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: Sunshine Dairy (Anthony & Robert Brazil Dairy)

Physical address of dairy:

13113 7th AVE	Hanford	Kings	93230
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 10/09/1970

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0016-0260-0017-0000

B. OPERATORS

Brazil, Anthony

Operator name: Brazil, Anthony Telephone no.: (559) 583-8636 (Landline) (Cellular)

13425 7th Ave	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

Brazil, Robert

Operator name: Brazil, Robert Telephone no.: (559) 584-7175 (Landline) (Cellular)

13266 7th Ave	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

C. OWNERS

Brazil, Anthony

Legal owner name: Brazil, Anthony

Telephone no.: (559) 583-8636

Landline	Cellular

13425 7th Ave	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

Brazil, Robert

Legal owner name: Brazil, Robert

Telephone no.: (559) 584-7175

Landline	Cellular

13266 7th Ave	Hanford	CA	93230
Mailing Address Number and Street	City	State	Zip Code

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	50	200	150	50	35
Number under roof	330	0	0	0	0	0
Maximum number	330	50	200	150	50	35
Average number	330	50	200	150	50	35
Avg live weight (lbs)	1,100	1,200	950	700		

Predominant milk cow breed: Jersey

Average milk production: 68 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 12,840.21 *tons per reporting period*

Total nitrogen from manure: 156,346.19 *lbs per reporting period* After ammonia losses (30% loss applied): 109,442.33 *lbs per reporting period*

Total phosphorus from manure: 25,683.12 *lbs per reporting period*

Total potassium from manure: 62,764.42 *lbs per reporting period*

Total salt from manure: 166,878.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 44,028,000 *gallons*

Total nitrogen generated: 100,853.27 *lbs*

Total phosphorus generated: 10,664.49 *lbs*

Total potassium generated: 61,299.24 *lbs*

Total salt generated: 369,800.33 *lbs*

	44,028,000	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	44,028,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
WAr-14 Dom	Ground water
War-6 Dom	Ground water
War-7 Dom	Ground water
War-8 Dom	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.

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
AR-1	16	16	0	none	X016-X260-X016-XXXX
AR-10	100	100	0	none	X016-X260-X019-XXXX
AR-2	45	45	2	process wastewater	X016-X026-X016-XXXX
AR-3	7	7	0	none	X016-X260-X017-XXXX
AR-4	20	20	0	none	X016-X260-X017-XXXX
AR-5	40	40	2	both	X016-X260-X017-XXXX
AR-6	75	75	2	both	X016-X260-X019-XXXX
AR-7	75	75	2	both	X016-X260-X005-XXXX
AR-8	75	75	2	both	X016-X260-X008-XXXX
AR-9	75	75	2	both	X016-X260-X009-XXXX
Totals for areas that were used for application	385	385	12		
Totals for areas that were not used for application	143	143	0		
Land application area totals	528	528	12		

B. CROPS AND HARVESTS

AR-2

Field name: AR-2

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 45 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	810.00 *ton*	Dry-weight		68.8	18,600.00	2,100.00	15,700.00		14.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	208.92	23.59	176.34	1,617.41

AR-2

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,125.00 *ton*	Dry-weight		65.3	13,000.00	2,200.00	10,000.00		3.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	225.55	38.17	173.50	650.63

AR-5

Field name: AR-5

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 40 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	720.00 *ton*	Dry-weight		60.6	13,700.00	6,200.00	41,000.00		10.88

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	194.32	87.94	581.54	1,543.22

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,000.00 *ton*	Dry-weight		65.5	15,700.00	2,800.00	10,300.00		5.77

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	270.83	48.30	177.68	995.33

AR-6

Field name: AR-6

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,350.30 *ton*	Dry-weight		60.1	13,300.00	3,800.00	30,100.00		6.84

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.00	191.08	54.60	432.45	982.72

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,875.00 *ton*	Dry-weight		65.9	13,400.00	1,800.00	9,500.00		3.88

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.00	228.47	30.69	161.98	661.54

AR-7

Field name: AR-7

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,365.00 *ton*	Dry-weight		68.6	17,200.00	2,700.00	19,300.00		13.46

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.20	196.59	30.86	220.59	1,538.42

AR-7

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,901.00 *ton*	Dry-weight		65.9	13,100.00	2,200.00	10,300.00		4.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.35	226.45	38.03	178.05	758.87

AR-8

Field name: AR-8

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,346.00 *ton*	Dry-weight		61.2	14,500.00	3,400.00	21,500.00		9.81

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.95	201.94	47.35	299.42	1,366.20

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,895.00 *ton*	Dry-weight		66.1	13,900.00	2,400.00	11,900.00		5.57

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.27	238.12	41.11	203.86	954.19

AR-9

Field name: AR-9

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,405.00 *ton*	Dry-weight		64.2	15,100.00	3,600.00	23,200.00		9.78

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.73	202.54	48.29	311.18	1,311.80

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,915.00 *ton*	Dry-weight		65.7	16,200.00	2,900.00	11,100.00		5.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.53	283.76	50.80	194.43	891.56

NUTRIENT BUDGET

A. LAND APPLICATIONS

AR-2 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-2

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	73.33	9.81	58.74	331.68	628,000.00 *gal*
Application event totals		73.33	9.81	58.74	331.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	73.33	9.81	58.74	331.68	628,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.35	3,754,000.00 *gal*
Application event totals		73.33	9.81	58.74	340.03	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	61.65	8.25	49.39	278.86	528,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.35	3,754,000.00 *gal*
Application event totals		61.65	8.25	49.39	287.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	61.65	8.25	49.39	278.86	528,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.35	3,754,000.00 *gal*
Application event totals		61.65	8.25	49.39	287.21	

AR-2 - 06/01/2023: Corn, silage

AR-2 - 06/01/2023: Corn, silage

Field name: AR-2

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	123.30	6.63	33.54	242.21	3,700,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		123.30	6.63	33.54	256.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	123.30	6.63	33.54	242.21	3,700,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		123.30	6.63	33.54	256.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.46	

AR-2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	24.50	5.04	28.88	179.50	828,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		24.50	5.04	28.88	193.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	6,500,000.00 *gal*
Application event totals		0.00	0.00	0.00	14.46	

AR-5 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-5

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.94	15.38	92.07	519.89	875,000.00 *gal*
Application event totals		114.94	15.38	92.07	519.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.84	3,533,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.84	

AR-5 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.94	15.38	92.07	519.89	875,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.84	3,533,000.00 *gal*
Application event totals		114.94	15.38	92.07	528.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.84	3,533,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.84	

AR-5 - 06/01/2023: Corn, silage

Field name: AR-5

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	215.25	81.38	354.38	10,163.22	525.00 *ton*
Application event totals		215.25	81.38	354.38	10,163.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.51	

AR-5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	33.74	1.81	9.18	66.28	900,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		33.74	1.81	9.18	76.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	33.74	1.81	9.18	66.28	900,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		33.74	1.81	9.18	76.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	33.74	1.81	9.18	66.28	900,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		33.74	1.81	9.18	76.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.51	

AR-5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	33.74	1.81	9.18	66.28	900,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		33.74	1.81	9.18	76.79	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.51	4,200,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.51	

AR-6 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-6

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	147.20	45.87	293.33	2,937.91	400.00 *ton*
Application event totals		147.20	45.87	293.33	2,937.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	45.96	6.15	36.82	207.88	656,000.00 *gal*
Application event totals		45.96	6.15	36.82	207.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	9.88	

AR-6 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	52.54	7.03	42.09	237.67	750,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		52.54	7.03	42.09	247.55	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	9.88	

AR-6 - 06/01/2023: Corn, silage

Field name: AR-6

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	65.60	24.80	108.00	3,097.36	300.00 *ton*
Application event totals		65.60	24.80	108.00	3,097.36	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.08	

