

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: Mattos Bros. Dairy

Physical address of dairy:

4017 Kansas AVE Number and Street	Hanford City	Kings County	93230 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 03/01/1994

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X028-X019-X035-XXXX X028-X019-X037-XXXX X028-X019-X039-XXXX X028-X019-X079-XXXX X028-X027-X047-XXXX

B. OPERATORS

Mattos, Joe or Fernando

Operator name: <u>Mattos, Joe or Fernando</u>	Telephone no.: <u>(559) 799-8405</u>	<u>(559) 280-6648</u>	
	<u>Landline</u>	<u>Cellular</u>	
4017 Kansas AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Mattos, Joe or Fernando

Legal owner name: <u>Mattos, Joe or Fernando</u>	Telephone no.: <u>(559) 799-8405</u>	<u>(559) 280-6648</u>	
	<u>Landline</u>	<u>Cellular</u>	
4017 Kansas AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	300	900	400	350	0
Number under roof	2,100	0	0	0	0	0
Maximum number	2,100	300	900	400	350	0
Average number	2,100	300	900	400	350	0
Avg live weight (lbs)	1,400	1,450	1,000	850		

Predominant milk cow breed: Holstein

Average milk production: 85 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 76,576.90 tons per reporting period

Total nitrogen from manure: 948,638.70 lbs per reporting period

After ammonia losses (30% loss applied): 664,047.09 lbs per reporting period

Total phosphorus from manure: 157,490.74 lbs per reporting period

Total potassium from manure: 422,864.88 lbs per reporting period

Total salt from manure: 1,057,770.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 18,070,500 gallons

Total nitrogen generated: 94,172.90 lbs

Total phosphorus generated: 13,456.15 lbs

Total potassium generated: 159,264.58 lbs

Total salt generated: 1,091,638.78 lbs

<u>18,070,500 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>18,070,500 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
P-1	Ground water
P-2	Ground water
P-3	Ground water
P-4	Ground water

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Source Description	Type
P-5	Ground water
P-H-3	Ground water
P-H-4	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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	Separator solids	1,920.00 ton	Dry-weight	87.4		18,600.00	6,300.00	7,700.00		1.00
05/10/2023	Corral solids	3,100.00 ton	Dry-weight	80.6		21,100.00	7,400.00	7,900.00		1.00
05/12/2023	Separator solids	131.00 ton	Dry-weight	87.4		18,600.00	6,300.00	7,700.00		1.00
05/15/2023	Corral solids	96.00 ton	Dry-weight	35.9		7,900.00	4,200.00	10,900.00		1.00
09/26/2023	Corral solids	450.00 ton	Dry-weight	80.6		21,100.00	7,400.00	7,900.00		1.00
10/10/2023	Corral solids	780.00 ton	Dry-weight	80.6		21,100.00	7,400.00	7,900.00		1.00
11/21/2023	Corral solids	940.00 ton	Dry-weight	80.6		21,100.00	7,400.00	7,900.00		1.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	53,730.15	18,904.29	21,474.85	26,846.84
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	53,730.15	18,904.29	21,474.85	26,846.84

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APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1H	78	78	2	both	X028-X019-X079-XXXX
1-HP	75	75	1	none	X028-X019-X035-XXXX
2-H	76	76	1	none	X028-X019-X079-XXXX
2-HP	38	38	2	both	X028-X019-X035-XXXX
3-H	87	87	1	none	X028-X019-X079-XXXX
3-HP	50	50	2	both	X028-X019-X035-XXXX
4-H	87	87	2	both	X028-X019-X079-XXXX
5-H	100	100	3	both	X028-X019-X039-XXXX
6-H	88	88	2	both	X028-X019-X037-XXXX
7-H	27	27	2	both	X028-X027-X047-XXXX
Totals for areas that were used for application	468	468	15		
Totals for areas that were not used for application	238	238	3		
Land application area totals	706	706	18		

B. CROPS AND HARVESTS

1H

Field name: 1H

11/20/2018: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 78 Plant date: 11/20/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/31/2023	421.00 ton	Dry-weight		15.7	34,300.00	2,900.00	24,100.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	5.40	312.13	26.39	219.31	900.91

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1H

05/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	2,137.00 <i>ton</i>	Dry-weight		68.2	14,700.00	1,100.00	5,900.00		5.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.40	256.14	19.17	102.81	1,019.35

1-HPField name: 1-HP

11/10/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 75 Plant date: 11/10/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	560.00 <i>ton</i>	Dry-weight		14.8	26,700.00	2,800.00	22,600.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.47	339.71	35.62	287.54	1,157.81

2-HField name: 2-H

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2-H

10/15/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 76 Plant date: 10/15/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	603.00 ton	Dry-weight		72.9	34,600.00	3,500.00	28,900.00		13.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	7.93	148.79	15.05	124.28	559.04

2-HP

Field name: 2-HP

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

Crop: Wheat, silage, soft dough Acres planted: 38 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	693.00 ton	Dry-weight		61.8	15,400.00	3,500.00	19,200.00		7.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	18.24	214.57	48.77	267.51	1,000.39

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	1,132.00 ton	Dry-weight		70.3	8,600.00	2,500.00	11,800.00		5.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.79	152.18	44.24	208.80	937.83

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3-HField name: 3-H

11/01/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 87 Plant date: 11/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	697.00 ton	Dry-weight		72.4	31,400.00	3,200.00	29,700.00		12.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.01	138.86	14.15	131.34	539.53

3-HPField name: 3-HP

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

Crop: Wheat, silage, soft dough Acres planted: 50 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 (%)
05/07/2023	1,189.00 ton	Dry-weight		61.4	15,500.00	3,300.00	17,900.00		6.78

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.78	284.55	60.58	328.61	1,244.68

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,791.00 ton	Dry-weight		67.0	13,500.00	2,800.00	14,100.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	35.82	319.16	66.20	333.34	1,394.83

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4-HField name: 4-H

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

Crop: Wheat, silage, soft dough Acres planted: 87 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 (%)
05/10/2023	1,514.00 ton	Dry-weight		73.6	14,000.00	3,100.00	23,500.00		8.99

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.40	128.64	28.48	215.93	826.04

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 87 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	2,340.00 ton	Dry-weight		68.8	11,800.00	2,800.00	13,500.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	26.90	198.04	46.99	226.58	1,007.01

5-HField name: 5-H

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

Crop: Wheat, silage, soft dough Acres planted: 100 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,640.00 ton	Dry-weight		66.9	13,700.00	3,000.00	23,200.00		8.79

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	16.40	148.74	32.57	251.88	954.31

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5-H

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 100 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	2,740.00 <i>ton</i>	Dry-weight		69.8	13,100.00	2,500.00	5,500.00		4.93
09/30/2023	2,840.00 <i>ton</i>	Dry-weight		69.8	13,100.00	2,500.00	5,500.00		4.93
Anticipated harvest content		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Total actual harvest content		30.00				240.00	45.00	198.00	0.00
		55.80				441.51	84.26	185.37	1,661.57

6-HField name: 6-H

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

Crop: Wheat, silage, soft dough Acres planted: 88 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,449.00 <i>ton</i>	Dry-weight		68.7	16,200.00	3,500.00	31,800.00		8.90
Anticipated harvest content		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Total actual harvest content		18.00				198.00	30.60	149.40	0.00
		16.47				166.98	36.08	327.78	917.38

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 88 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/21/2023	2,473.00 <i>ton</i>	Dry-weight		68.3	11,500.00	2,900.00	11,500.00		5.64
Anticipated harvest content		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Total actual harvest content		30.00				240.00	45.00	198.00	0.00
		28.10				204.89	51.67	204.89	1,004.87

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7-H

Field name: 7-H

10/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 27 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	470.00 ton	Dry-weight		73.1	14,900.00	3,500.00	29,700.00		8.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	17.41	139.54	32.78	278.15	804.47

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 27 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 (%)
09/30/2023	740.00 ton	Dry-weight		65.6	12,400.00	2,600.00	5,900.00		4.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.41	233.82	49.03	111.25	893.79

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

1H - 11/20/2018: Alfalfa, hay

Field name: 1H

Crop: Alfalfa, hay

Plant date: 11/20/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/31/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	0.00	1.00 gal
Application event totals		0.00	0.00	0.00	0.00	

1H - 05/18/2023: Corn, silage

Field name: 1H

Crop: Corn, silage

Plant date: 05/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/03/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	74.68	8.77	110.13	731.33	903,000.00 gal
Canal	Surface water	0.25	0.00	0.00	41.40	7,740,000.00 gal
Application event totals		74.93	8.77	110.13	772.74	
05/02/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	98.24	34.45	36.78	46.56	936.00 ton
Application event totals		98.24	34.45	36.78	46.56	
05/25/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.33	0.00	0.00	54.40	10,170,000.00 gal
Application event totals		0.33	0.00	0.00	54.40	

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1H - 05/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-1	Ground water	29.32	0.00	0.00	0.63	5,856,000.00 gal
P-2	Ground water	21.57	0.00	0.00	0.70	6,588,000.00 gal
Application event totals		50.89	0.00	0.00	1.33	
06/26/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	49.59	7.92	77.25	651.51	850,500.00 gal
Canal	Surface water	0.23	0.00	0.00	39.00	7,290,000.00 gal
Application event totals		49.82	7.92	77.25	690.50	
07/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-1	Ground water	40.86	0.00	0.00	0.87	8,160,000.00 gal
P-2	Ground water	21.57	0.00	0.00	0.70	6,588,000.00 gal
Application event totals		62.42	0.00	0.00	1.58	

1-HP - 11/10/2021: Alfalfa, hay

Field name: 1-HP

Crop: Alfalfa, hay

Plant date: 11/10/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	39.25	7,056,000.00 gal
Application event totals		0.24	0.00	0.00	39.25	

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1-HP - 11/10/2021: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	40.86	7,344,000.00 gal
Application event totals		0.25	0.00	0.00	40.86	
06/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	39.25	7,056,000.00 gal
Application event totals		0.24	0.00	0.00	39.25	
07/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	42.06	7,560,000.00 gal
Application event totals		0.25	0.00	0.00	42.06	
08/09/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.30	0.00	0.00	49.67	8,928,000.00 gal
Application event totals		0.30	0.00	0.00	49.67	
09/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	38.45	6,912,000.00 gal
Application event totals		0.23	0.00	0.00	38.45	

2-H - 10/15/2020: Alfalfa, hay

Field name: 2-H

Crop: Alfalfa, hay

Plant date: 10/15/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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2-H - 10/15/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.29	0.00	0.00	48.23	8,784,000.00 gal
Application event totals		0.29	0.00	0.00	48.23	
05/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.22	0.00	0.00	36.37	6,624,000.00 gal
Application event totals		0.22	0.00	0.00	36.37	
06/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.23	0.00	0.00	38.74	7,056,000.00 gal
Application event totals		0.23	0.00	0.00	38.74	
07/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.31	0.00	0.00	50.99	9,288,000.00 gal
Application event totals		0.31	0.00	0.00	50.99	
08/09/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	39.53	7,200,000.00 gal
Application event totals		0.24	0.00	0.00	39.53	
09/13/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.17	0.00	0.00	28.86	5,256,000.00 gal
Application event totals		0.17	0.00	0.00	28.86	

2-HP - 11/05/2022: Wheat, silage, soft dough

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2-HP - 11/05/2022: Wheat, silage, soft dough

Field name: 2-HP

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	102.61	54.55	141.58	129.89	385.00 ton
Application event totals		102.61	54.55	141.58	129.89	
01/07/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.68	0.00	0.00	0.48	2,208,000.00 gal
Application event totals		0.68	0.00	0.00	0.48	
04/09/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.43	9.48	138.01	725.31	472,500.00 gal
Canal	Surface water	0.41	0.00	0.00	68.19	6,210,000.00 gal
Application event totals		61.84	9.48	138.01	793.49	

2-HP - 06/15/2023: Corn, silage

Field name: 2-HP

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	1.09	0.00	0.00	0.78	3,552,000.00 gal
P-5	Ground water	0.00	0.00	0.00	0.53	2,400,000.00 gal
Application event totals		1.09	0.00	0.00	1.31	

