	mmhos/cm		1.03			0.605	10
pH	7.5		1.0	units		7.5			0.133	10
Electrical Conductivity umhos	1020		10.0	umhos/cm		1030			0.605	10
Reference (BEB0451-SRM1)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	584			umhos/cm	538.0		109	90-110		
Reference (BEB0451-SRM2)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
pH	7.6			units	7.620		100	68766-101.31		
Reference (BEB0451-SRM3)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	1080			umhos/cm	1000		108	90-110		
Electrical Conductivity umhos	1080			umhos/cm	1000		108	90-110		
Reference (BEB0451-SRM4)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEB0451-SRM5)					Prepared: 2/16/2023 Analyzed: 2/17/2023					
Electrical Conductivity	1080			umhos/cm	1000		108	90-110		

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DELLAVALLE™ LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Adreano Nunes

Received: 02/16/2023 7:00
Reported: 02/21/2023 09:24

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEB0451 (Continued)										
Reference (BEB0451-SRM5)					Prepared: 2/16/2023	Analyzed: 2/17/2023				
Electrical Conductivity umhos	1080			umhos/cm	1000		108	90-110		
Reference (BEB0451-SRM6)					Prepared: 2/16/2023	Analyzed: 2/17/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEB0451-SRM7)					Prepared: 2/16/2023	Analyzed: 2/17/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEB0451-SRM8)					Prepared: 2/16/2023	Analyzed: 2/17/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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02/16/23 07:00 23B0630

58

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

WATER WORK REQUEST

Acct No. / Cons.
Bill To: 24349 | 8

Purchase Order No. _____ Results Needed By _____

Client: Roxey J Avila
Address: 1000 Rankin Ave
City, State, Zip: Tulare, CA 93274
Phone: (559) 786-4683 Fax _____
Cell/Email: goroxey@yahoo.com

Copy to _____

Requested by: Roxey

Ranch: ADREANO NUNES

Date sampled: 2-15-2023

Sampled by: Josh

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

No. of Samples: 6 No. Bottles: 6

Water Type: [X] Drinking [ ] Wastewater
[ ] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

(X) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test***)
(1) l L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

( ) Other _____

DESCRIPTION OF SAMPLES

		Sampled From:	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	D-2		2-15-23	9:24		5.6
2.	D-2A		2-15-23	9:25		9.1
3.	D-3		2-15-23	9:31		5.6
4.	Barn Well		2-15-23	9:35		16.8
5.	New Well		2-15-23	9:39		16.1
6.	D-3A		2-15-23	9:44		10.7
7.						
8.						
9.						
10.						

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Josh Avila	HDSI	2-15-23 9:24 AM	2/15/23 10:26 AM
Second	[illegible]	DLL	2/15/23 10:26 AM	
Third				
Fourth	[illegible]	ALI	2/16	[illegible]

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

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

Invoicing Information:

Shipping
$ _____ In
$ _____ Out

Sampling Hrs ____ Miles ____ Consulting ____

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

mg:update 2022

02/16/23 07:00 23B0630

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

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 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:										

DLI SEND OUT

02/16/23 07:00 23B0630

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

WATER WORK REQUEST

Bill To: Acct No. 24349 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client: Roxey J Avila
Address: 1000 Rankin Ave
City, State, Zip: Tulare, CA 93274
Phone: (559) 786-4683 Fax _____
Cell/Email: goroxey@yahoo.com

Copy to _____

Requested by: Roxey

Ranch: ADREANO NUNES

Date sampled: 2-15-2023

Sampled by: Josh

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

No. of Samples: 6 No. Bottles: 6

Water Type: [X] Drinking [ ] Wastewater
[ ] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

(X) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test***)
(1) l L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