AR-6 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	52.99	2.85	14.41	104.08	2,650,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		52.99	2.85	14.41	117.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	52.99	2.85	14.41	104.08	2,650,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		52.99	2.85	14.41	117.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	52.99	2.85	14.41	104.08	2,650,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		52.99	2.85	14.41	117.17	

AR-6 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		0.00	0.00	0.00	13.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	47.04	9.68	55.45	344.69	2,650,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	13.08	9,800,000.00 *gal*
Application event totals		47.04	9.68	55.45	357.77	

AR-7 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-7

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	110.40	34.40	220.00	2,203.43	300.00 *ton*
Application event totals		110.40	34.40	220.00	2,203.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	36.29	4.86	29.07	164.15	518,000.00 *gal*
Application event totals		36.29	4.86	29.07	164.15	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.43	9,306,000.00 *gal*
Application event totals		0.00	0.00	0.00	12.43	

AR-7 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	92.62	12.39	74.19	418.93	1,322,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.54	8,646,000.00 *gal*
Application event totals		92.62	12.39	74.19	430.47	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.37	8,514,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.37	

AR-7 - 06/01/2023: Corn, silage

Field name: AR-7

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	218.67	82.67	360.00	10,324.54	1,000.00 *ton*
Application event totals		218.67	82.67	360.00	10,324.54	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	12.82	

AR-7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.76	0.95	4.83	34.88	888,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		17.76	0.95	4.83	47.70	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	12.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.76	0.95	4.83	34.88	888,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		17.76	0.95	4.83	47.70	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	12.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.76	0.95	4.83	34.88	888,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		17.76	0.95	4.83	47.70	

AR-7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		0.00	0.00	0.00	12.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	15.76	3.24	18.58	115.50	888,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	12.82	9,600,000.00 *gal*
Application event totals		15.76	3.24	18.58	128.32	

AR-8 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-8

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	184.00	57.33	366.67	3,672.39	500.00 *ton*
Application event totals		184.00	57.33	366.67	3,672.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	40.63	5.44	32.55	183.79	580,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		40.63	5.44	32.55	193.68	

AR-8 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	9.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	40.63	5.44	32.55	183.79	580,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		40.63	5.44	32.55	193.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.88	7,400,000.00 *gal*
Application event totals		0.00	0.00	0.00	9.88	

AR-8 - 06/01/2023: Corn, silage

Field name: AR-8

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	218.67	82.67	360.00	10,324.54	1,000.00 *ton*
Application event totals		218.67	82.67	360.00	10,324.54	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.21	

AR-8 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		17.00	0.91	4.62	43.60	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		17.00	0.91	4.62	43.60	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		17.00	0.91	4.62	43.60	

AR-8 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		0.00	0.00	0.00	10.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	15.09	3.10	17.79	110.56	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	10.21	7,650,000.00 *gal*
Application event totals		15.09	3.10	17.79	120.77	

AR-9 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-9

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/10/2022	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	184.00	57.33	366.67	3,672.39	500.00 *ton*
Application event totals		184.00	57.33	366.67	3,672.39	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	37.83	5.06	30.31	171.12	540,000.00 *gal*
Application event totals		37.83	5.06	30.31	171.12	

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.65	6,480,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.65	

AR-9 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	37.83	5.06	30.31	171.12	540,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	8.65	6,480,000.00 *gal*
Application event totals		37.83	5.06	30.31	179.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.65	6,480,000.00 *gal*
Application event totals		0.00	0.00	0.00	8.65	

AR-9 - 06/01/2023: Corn, silage

Field name: AR-9

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Plow/disc	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	218.67	82.67	360.00	10,324.54	1,000.00 *ton*
Application event totals		218.67	82.67	360.00	10,324.54	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.02	

AR-9 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		17.00	0.91	4.62	44.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		17.00	0.91	4.62	44.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		17.00	0.91	4.62	44.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		17.00	0.91	4.62	44.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	17.00	0.91	4.62	33.39	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		17.00	0.91	4.62	44.40	

AR-9 - 06/01/2023: Corn, silage

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

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		0.00	0.00	0.00	11.02	

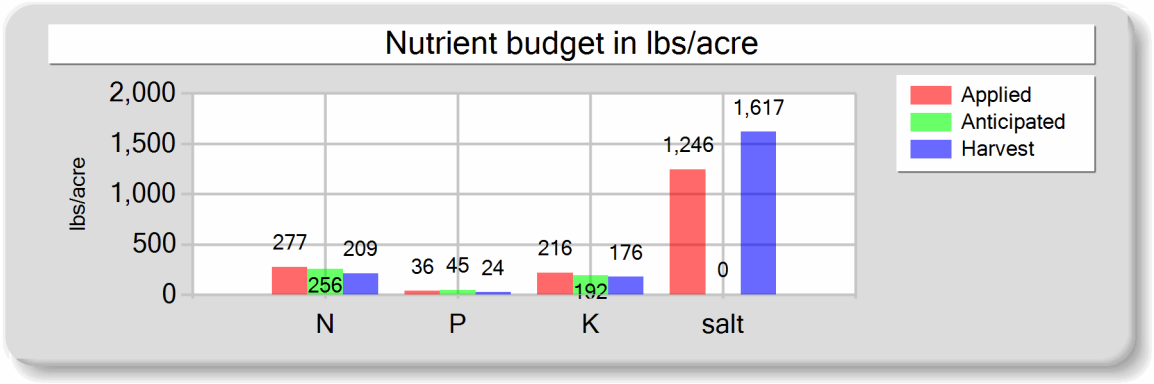
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	15.09	3.10	17.79	110.56	850,000.00 *gal*
Canal	Surface water	0.00	0.00	0.00	11.02	8,250,000.00 *gal*
Application event totals		15.09	3.10	17.79	121.58	

B. NUTRIENT BUDGET

AR-2 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-2 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	269.95	36.12	216.26	1,221.07
Fresh water	0.00	0.00	0.00	25.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	276.95	36.12	216.26	1,246.13
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	208.92	23.59	176.34	1,617.41
Nutrient balance	68.04	12.53	39.91	-371.27
Applied to removed ratio	1.33	1.53	1.23	0.77

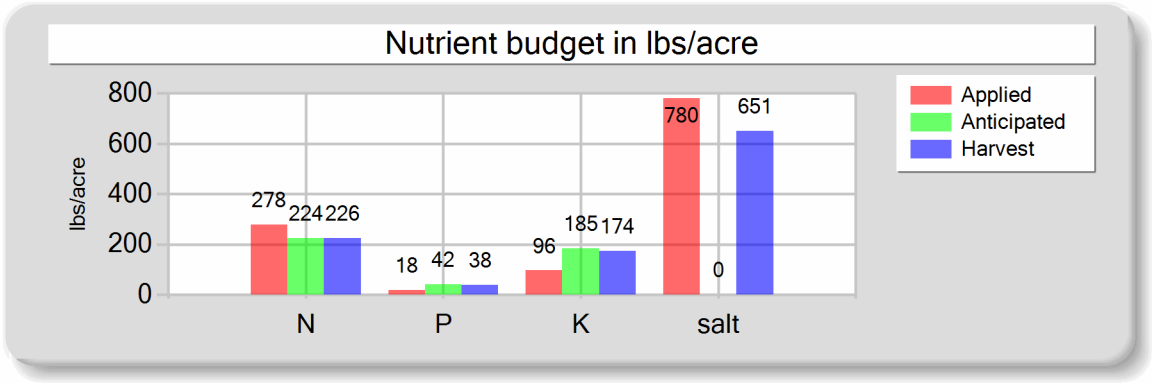
Fresh water applied	
11,262,000.00	*gallons*
414.74	*acre-inches*
9.22	*inches/acre*

Process wastewater applied	
2,312,000.00	*gallons*
85.14	*acre-inches*
1.89	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-2 - 06/01/2023: Corn, silage