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2-HP - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Separator	Separator solids	85.48	28.95	35.39	45.96	693.00 ton
Application event totals		85.48	28.95	35.39	45.96	
07/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.96	0.00	0.00	0.69	3,120,000.00 gal
Application event totals		0.96	0.00	0.00	0.69	
07/27/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.08	8.58	107.78	715.67	430,500.00 gal
Canal	Surface water	0.26	0.00	0.00	43.48	3,960,000.00 gal
Application event totals		73.34	8.58	107.78	759.15	
08/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-5	Ground water	0.00	0.00	0.00	0.53	2,400,000.00 gal
P-4	Ground water	0.74	0.00	0.00	0.53	2,400,000.00 gal
Application event totals		0.74	0.00	0.00	1.05	
08/23/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.31	0.00	0.00	51.39	4,680,000.00 gal
Application event totals		0.31	0.00	0.00	51.39	

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2-HP - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-5	Ground water	0.00	0.00	0.00	0.43	1,968,000.00 gal
P-4	Ground water	0.61	0.00	0.00	0.43	1,968,000.00 gal
Application event totals		0.61	0.00	0.00	0.86	

3-H - 11/01/2020: Alfalfa, hay

Field name: 3-H

Crop: Alfalfa, hay Plant date: 11/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.28	0.00	0.00	47.48	9,900,000.00 gal
Application event totals		0.28	0.00	0.00	47.48	
05/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.28	0.00	0.00	47.05	9,810,000.00 gal
Application event totals		0.28	0.00	0.00	47.05	
06/15/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	41.01	8,550,000.00 gal
Application event totals		0.25	0.00	0.00	41.01	
07/19/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.26	0.00	0.00	44.03	9,180,000.00 gal
Application event totals		0.26	0.00	0.00	44.03	

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3-H - 11/01/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.31	0.00	0.00	52.23	10,890,000.00 gal
Application event totals		0.31	0.00	0.00	52.23	
09/17/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.25	0.00	0.00	41.44	8,640,000.00 gal
Application event totals		0.25	0.00	0.00	41.44	

3-HP - 11/01/2022: Wheat, silage, soft dough

Field name: 3-HP

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	129.64	68.92	178.86	164.10	640.00 ton
Application event totals		129.64	68.92	178.86	164.10	
12/12/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.88	12.33	179.47	943.22	808,500.00 gal
P-5	Ground water	0.00	0.00	0.00	0.62	3,696,000.00 gal
P-4	Ground water	0.86	0.00	0.00	0.62	3,696,000.00 gal
Application event totals		80.75	12.33	179.47	944.45	

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3-HP - 11/01/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.46	0.00	0.00	75.86	9,090,000.00 gal
Application event totals		0.46	0.00	0.00	75.86	

3-HP - 06/13/2023: Corn, silage

Field name: 3-HP

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/29/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	103.71	55.14	143.09	131.28	512.00 ton
Application event totals		103.71	55.14	143.09	131.28	
05/30/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.08	0.00	0.00	0.06	360,000.00 gal
P-5	Ground water	0.00	0.00	0.00	0.60	3,600,000.00 gal
Application event totals		0.08	0.00	0.00	0.66	
07/12/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	105.66	12.41	155.83	1,034.75	819,000.00 gal
Canal	Surface water	0.35	0.00	0.00	58.58	7,020,000.00 gal
Application event totals		106.01	12.41	155.83	1,093.33	

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3-HP - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/27/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	117.48	18.75	183.00	1,543.35	1,291,500.00 gal
P-5	Ground water	0.00	0.00	0.00	1.26	7,536,000.00 gal
Application event totals		117.48	18.75	183.00	1,544.61	
08/25/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.13	9.76	95.22	803.04	672,000.00 gal
Canal	Surface water	0.40	0.00	0.00	66.09	7,920,000.00 gal
Application event totals		61.52	9.76	95.22	869.14	
09/04/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.63	0.00	0.00	0.45	2,688,000.00 gal
P-5	Ground water	0.00	0.00	0.00	0.64	3,840,000.00 gal
Application event totals		0.63	0.00	0.00	1.09	

4-H - 11/01/2022: Wheat, silage, soft dough

Field name: 4-H

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	101.28	53.84	139.74	128.20	870.00 ton
Application event totals		101.28	53.84	139.74	128.20	

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4-H - 11/01/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/11/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.41	0.00	0.00	67.71	14,118,000.00 gal
Application event totals		0.41	0.00	0.00	67.71	

4-H - 06/20/2023: Corn, silage

Field name: 4-H

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/07/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure Separator	Separator solids	70.31	23.81	29.11	37.80	1,305.00 ton
Application event totals		70.31	23.81	29.11	37.80	
06/05/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.91	0.00	0.00	0.65	6,768,000.00 gal
Application event totals		0.91	0.00	0.00	0.65	
07/16/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.38	0.00	0.00	63.22	13,182,000.00 gal
Application event totals		0.38	0.00	0.00	63.22	
07/25/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.87	0.00	0.00	0.62	6,480,000.00 gal
Application event totals		0.87	0.00	0.00	0.62	

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4-H - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	56.05	6.58	82.67	548.94	756,000.00 gal
P-4	Ground water	0.77	0.00	0.00	0.55	5,712,000.00 gal
Application event totals		56.82	6.58	82.67	549.49	
08/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.18	0.00	0.00	30.68	6,396,000.00 gal
Application event totals		0.18	0.00	0.00	30.68	
08/26/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.49	12.53	122.28	1,031.21	1,501,500.00 gal
P-4	Ground water	1.17	0.00	0.00	0.83	8,688,000.00 gal
Application event totals		79.66	12.53	122.28	1,032.04	

5-H - 11/04/2022: Wheat, silage, soft dough

Field name:	5-H	Plant date:	11/04/2022	
Crop:	Wheat, silage, soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Manure	Corral solids	101.28	53.84	139.74
Application event totals		101.28	53.84	139.74
				128.20 1,000.00 ton

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5-H - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.22	11.61	168.98	888.10	1,522,500.00 gal
P-5	Ground water	0.00	0.00	0.00	0.36	4,368,000.00 gal
Application event totals		75.22	11.61	168.98	888.46	
04/15/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.30	0.00	0.00	49.47	11,856,000.00 gal
Application event totals		0.30	0.00	0.00	49.47	

5-H - 06/07/2023: Corn, silage

Field name: 5-H

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Separator solids	117.18	39.69	48.51	63.00	2,500.00 ton
Application event totals		117.18	39.69	48.51	63.00	
05/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.29	0.00	0.00	48.82	11,700,000.00 gal
Application event totals		0.29	0.00	0.00	48.82	

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5-H - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/11/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	49.44	5.81	72.92	484.21	766,500.00 gal
Canal	Surface water	0.19	0.00	0.00	31.89	7,644,000.00 gal
Application event totals		49.64	5.81	72.92	516.11	
07/11/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.29	0.00	0.00	48.49	11,622,000.00 gal
Application event totals		0.29	0.00	0.00	48.49	
07/24/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.13	9.76	95.22	803.04	1,344,000.00 gal
Canal	Surface water	0.22	0.00	0.00	36.45	8,736,000.00 gal
Application event totals		61.34	9.76	95.22	839.49	
08/03/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.24	0.00	0.00	40.68	9,750,000.00 gal
Application event totals		0.24	0.00	0.00	40.68	
08/16/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.13	9.76	95.22	803.04	1,344,000.00 gal
Canal	Surface water	0.03	0.00	0.00	4.75	1,138,800.00 gal
Application event totals		61.15	9.76	95.22	807.79	

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5-H - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/06/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.34	0.00	0.00	57.28	13,728,000.00 gal
Application event totals		0.34	0.00	0.00	57.28	

6-H - 11/04/2022: Wheat, silage, soft dough

Field name: 6-H

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/03/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	101.62	54.03	140.21	128.64	883.00 ton
Application event totals		101.62	54.03	140.21	128.64	
03/18/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.38	0.00	0.00	63.61	13,416,000.00 gal
Application event totals		0.38	0.00	0.00	63.61	
04/10/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.36	9.01	131.11	689.04	1,039,500.00 gal
Canal	Surface water	0.25	0.00	0.00	41.42	8,736,000.00 gal
Application event totals		58.61	9.01	131.11	730.46	

6-H - 06/05/2023: Corn, silage

Field name: 6-H

Crop: Corn, silage Plant date: 06/05/2023

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6-H - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/11/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	82.15	28.81	30.76	38.93	883.00 ton
Application event totals		82.15	28.81	30.76	38.93	
05/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.29	0.00	0.00	47.79	10,080,000.00 gal
Application event totals		0.29	0.00	0.00	47.79	
06/08/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	105.45	12.39	155.51	1,032.64	1,438,500.00 gal
Canal	Surface water	0.31	0.00	0.00	51.41	10,842,000.00 gal
Application event totals		105.76	12.39	155.51	1,084.05	
07/19/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	60.24	9.62	93.83	791.35	1,165,500.00 gal
Canal	Surface water	0.36	0.00	0.00	59.32	12,510,000.00 gal
Application event totals		60.59	9.62	93.83	850.67	
07/29/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-4	Ground water	0.85	0.00	0.00	0.61	6,384,000.00 gal
Canal	Surface water	0.19	0.00	0.00	31.81	6,708,000.00 gal
Application event totals		1.04	0.00	0.00	32.41	

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6-H - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/24/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.38	0.00	0.00	63.61	13,416,000.00 gal
Application event totals		0.38	0.00	0.00	63.61	

7-H - 10/30/2022: Wheat, silage, soft dough

Field name: 7-H

Crop: Wheat, silage, soft dough Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/28/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Separator solids	56.25	19.05	23.28	30.24	324.00 ton
Application event totals		56.25	19.05	23.28	30.24	
11/28/2022	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.30	13.94	202.86	1,066.17	493,500.00 gal
Canal	Surface water	0.38	0.00	0.00	63.98	4,140,000.00 gal
Application event totals		90.68	13.94	202.86	1,130.15	
04/12/2023	Pipeline	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.36	0.00	0.00	59.81	3,870,000.00 gal
Application event totals		0.36	0.00	0.00	59.81	

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

Field name: 7-H

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	36.50	5.64	82.01	431.01	199,500.00 gal
Canal	Surface water	0.18	0.00	0.00	30.60	1,980,000.00 gal
Application event totals		36.69	5.64	82.01	461.60	
05/30/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	101.28	53.84	139.74	128.20	270.00 ton
Application event totals		101.28	53.84	139.74	128.20	
06/11/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-5	Ground water	0.00	0.00	0.00	1.07	3,456,000.00 gal
Application event totals		0.00	0.00	0.00	1.07	
07/23/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	60.21	7.07	88.79	589.60	252,000.00 gal
Canal	Surface water	0.23	0.00	0.00	37.55	2,430,000.00 gal
Application event totals		60.43	7.07	88.79	627.15	
07/31/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.30	0.00	0.00	50.07	3,240,000.00 gal
Application event totals		0.30	0.00	0.00	50.07	
08/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.37	0.00	0.00	62.31	4,032,000.00 gal
Application event totals		0.37	0.00	0.00	62.31	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/03/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-5	Ground water	0.00	0.00	0.00	1.11	3,600,000.00 gal
Application event totals		0.00	0.00	0.00	1.11	

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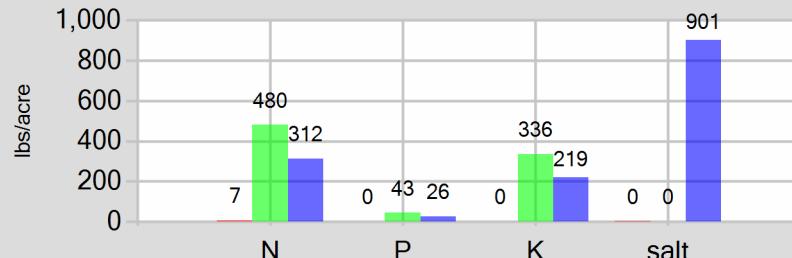
Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

1H - 11/20/2018: Alfalfa, hay

Field name: 1H Crop: Alfalfa, hay Plant date: 11/20/2018

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	7.00	0.00	0.00	0.00
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	312.13	26.39	219.31	900.91
Nutrient balance	-305.13	-26.39	-219.31	-900.91
Applied to removed ratio	0.02	0.00	0.00	0.00