( ) Other _____

	DESCRIPTION OF SAMPLES	Sampled From:	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
NO3-N 15.4	1. D-2	Sampled From:	2-15-23	9:24		5.6
19.3	2. D-2A	Sampled From:	2-15-23	9:25		9.1
10.7	3. D-3	Sampled From:	2-15-23	9:31		5.6
18.5	4. Barn Well	Sampled From:	2-15-23	9:35		16.8
9.4	5. New Well	Sampled From:	2-15-23	9:39		16.1
20.4	6. D-3A	Sampled From:	2-15-23	9:44		10.7
	7.	Sampled From:				
	8.	Sampled From:	Kara 2/17/23			
	9.	Sampled From:	14:41 - per Roxey, ok. & thanks			
	10.	Sampled From:				

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Joshua Xeira	HDS	2-15-23 9:24 AM	2/15/23 10:26 AM
Second	[illegible]	DU	2/15/23 10:26 AM	
Third				
Fourth	[illegible]	ALI	4/16	offer

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties 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 ____

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Shipping
$ _____ In
$ _____ Out

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

mg:update 2022

02/16/23 07:00 23B0630

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

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 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:										

DLI SENT OUT

DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0701-01	Canal (Canal)	Ag Water	Roxey		05/08/2023 7:45

Default Cooler Temperature on Receipt °C: 9.3

Custody Seals
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

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.

DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Sample Results

Sample: Canal (Canal)
23E0701-01 (Water)

Sampled: 5/8/2023 7:45
Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.07**	mmhos/cm	0.01	1		05/11/23 13:14	SM 2510 B		BEE0294
Electrical Conductivity umhos	**68.7**	umhos/cm	10.0	1		05/11/23 13:14	SM 2510 B		BEE0294
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	05/09/23 18:26	EPA 300.0		BEE0285
pH	**7.6**	units	1.0	1		05/11/23 13:14	SM 4500-H+	H	BEE0294
Total Filterable Solids (TDS)	**50.0**	mg/L	10.0	1		05/26/23 14:01	SM 2540 C		BEE0919
Temperature	**25.0**	°C	0.0	1		05/11/23 13:14	SM 2510 B		BEE0294

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0285										
Blank (BEE0285-BLK1)					Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEE0285-BLK2)					Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEE0285-BS1)					Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		103	90-110		
Duplicate (BEE0285-DUP1)		**Source: 23E0697-01**			Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	0.3		0.1	mg/L		0.3			0.317	10
Matrix Spike (BEE0285-MS1)		**Source: 23E0697-01**			Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	5.6		0.1	mg/L	5.000	0.3	105	90-110		
Reference (BEE0285-SRM1)					Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		
Reference (BEE0285-SRM2)					Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0294										
Blank (BEE0294-BLK1)					Prepared & Analyzed: 5/11/2023					
pH	5.5		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEE0294-BLK2)					Prepared & Analyzed: 5/11/2023					
pH	5.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEE0294-BLK3)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.7		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEE0294-DUP1)		**Source: 23E0030-01**			Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	0.54		0.01	mmhos/cm		0.55			2.04	10
pH	7.4		1.0	units		7.4			0.404	10
Electrical Conductivity umhos	540		10.0	umhos/cm		551			2.04	10
Duplicate (BEE0294-DUP2)		**Source: 23E0703-01**			Prepared & Analyzed: 5/11/2023					
pH	7.6		1.0	units		7.6			0.393	10
Electrical Conductivity	0.07		0.01	mmhos/cm		0.07			0.447	10
Electrical Conductivity umhos	67.0		10.0	umhos/cm		67.3			0.447	10
Reference (BEE0294-SRM1)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	569			umhos/cm	538.0		106	90-110		
Reference (BEE0294-SRM2)					Prepared & Analyzed: 5/11/2023					
pH	7.8			units	7.790		99.9	.7163-101.28		
Reference (BEE0294-SRM3)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEE0294-SRM4)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEE0294-SRM5)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0294 (Continued)										
Reference (BEE0294-SRM5)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEE0294-SRM6)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEE0294-SRM7)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEE0294-SRM8)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		99.8	97.5-102.5		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. Nunes