Field name: AR-2 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	271.10	18.30	95.96	663.92
Fresh water	0.00	0.00	0.00	115.72
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.10	18.30	95.96	779.63
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	225.55	38.17	173.50	650.63
Nutrient balance	52.55	-19.87	-77.54	129.01
Applied to removed ratio	1.23	0.48	0.55	1.20

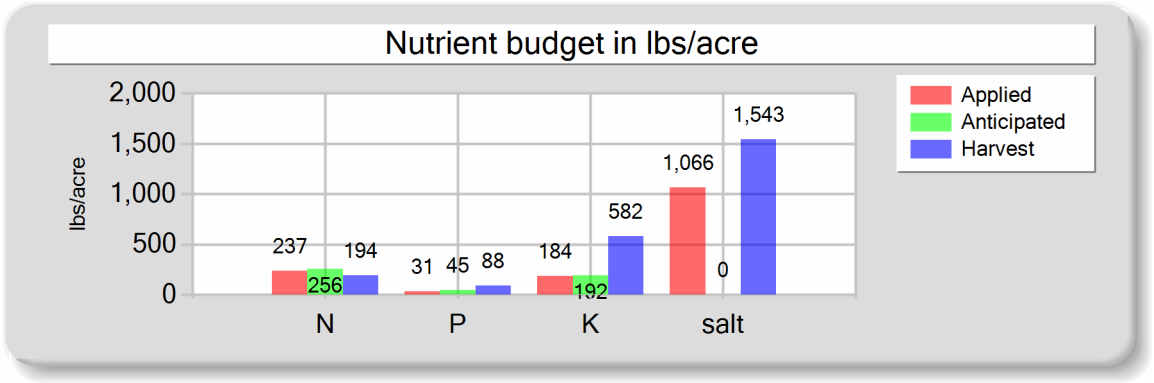
Fresh water applied	
52,000,000.00	*gallons*
1,914.98	*acre-inches*
42.56	*inches/acre*

Process wastewater applied	
8,228,000.00	*gallons*
303.01	*acre-inches*
6.73	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-5 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-5 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	229.87	30.76	184.15	1,039.79
Fresh water	0.00	0.00	0.00	26.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	236.87	30.76	184.15	1,066.32
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	194.32	87.94	581.54	1,543.22
Nutrient balance	42.55	-57.19	-397.39	-476.90
Applied to removed ratio	1.22	0.35	0.32	0.69

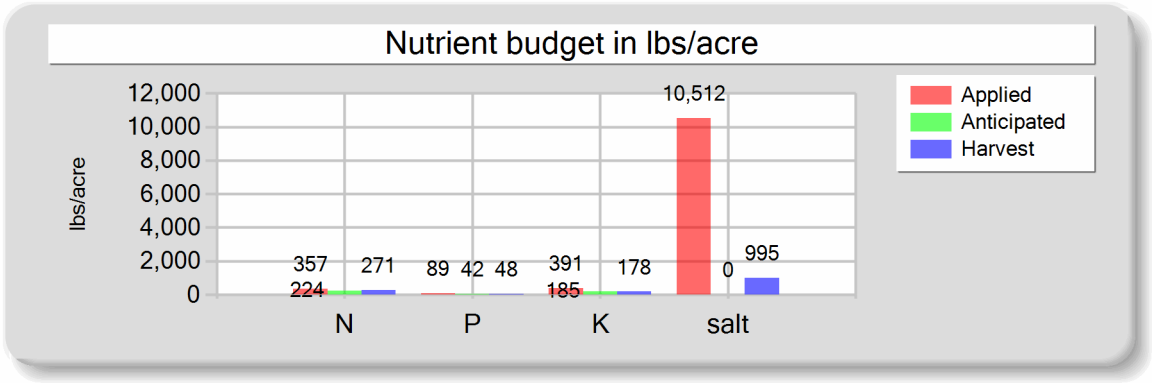
Fresh water applied	
10,599,000.00	*gallons*
390.33	*acre-inches*
9.76	*inches/acre*

Process wastewater applied	
1,750,000.00	*gallons*
64.45	*acre-inches*
1.61	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-5 - 06/01/2023: Corn, silage

Field name: AR-5 Crop: Corn, silage Plant date: 06/01/2023



	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	215.25	81.38	354.38	10,163.22
Process wastewater	134.96	7.26	36.71	265.12
Fresh water	0.00	0.00	0.00	84.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	357.21	88.63	391.09	10,512.45
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	270.83	48.30	177.68	995.33
Nutrient balance	86.39	40.33	213.41	9,517.13
Applied to removed ratio	1.32	1.83	2.20	10.56

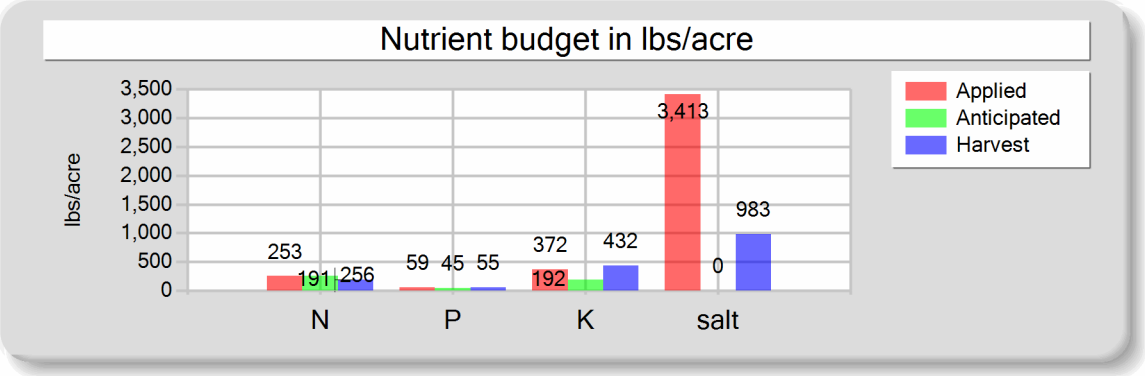
Fresh water applied	
33,600,000.00	*gallons*
1,237.37	*acre-inches*
30.93	*inches/acre*

Process wastewater applied	
3,600,000.00	*gallons*
132.58	*acre-inches*
3.31	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-6 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-6 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	147.20	45.87	293.33	2,937.91
Process wastewater	98.50	13.18	78.91	445.54
Fresh water	0.00	0.00	0.00	29.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.70	59.05	372.24	3,413.09
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	191.08	54.60	432.45	982.72
Nutrient balance	61.62	4.45	-60.21	2,430.38
Applied to removed ratio	1.32	1.08	0.86	3.47

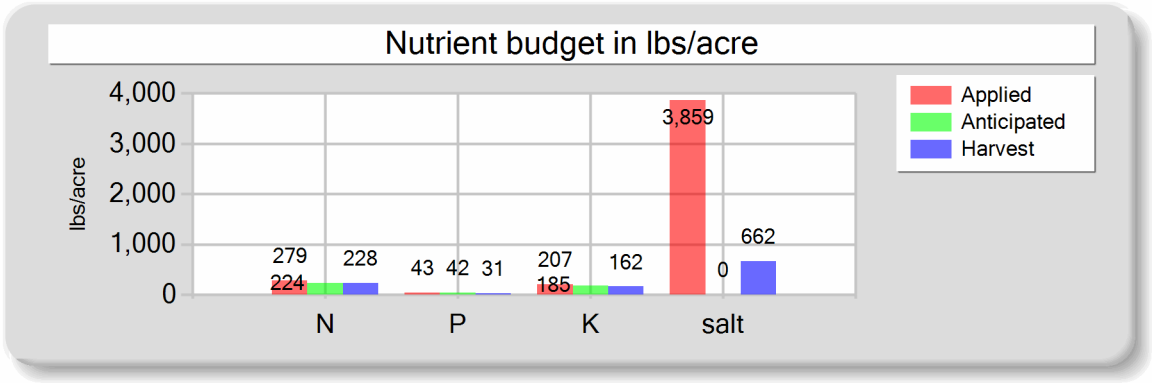
Fresh water applied	
22,200,000.00	*gallons*
817.55	*acre-inches*
10.90	*inches/acre*