Fresh water applied

1.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

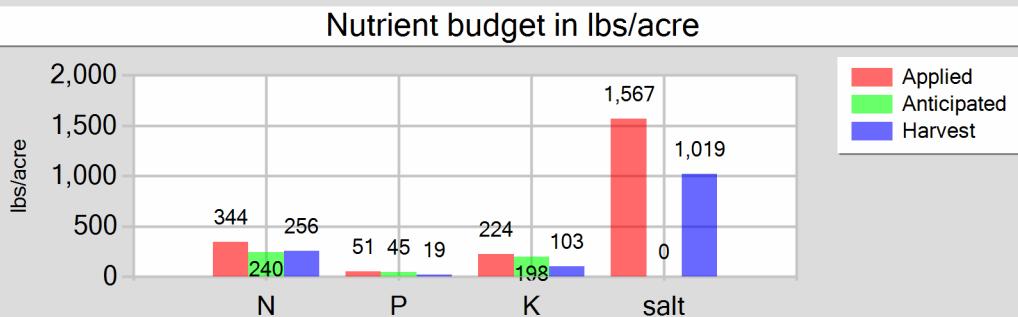
1 *harvests*

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1H - 05/18/2023: Corn, silage

Field name: 1H Crop: Corn, silage Plant date: 05/18/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	98.24	34.45	36.78	46.56
Process wastewater	124.27	16.69	187.39	1,382.84
Fresh water	114.12	0.00	0.00	137.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	343.63	51.14	224.17	1,567.11
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	256.14	19.17	102.81	1,019.35
Nutrient balance	87.49	31.98	121.36	547.76
Applied to removed ratio	1.34	2.67	2.18	1.54

Fresh water applied
52,392,000.00 gallons
1,929.42 acre-inches
24.74 inches/acre

Process wastewater applied
1,753,500.00 gallons
64.58 acre-inches
0.83 inches/acre

Total harvests for the crop
1 harvests

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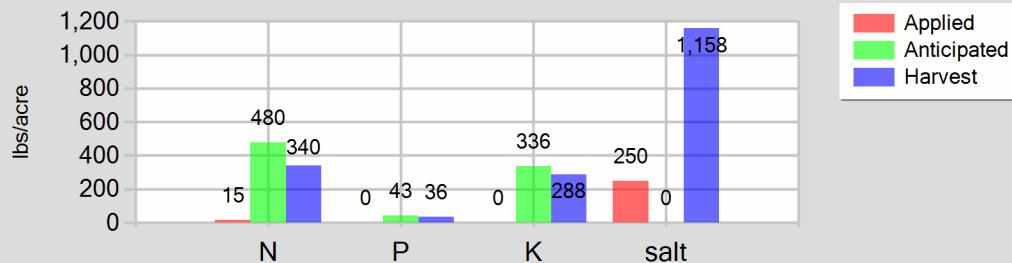
1-HP - 11/10/2021: Alfalfa, hay

Field name: 1-HP

Crop: Alfalfa, hay

Plant date: 11/10/2021

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.50	0.00	0.00	249.55
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.50	0.00	0.00	249.55
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	339.71	35.62	287.54	1,157.81
Nutrient balance	-324.21	-35.62	-287.54	-908.26
Applied to removed ratio	0.05	0.00	0.00	0.22

Fresh water applied

44,856,000.00 gallons
1,651.89 acre-inches
22.03 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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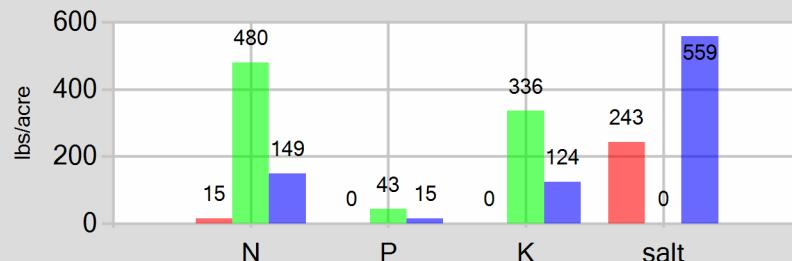
2-H - 10/15/2020: Alfalfa, hay

Field name: 2-H

Crop: Alfalfa, hay

Plant date: 10/15/2020

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.46	0.00	0.00	242.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	15.46	0.00	0.00	242.71
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	148.79	15.05	124.28	559.04
Nutrient balance	-133.34	-15.05	-124.28	-316.34
Applied to removed ratio	0.10	0.00	0.00	0.43

Fresh water applied

44,208,000.00 gallons
1,628.03 acre-inches
21.42 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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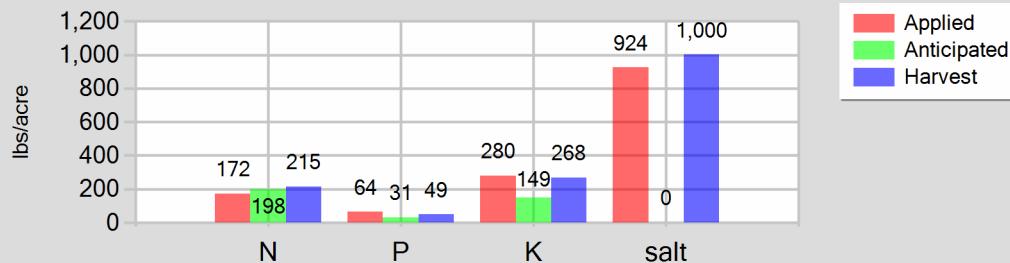
2-HP - 11/05/2022: Wheat, silage, soft dough

Field name: 2-HP

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Nutrient budget in lbs/acre



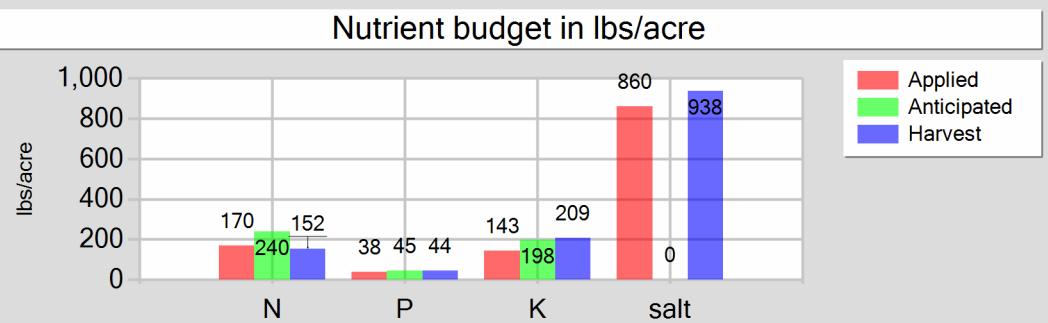
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,418,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	310.01 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.16 inches/acre
Dry manure	102.61	54.55	141.58	129.89	
Process wastewater	61.43	9.48	138.01	725.31	
Fresh water	1.09	0.00	0.00	68.67	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	172.13	64.04	279.58	923.87	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	214.57	48.77	267.51	1,000.39	
Nutrient balance	-42.44	15.27	12.07	-76.52	
Applied to removed ratio	0.80	1.31	1.05	0.92	
Total harvests for the crop					1 harvests

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2-HP - 06/15/2023: Corn, silage

Field name: 2-HP Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	85.48	28.95	35.39	45.96
Process wastewater	73.08	8.58	107.78	715.67
Fresh water	3.96	0.00	0.00	98.78
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	169.52	37.54	143.16	860.41
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	152.18	44.24	208.80	937.83
Nutrient balance	17.35	-6.70	-65.64	-77.43
Applied to removed ratio	1.11	0.85	0.69	0.92

Fresh water applied
26,448,000.00 gallons
973.99 acre-inches
25.63 inches/acre

Process wastewater applied
430,500.00 gallons
15.85 acre-inches
0.42 inches/acre

Total harvests for the crop
1 harvests

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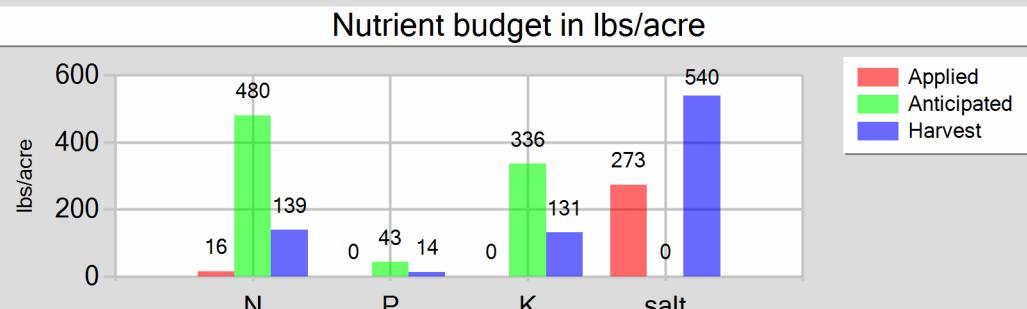
Reporting period 01/01/2023 to 12/31/2023.

3-H - 11/01/2020: Alfalfa, hay

Field name: 3-H

Crop: Alfalfa, hay

Plant date: 11/01/2020



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	56,970,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,098.01 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	24.12 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	1.64	0.00	0.00	273.23	Process wastewater applied
Atmospheric deposition	14.00	0.00	0.00	0.00	0.00 gallons
Total nutrients applied	15.64	0.00	0.00	273.23	0.00 acre-inches
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00	0.00 inches/acre
Actual crop nutrient removal	138.86	14.15	131.34	539.53	Total harvests for the crop
Nutrient balance	-123.22	-14.15	-131.34	-266.30	1 harvests
Applied to removed ratio	0.11	0.00	0.00	0.51	

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

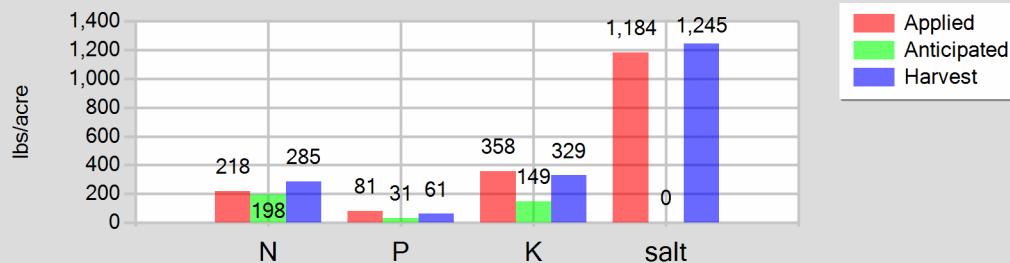
3-HP - 11/01/2022: Wheat, silage, soft dough

Field name: 3-HP

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022

Nutrient budget in lbs/acre



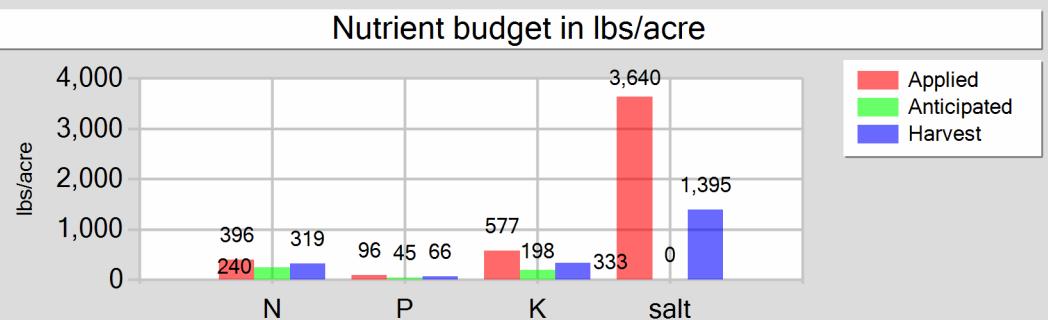
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	16,482,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	606.98 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.14 inches/acre
Dry manure	129.64	68.92	178.86	164.10	
Process wastewater	79.88	12.33	179.47	943.22	Process wastewater applied
Fresh water	1.32	0.00	0.00	77.09	808,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	29.77 acre-inches
Total nutrients applied	217.84	81.25	358.33	1,184.41	0.60 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	284.55	60.58	328.61	1,244.68	Total harvests for the crop
Nutrient balance	-66.71	20.67	29.72	-60.28	1 harvests
Applied to removed ratio	0.77	1.34	1.09	0.95	

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

3-HP - 06/13/2023: Corn, silage

Field name: 3-HP Crop: Corn, silage Plant date: 06/13/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	103.71	55.14	143.09	131.28
Process wastewater	284.26	40.92	434.05	3,381.14
Fresh water	1.46	0.00	0.00	127.68
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	396.43	96.06	577.14	3,640.10
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	319.16	66.20	333.34	1,394.83
Nutrient balance	77.28	29.86	243.80	2,245.27
Applied to removed ratio	1.24	1.45	1.73	2.61

Fresh water applied
32,964,000.00 gallons
1,213.95 acre-inches
24.28 inches/acre

Process wastewater applied
2,782,500.00 gallons
102.47 acre-inches
2.05 inches/acre

Total harvests for the crop
1 harvests

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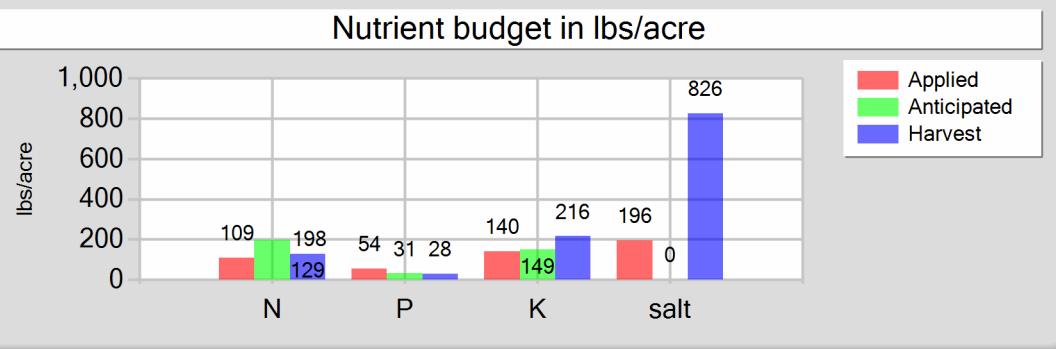
Reporting period 01/01/2023 to 12/31/2023.