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:13

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0919										
Blank (BEE0919-BLK1)					Prepared: 5/24/2023	Analyzed: 5/26/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEE0919-BS1)					Prepared: 5/24/2023	Analyzed: 5/26/2023				
Total Filterable Solids (TDS)	23.8		10.0	mg/L	2000		1.19	0-200		
Duplicate (BEE0919-DUP1)		**Source: 23E0705-01**			Prepared: 5/24/2023	Analyzed: 5/26/2023				
Total Filterable Solids (TDS)	50.0		10.0	mg/L		50.0			0.00	5
Reference (BEE0919-SRM1)					Prepared: 5/24/2023	Analyzed: 5/26/2023				
Total Filterable Solids (TDS)	330			mg/L	325.0		102	90-110		

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05/09/23 07:50 23E0701

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

WATER WORK REQUEST

Bill To: Acct No. 24349 Cons. 8

Purchase Order No. _____ Results Needed By _____

Client: Roxey J Avila
Address: ~~1000 Rankin Ave~~ 74 Skazorian
City, State, Zip: Tulare, CA 93274
Phone: (559) 786-4683 Fax _____
Cell/Email: goroxey@yahoo.com

Copy to _____

Requested by: Roxey

Ranch: A. NUNES

Date sampled: 5-8-23

Sampled by: Roxey

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

No. of Samples: 1 No. Bottles: 1

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

( ) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test*)**
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

(✓) DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

( ) Other _____

DESCRIPTION OF SAMPLES

		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. Canal	Sampled From: Canal	5-8-23	7:45A	ND	9.3/5.3
2.	Sampled From:				
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

If Out of Temperature Compliance
Proceed: [X] Yes [ ] No
Ok'd by Joshi Rivera (client)
Date 5/8/23 (client)

Temperature Upon Receipt
Hanford (°C):
Laboratory (°C): 3.5

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

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Joshi Rivera	Hdsi	5/8/23 9:00am	5/8/23 10:42AM
Second	[illegible]	DLI	5/8/23 10:42AM	
Third				
Fourth	[illegible]	DLI	5/9 [illegible]	

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

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

Invoicing Information:

Shipping
$ _____ In
$ _____ Out

Sampling Hrs ____ Miles ____ Consulting ____

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

mg:update 2022

05/09/23 07:50 23E0701

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)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value										
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**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)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

DLI SEND OUT

DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H0236-01	P-2A	Ag Water	Roxey		07/31/2023 10:08
23H0236-02	P-3A	Ag Water	Roxey		07/31/2023 10:12
23H0236-03	P-3B	Ag Water	Roxey		07/31/2023 10:30
23H0236-04	P-6	Ag Water	Roxey		07/31/2023 10:00

Default Cooler Temperature on Receipt °C: 18.2
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

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Sample Results

Sample: P-2A
23H0236-01 (Water)

Sampled: 7/31/2023 10:08
Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/02/23 11:50	SM 2510 B		BEH0068
Electrical Conductivity umhos	**275**	umhos/cm	10.0	1		08/02/23 11:50	SM 2510 B		BEH0068
Ammonia (as N)	ND	mg/L	0.00	1		07/31/23 10:08	Field		BEH0007
Nitrate Nitrogen as NO3N	**5.9**	mg/L	0.1	1	10	08/01/23 17:34	EPA 300.0		BEG1149
pH	**8.2**	units	1.0	1		08/02/23 11:50	SM 4500-H+	H	BEH0068
Temperature	**25.0**	°C	0.0	1		08/02/23 11:50	SM 2510 B		BEH0068

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Sample Results
(Continued)

Sample: P-3A
23H0236-02 (Water)