Process wastewater applied	
1,406,000.00	*gallons*
51.78	*acre-inches*
0.69	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-6 - 06/01/2023: Corn, silage

Field name: AR-6 Crop: Corn, silage Plant date: 06/01/2023



	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	65.60	24.80	108.00	3,097.36
Process wastewater	206.00	18.23	98.69	656.94
Fresh water	0.00	0.00	0.00	104.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.60	43.03	206.69	3,858.98
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	228.47	30.69	161.98	661.54
Nutrient balance	50.13	12.34	44.72	3,197.44
Applied to removed ratio	1.22	1.40	1.28	5.83

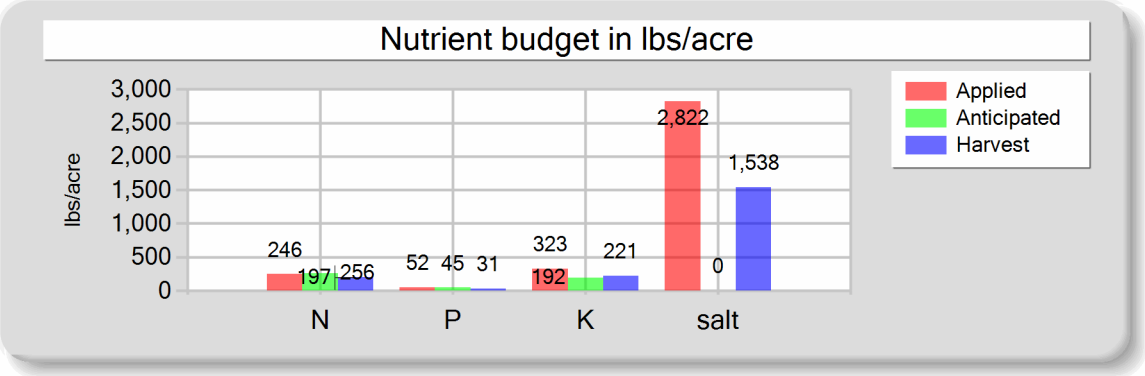
Fresh water applied	
78,400,000.00	*gallons*
2,887.21	*acre-inches*
38.50	*inches/acre*

Process wastewater applied	
10,600,000.00	*gallons*
390.36	*acre-inches*
5.20	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-7 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-7 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	110.40	34.40	220.00	2,203.43
Process wastewater	128.90	17.25	103.26	583.07
Fresh water	0.00	0.00	0.00	35.34
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	246.30	51.65	323.26	2,821.84
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	196.59	30.86	220.59	1,538.42
Nutrient balance	49.72	20.79	102.67	1,283.42
Applied to removed ratio	1.25	1.67	1.47	1.83

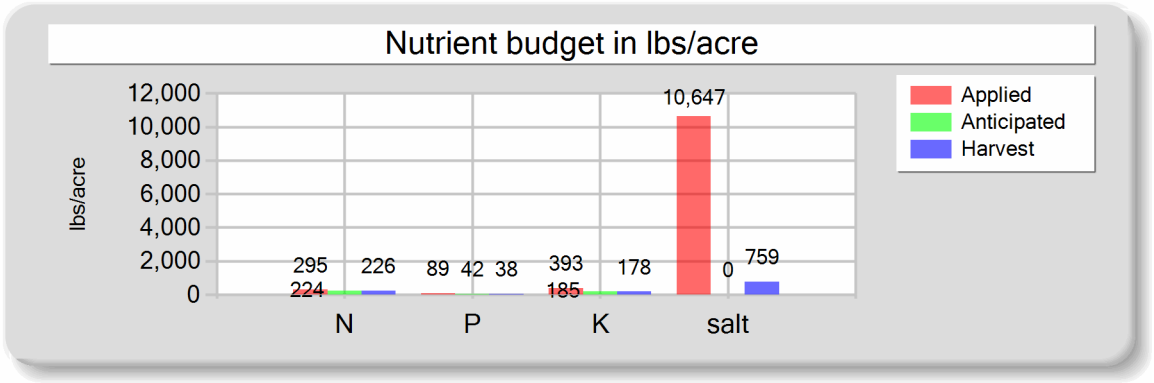
Fresh water applied	
26,466,000.00	*gallons*
974.65	*acre-inches*
13.00	*inches/acre*

Process wastewater applied	
1,840,000.00	*gallons*
67.76	*acre-inches*
0.90	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-7 - 06/01/2023: Corn, silage

Field name: AR-7 Crop: Corn, silage Plant date: 06/01/2023



	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	218.67	82.67	360.00	10,324.54
Process wastewater	69.03	6.11	33.07	220.14
Fresh water	0.00	0.00	0.00	102.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.70	88.77	393.07	10,647.22
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	226.45	38.03	178.05	758.87
Nutrient balance	68.24	50.74	215.02	9,888.34
Applied to removed ratio	1.30	2.33	2.21	14.03

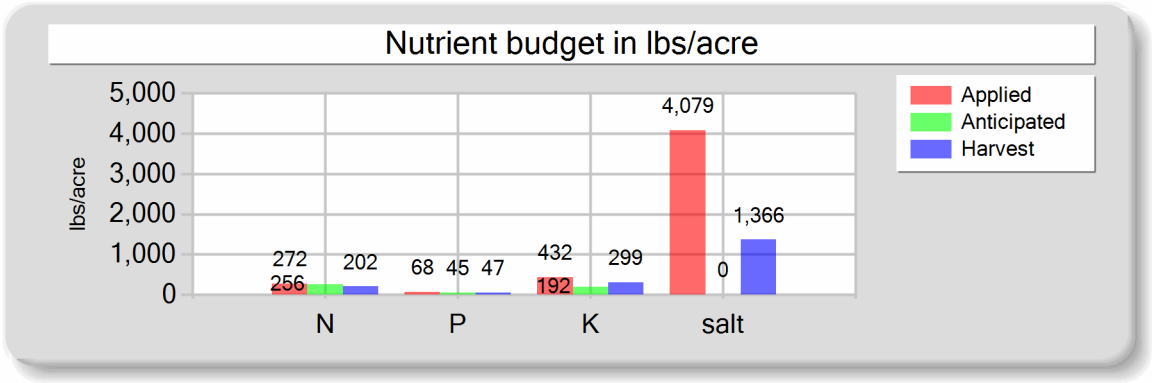
Fresh water applied	
76,800,000.00	*gallons*
2,828.28	*acre-inches*
37.71	*inches/acre*

Process wastewater applied	
3,552,000.00	*gallons*
130.81	*acre-inches*
1.74	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-8 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-8 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	184.00	57.33	366.67	3,672.39
Process wastewater	81.27	10.87	65.10	367.59
Fresh water	0.00	0.00	0.00	39.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.27	68.21	431.77	4,079.50
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	201.94	47.35	299.42	1,366.20
Nutrient balance	70.33	20.86	132.35	2,713.30
Applied to removed ratio	1.35	1.44	1.44	2.99