4-H - 11/01/2022: Wheat, silage, soft dough

Field name: 4-H

Crop: Wheat, silage, soft dough

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	101.28	53.84	139.74	128.20
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.41	0.00	0.00	67.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	108.68	53.84	139.74	195.91
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	128.64	28.48	215.93	826.04
Nutrient balance	-19.95	25.36	-76.19	-630.13
Applied to removed ratio	0.84	1.89	0.65	0.24

Fresh water applied

14,118,000.00 gallons
519.92 acre-inches
5.98 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

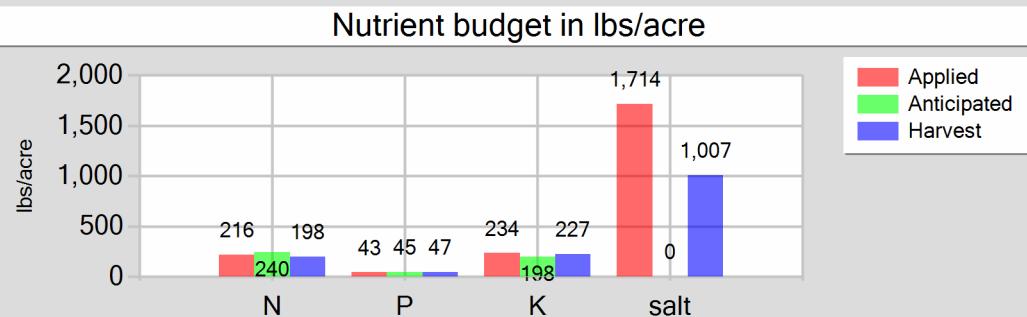
1 harvests

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

4-H - 06/20/2023: Corn, silage

Field name: 4-H Crop: Corn, silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	70.31	23.81	29.11	37.80
Process wastewater	134.55	19.11	204.94	1,580.15
Fresh water	4.28	0.00	0.00	96.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	216.13	42.93	234.05	1,714.49
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	198.04	46.99	226.58	1,007.01
Nutrient balance	18.09	-4.07	7.47	707.49
Applied to removed ratio	1.09	0.91	1.03	1.70

Fresh water applied
47,226,000.00 gallons
1,739.17 acre-inches
19.99 inches/acre

Process wastewater applied
2,257,500.00 gallons
83.14 acre-inches
0.96 inches/acre

Total harvests for the crop
1 harvests

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

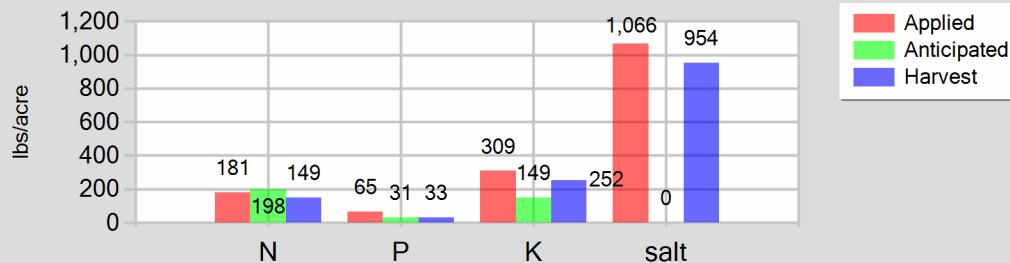
5-H - 11/04/2022: Wheat, silage, soft dough

Field name: 5-H

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	16,224,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	597.47 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	5.97 inches/acre
Dry manure	101.28	53.84	139.74	128.20	
Process wastewater	75.22	11.61	168.98	888.10	1,522,500.00 gallons
Fresh water	0.30	0.00	0.00	49.83	56.07 acre-inches
Atmospheric deposition	4.67	0.00	0.00	0.00	0.56 inches/acre
Total nutrients applied	181.46	65.46	308.72	1,066.13	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	148.74	32.57	251.88	954.31	
Nutrient balance	32.72	32.89	56.84	111.82	
Applied to removed ratio	1.22	2.01	1.23	1.12	
Total harvests for the crop					1 harvests

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

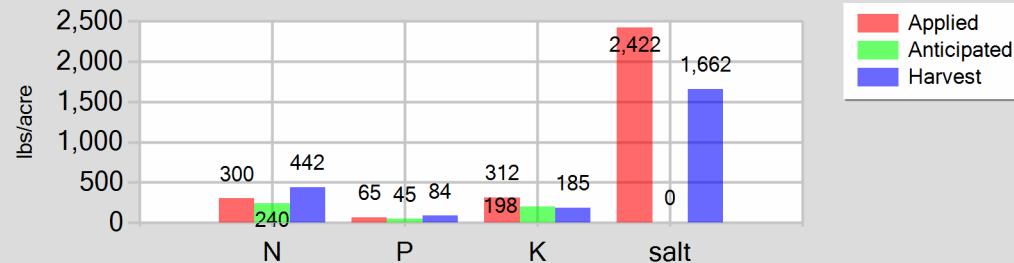
5-H - 06/07/2023: Corn, silage

Field name: 5-H

Crop: Corn, silage

Plant date: 06/07/2023

Nutrient budget in lbs/acre



	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	117.18	39.69	48.51	63.00
Process wastewater	171.70	25.32	263.36	2,090.30
Fresh water	1.61	0.00	0.00	268.37
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	299.82	65.01	311.87	2,421.67
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	441.51	84.26	185.37	1,661.57
Nutrient balance	-141.69	-19.24	126.50	760.10
Applied to removed ratio	0.68	0.77	1.68	1.46

Fresh water applied

64,318,800.00 gallons
2,368.64 acre-inches
23.69 inches/acre

Process wastewater applied

3,454,500.00 gallons
127.22 acre-inches
1.27 inches/acre

Total harvests for the crop

2 harvests

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

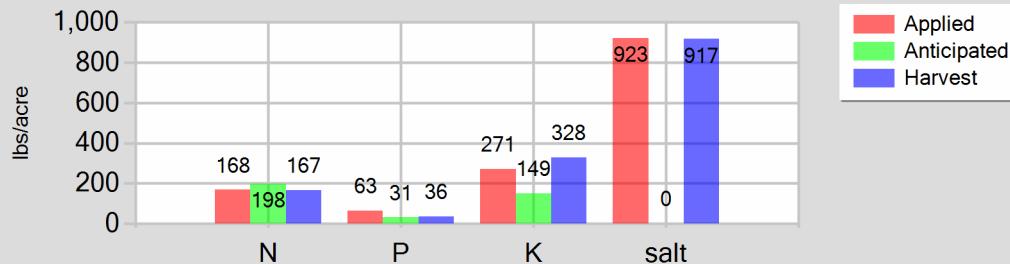
6-H - 11/04/2022: Wheat, silage, soft dough

Field name: 6-H

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Nutrient budget in lbs/acre



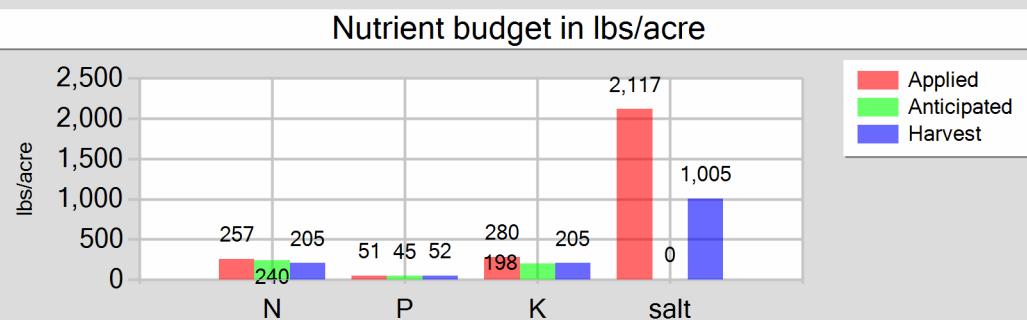
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	22,152,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	815.78 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.27 inches/acre
Dry manure	101.62	54.03	140.21	128.64	
Process wastewater	58.36	9.01	131.11	689.04	1,039,500.00 gallons
Fresh water	0.63	0.00	0.00	105.03	38.28 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	0.44 inches/acre
Total nutrients applied	167.61	63.04	271.32	922.71	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	166.98	36.08	327.78	917.38	
Nutrient balance	0.63	26.96	-56.46	5.33	
Applied to removed ratio	1.00	1.75	0.83	1.01	
Total harvests for the crop					1 harvests

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

6-H - 06/05/2023: Corn, silage

Field name: 6-H Crop: Corn, silage Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	82.15	28.81	30.76	38.93
Process wastewater	165.68	22.00	249.34	1,823.99
Fresh water	2.37	0.00	0.00	254.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	257.20	50.81	280.10	2,117.46
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	204.89	51.67	204.89	1,004.87
Nutrient balance	52.31	-0.86	75.21	1,112.59
Applied to removed ratio	1.26	0.98	1.37	2.11

Fresh water applied
59,940,000.00 gallons
2,207.39 acre-inches
25.08 inches/acre

Process wastewater applied
2,604,000.00 gallons
95.90 acre-inches
1.09 inches/acre

Total harvests for the crop
1 harvests

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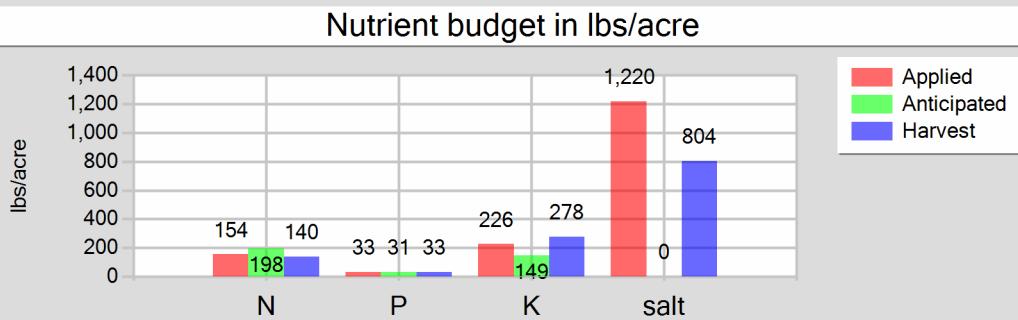
Reporting period 01/01/2023 to 12/31/2023.