Sampled: 7/31/2023 10:12
Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/02/23 11:52	SM 2510 B		BEH0068
Electrical Conductivity umhos	**274**	umhos/cm	10.0	1		08/02/23 11:52	SM 2510 B		BEH0068
Ammonia (as N)	ND	mg/L	0.00	1		07/31/23 10:12	Field		BEH0007
Nitrate Nitrogen as NO3N	**5.9**	mg/L	0.1	1	10	08/01/23 17:54	EPA 300.0		BEG1149
pH	**8.2**	units	1.0	1		08/02/23 11:52	SM 4500-H+	H	BEH0068
Temperature	**25.0**	°C	0.0	1		08/02/23 11:52	SM 2510 B		BEH0068

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Sample Results
(Continued)

Sample: P-3B
23H0236-03 (Water)

Sampled: 7/31/2023 10:30
Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/02/23 11:53	SM 2510 B		BEH0068
Electrical Conductivity umhos	**274**	umhos/cm	10.0	1		08/02/23 11:53	SM 2510 B		BEH0068
Ammonia (as N)	ND	mg/L	0.00	1		07/31/23 10:30	Field		BEH0007
Nitrate Nitrogen as NO3N	**5.8**	mg/L	0.1	1	10	08/01/23 18:15	EPA 300.0		BEG1149
pH	**8.2**	units	1.0	1		08/02/23 11:53	SM 4500-H+	H	BEH0068
Temperature	**25.0**	°C	0.0	1		08/02/23 11:53	SM 2510 B		BEH0068

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Sample Results
(Continued)

Sample: P-6
23H0236-04 (Water)

Sampled: 7/31/2023 10:00
Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.27**	mmhos/cm	0.01	1		08/02/23 11:54	SM 2510 B		BEH0068
Electrical Conductivity umhos	**272**	umhos/cm	10.0	1		08/02/23 11:54	SM 2510 B		BEH0068
Ammonia (as N)	ND	mg/L	0.00	1		07/31/23 10:00	Field		BEH0007
Nitrate Nitrogen as NO3N	**5.8**	mg/L	0.1	1	10	08/01/23 18:35	EPA 300.0		BEG1149
pH	**8.2**	units	1.0	1		08/02/23 11:54	SM 4500-H+	H	BEH0068
Temperature	**25.0**	°C	0.0	1		08/02/23 11:54	SM 2510 B		BEH0068

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1149										
Blank (BEG1149-BLK1)					Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG1149-BLK2)					Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG1149-BLK3)					Prepared: 8/1/2023 Analyzed: 8/2/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEG1149-BS1)					Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000		94.4	90-110		
LCS (BEG1149-BS2)					Prepared: 8/1/2023 Analyzed: 8/2/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEG1149-DUP1)		**Source: 23H0236-01**			Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	5.9		0.1	mg/L		5.9			0.375	10
Duplicate (BEG1149-DUP2)		**Source: 23H0073-01**			Prepared: 8/1/2023 Analyzed: 8/2/2023					
Nitrate Nitrogen as NO3N	18.5		0.1	mg/L		18.4			0.380	10
Matrix Spike (BEG1149-MS1)		**Source: 23H0236-01**			Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	11.0		0.1	mg/L	5.000	5.9	102	90-110		
Matrix Spike (BEG1149-MS2)		**Source: 23H0073-01**			Prepared: 8/1/2023 Analyzed: 8/2/2023					
Nitrate Nitrogen as NO3N	23.5		0.1	mg/L	5.000	18.4	102	90-110		
Reference (BEG1149-SRM1)					Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		
Reference (BEG1149-SRM2)					Prepared & Analyzed: 8/1/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Reference (BEG1149-SRM3)					Prepared: 8/1/2023 Analyzed: 8/2/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0068										
Blank (BEH0068-BLK1)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0068-BLK2)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.2		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0068-BLK3)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	0.01		0.01	mmhos/cm						
pH	7.3		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	12.1		10.0	umhos/cm						
Duplicate (BEH0068-DUP1)		**Source: 23H0232-01**			Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			8.94	10
pH	7.8		1.0	units		7.6			2.22	10
Electrical Conductivity umhos	20.3		10.0	umhos/cm		22.2			8.94	10
Duplicate (BEH0068-DUP2)		**Source: 23H0298-01**			Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	2.89		0.01	mmhos/cm		2.90			0.332	10
pH	7.0		1.0	units		7.0			0.285	10
Electrical Conductivity umhos	2890		10.0	umhos/cm		2900			0.332	10
Reference (BEH0068-SRM1)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	550			umhos/cm	538.0		102	90-110		
Reference (BEH0068-SRM2)					Prepared & Analyzed: 8/2/2023					
pH	7.8			units	7.790		101	.7163-101.28		
Reference (BEH0068-SRM3)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEH0068-SRM4)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEH0068-SRM5)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		

