

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:** F&S Brasil

Physical address of dairy:

14315 Kent 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: 10/30/1989Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X028-X230-X034-XXXX X028-X230-X035-XXXX

B. OPERATORS**F&S Brasil Dairy**

Operator name: <u>F&S Brasil Dairy</u>	Telephone no.: <u>(209) 629-6305</u>		
	Landline Cellular		
6524 Perrin RD Mailing Address Number and Street	Manteca City	CA State	95357 Zip Code

This operator is responsible for paying permit fees.**C. OWNERS****Philip Verwey Farms Dairy #5**

Legal owner name: <u>Philip Verwey Farms Dairy #5</u>	Telephone no.: <u>(559) 908-0836</u>		
	Landline Cellular		
19765 13th AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	205	415	455	0	0
Number under roof	1,475	0	0	0	0	0
Maximum number	1,510	220	430	480	0	0
Average number	1,475	205	415	455	0	0
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 50,422.87 tons per reporting period

Total nitrogen from manure: 625,977.79 lbs per reporting period

After ammonia losses (30% loss applied): 438,184.45 lbs per reporting period

Total phosphorus from manure: 104,738.77 lbs per reporting period

Total potassium from manure: 287,321.48 lbs per reporting period

Total salt from manure: 741,643.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 59,417,684 gallons

Total nitrogen generated: 166,501.91 lbs

$$\begin{aligned}
 & 59,417,684 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 59,417,684 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 56,146.17 lbs

Total potassium generated: 354,388.77 lbs

Total salt generated: 1,640,747.48 lbs

D. FRESH WATER SOURCES

Source Description	Type
Barn East	Ground water
Barn West	Ground water
D-1	Ground water
D-2	Ground water
P-1	Ground water

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Source Description	Type
P-2	Ground water
P-3	Ground water
P-4	Ground water
P-5	Ground water
People's Ditch- Hanford	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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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
F-1	35	35	1	process wastewater	X028-X230-X034-XXXX
F-10	142	142	0	none	X028-X230-X035-XXXX
F-2	147	147	1	process wastewater	X028-X230-X034-XXXX
F-3	149	149	1	process wastewater	X028-X230-X031-XXXX X028-X230-X032-XXXX X028-X230-X033-XXXX
F-4	149	149	0	none	X028-X230-X031-XXXX X028-X230-X032-XXXX X028-X230-X033-XXXX
F-5	100	100	1	process wastewater	X028-X230-X031-XXXX
F-6	101	101	1	process wastewater	X028-X230-X037-XXXX
F-7	86	86	1	process wastewater	X028-X230-X005-XXXX X028-X230-X036-XXXX X028-X230-X037-XXXX
F-8	90	90	1	process wastewater	X028-X230-X005-XXXX X028-X230-X036-XXXX
F-9	157	157	0	none	X028-X230-X035-XXXX
Totals for areas that were used for application	708	708	7		
Totals for areas that were not used for application	448	448	0		
Land application area totals	1,156	1,156	7		

B. CROPS AND HARVESTS

F-1

Field name: F-1

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F-1

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 35 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 (%)
11/02/2023	811.00 ton	Dry-weight		75.9	17,700.00	5,000.00	31,600.00		14.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	23.17	197.68	55.84	352.93	1,664.13

F-2

Field name: F-2

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 147 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 (%)
11/02/2023	3,510.00 ton	Dry-weight		76.2	18,900.00	4,600.00	31,400.00		14.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	23.88	214.81	52.28	356.88	1,648.03

F-3

Field name: F-3

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F-3

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 149 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 (%)
11/02/2023	3,442.00 ton	Dry-weight		76.6	19,800.00	5,000.00	33,500.00		14.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	23.10	214.06	54.06	362.17	1,600.04

F-5

Field name: F-5

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 100 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 (%)
11/03/2023	2,353.00 ton	Dry-weight		72.0	12,700.00	2,100.00	18,100.00		9.56

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	23.53	167.35	27.67	238.50	1,259.70

F-6

Field name: F-6

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F-6

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 101 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 (%)
11/03/2023	2,469.00 <i>ton</i>	Dry-weight		71.7	13,100.00	2,200.00	18,200.00		10.50
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 180.00 35.00 342.50				1,500.00			
Total actual harvest content		24.45 181.25 30.44 251.82				1,452.80			