7-H - 10/30/2022: Wheat, silage, soft dough

Field name: 7-H

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,010,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	294.98 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.93 inches/acre
Dry manure	56.25	19.05	23.28	30.24	
Process wastewater	90.30	13.94	202.86	1,066.17	Process wastewater applied
Fresh water	0.74	0.00	0.00	123.78	493,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	18.17 acre-inches
Total nutrients applied	154.29	32.99	226.15	1,220.20	0.67 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	139.54	32.78	278.15	804.47	Total harvests for the crop
Nutrient balance	14.74	0.21	-52.00	415.73	1 harvests
Applied to removed ratio	1.11	1.01	0.81	1.52	

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

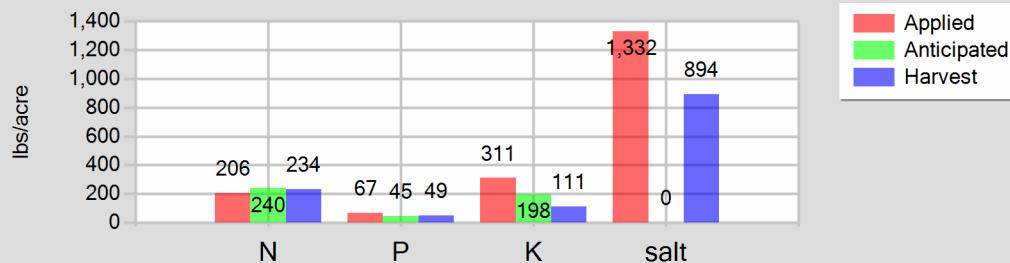
7-H - 06/01/2023: Corn, silage

Field name: 7-H

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	101.28	53.84	139.74	128.20
Process wastewater	96.71	12.71	170.80	1,020.61
Fresh water	1.08	0.00	0.00	182.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	206.07	66.55	310.54	1,331.52
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	233.82	49.03	111.25	893.79
Nutrient balance	-27.75	17.53	199.28	437.73
Applied to removed ratio	0.88	1.36	2.79	1.49

Fresh water applied

18,738,000.00 gallons
690.06 acre-inches
25.56 inches/acre

Process wastewater applied

451,500.00 gallons
16.63 acre-inches
0.62 inches/acre

Total harvests for the crop

1 harvests

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****M43945-01 Valley Tech**

Sample and source description: M43945-01 Valley Tech

Sample date: 03/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 35.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,900.00	4,200.00	10,900.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

M67209-01 Valley Tech

Sample and source description: M67209-01 Valley Tech

Sample date: 09/28/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 80.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,100.00	7,400.00	7,900.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

M67209-02 Valley Tech

Sample and source description: M67209-02 Valley Tech

Sample date: 09/28/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 87.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,600.00	6,300.00	7,700.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

B. PROCESS WASTEWATER ANALYSES

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

L42241-01 Valley Tech

Sample and source description: L42241-01 Valley Tech

Sample date: 01/26/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	592.00	460.00	0.00	0.00	91.40	1,330.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.50	6,990
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L45334-01 Valley Tech

Sample and source description: L45334-01 Valley Tech

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	773.00	638.00	0.00	0.00	90.80	1,140.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	11.40	7,570
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L63594-01 Valley Tech

Sample and source description: L63594-01 Valley Tech

Sample date: 08/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	545.00	530.00	0.00	0.00	87.00	849.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.80	7,160
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

L74161-01 Valley Tech

Sample and source description: L74161-01 Valley Tech

Sample date: 12/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	690.00	528.00	0.00	0.00	68.60	968.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.50	7,000
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

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

C. FRESH WATER ANALYSES

Canal

23E0697-01 Dellavalle

Sample description: 23E0697-01 Dellavalle

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.30	0.00	0.30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	69.10	50
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	10

P-1

23F1181-01 Dellavalle

Sample description: 23F1181-01 Dellavalle

Sample date: 06/12/2023 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	46.80	0.00	46.80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	893.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-2

23F1181-02 Dellavalle

Sample description: 23F1181-02 Dellavalle

Sample date: 06/12/2023 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	30.60	0.00	30.60	0.01	0.01	0.01	0.01	0.01	0.01	0.01	618.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

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

P-4

23G0908-01 Dellavalle

Sample description: 23G0908-01 Dellavalle

Sample date: 07/13/2023 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	1.40	0.00	1.40	0.01	0.01	0.01	0.01	0.01	0.01	0.01	258.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

P-5

23G0908-02 Dellavalle

Sample description: 23G0908-02 Dellavalle

Sample date: 07/13/2023 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	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	284.00	1
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	1

D. SOIL ANALYSES**1H**

06-06S52815 Valley Tech

Sample and source description: 06-06S52815 Valley Tech

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

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value	5.80	26.30	13.00	484.00	0.59	1.00	
DL	0.10	0.10	5.00	1.00	0.01	1.00	

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

1-HP

06-06S52815 Valley Tech

Sample and source description: 06-06S52815 Valley Tech

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

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	15.30	69.00	17.00	484.00	0.74	1.00	
DL	0.10	0.10	5.00	1.00	0.01	1.00	

4-H

06-06S52815 Valley Tech

Sample and source description: 06-06S52815 Valley Tech

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

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	12.30	87.80	19.00	460.00	0.76	1.00	
DL	0.10	0.10	5.00	1.00	0.01	1.00	

5-H

06-06S52815 Valley Tech (North)

Sample and source description: 06-06S52815 Valley Tech (North)

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

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	14.80	92.50	21.00	1,100.00	0.83	1.00	
DL	0.10	0.10	5.00	1.00	0.10	1.00	

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

5-H

06-06S52815 Valley Tech (South)

Sample and source description: 06-06S52815 Valley Tech (South)Sample date: 06/06/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	29.30	142.00	24.00	1,470.00	1.03	1.00	
DL	0.10	0.10	5.00	1.00	0.10	1.00	

6-H

06-06S52815 Valley Tech

Sample and source description: 06-06S52815 Valley TechSample date: 06/06/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	14.40	94.90	17.00	928.00	0.80	1.00	
DL	0.10	0.10	5.00	1.00	0.10	1.00	

7-H

06-06S52815 Valley Tech

Sample and source description: 06-06S52815 Valley TechSample date: 06/06/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC ($\mu\text{mhos}/\text{cm}$)	Organic matter (%)	Total salt (mg/kg)
Value	46.00	133.00	34.00	959.00	1.38	1.00	
DL	0.10	0.10	5.00	1.00	0.10	1.00	

E. PLANT TISSUE ANALYSES

1H - 11/20/2018: Alfalfa, hay

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

1H - 11/20/2018: Alfalfa, hay

H50162-01 Valley Tech

Sample and source description: H50162-01 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,300.00	2,900.00	24,100.00		9.90
DL	0.05	0.02	0.02		0.05

1H - 05/18/2023: Corn, silage

H59247-01 Valley Tech

Sample and source description: H59247-01 Valley Tech

Sample date: 07/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	1,100.00	5,900.00		5.85
DL	0.05	0.02	0.02		0.05

1-HP - 11/10/2021: Alfalfa, hay

H50162-02 Valley Tech

Sample and source description: H50162-02 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 14.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	26,700.00	2,800.00	22,600.00		9.10
DL	0.05	0.02	0.02		0.05

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

1-HP - 11/10/2021: Alfalfa, hay

H67420-01 Valley Tech

Sample and source description: H67420-01 Valley Tech

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

Moisture: 25.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,300.00	3,600.00	30,600.00		13.40
DL	0.05	0.02	0.02		0.05

2-H - 10/15/2020: Alfalfa, hay

H50162-03 Valley Tech

Sample and source description: H50162-03 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 17.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,300.00	2,700.00	24,600.00		10.20
DL	0.05	0.02	0.02		0.05

H67420-02 Valley Tech

Sample and source description: H67420-02 Valley Tech

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

Moisture: 72.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,600.00	3,500.00	28,900.00		13.00
DL	0.05	0.02	0.02		0.05

2-HP - 11/05/2022: Wheat, silage, soft dough

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

2-HP - 11/05/2022: Wheat, silage, soft dough

H49384-01 Valley Tech

Sample and source description: H49384-01 Valley Tech

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	3,500.00	19,200.00		7.18
DL	0.05	0.02	0.02		0.05

2-HP - 06/15/2023: Corn, silage

H66488-02 Valley Tech

Sample and source description: H66488-02 Valley Tech

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,600.00	2,500.00	11,800.00		5.30
DL	0.05	0.02	0.02		0.05

3-H - 11/01/2020: Alfalfa, hay

H50162-04 Valley Tech

Sample and source description: H50162-04 Valley Tech

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	29,400.00	2,900.00	22,700.00		8.86
DL	0.05	0.02	0.02		0.05

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

3-H - 11/01/2020: Alfalfa, hay

H67420-03 Valley Tech

Sample and source description: H67420-03 Valley Tech

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

Moisture: 72.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,400.00	3,200.00	29,700.00		12.20
DL	0.05	0.02	0.02		0.05

3-HP - 11/01/2022: Wheat, silage, soft dough

H49384-02 Valley Tech

Sample and source description: H49384-02 Valley Tech

Sample date: 05/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	3,300.00	17,900.00		6.78
DL	0.05	0.02	0.02		0.05

3-HP - 06/13/2023: Corn, silage

H67611-01 Valley Tech

Sample and source description: H67611-01 Valley Tech

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

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	2,800.00	14,100.00		5.90
DL	0.05	0.02	0.05		0.05

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

4-H - 11/01/2022: Wheat, silage, soft dough

H49621-01 Valley Tech

Sample and source description: H49621-01 Valley Tech

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,000.00	3,100.00	23,500.00		8.99
DL	0.05	0.02	0.02		0.05

4-H - 06/20/2023: Corn, silage

H66706-01 Valley Tech

Sample and source description: H66706-01 Valley Tech

Sample date: 09/25/2023 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	11,800.00	2,800.00	13,500.00		6.00
DL	0.05	0.02	0.02		0.05

5-H - 11/04/2022: Wheat, silage, soft dough

H49384-03 Valley Tech

Sample and source description: H49384-03 Valley Tech

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,700.00	3,000.00	23,200.00		8.79
DL	0.05	0.02	0.02		0.05

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

5-H - 06/07/2023: Corn, silage

H69363-01 Valley Tech

Sample and source description: H69363-01 Valley Tech

Sample date: 09/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	2,500.00	5,500.00		4.93
DL	0.05	0.02	0.02		0.05

6-H - 11/04/2022: Wheat, silage, soft dough

H49621-02 Valley Tech

Sample and source description: H49621-02 Valley Tech

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,200.00	3,500.00	31,800.00		8.90
DL	0.05	0.02	0.02		0.05

6-H - 06/05/2023: Corn, silage

H66488-01 Valley Tech

Sample and source description: H66488-01 Valley Tech

Sample date: 09/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,900.00	11,500.00		5.64
DL	0.05	0.02	0.02		0.05

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

7-H - 10/30/2022: Wheat, silage, soft dough

H49621-03 Valley Tech

Sample and source description: H49621-03 Valley Tech

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	3,500.00	29,700.00		8.59
DL	0.05	0.02	0.02		0.05

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

H69363-02 Valley Tech

Sample and source description: H69363-02 Valley Tech

Sample date: 09/30/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	2,600.00	5,900.00		4.74
DL	0.05	0.02	0.02		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

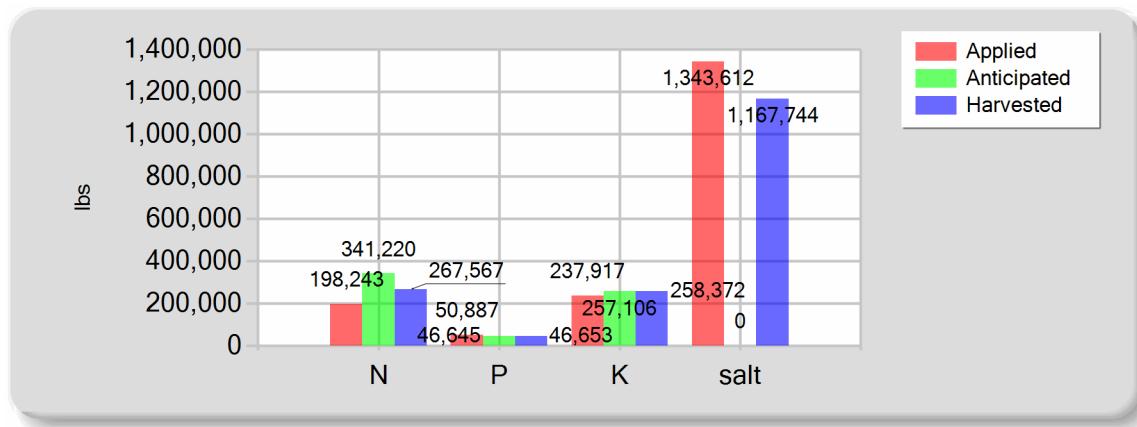
No subsurface (tile) drainage analyses entered.