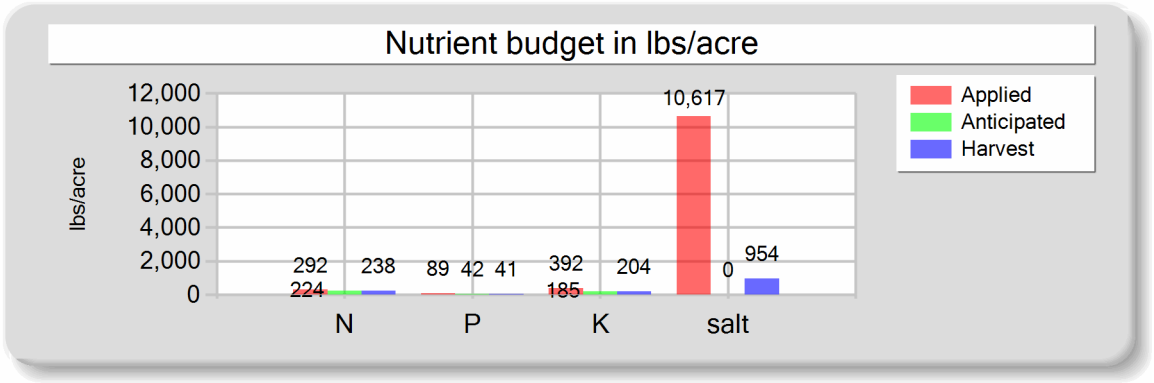
Fresh water applied	
29,600,000.00	*gallons*
1,090.07	*acre-inches*
14.53	*inches/acre*

Process wastewater applied	
1,160,000.00	*gallons*
42.72	*acre-inches*
0.57	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-8 - 06/01/2023: Corn, silage

Field name: AR-8 Crop: Corn, silage Plant date: 06/01/2023



	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	218.67	82.67	360.00	10,324.54
Process wastewater	66.08	5.85	31.66	210.72
Fresh water	0.00	0.00	0.00	81.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.74	88.51	391.66	10,616.97
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	238.12	41.11	203.86	954.19
Nutrient balance	53.62	47.40	187.80	9,662.78
Applied to removed ratio	1.23	2.15	1.92	11.13

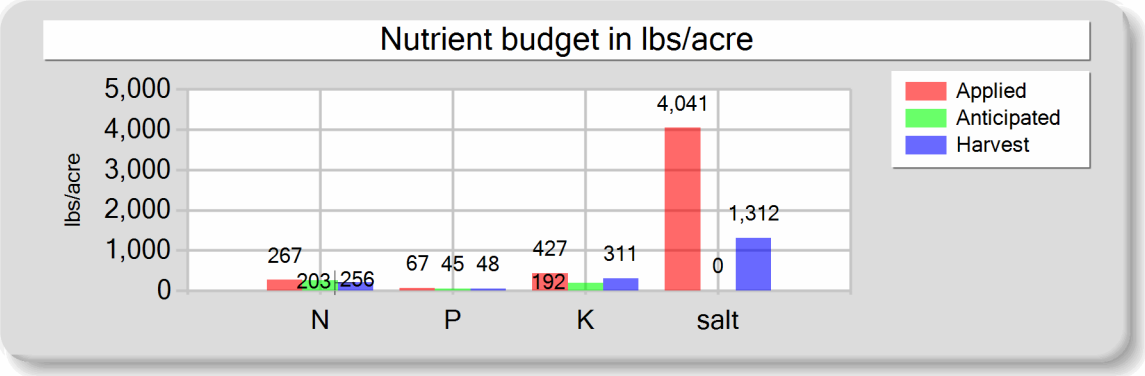
Fresh water applied	
61,200,000.00	*gallons*
2,253.79	*acre-inches*
30.05	*inches/acre*

Process wastewater applied	
3,400,000.00	*gallons*
125.21	*acre-inches*
1.67	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-9 - 11/01/2022: Wheat, silage, boot stage

Field name: AR-9 Crop: Wheat, silage, boot stage Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	184.00	57.33	366.67	3,672.39
Process wastewater	75.66	10.12	60.61	342.24
Fresh water	0.00	0.00	0.00	25.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	266.66	67.46	427.28	4,040.58
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	202.54	48.29	311.18	1,311.80
Nutrient balance	64.12	19.17	116.10	2,728.78
Applied to removed ratio	1.32	1.40	1.37	3.08

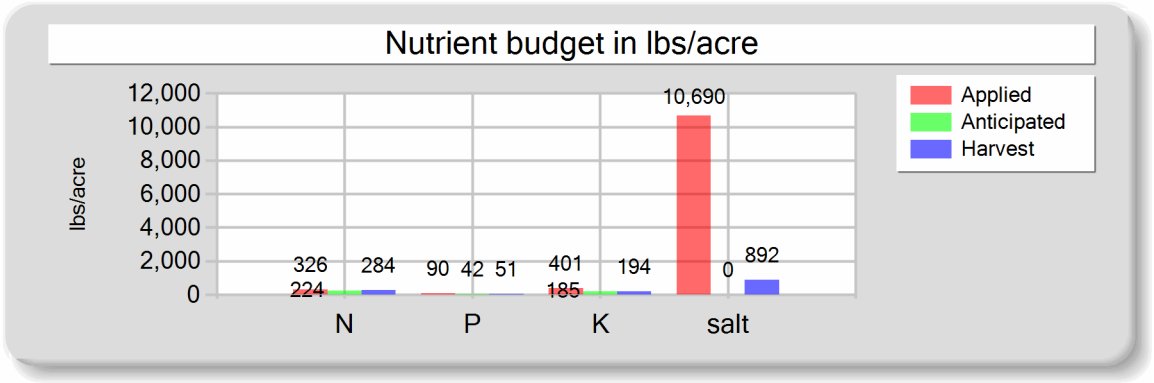
Fresh water applied	
19,440,000.00	*gallons*
715.91	*acre-inches*
9.55	*inches/acre*

Process wastewater applied	
1,080,000.00	*gallons*
39.77	*acre-inches*
0.53	*inches/acre*

Total harvests for the crop	
1	*harvests*

AR-9 - 06/01/2023: Corn, silage

Field name: AR-9 Crop: Corn, silage Plant date: 06/01/2023



	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	218.67	82.67	360.00	10,324.54
Process wastewater	100.07	7.67	40.90	277.49
Fresh water	0.00	0.00	0.00	88.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	325.73	90.34	400.90	10,690.15
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	283.76	50.80	194.43	891.56
Nutrient balance	41.98	39.54	206.48	9,798.59
Applied to removed ratio	1.15	1.78	2.06	11.99

Fresh water applied	
66,000,000.00	*gallons*
2,430.56	*acre-inches*
32.41	*inches/acre*

Process wastewater applied	
5,100,000.00	*gallons*
187.82	*acre-inches*
2.50	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Dry Manure

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 36.1 %

	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	8,200.00	3,100.00	13,500.00	8,200.00	5,300.00	5,200.00	2,300.00	699.10		60.59
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/16/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 27.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,800.00	4,300.00	27,500.00							37.73
DL	100.00	100.00	100.00							1.00

B. PROCESS WASTEWATER ANALYSES

1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.44

	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	629.63	165.32	0.00	0.00	84.24	504.39								4,450.00	2,848
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.42

	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	179.70	26.63	0.00	0.00	9.66	48.88	1.10	0.60	1.20	4.52	0.00	0.30	0.50	553.00	353
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.02	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.22

	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	159.54	108.98	0.00	0.00	32.83	188.07								1,828.00	1,169
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.42

	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	629.54	373.50	0.00	0.00	39.02	766.36								6,627.00	4,241
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Canal

Canal

Canal

Sample description: Canal

Sample date: 08/17/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										20.00	
DL	0.10										1.00	

WAr-14 Dom

War-14 Dom

Sample description: War-14 Dom

Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.50										1,130.00	
DL	0.10										10.00	

War-6 Dom

War-6 Dom

Sample description: War-6 Dom

Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.50										1,160.00	
DL	0.10										10.00	

War-7 Dom

War-7 Dom

War-8 Dom

Sample description: War-8 Dom

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.30										653.00	
DL	0.10										10.00	

War-7 Dom

Sample description: War-7 Dom

Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.30										660.00	
DL	0.10										10.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

AR-2 - 11/01/2022: Wheat, silage, boot stage

AR-2

Sample and source description: AR-2

Sample date: 06/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,600.00	2,100.00	15,700.00		14.40
DL	100.00	100.00	100.00		1.00

AR-2 - 06/01/2023: Corn, silage

AR-2

Sample and source description: AR-2

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

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	2,200.00	10,000.00		3.75
DL	100.00	100.00	100.00		1.00