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DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey

Received: 08/01/2023 7:51
Reported: 08/03/2023 12:42

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0068 (Continued)										
Reference (BEH0068-SRM5)					Prepared & Analyzed: 8/2/2023					
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEH0068-SRM6)					Prepared & Analyzed: 8/2/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0068-SRM7)					Prepared & Analyzed: 8/2/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEH0068-SRM8)					Prepared & Analyzed: 8/2/2023					
pH	4.0			units	4.000		100	97.5-102.5		

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08/01/23 07:51 23H0236

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

WATER WORK REQUEST

Bill To: Acct No. 24349 Cons. 8

Purchase Order No. _____ Results Needed By _____

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

Copy to: _____

Requested by: Roxey

Ranch: **A. NUNES**

Date sampled: 7-31-23

Sampled by: Roxey

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

No. of Samples: 4 No. Bottles: 4

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

( ) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test*)**
(1) l L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

( ) Other _____

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. P-2A	Sampled From:	7-31-23	10:08A	"0"	18.2 → 1.6
2. P-3A	Sampled From:	7-31-23	10:12A	"0"	12.5 → 1.8
3. P-3B	Sampled From:	7-31-23	10:30A	"0"	14.4 → 1.7
4. P-6	Sampled From:	7-31-23	10:00A	"0"	4.9 → 1.9
5.	Sampled From:				
6.					
7.					
8.					
9.					
10.	Sampled From:				

If Out of Temperature Compliance
Proceed: [✓] Yes [ ] No
Ok'd by Roxey Avila (client)
Date 7/07/31/23 (clientl)

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

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	R Avila			07/31/23 12:56pm
Second	[illegible]	DL	07/31/23 12:56pm	
Third				
Fourth	EDS	DCI	8/1/23 07:51	

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties 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 ____

Amt Paid ____ Rec By ____ Check No. ____

Shipping
$ _____ In
$ _____ Out
Date _____

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

mg:update 2022

08/01/23 07:51 23H0236

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

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

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

Samples Preserved with 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)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value										
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1	1	1						
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**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)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

DELLAVALLE™
LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. NUNES

Received: 11/16/2023 8:10
Reported: 11/21/2023 11:01

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0836-01	P-13	Ag Water	Justin		11/15/2023 10:00

Default Cooler Temperature on Receipt °C: 8.1
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

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LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. NUNES

Received: 11/16/2023 8:10
Reported: 11/21/2023 11:01

Sample Results

Sample: P-13
23K0836-01 (Water)

Sampled: 11/15/2023 10:00
Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.25**	mmhos/cm	0.01	1		11/20/23 12:23	SM 2510 B		BEK0614
Electrical Conductivity umhos	**250**	umhos/cm	10.0	1		11/20/23 12:23	SM 2510 B		BEK0614
Ammonia (as N)	ND	mg/L	0.00	1		11/15/23 10:00	Field		BEK0512
Nitrate Nitrogen as NO3N	**5.2**	mg/L	0.1	1	10	11/16/23 16:06	EPA 300.0		BEK0571
Temperature	**25.0**	units	0.0	1		11/20/23 12:23	SM 4500-H+	H	BEK0614
pH	**8.3**	units	1.0	1		11/20/23 12:23	SM 4500-H+	H	BEK0614