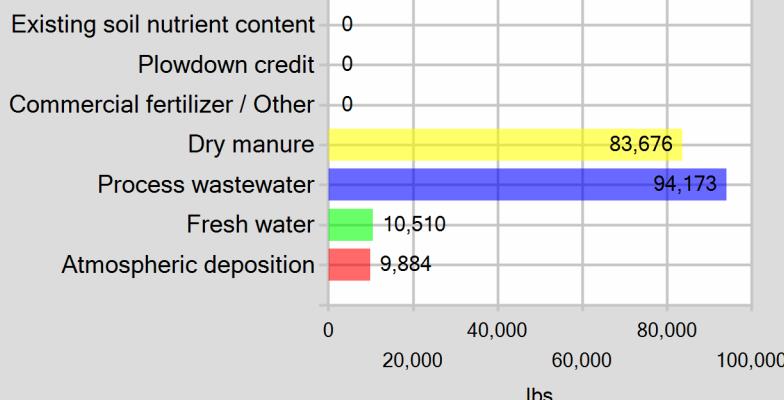
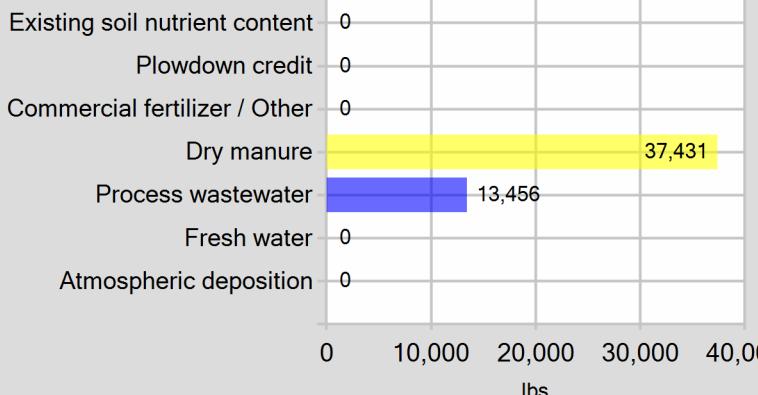
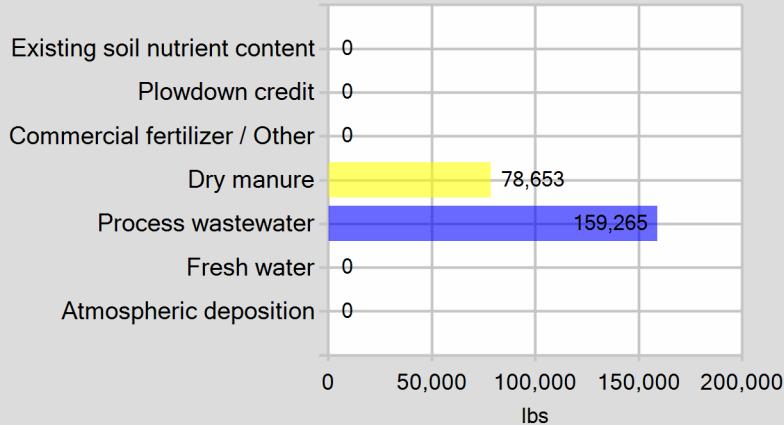
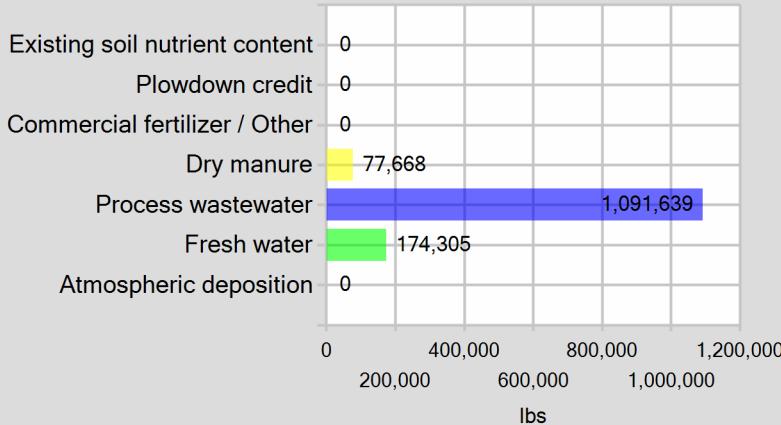
Annual Report - General Order No. R5-2007-0035

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	83,676.24	37,430.98	78,652.74	77,668.36
Process wastewater	94,172.90	13,456.15	159,264.58	1,091,638.78
Fresh water	10,509.55	0.00	0.00	174,304.69
Atmospheric deposition	9,884.00	0.00	0.00	0.00
Total nutrients applied	198,242.69	50,887.14	237,917.32	1,343,611.83
Anticipated crop nutrient removal	341,220.00	46,645.20	257,106.00	0.00
Actual crop nutrient removal	267,566.92	46,653.13	258,372.44	1,167,744.07
Nutrient balance	-69,324.23	4,234.00	-20,455.12	175,867.76
Applied to removed ratio	0.74	1.09	0.92	1.15

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? Yes _____

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

- 1.) Please find Field # 3-HP has been changed to 50 acres,
this will be the field size after digester construction.
- 2.) Ag Wells #3, H3 & H4 were not available during reporting period.
- 3.) We have no irrigation events to show for 1H Alfalfa. this crop was removed 4/1/2023 due to all the rain it was not necessary to water.

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

Joe or Fernando Mattos

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

A handwritten signature in black ink, appearing to read "Joe or Fernando Matto".

SIGNATURE OF OWNER OF FACILITY

Joe or Fernando Matto

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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



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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 01/24/2023 7:45
Reported: 01/25/2023 11:31

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23A0599-01	D-1	Drinking Water	Justin / Josh		01/23/2023 10:10
23A0599-02	D-2	Drinking Water	Justin / Josh		01/23/2023 10:15
23A0599-03	D-3	Drinking Water	Justin / Josh		01/23/2023 10:25

Default Cooler Temperature on Receipt °C: 10.2
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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



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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 01/24/2023 7:45
Reported: 01/25/2023 11:31

Sample Results

Sample: D-1
23A0599-01 (Water)

Sampled: 1/23/2023 10:10
Sampled By: Justin / Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.26	mmhos/cm	0.01	1		01/24/23 10:43	SM 2510 B		BEA0436
Electrical Conductivity umhos	262	umhos/cm	10.0	1		01/24/23 10:43	SM 2510 B		BEA0436
Ammonia (as N)	ND	mg/L	0.00	1		01/23/23 10:10	Field		BEA0433
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	01/24/23 20:24	EPA 300.0		BEA0403
pH	7.0	units	1.0	1		01/24/23 10:43	SM 4500-H+	H	BEA0436
Temperature	25.0	°C	0.0	1		01/24/23 10:43	SM 2510 B		BEA0436

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Sample: D-2
23A0599-02 (Water)

Sampled: 1/23/2023 10:15

Sampled By: Justin / Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.22	mmhos/cm	0.01	1		01/24/23 10:45	SM 2510 B		BEA0436
Electrical Conductivity umhos	221	umhos/cm	10.0	1		01/24/23 10:45	SM 2510 B		BEA0436
Ammonia (as N)	ND	mg/L	0.00	1		01/23/23 10:15	Field		BEA0433
Nitrate Nitrogen as NO3N	2.8	mg/L	0.1	1	10	01/24/23 20:45	EPA 300.0		BEA0403
pH	8.4	units	1.0	1		01/24/23 10:45	SM 4500-H+	H	BEA0436
Temperature	25.0	°C	0.0	1		01/24/23 10:45	SM 2510 B		BEA0436

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Sample: D-3
23A0599-03 (Water)

Sampled: 1/23/2023 10:25

Sampled By: Justin / Josh

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.22	mmhos/cm	0.01	1		01/24/23 10:46	SM 2510 B		BEA0436
Electrical Conductivity umhos	216	umhos/cm	10.0	1		01/24/23 10:46	SM 2510 B		BEA0436
Ammonia (as N)	ND	mg/L	0.00	1		01/23/23 10:25	Field		BEA0433
Nitrate Nitrogen as NO3N	2.8	mg/L	0.1	1	10	01/24/23 23:27	EPA 300.0		BEA0403
pH	8.0	units	1.0	1		01/24/23 10:46	SM 4500-H+	H	BEA0436
Temperature	25.0	°C	0.0	1		01/24/23 10:46	SM 2510 B		BEA0436

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Received: 01/24/2023 7:45
Reported: 01/25/2023 11:31

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEA0403									
Blank (BEA0403-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 1/24/2023				
Blank (BEA0403-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 1/24/2023				
Blank (BEA0403-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 1/25/2023				
LCS (BEA0403-BS1)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	100	90-110			
LCS (BEA0403-BS2)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
Duplicate (BEA0403-DUP1)									
Nitrate Nitrogen as NO3N	50.2	0.1	mg/L	48.6			3.32	10	
Duplicate (BEA0403-DUP2)									
Nitrate Nitrogen as NO3N	7.5	0.1	mg/L	7.8			3.82	10	
Matrix Spike (BEA0403-MS1)									
Nitrate Nitrogen as NO3N	56.7	0.1	mg/L	5.000	48.6	163	90-110		
Matrix Spike (BEA0403-MS2)									
Nitrate Nitrogen as NO3N	12.4	0.1	mg/L	5.000	7.8	92.5	90-110		
Reference (BEA0403-SRM1)									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			
Reference (BEA0403-SRM2)									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			
Reference (BEA0403-SRM3)									
Nitrate Nitrogen as NO3N	10.8		mg/L	10.00	108	90-110			

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEA0436									
Blank (BEA0436-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEA0436-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.8	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEA0436-DUP2)									
	Source: 23A0599-03				Prepared & Analyzed: 1/24/2023				
Electrical Conductivity	0.22	0.01	mmhos/cm		0.22			0.416	10
pH	8.0	1.0	units		8.0			0.00	10
Electrical Conductivity umhos	217	10.0	umhos/cm		216			0.416	10
Reference (BEA0436-SRM1)									
Electrical Conductivity	562		umhos/cm		538.0	104	90-110		
Reference (BEA0436-SRM2)									
pH	7.7		units		7.620	101	68766-101.3:		
Reference (BEA0436-SRM3)									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		
Electrical Conductivity umhos	1040		umhos/cm		1000	104	90-110		
Reference (BEA0436-SRM5)									
Electrical Conductivity	1030		umhos/cm		1000	103	90-110		
Electrical Conductivity umhos	1030		umhos/cm		1000	103	90-110		
Reference (BEA0436-SRM6)									
pH	4.0		units		4.000	100	97.5-102.5		
Reference (BEA0436-SRM8)									
pH	4.0		units		4.000	100	97.5-102.5		

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01/24/23 07:45

23A0599

*✓***WATER WORK REQUEST**

Acct No. 24349 Cons. 8

Bill To:

Purchase Order No. _____ Results Needed By _____

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

Copy to _____

Requested by **Roxey**Ranch **MATTOS BROS.**Date sampled 1-23-23Sampled by gosh? Justin

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

DESCRIPTION OF SAMPLES

1.	<u>D-1</u>	Sampled From:
2.	<u>D-2</u>	Sampled From:
3.	<u>D-3</u>	Sampled From:
4.		Sampled From:
5.		Sampled From:
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

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

No. of Samples	<u>3</u>	No. Bottles	_____
Water Type:	<input checked="" type="checkbox"/> Drinking	<input type="checkbox"/> Wastewater	_____
[] Ag Water	[] Ground Water	[] Mon. Well	_____
[] Supply Water	[] Other	_____	

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test*)
 (I) 1 L plastic, unpreserved (white)
- () DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (I) 1 L plastic, unpreserved (white)
- () DCW1: (EC, NO₃-N, TDS)
 (I) 1 L plastic, unpreserved (white)
- () DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (I) 1 L plastic, unpreserved (white)
- () DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (I) 1 L plastic, unpreserved (white)
- () Other

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
<u>1-23-23</u>	<u>10:10A</u>	<u>401</u>	<u>10.2</u>
<u>1-23-23</u>	<u>10:15A</u>	<u>100</u>	<u>9.8</u>
<u>1-23-23</u>	<u>10:25A</u>	<u>100</u>	<u>10.3</u>

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Josh Reika</u>	<u>HDS</u>	<u>1/23/23 11:30</u>	<u>1/23/23 11:30</u>
Second	<u>YR</u>	<u>DL</u>	<u>1/23/23 11:30</u>	
Third				
Fourth	<u>SD</u>	<u>DLJ</u>	<u>1/24/23 7:45</u>	

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 parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

<i>Invoicing Information:</i>			<i>Shipping</i>	
Sampling Hrs	Miles	Consulting	\$	In
				Out
Amt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg: update 2022