AR-5 - 11/01/2022: Wheat, silage, boot stage

AR-5

Sample and source description: AR-5

Sample date: 06/16/2023 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	13,700.00	6,200.00	41,000.00		10.88
DL	100.00	100.00	100.00		1.00

AR-5 - 06/01/2023: Corn, silage

AR-5

Sample and source description: AR-5

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

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,800.00	10,300.00		5.77
DL	100.00	100.00	100.00		1.00

AR-6 - 11/01/2022: Wheat, silage, boot stage

AR-6

Sample and source description: AR-6

Sample date: 06/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	3,800.00	30,100.00		6.84
DL	100.00	100.00	100.00		1.00

AR-6 - 06/01/2023: Corn, silage

AR-6

Sample and source description: AR-6

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

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	1,800.00	9,500.00		3.88
DL	100.00	100.00	100.00		1.00

AR-7 - 11/01/2022: Wheat, silage, boot stage

AR-7

Sample and source description: AR-7

Sample date: 06/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,200.00	2,700.00	19,300.00		13.46
DL	100.00	100.00	100.00		1.00

AR-7 - 06/01/2023: Corn, silage

AR-7

Sample and source description: AR-7

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

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	2,200.00	10,300.00		4.39
DL	100.00	100.00	100.00		1.00

AR-8 - 11/01/2022: Wheat, silage, boot stage

AR-8

Sample and source description: AR-8

Sample date: 06/16/2023 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	14,500.00	3,400.00	21,500.00		9.81
DL	100.00	100.00	100.00		1.00

AR-8 - 06/01/2023: Corn, silage

AR-8

Sample and source description: AR-8

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

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,900.00	2,400.00	11,900.00		5.57
DL	100.00	100.00	100.00		1.00

AR-9 - 11/01/2022: Wheat, silage, boot stage

AR-9

Sample and source description: AR-9

Sample date: 06/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	3,600.00	23,200.00		9.78
DL	100.00	100.00	100.00		1.00

AR-9 - 06/01/2023: Corn, silage

AR-9

Sample and source description: AR-9

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

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,200.00	2,900.00	11,100.00		5.09
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

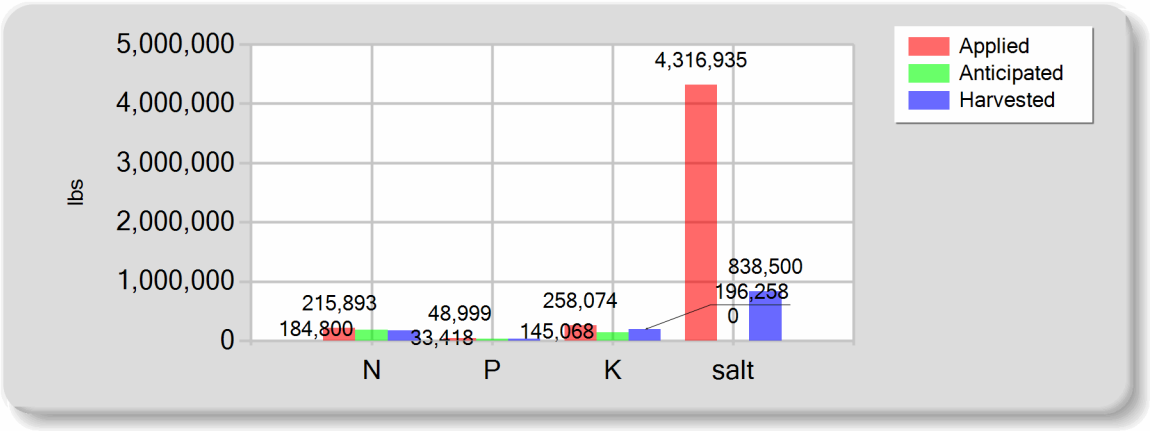
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

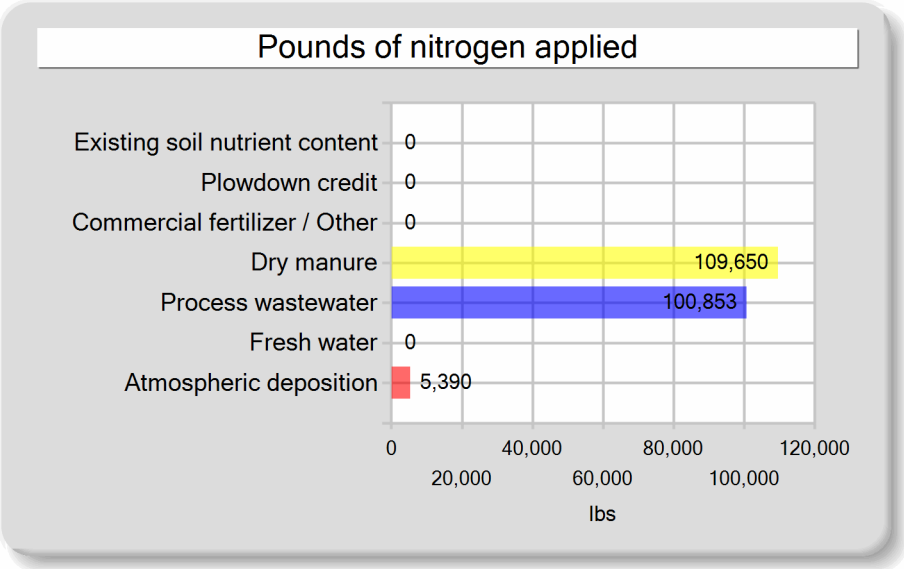
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

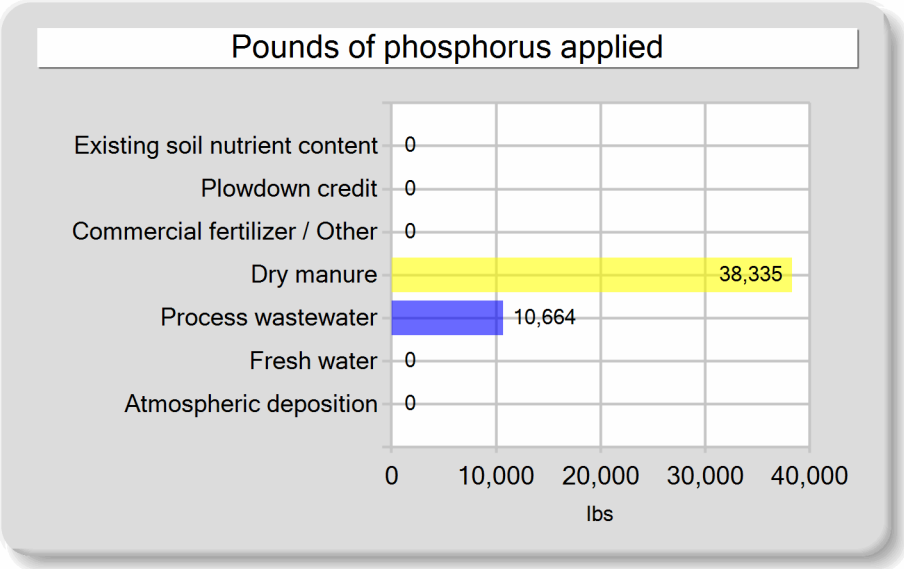
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	109,650.00	38,335.00	196,775.00	3,898,309.87
Process wastewater	100,853.27	10,664.49	61,299.24	369,800.33
Fresh water	0.00	0.00	0.00	48,824.96
Atmospheric deposition	5,390.00	0.00	0.00	0.00
Total nutrients applied	215,893.27	48,999.49	258,074.24	4,316,935.15
Anticipated crop nutrient removal	184,800.00	33,418.00	145,068.00	0.00
Actual crop nutrient removal	170,827.52	33,857.92	196,258.44	838,500.46
Nutrient balance	45,065.75	15,141.57	61,815.80	3,478,434.70
Applied to removed ratio	1.26	1.45	1.31	5.15