F-7Field name: F-7

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 86 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 (%)
11/03/2023	2,069.00 <i>ton</i>	Dry-weight		71.7	11,800.00	2,000.00	17,500.00		9.39
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 180.00 35.00 342.50				1,500.00			
Total actual harvest content		24.06 160.68 27.23 238.30				1,278.63			

F-8Field name: F-8

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F-8

06/05/2023: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 90 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 (%)
11/03/2023	2,088.00 <i>ton</i>	Dry-weight		71.3	11,900.00	1,900.00	18,400.00		9.15

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	180.00	35.00	342.50	1,500.00
Total actual harvest content	23.20	158.47	25.30	245.03	1,218.49

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NUTRIENT BUDGET

A. LAND APPLICATIONS

F-1 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-1

Crop: Sorghum-Sudangrass, forage Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	79.76	25.42	174.97	613.16
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	46.22
Application event totals		79.76	25.42	174.97	659.38
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.94
Application event totals		0.00	0.00	0.00	48.94
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	87.01	27.73	190.88	668.90
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.76
Application event totals		87.01	27.73	190.88	719.66
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	73.27	23.36	160.74	563.28
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	47.99
Application event totals		73.27	23.36	160.74	611.27

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F-1 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	52.57	5,512,059.00 gal
Application event totals		0.00	0.00	0.00	52.57	
10/05/2023	Surface (irrigation)	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
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	46.22	4,846,810.00 gal
Application event totals		0.00	0.00	0.00	46.22	

F-2 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-2

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.01	27.73	190.88	668.90	4,789,789.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	46.22	20,356,604.00 gal
Application event totals		87.01	27.73	190.88	715.12	
06/28/2023	Surface (irrigation)	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	79.76	25.42	174.97	613.16	4,390,640.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.02	21,145,810.00 gal
Application event totals		79.76	25.42	174.97	661.17	

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F-2 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	47.01	20,702,215.00 gal
Application event totals		0.00	0.00	0.00	47.01	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	100.56	44.41	231.89	1,671.79	5,588,087.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.94	21,554,051.00 gal
Application event totals		100.56	44.41	231.89	1,720.74	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	46.22	20,356,604.00 gal
Application event totals		0.00	0.00	0.00	46.22	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	45.32	19,957,455.00 gal
Application event totals		0.00	0.00	0.00	45.32	

F-3 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-3

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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F-3 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	94.10	29.99	206.43	723.38	5,250,377.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.04	21,442,724.00 gal
Application event totals		94.10	29.99	206.43	771.42	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	47.61	21,251,883.00 gal
Application event totals		0.00	0.00	0.00	47.61	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	94.26	30.05	206.79	724.64	5,259,536.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.05	21,447,304.00 gal
Application event totals		94.26	30.05	206.79	772.69	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	47.13	21,038,144.00 gal
Application event totals		0.00	0.00	0.00	47.13	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	71.83	31.72	165.64	1,194.14	4,045,797.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	44.89	20,038,144.00 gal
Application event totals		71.83	31.72	165.64	1,239.03	

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F-3 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	45.32	20,228,985.00 gal
Application event totals		0.00	0.00	0.00	45.32	

F-5 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-5

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.34	26.88	185.02	648.37	3,158,360.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.23	14,748,740.00 gal
Application event totals		84.34	26.88	185.02	697.60	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.35	15,083,491.00 gal
Application event totals		0.00	0.00	0.00	50.35	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.12	14.11	87.38	530.78	1,300,710.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.86	14,938,001.00 gal
Application event totals		70.12	14.11	87.38	580.64	

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F-5 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	58.04	25.63	133.84	964.86	2,193,962.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.52	14,535,000.00 gal
Application event totals		58.04	25.63	133.84	1,013.38	
09/01/2023	Surface (irrigation)	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
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.52	14,535,001.00 gal
Application event totals		0.00	0.00	0.00	48.52	
10/03/2023	Surface (irrigation)	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
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.43	14,809,246.00 gal
Application event totals		0.00	0.00	0.00	49.43	