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

Container: Ice Chest Box None

Refrigerant: Wet Ice Blue Ice None

Samples Preserved with HNO₃ or H₂SO₄ 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 ₂ S ₂ O ₃ (Green)		1										
	250 mL unpreserved (White) Plastic												
	250 mL HNO ₃ (Red) Plastic												
	* pH Value												
	250 mL H ₂ SO ₄ (Yellow) Plastic												
	* pH Value												
	500 mL unpreserved (White) Plastic												
	1 L unpreserved (White) Plastic		1	1	1								
Special	1 L unpreserved (BOD) (Purple) Plastic												
	500mL unpreserved (White) Glass												
	PO4-P Kit												
Other:													

Sample Containers for Subcontracted ("Send Out") Analyses

(Containers that go in the Subcontract ("Send Out") Refrigerator)

Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)												
	250 mL unpreserved (White) Plastic												
	250 mL HNO ₃ (Red) Plastic												
	250 mL H ₂ SO ₄ (Yellow) Plastic												
	500 mL HNO ₃ (Red)												
	1 L unpreserved (White) Plastic												
	1 L unpreserved (BOD) (Purple) Plastic												
VOA Vials													
Glass	250 mL AG unpreserved (White)												
	250 mL AG H ₂ SO ₄ (Yellow)												
	250 mL AG Na ₂ S ₂ O ₃ (Green)												
	250 mL AG Na ₂ S ₂ O ₃ + MCAA												
	500 mL glass unpreserved (White)												
	500 mL AG HCl (Blue)												
	1 L AG unpreserved (White)												
Special	1 L AG H ₂ SO ₄ (Yellow)												
	1 L AG Na ₂ S ₂ O ₃ (Green)												
	1 L AG HCl (Blue)												
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃												
	Cyanide - 500 mL NaOH												

DO KIT

Other:

Other:



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Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros. & Mattos 4

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:00

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0697-01	Canal (Canal)	Ag Water	Justin		05/08/2023 8:30

Default Cooler Temperature on Receipt °C: 4.6
Custody Seals
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Received: 05/09/2023 7:50
Reported: 05/30/2023 12:00

Sample Results

Sample: Canal (Canal)
23E0697-01 (Water)

Sampled: 5/8/2023 8:30

Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.07	mmhos/cm	0.01	1		05/09/23 11:32	SM 2510 B		BEE0210
Electrical Conductivity umhos	69.1	umhos/cm	10.0	1		05/09/23 11:32	SM 2510 B		BEE0210
Nitrate Nitrogen as NO3N	0.3	mg/L	0.1	1	10	05/09/23 17:25	EPA 300.0		BEE0285
pH	7.5	units	1.0	1		05/09/23 11:32	SM 4500-H+	H	BEE0210
Total Filterable Solids (TDS)	50.0	mg/L	10.0	1		05/26/23 14:01	SM 2540 C		BEE0919
Temperature	25.0	°C	0.0	1		05/09/23 11:32	SM 2510 B		BEE0210

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Received: 05/09/2023 7:50
Reported: 05/30/2023 12:00

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0210									
Blank (BEE0210-BLK1)									
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEE0210-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEE0210-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.6	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEE0210-DUP1)									
Source: 23E0613-01									
Electrical Conductivity	0.06	0.01	mmhos/cm		0.06			0.471	10
pH	7.7	1.0	units		7.7			0.130	10
Electrical Conductivity umhos	63.6	10.0	umhos/cm		63.9			0.471	10
Duplicate (BEE0210-DUP2)									
Source: 23E0763-01									
Electrical Conductivity	0.05	0.01	mmhos/cm		0.05			0.00	10
pH	7.5	1.0	units		7.5			0.134	10
Electrical Conductivity umhos	53.4	10.0	umhos/cm		53.4			0.00	10
Reference (BEE0210-SRM1)									
Electrical Conductivity	565		umhos/cm		538.0	105	90-110		
Reference (BEE0210-SRM2)									
pH	4.0		units		7.790	51.7	.7163-101.28		
Reference (BEE0210-SRM3)									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
Reference (BEE0210-SRM4)									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
Reference (BEE0210-SRM5)									
Electrical Conductivity	1060		umhos/cm		1000	106	90-110		

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Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEE0210 (Continued)									
Reference (BEE0210-SRM5)									
Electrical Conductivity umhos	1060		umhos/cm	1000	106	90-110			
Reference (BEE0210-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEE0210-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEE0210-SRM8)									
pH	7.8		units	4.000	196	97.5-102.5			

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Quality Control
(Continued)

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

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Ranch: Mattos Bros. & Mattos 4

Received: 05/09/2023 7:50
Reported: 05/30/2023 12:00

Quality Control
(Continued)

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

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05/09/23 07:50

23E0697

WATER WORK REQUEST

Acct No.	24349	Cons.	8
----------	-------	-------	---

Purchase Order No. _____ Results Needed By _____

Client **Roxey J Avila**
 Address **1000 Rankin Ave** **740 S. Kozarjan**
 City, State, Zip **Tulare, CA 93274**
 Phone **(559) 786-4683** Fax _____
 Cell/Email **goroxey@yahoo.com**

Copy to _____

Requested by **Roxey**Ranch **MATTOS BROS.** **2**Date sampled **5-8-23**Sampled by **Justin**

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

DESCRIPTION OF SAMPLES

1.	Sampled From:	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. canal	canal	5-8-23	8:30A	18.1	4.60/34
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	Josie Rivera	HDSI	5/8/23 9:30AM	5/8/23 10:42AM
Second	YR	DU	5/8/23 10:42AM	
Third				
Fourth	AK	OJ	5/8 09:50	

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 parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Shipping

Sampling Hrs	Miles	Consulting	\$	In
			\$	Out
Amt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg update 2022



05/09/23 07:50

23E0697

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



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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23F1181-01	P-1	Ag Water	Roxey		06/12/2023 13:52
23F1181-02	P-2	Ag Water	Roxey		06/12/2023 13:47

Default Cooler Temperature on Receipt °C: 22.0
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Sample Results

Sample: P-1
23F1181-01 (Water)

Sampled: 6/12/2023 13:52

Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.89	mmhos/cm	0.01	1		06/14/23 13:10	SM 2510 B		BEF0569
Electrical Conductivity umhos	893	umhos/cm	10.0	1		06/14/23 13:10	SM 2510 B		BEF0569
Ammonia (as N)	ND	mg/L	0.00	1		06/12/23 13:52	Field		BEF0496
Nitrate Nitrogen as NO3N	46.8	mg/L	0.1	1	10	06/13/23 21:53	EPA 300.0		BEF0452
pH	7.9	units	1.0	1		06/14/23 13:10	SM 4500-H+	H	BEF0569
Temperature	25.0	°C	0.0	1		06/14/23 13:10	SM 2510 B		BEF0569

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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Sample Results
(Continued)

Sample: P-2
23F1181-02 (Water)

Sampled: 6/12/2023 13:47

Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.62	mmhos/cm	0.01	1		06/14/23 13:11	SM 2510 B		BEF0569
Electrical Conductivity umhos	618	umhos/cm	10.0	1		06/14/23 13:11	SM 2510 B		BEF0569
Ammonia (as N)	ND	mg/L	0.00	1		06/12/23 13:47	Field		BEF0496
Nitrate Nitrogen as NO3N	30.6	mg/L	0.1	1	10	06/13/23 22:13	EPA 300.0		BEF0452
pH	8.1	units	1.0	1		06/14/23 13:11	SM 4500-H+	H	BEF0569
Temperature	25.0	°C	0.0	1		06/14/23 13:11	SM 2510 B		BEF0569

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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEF0452									
Blank (BEF0452-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 6/13/2023				
Blank (BEF0452-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 6/13/2023				
LCS (BEF0452-BS1)									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000		104	90-110		
Duplicate (BEF0452-DUP1)									
Nitrate Nitrogen as NO3N	1.4	0.1	mg/L	1.4	Prepared: 6/13/2023 Analyzed: 6/14/2023			0.00	10
Matrix Spike (BEF0452-MS1)									
Nitrate Nitrogen as NO3N	6.6	0.1	mg/L	5.000	1.4	104	90-110		
Reference (BEF0452-SRM1)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Reference (BEF0452-SRM2)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		

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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEF0569									
Blank (BEF0569-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEF0569-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.9	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEF0569-BLK3)									
pH	5.8	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEF0569-DUP1)									
Source: 23F1181-01									
Electrical Conductivity	0.89	0.01	mmhos/cm		0.89			0.427	10
pH	7.9	1.0	units		7.9			0.380	10
Electrical Conductivity umhos	889	10.0	umhos/cm		893			0.427	10
Duplicate (BEF0569-DUP2)									
Source: 23F1311-01									
Electrical Conductivity	0.04	0.01	mmhos/cm		0.04			0.964	10
pH	7.6	1.0	units		7.6			0.262	10
Electrical Conductivity umhos	41.3	10.0	umhos/cm		41.7			0.964	10
Reference (BEF0569-SRM1)									
Electrical Conductivity	566		umhos/cm		538.0	105	90-110		
Reference (BEF0569-SRM2)									
pH	7.9		units		7.790	101	.7163-101.28		
Reference (BEF0569-SRM3)									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
Reference (BEF0569-SRM4)									
Electrical Conductivity	1050		umhos/cm		1000	105	90-110		
Electrical Conductivity umhos	1050		umhos/cm		1000	105	90-110		
Reference (BEF0569-SRM5)									
Electrical Conductivity	1040		umhos/cm		1000	104	90-110		

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

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

Received: 06/13/2023 6:57
Reported: 06/15/2023 08:18

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEF0569 (Continued)									
Reference (BEF0569-SRM5)									
Electrical Conductivity umhos	1040		umhos/cm	1000	104	90-110			
Reference (BEF0569-SRM6)									
pH	4.1		units	4.000	102	97.5-102.5			
Reference (BEF0569-SRM7)									
pH	4.1		units	4.000	102	97.5-102.5			
Reference (BEF0569-SRM8)									
pH	4.0		units	4.000	101	97.5-102.5			

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06/13/23 06:57

23F1131

EPS

WATER WORK REQUEST

Acct No.

24349

Cons.

8

Purchase Order No.

Results Needed By

Client

Roxey J Avila

Address 740 S. Kazarian Street

City, State, Zip Tulare, CA 93274

Phone (559) 786-4683 Fax

Cell/Email goroxey@yahoo.com

Copy to

Requested by

Roxey

Ranch

MATTOS BROS.

Date sampled

6-12-23

Sampled by

Roxey

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

DESCRIPTION OF SAMPLES

1. *P-1* Sampled From:
2. *P-2* Sampled From:
3. Sampled From:
4. Sampled From:
5. Sampled From:
6. Sampled From:
7. Sampled From:
8. Sampled From:
9. Sampled From:
10. Sampled From:

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

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<i>Roxey Avila</i>			<i>6/12/23 2:14pm</i>
Second	<i>MM</i>	OLI	<i>6/12/23 2:14pm</i>	
Third		OLI	<i>6/13/23 6:57</i>	
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 parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:**Shipping**

Sampling Hrs	Miles	Consulting	\$	In
				Out
Amt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg:update 2022



06/13/23 06:57

23F1181

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 HNO₃ or H₂SO₄ 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 ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	* pH Value										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
Special	1 L unpreserved (BOD) (Purple) Plastic										
	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 ₂ S ₂ O ₃ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO ₃ (Red) Plastic										
	250 mL H ₂ SO ₄ (Yellow) Plastic										
	500 mL HNO ₃ (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO ₃ (Red)										
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)										
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
	40mL VOA, H ₃ PO ₄ (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H ₂ SO ₄ (Yellow)										
	250 mL AG Na ₂ S ₂ O ₃ (Green)										
	250 mL AG Na ₂ S ₂ O ₃ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H ₂ SO ₄ (Yellow)										
Special	1 L AG Na ₂ S ₂ O ₃ (Green)										
	1 L AG HCl (Blue)										
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										

Other:

Other:



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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G0908-01	P-4	Ag Water	Joe		07/12/2023 10:00
23G0908-02	P-5	Ag Water	Joe		07/12/2023 10:10

Default Cooler Temperature on Receipt °C: 10.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Sample Results

Sample: P-4
23G0908-01 (Water)