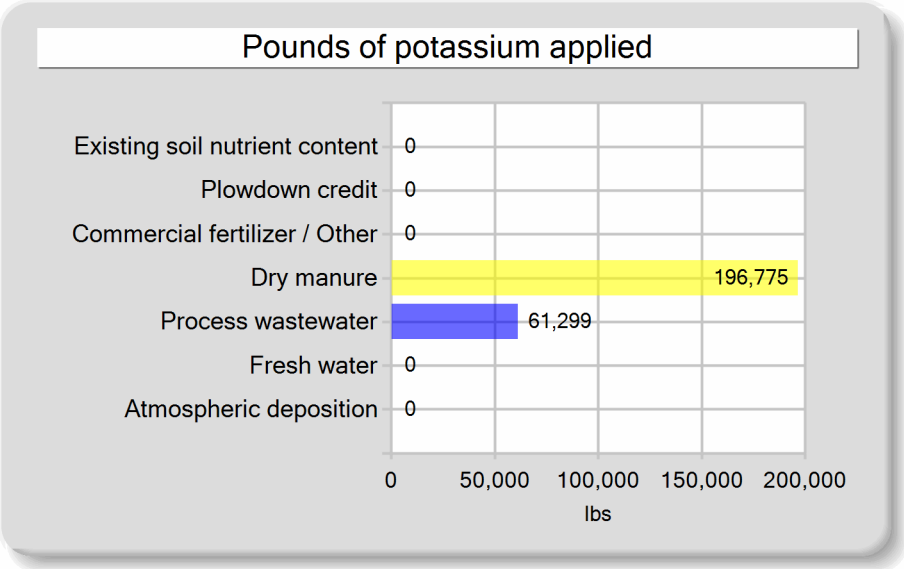
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

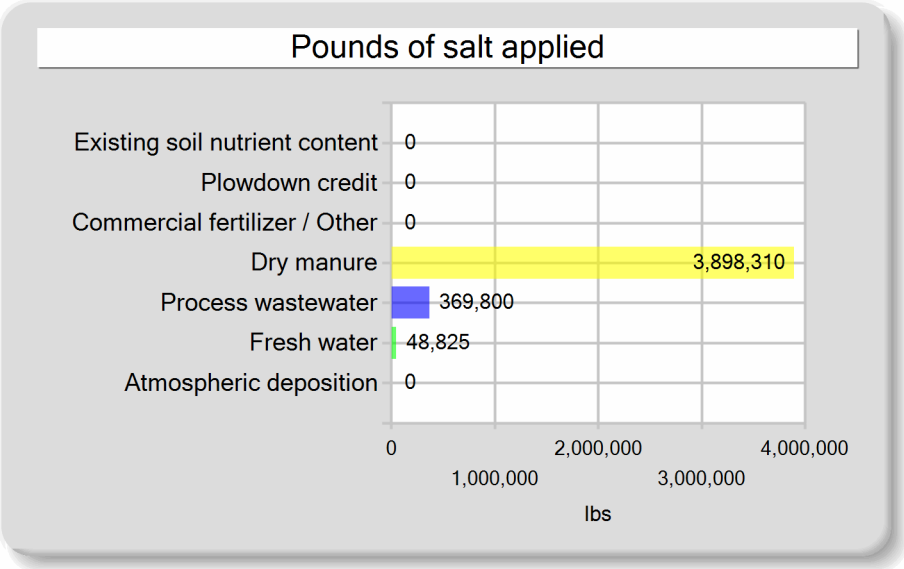


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

B. EXPORT AGREEMENT STATEMENT

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

ADDITIONAL NOTES

A. NOTES

All wells tested negative for Ammonia with an onsite test strip.

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

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
Anthony Brazil	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
Andrew Brazil 7-1-24	Andrew Brazil 7-1-24
DATE	DATE

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
13266 7th Ave
Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0694-01	War-6 Dom	Ag Water	Medeiros		12/12/2023 10:10
23L0694-02	War-7 Dom	Ag Water	Medeiros		12/12/2023 10:15
23L0694-03	War-8 Dom	Ag Water	Medeiros		12/12/2023 10:20
23L0694-04	War-14 Dom	Ag Water	Medeiros		12/12/2023 10:25

Default Cooler Temperature on Receipt °C: 19.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
13266 7th Ave
Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Sample Results

Sample: War-6 Dom
23L0694-01 (Water)

Sampled: 12/12/2023 10:10
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.16**	mmhos/cm	0.01	1		12/13/23 17:04	SM 2510 B		BEL0497
Electrical Conductivity umhos	**1160**	umhos/cm	10.0	1		12/13/23 17:04	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:10	Field		BEL0526
Nitrate Nitrogen as NO3N	**0.5**	mg/L	0.1	1	10	12/14/23 05:24	EPA 300.0		BEL0446
Temperature	**25.0**	units	0.0	1		12/13/23 17:04	SM 4500-H+	H	BEL0497
pH	**7.7**	units	1.0	1		12/13/23 17:04	SM 4500-H+	H	BEL0497

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
13266 7th Ave
Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Sample Results
(Continued)

Sample: War-7 Dom
23L0694-02 (Water)

Sampled: 12/12/2023 10:15
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.66**	mmhos/cm	0.01	1		12/13/23 17:05	SM 2510 B		BEL0497
Electrical Conductivity umhos	**660**	umhos/cm	10.0	1		12/13/23 17:05	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:15	Field		BEL0526
Nitrate Nitrogen as NO3N	**1.3**	mg/L	0.1	1	10	12/14/23 05:43	EPA 300.0		BEL0446
Temperature	**25.0**	units	0.0	1		12/13/23 17:05	SM 4500-H+	H	BEL0497
pH	**8.3**	units	1.0	1		12/13/23 17:05	SM 4500-H+	H	BEL0497

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Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Sample Results
(Continued)

Sample: War-8 Dom
23L0694-03 (Water)

Sampled: 12/12/2023 10:20
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.65**	mmhos/cm	0.01	1		12/13/23 17:06	SM 2510 B		BEL0497
Electrical Conductivity umhos	**653**	umhos/cm	10.0	1		12/13/23 17:06	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:20	Field		BEL0526
Nitrate Nitrogen as NO3N	**1.3**	mg/L	0.1	1	10	12/14/23 06:03	EPA 300.0		BEL0446
Temperature	**25.0**	units	0.0	1		12/13/23 17:06	SM 4500-H+	H	BEL0497
pH	**8.3**	units	1.0	1		12/13/23 17:06	SM 4500-H+	H	BEL0497

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Account# 00-0025796
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Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Sample Results
(Continued)

Sample: War-14 Dom
23L0694-04 (Water)

Sampled: 12/12/2023 10:25
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.13**	mmhos/cm	0.01	1		12/13/23 17:08	SM 2510 B		BEL0497
Electrical Conductivity umhos	**1130**	umhos/cm	10.0	1		12/13/23 17:08	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:25	Field		BEL0526
Nitrate Nitrogen as NO3N	**0.5**	mg/L	0.1	1	10	12/14/23 06:23	EPA 300.0		BEL0446
Temperature	**25.0**	units	0.0	1		12/13/23 17:08	SM 4500-H+	H	BEL0497
pH	**7.8**	units	1.0	1		12/13/23 17:08	SM 4500-H+	H	BEL0497

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
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Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:37