F-6 - 06/05/2023: Sorghum-Sudangrass, forage

Field name:	F-6	Plant date:	06/05/2023			
Crop:	Sorghum-Sudangrass, forage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.65	27.30	187.89	658.43	3,239,434.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	51.58	15,606,227.00 gal
Application event totals		85.65	27.30	187.89	710.01	

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F-6 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	51.68	15,636,227.00 gal
Application event totals		0.00	0.00	0.00	51.68	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	91.79	18.47	114.38	694.82	1,719,717.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.04	15,140,473.00 gal
Application event totals		91.79	18.47	114.38	744.86	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	50.76	16.18	111.35	390.19	1,919,717.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	51.07	15,453,492.00 gal
Application event totals		50.76	16.18	111.35	441.26	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.04	14,535,001.00 gal
Application event totals		0.00	0.00	0.00	48.04	
10/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.03	14,835,002.00 gal
Application event totals		0.00	0.00	0.00	49.03	

F-7 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-7

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

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F-7 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	79.76	25.42	174.97	613.16	2,568,674.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.76	13,076,885.00 gal
Application event totals		79.76	25.42	174.97	663.91	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.94	12,609,853.00 gal
Application event totals		0.00	0.00	0.00	48.94	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	63.21	20.15	138.67	485.93	2,035,705.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.04	12,376,337.00 gal
Application event totals		63.21	20.15	138.67	533.97	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	46.22	11,909,306.00 gal
Application event totals		0.00	0.00	0.00	46.22	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.59	27.20	142.02	1,023.87	2,002,190.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.63	12,786,337.00 gal
Application event totals		61.59	27.20	142.02	1,073.50	

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F-7 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	45.06	11,609,306.00 gal
Application event totals		0.00	0.00	0.00	45.06	

F-8 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-8

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.74	25.74	177.13	620.71	2,721,278.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	49.85	13,440,735.00 gal
Application event totals		80.74	25.74	177.13	670.56	
06/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.76	13,685,112.00 gal
Application event totals		0.00	0.00	0.00	50.76	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.46	24.37	167.73	587.78	2,576,901.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	48.04	12,951,981.00 gal
Application event totals		76.46	24.37	167.73	635.82	

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F-8 - 06/05/2023: Sorghum-Sudangrass, forage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	50.43	13,596,358.00 gal
Application event totals		0.00	0.00	0.00	50.43	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	44.40	19.61	102.39	738.17	1,510,639.00 gal
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	47.13	12,707,604.00 gal
Application event totals		44.40	19.61	102.39	785.30	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
People's Ditch- Hanford	Surface water	0.00	0.00	0.00	45.32	12,218,850.00 gal
Application event totals		0.00	0.00	0.00	45.32	

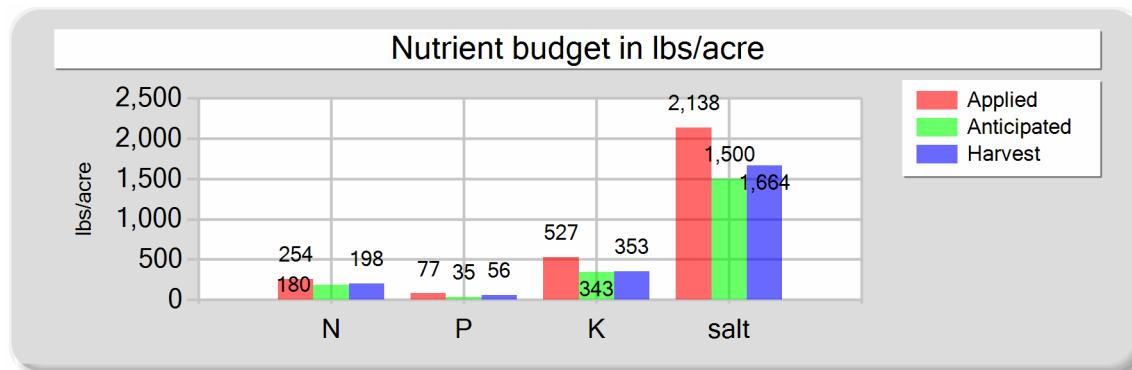
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B. NUTRIENT BUDGET