Sampled: 7/12/2023 10:00

Sampled By: Joe

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.26	mmhos/cm	0.01	1		07/20/23 13:40	SM 2510 B		BEG0400
Electrical Conductivity umhos	258	umhos/cm	10.0	1		07/20/23 13:40	SM 2510 B		BEG0400
Ammonia (as N)	ND	mg/L	0.00	1		07/12/23 10:00	Field		BEG0367
Nitrate Nitrogen as NO3N	1.4	mg/L	0.1	1	10	07/13/23 15:39	EPA 300.0		BEG0362
pH	8.5	units	1.0	1		07/20/23 13:40	SM 4500-H+	H	BEG0400
Temperature	25.0	°C	0.0	1		07/20/23 13:40	SM 2510 B		BEG0400

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Sample Results
(Continued)

Sample: P-5
23G0908-02 (Water)

Sampled: 7/12/2023 10:10

Sampled By: Joe

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.28	mmhos/cm	0.01	1		07/20/23 13:42	SM 2510 B		BEG0400
Electrical Conductivity umhos	284	umhos/cm	10.0	1		07/20/23 13:42	SM 2510 B		BEG0400
Ammonia (as N)	ND	mg/L	0.00	1		07/12/23 10:10	Field		BEG0367
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	07/13/23 16:00	EPA 300.0		BEG0362
pH	9.0	units	1.0	1		07/20/23 13:42	SM 4500-H+	H	BEG0400
Temperature	25.0	°C	0.0	1		07/20/23 13:42	SM 2510 B		BEG0400

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0362									
Blank (BEG0362-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/13/2023				
Blank (BEG0362-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/13/2023				
Blank (BEG0362-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/13/2023 Analyzed: 7/14/2023				
LCS (BEG0362-BS1)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.0	90-110			
LCS (BEG0362-BS2)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.3	90-110			
Duplicate (BEG0362-DUP1)									
Nitrate Nitrogen as NO3N	1.4	0.1	mg/L	1.4			0.510	10	
Duplicate (BEG0362-DUP2)									
Nitrate Nitrogen as NO3N	20.8	0.1	mg/L	20.5			1.45	10	
Matrix Spike (BEG0362-MS1)									
Nitrate Nitrogen as NO3N	6.3	0.1	mg/L	5.000	1.4	99.3	90-110		
Matrix Spike (BEG0362-MS2)									
Nitrate Nitrogen as NO3N	25.7	0.1	mg/L	5.000	20.5	103	90-110		
Reference (BEG0362-SRM1)									
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.3	90-110		
Reference (BEG0362-SRM2)									
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.5	90-110		
Reference (BEG0362-SRM3)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		99.3	90-110		

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740 S. Kazarian St.
Tulare, CA 93274

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0400									
Blank (BEG0400-BLK1)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEG0400-BLK2)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.9	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Blank (BEG0400-BLK3)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.0	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEG0400-DUP1)									
Source: 23G0764-07									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	1.78	0.01	mmhos/cm		1.78		0.349	10	
pH	7.4	1.0	units		7.4		0.135	10	
Electrical Conductivity umhos	1780	10.0	umhos/cm		1780		0.349	10	
Duplicate (BEG0400-DUP2)									
Source: 23G0908-02									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
pH	9.0	1.0	units		9.0		0.223	10	
Electrical Conductivity	0.28	0.01	mmhos/cm		0.28		0.247	10	
Electrical Conductivity umhos	283	10.0	umhos/cm		284		0.247	10	
Reference (BEG0400-SRM1)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	564	umhos/cm	538.0		105	90-110			
Reference (BEG0400-SRM2)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
pH	7.9	units	7.790		101	.7163-101.28			
Reference (BEG0400-SRM3)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	1060	umhos/cm	1000		106	90-110			
Electrical Conductivity umhos	1060	umhos/cm	1000		106	90-110			
Reference (BEG0400-SRM4)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	1050	umhos/cm	1000		105	90-110			
Electrical Conductivity umhos	1050	umhos/cm	1000		105	90-110			
Reference (BEG0400-SRM5)									
Prepared: 7/13/2023 Analyzed: 7/20/2023									
Electrical Conductivity	1060	umhos/cm	1000		106	90-110			

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

Account# 00-0024349
Account Manager: Ben Nydam
Submitted By: Roxey
Ranch: Mattos Bros.

Received: 07/13/2023 7:48
Reported: 07/24/2023 14:56

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0400 (Continued)									
Reference (BEG0400-SRM5)									
Electrical Conductivity umhos	1060		umhos/cm	1000	106	90-110			
Reference (BEG0400-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEG0400-SRM7)									
pH	4.1		units	4.000	102	97.5-102.5			
Reference (BEG0400-SRM8)									
pH	4.0		units	4.000	101	97.5-102.5			

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PRE



07/13/23 07:48

23G0908

MM

WATER WORK REQUEST

Acct No.	24349	Cons.	8
----------	-------	-------	---

Purchase Order No. _____ Results Needed By _____

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

Copy to _____

Requested by **Roxey**Ranch **MATTOS BROS.**Date sampled 7-12-23Sampled by Jel.

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

DESCRIPTION OF SAMPLES

- | | |
|---------------|---------------|
| 1. <u>P-4</u> | Sampled From: |
| 2. <u>P-5</u> | Sampled From: |
| 3. | Sampled From: |
| 4. | Sampled From: |
| 5. | Sampled From: |
| 6. | Sampled From: |
| 7. | Sampled From: |
| 8. | Sampled From: |
| 9. | Sampled From: |
| 10. | Sampled From: |

 IR Thermometer SN: 221511274
 Correction Factor: 0°C
 Calibration Due: 9/26/2023
 Location: Hanford

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

() Other	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
	<u>7/12/23</u>	<u>10:10 AM</u>	<u>< D1</u>	<u>10.3 / 1.3</u>
	<u>7/12/23</u>	<u>10:10 AM</u>	<u>< D1</u>	<u>11.8</u>

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Roxey</u>			<u>07/12/23 11:10 AM</u>
Second	<u>Upon arrival</u>	DU	<u>07/12/23 11:10 AM</u>	
Third	<u>MM</u>	DLI	<u>7/13 7:48</u>	
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 parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Shipping			
Sampling Hrs	Miles	Consulting	\$ _____ In
_____	_____	_____	\$ _____ Out
Amt Paid	Rec By	Check No.	Date

Signature _____

Sample received in cooler with ice?

[] Yes [] No

mg:update 2022



07/13/23 07:48

23G0908

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>									
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest				
Container: Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>				
Samples Preserved with HNO ₃ or H ₂ SO ₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory									
Type of Container(s) Received	Sample Number								
	1	2	3	4	5	6	7	8	9
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)									
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO ₃ (Red) Plastic								
	* pH Value								
	250 mL H ₂ SO ₄ (Yellow) Plastic								
	* pH Value								
	500 mL unpreserved (White) Plastic								
1 L unpreserved (White) Plastic									
1 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 ₂ S ₂ O ₃ (Green)								
	250 mL unpreserved (White) Plastic								
	250 mL HNO ₃ (Red) Plastic								
	250 mL H ₂ SO ₄ (Yellow) Plastic								
	500 mL HNO ₃ (Red)								
	1 L unpreserved (White) Plastic								
	1 L unpreserved (BOD) (Purple) Plastic								
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)								
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)								
	40mL AG VOA unpreserved (White) (Set of 3)								
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)								
	40mL VOA, H ₃ PO ₄ (Set of 3)								
	40 mL VOA, HCl (Blue) (Set of 3)								
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)								
Glass	250 mL AG unpreserved (White)								
	250 mL AG H ₂ SO ₄ (Yellow)								
	250 mL AG Na ₂ S ₂ O ₃ (Green)								
	250 mL AG Na ₂ S ₂ O ₃ + MCAA								
	500 mL glass unpreserved (White)								
	500 mL AG HCl (Blue)								
	1 L AG unpreserved (White)								
Special	1 L AG H ₂ SO ₄ (Yellow)								
	1 L AG Na ₂ S ₂ O ₃ (Green)								
	1 L AG HCl (Blue)								
	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:									

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816-3889</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number: X155-X060-X006

<u>Mattos #2 (Back Road Ranch</u>	<u>22901 Rd. 28</u>	<u>Tulare</u>	<u>93274</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Dates Hauled: 5/15/2023Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 96 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow DairiesMethod used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

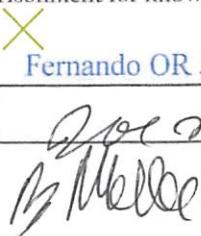
 Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Fernando OR Joe MattosDate: 5/15/2023Hauler's Signature: Joe MattosDate: 5/15/2023

ATTACHMENT D

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

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816-3589</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number: X155-X060-X006

<u>Mattos #2 (Back Road Ranch 22901 Rd. 28</u>	<u>Tulare</u>	<u>93274</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code

Dates Hauled: 5-11-2023 Thr 5-12-2023**Amount Hauled:**

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 131

Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

Method used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Fernando OR Joe Mattos

Date: 5-12-2023

Hauler's Signature: Joe Mattos

Date: 5-12-2023

JM

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816388</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:
Mattos #2 (Back Road Ranch 22901 Rd. 28 X155-X060-X006
Tulare 93274 559-280-6648

<u>Name</u>	<u>Number and Street</u>	<u>City</u>	<u>Zip Code</u>	<u>Phone Number</u>
<u>9-26-2023</u>				

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 450 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow DairiesMethod used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

 Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Fernando OR Joe MattosDate: 9-26-2023Hauler's Signature: Joe mattosDate: 9-26-2023

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816-3289</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				X155-X060-X006		
<u>Mattos #2 (Back Road Ranch 22901 Rd. 28</u>				<u>Tulare</u>	<u>93274</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number		

Dates Hauled: 10-10-2023Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 780 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035

Existing Milk Cow Dairies

Method used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Fernando OR Joe Mattos

Date: 10-10-2023

Hauler's Signature: Joe Mattos

Date: 10-10-2023

B Mattos

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816-3500</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				X155-X060-X006		
<u>Mattos #2 (Back Road Ranch 22901 Rd. 28</u>				<u>Tulare</u>	<u>93274</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number		
Dates Hauled:	<u>11-21-2023 THR 11-23-2023</u>					

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 940 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035

Existing Milk Cow Dairies

Method used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

 Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature:

Fernando OR Joe MattosDate: 11-23-2023

Hauler's Signature:

Joe MattosDate: 11-23-2023Fernando OR Joe Mattos

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>816-3889</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) Dairy Farmer (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:	<u>X155-X030-X021</u>		
<u>Mattos #3</u>	<u>3912 Ave. 232</u>	<u>Tulare</u>	<u>93274</u>
Name	Number and Street	City	Zip Code

Dates Hauled: 5/8/2023 Thr 5/10/2023Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1,920 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow DairiesMethod used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

 Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Fernando OR Joe MattosDate: 5-10-2023Hauler's Signature: Joe MattosDate: 5-10-2023R. Melo

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

Instructions:

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

Operator Information:Name of Operator: Fernando OR Joe MattosName of Dairy Facility: Mattos Brothers Dairy

Facility Address:	<u>4017 Kansas Ave.</u>	<u>Hanford</u>	<u>93230</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Joe Mattos</u>	<u>559-280-6648</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:Name of Hauling Company/Person: Mello Spreading

Address of Hauling Company/Person:	<u>4032 W. Inyo</u>	<u>Tulare</u>	<u>93274</u>
	Number and Street	City	Zip Code
Contact Person:	<u>Brian</u>	<u>559-684-8128</u>	<u>8/16/2023</u>
	Name	Phone Number	

Destination Information:Composting Facility / Broker / Farmer / Other (identify) (please circle one)

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

<u>Joe Mattos</u>	<u>4017 Kansa Ave.</u>	<u>Hanford</u>	<u>93230</u>	<u>559-280-6648</u>
Name	Number and Street	City	Zip Code	Phone Number

<u>Manure/Process Wastewater Destination Address or Assessor's Parcel Number:</u>			<u>X155-X030-X021</u>
<u>Mattos #3</u>	<u>3912 Ave. 232</u>	<u>Tulare</u>	<u>93274</u>
Name	Number and Street	City	Zip Code

Dates Hauled: 9-20-2023 Thru 9-23-2023Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 3,100 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): _____

Manure Density (if amount reported in cubic yards): _____

Waste Discharge Requirements General Order No. R5-2007-0035

Existing Milk Cow Dairies

Method used to determine amount of manure: 10 Tons X,s representative loads

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

(Operator shall provide initials here to acknowledge this requirement).

Certification:

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

X

Operator's Signature: Fernando OR Joe Mattos

Date: 9-23-2024

X

Hauler's Signature: Joe Mattos

Date: 9-23-2024

B Nello