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DELLAVALLE™ LABORATORY INC

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: A. NUNES

Received: 11/16/2023 8:10
Reported: 11/21/2023 11:01

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0571										
Blank (BEK0571-BLK1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK2)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0571-BLK4)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEK0571-BS1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		105	90-110		
LCS (BEK0571-BS2)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEK0571-BS3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.7	90-110		
Duplicate (BEK0571-DUP1)		**Source: 23K0836-01**			Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L		5.2			1.95	10
Duplicate (BEK0571-DUP2)		**Source: 23K0891-01**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	2.2		0.1	mg/L		2.2			1.15	10
Duplicate (BEK0571-DUP3)		**Source: 23K0934-04**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L		5.5			0.290	10
Matrix Spike (BEK0571-MS1)		**Source: 23K0836-01**			Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	10.2		0.1	mg/L	5.000	5.2	101	90-110		
Matrix Spike (BEK0571-MS2)		**Source: 23K0891-01**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	7.2		0.1	mg/L	5.000	2.2	100	90-110		
Matrix Spike (BEK0571-MS3)		**Source: 23K0934-04**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	10.7		0.1	mg/L	5.000	5.5	104	90-110		
Reference (BEK0571-SRM1)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		97.1	90-110		
Reference (BEK0571-SRM2)					Prepared & Analyzed: 11/16/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		97.5	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: BEK0571 (Continued)										
Reference (BEK0571-SRM3)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.2	90-110		
Reference (BEK0571-SRM4)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.4	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0614										
Blank (BEK0614-BLK1)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.9		1.0	units						
Blank (BEK0614-BLK2)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.8		1.0	units						
Blank (BEK0614-BLK3)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	6.2		1.0	units						
Duplicate (BEK0614-DUP1)		**Source: 23K0805-02**			Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	2.32		0.01	mmhos/cm		2.34			0.682	10
pH	5.1		1.0	units		5.1			0.195	10
Electrical Conductivity umhos	2320		10.0	umhos/cm		2340			0.682	10
Duplicate (BEK0614-DUP2)		**Source: 23K0837-02**			Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1.04		0.01	mmhos/cm		1.04			0.173	10
Electrical Conductivity umhos	1040		10.0	umhos/cm		1040			0.173	10
pH	7.5		1.0	units		7.5			0.268	10
Reference (BEK0614-SRM1)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	550			umhos/cm	538.0		102	90-110		
Reference (BEK0614-SRM2)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	7.6			units	7.520		100	67021-101.32		
Reference (BEK0614-SRM3)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEK0614-SRM4)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEK0614-SRM5)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		

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LABORATORY INC

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Received: 11/16/2023 8:10
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0614 (Continued)										
Reference (BEK0614-SRM5)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEK0614-SRM6)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEK0614-SRM7)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEK0614-SRM8)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		101	97.5-102.5		

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MM

11/16/23 08:10 23K0836

WATER WORK REQUEST

Bill To: Acct No. 24349 Cons. 8

Purchase Order No. _____ Results Needed By _____

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

Copy to _____

Requested by: Roxey

Ranch: A. NUNES

Date sampled: 11-15-23

Sampled by: Justin

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

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples _____ No. Bottles _____

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other _____

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

(X) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test***)
(1) l L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) l L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) l L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) l L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) l L plastic, unpreserved (white)

( ) Other _____

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. P-13	Sampled From:	11-15-23	10:00A	1.01	8.1/-0.6
2.	Sampled From:				
3.	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

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

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	R Amla	HDSI	11-15-23 11:05	11/15/23 11:05
Second	CH	DLI	11/15/23 11:05	11/15/23 11:05
Third	MM	DLI	11/16 8:10	
Fourth				

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties 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 ____

Amt Paid ____ Rec By ____ Check No. ____

Shipping

$ _____ In
$ _____ Out

Date _____

Signature _____

Sample received in cooler with ice?
[ ] Yes [ ] No

mg:update 2022

11/16/23 08:10 23K0836

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 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:										

DRAFT
SENT OUT