F-1 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-1 Crop: Sorghum-Sudangrass, forage 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	0.00	0.00	0.00	0.00
Process wastewater	240.04	76.51	526.60	1,845.34
Fresh water	0.00	0.00	0.00	292.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	254.04	76.51	526.60	2,138.05
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	197.68	55.84	352.93	1,664.13
Nutrient balance	56.36	20.67	173.67	473.92
Applied to removed ratio	1.29	1.37	1.49	1.28

Fresh water applied
30,691,559.00 gallons
1,130.27 acre-inches
32.29 inches/acre
Process wastewater applied
3,146,171.00 gallons
115.86 acre-inches
3.31 inches/acre
Total harvests for the crop
1 harvests

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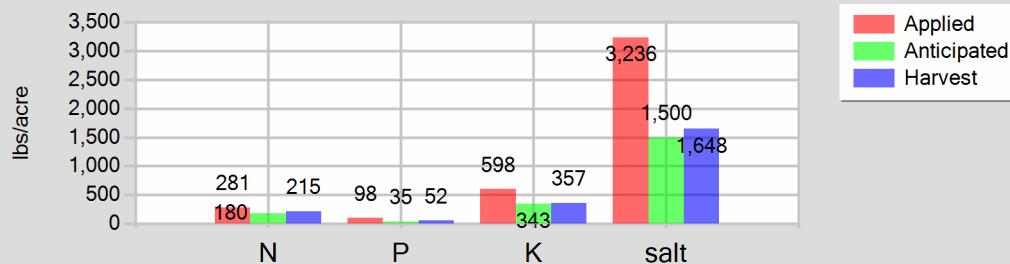
F-2 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-2

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023

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	124,072,739.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,569.18 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.08 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	267.33	97.57	597.75	2,953.85	Process wastewater applied
Fresh water	0.00	0.00	0.00	281.74	14,768,516.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	543.87 acre-inches
Total nutrients applied	281.33	97.57	597.75	3,235.59	3.70 inches/acre
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00	Total harvests for the crop
Actual crop nutrient removal	214.81	52.28	356.88	1,648.03	1 harvests
Nutrient balance	66.52	45.29	240.87	1,587.56	
Applied to removed ratio	1.31	1.87	1.67	1.96	

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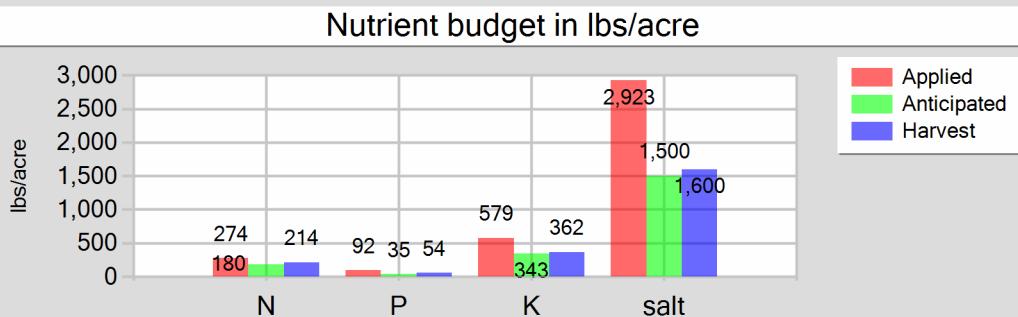
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F-3 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-3

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	125,447,184.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,619.79 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.01 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	260.19	91.76	578.85	2,642.16	Process wastewater applied
Fresh water	0.00	0.00	0.00	281.04	14,555,710.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	536.04 acre-inches
Total nutrients applied	274.19	91.76	578.85	2,923.19	3.60 inches/acre
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00	Total harvests for the crop
Actual crop nutrient removal	214.06	54.06	362.17	1,600.04	1 harvests
Nutrient balance	60.13	37.71	216.68	1,323.15	
Applied to removed ratio	1.28	1.70	1.60	1.83	