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0446										
Blank (BEL0446-BLK1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0446-BLK2)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0446-BLK3)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0446-BLK4)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0446-BLK5)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0446-BS1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.9	90-110		
LCS (BEL0446-BS2)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.9	90-110		
LCS (BEL0446-BS3)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.7	90-110		
LCS (BEL0446-BS4)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.9	90-110		
Duplicate (BEL0446-DUP1)		**Source: 23L0776-07**			Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	7.7		0.1	mg/L		7.6			1.53	10
Duplicate (BEL0446-DUP2)		**Source: 23L0778-01**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.6		0.1	mg/L		0.5			1.99	10
Duplicate (BEL0446-DUP3)		**Source: 23L0691-01**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.02		0.1	mg/L		0.02				10
Duplicate (BEL0446-DUP4)		**Source: 23L0774-09**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.03			5.71	10
Matrix Spike (BEL0446-MS1)		**Source: 23L0776-07**			Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	12.7		0.1	mg/L	5.000	7.6	102	90-110		
Matrix Spike (BEL0446-MS2)		**Source: 23L0778-01**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000	0.5	95.6	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: BEL0446 (Continued)										
Matrix Spike (BEL0446-MS3)		**Source: 23L0691-01**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	0.02	96.5	90-110		
Matrix Spike (BEL0446-MS4)		**Source: 23L0774-09**			Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	0.03	95.8	90-110		
Reference (BEL0446-SRM1)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		96.9	90-110		
Reference (BEL0446-SRM2)					Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM3)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		96.5	90-110		
Reference (BEL0446-SRM4)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.1	90-110		
Reference (BEL0446-SRM5)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		95.6	90-110		

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LABORATORY INC

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Reported: 12/20/2023 12:37

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0497										
Blank (BEL0497-BLK1)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.5		1.0	units						
Blank (BEL0497-BLK2)					Prepared & Analyzed: 12/13/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.7		1.0	units						
Blank (BEL0497-BLK3)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	7.2		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEL0497-DUP1)		**Source: 23L0694-04**			Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1.14		0.01	mmhos/cm		1.13			0.986	10
pH	7.8		1.0	units		7.8			0.129	10
Electrical Conductivity umhos	1140		10.0	umhos/cm		1130			0.986	10
Duplicate (BEL0497-DUP2)		**Source: 23L0704-01**			Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1.94		0.01	mmhos/cm		1.91			1.40	10
pH	7.3		1.0	units		7.4			0.815	10
Electrical Conductivity umhos	1940		10.0	umhos/cm		1910			1.40	10
Reference (BEL0497-SRM1)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	456			umhos/cm	426.0		107	90-110		
Reference (BEL0497-SRM2)					Prepared & Analyzed: 12/13/2023					
pH	7.5			units	7.520		100	67021-101.3		
Reference (BEL0497-SRM3)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090			umhos/cm	1000		109	90-110		
Electrical Conductivity umhos	1090			umhos/cm	1000		109	90-110		
Reference (BEL0497-SRM4)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090			umhos/cm	1000		109	90-110		
Electrical Conductivity umhos	1090			umhos/cm	1000		109	90-110		
Reference (BEL0497-SRM5)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	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: BEL0497 (Continued)										
Reference (BEL0497-SRM5)					Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0497-SRM6)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEL0497-SRM7)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0497-SRM8)					Prepared & Analyzed: 12/13/2023					
pH	4.0			units	4.000		100	97.5-102.5		

12/13/23 07:00 23L0694

WATER WORK REQUEST

Acct No. 25796 Cons. 8

Bill To:

Purchase Order No. Results Needed By

Client: Anthony and Robert Brazil
Address: 13266 7th Ave
City, State, Zip: Hanford CA 93230
Email: Andrew_brazil1985@outlook.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility:

Date sampled

Sampled by Medeiros

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6127 • 800 228-9896 • Fax 559 268-8174

No. of Samples 4 No. Bottles 4

Water Type:
☑ Ag Water ☐ Drinking ☐ Wastewater
☐ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other

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

☑ EC, NO_3-N
(1) 1 L plastic, unpreserved (white)

☐ 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

H/F

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. WBR-6 Dam	Sampled From:	12/12/23	1010	0	19.8 / 0.1
2. WBR-7 Dam	Sampled From:		1015	0	14.7 / -0.9
3. WBR-8 Dam	Sampled From:		1020	0	15.2 / -0.4
4. WBR-14 Dam-Trc	Sampled From:		1025	0	19.3 / 1.3
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

IR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				12/12/23 11:32 AM
Second		DL	12/12/23 11:32 AM	
Third				
Fourth		DL	12/13 07:00	

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:
Medeiros Pricing 2023
Sampling Hrs ___ Miles ___ Consulting ___

Shipping
$ ___ In
$ ___ Out

Amt Paid Rec By Check No. Date

Signature

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

ctt:update 2020

12/13/23 07:00 23L0694

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

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

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

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

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1	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:										

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
13266 7th Ave
Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:41
Reported: 08/23/2023 14:20

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1582-01	Canal	Ag Water			08/16/2023 15:50

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

Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
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Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:41
Reported: 08/23/2023 14:20

Sample Results

Sample: Canal
23H1582-01 (Water)

Sampled: 8/16/2023 15:50
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.02**	mmhos/cm	0.01	1		08/18/23 17:12	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 21:12	EPA 300.0		BEH0886

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
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Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:41
Reported: 08/23/2023 14:20

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0886										
Blank (BEH0886-BLK1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0886-BLK2)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0886-BLK3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0886-BS1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.8	90-110		
LCS (BEH0886-BS2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		98.4	90-110		
Duplicate (BEH0886-DUP1)		**Source: 23H0170-01**			Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2		0.1	mg/L		0.2			0.475	10
Duplicate (BEH0886-DUP2)		**Source: 23H1556-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8		0.1	mg/L		5.8			0.172	10
Matrix Spike (BEH0886-MS1)		**Source: 23H0170-01**			Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000	0.2	99.6	90-110		
Matrix Spike (BEH0886-MS2)		**Source: 23H1556-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8		0.1	mg/L	5.000	5.8	98.9	90-110		
Reference (BEH0886-SRM1)					Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.8	90-110		
Reference (BEH0886-SRM2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		
Reference (BEH0886-SRM3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		

DELLAVALLE™
LABORATORY INC

Anthony and Robert Brazil
13266 7th Ave
Hanford, CA 93230

Account# 00-0025796
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:41
Reported: 08/23/2023 14:20

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0918										
Blank (BEH0918-BLK1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0918-BLK2)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Blank (BEH0918-BLK3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Duplicate (BEH0918-DUP1)		**Source: 23H1497-03**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			9.30	10
Duplicate (BEH0918-DUP2)		**Source: 23H1590-01**			Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	0.02		0.01	mmhos/cm		0.02			0.00	10
Reference (BEH0918-SRM1)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	511			umhos/cm	538.0		94.9	90-110		
Reference (BEH0918-SRM3)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	956			umhos/cm	1000		95.6	90-110		
Reference (BEH0918-SRM4)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	956			umhos/cm	1000		95.6	90-110		
Reference (BEH0918-SRM5)					Prepared: 8/17/2023 Analyzed: 8/18/2023					
Electrical Conductivity	971			umhos/cm	1000		97.1	90-110		

08/17/23 08:41 23H1582

EDS

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6126 • 800 228-9896 • Fax 559 268-8174

WATER WORK REQUEST

Acct No. / Cons.

Bill To: 25796 / 8

No. of Samples ____ No. Bottles ____

Water Type: ☒ Ag Water ☐ Supply Water ☐ Drinking ☐ Ground Water ☐ Other ☐ Wastewater ☐ Mon. Well

Purchase Order No. ____ Results Needed By ____

Client: **Anthony and Robert Brazil**
Address: 13266 7th Ave
City, State, Zip: Hanford CA 93230
Email: Andrew_brazil1985@outlook.com

Copy to: mel_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility: ____

Date sampled ____

Sampled by ____

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

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

- ☑ EC, NO_3-N
  (1) 1 L plastic, unpreserved (white)
- ☐ 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:	8/16/23	3:30pm		0.4
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:				

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		Melton		8/16/23
Second		DLI	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:41	
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:
Medeiros Pricing 2023
Sampling Hrs ____ Miles ____ Consulting ____

Shipping
$ ____ In
$ ____ Out

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

Signature ____

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

ctt:update 2020

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

08/17/23 08:41 23H1582

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)										
	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:										