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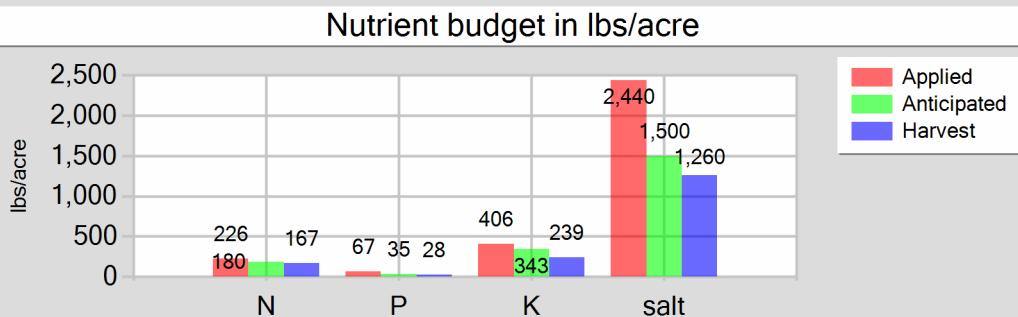
Reporting period 01/01/2023 to 12/31/2023.

F-5 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-5

Crop: Sorghum-Sudangrass, forage

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	0.00	0.00	0.00	0.00
Process wastewater	212.50	66.63	406.24	2,144.02
Fresh water	0.00	0.00	0.00	295.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	226.50	66.63	406.24	2,439.93
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	167.35	27.67	238.50	1,259.70
Nutrient balance	59.15	38.96	167.74	1,180.23
Applied to removed ratio	1.35	2.41	1.70	1.94

Fresh water applied

88,649,479.00 gallons
3,264.66 acre-inches
32.65 inches/acre

Process wastewater applied

6,653,032.00 gallons
245.01 acre-inches
2.45 inches/acre

Total harvests for the crop

1 harvests

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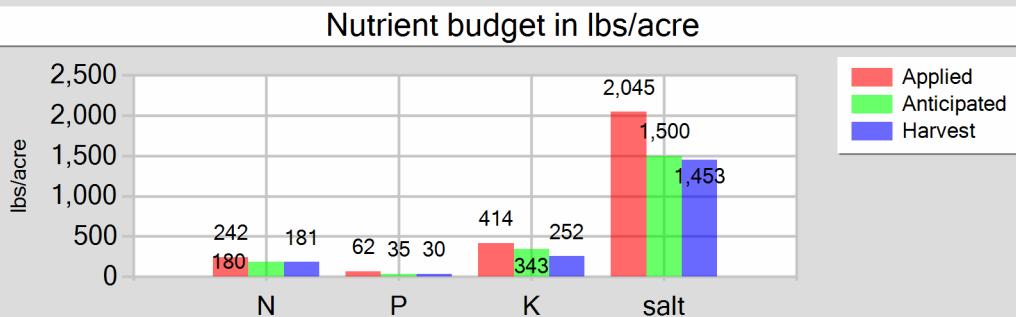
Reporting period 01/01/2023 to 12/31/2023.

F-6 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-6

Crop: Sorghum-Sudangrass, forage

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	0.00	0.00	0.00	0.00
Process wastewater	228.20	61.95	413.62	1,743.44
Fresh water	0.00	0.00	0.00	301.43
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	242.20	61.95	413.62	2,044.87
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	181.25	30.44	251.82	1,452.80
Nutrient balance	60.94	31.51	161.80	592.07
Applied to removed ratio	1.34	2.04	1.64	1.41

Fresh water applied

91,206,422.00 gallons
3,358.82 acre-inches
33.26 inches/acre

Process wastewater applied

6,878,868.00 gallons
253.33 acre-inches
2.51 inches/acre

Total harvests for the crop

1 harvests

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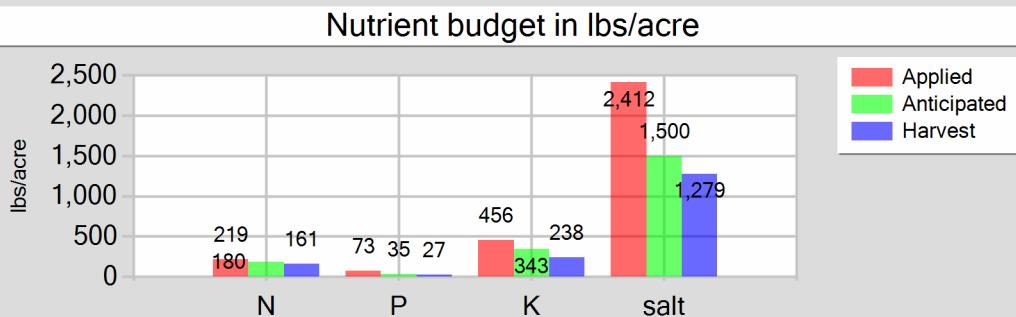
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F-7 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-7

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	74,368,024.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,738.72 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	31.85 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	204.56	72.77	455.66	2,122.96	Process wastewater applied
Fresh water	0.00	0.00	0.00	288.65	6,606,569.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	243.30 acre-inches
Total nutrients applied	218.56	72.77	455.66	2,411.61	2.83 inches/acre
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00	Total harvests for the crop
Actual crop nutrient removal	160.68	27.23	238.30	1,278.63	1 harvests
Nutrient balance	57.88	45.54	217.37	1,132.98	
Applied to removed ratio	1.36	2.67	1.91	1.89	

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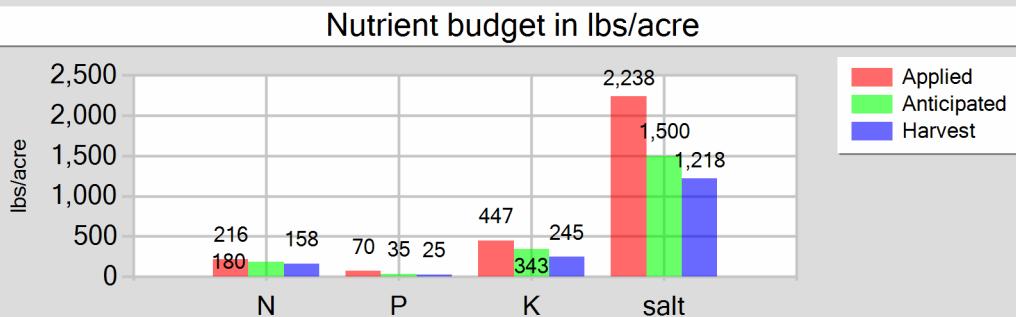
Reporting period 01/01/2023 to 12/31/2023.

F-8 - 06/05/2023: Sorghum-Sudangrass, forage

Field name: F-8

Crop: Sorghum-Sudangrass, forage

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	0.00	0.00	0.00	0.00
Process wastewater	201.60	69.72	447.25	1,946.66
Fresh water	0.00	0.00	0.00	291.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	215.60	69.72	447.25	2,238.19
Anticipated crop nutrient removal	180.00	35.00	342.50	1,500.00
Actual crop nutrient removal	158.47	25.30	245.03	1,218.49
Nutrient balance	57.14	44.42	202.23	1,019.70
Applied to removed ratio	1.36	2.76	1.83	1.84

Fresh water applied

78,600,640.00 gallons
2,894.59 acre-inches
32.16 inches/acre

Process wastewater applied

6,808,818.00 gallons
250.75 acre-inches
2.79 inches/acre

Total harvests for the crop

1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES****Manure**

Sample and source description: Manure

Sample date: 11/15/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 33.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,100.00	9,500.00	34,700.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 05/01/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 14.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,200.00	3,900.00	10,700.00							
DL	100.00	200.00	200.00							

Dry Manure

Sample and source description: Dry Manure

Sample date: 10/13/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 27.4 %

	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	26,600.00	9,600.00	26,800.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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Lagoon

Sample and source description: Lagoon

Sample date: 11/15/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	369.00	189.00	0.00	0.00	89.00	657.00								8,510.00	5,650
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 02/21/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	301.00	173.00	0.00	0.00	66.00	809.00								7,620.00	5,060
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 05/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	320.00	199.00	0.00	0.00	102.00	702.00								3,710.00	2,460
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 08/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	317.00	208.00	0.00	0.00	140.00	731.00								7,940.00	5,270
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

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

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	253.00	247.00	0.00	0.00	69.90	560.00								7,000.00	4,650
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

Barn West

Domestic Well

Sample description: Domestic Well

Sample date: 12/07/2023 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	4.00	1.00	211.00	440.00	40.00	0.30	25.00	985.00	660
DL	0.20	0.20	0.20	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

D-1

Domestic Well

Sample description: Domestic Well

Sample date: 12/07/2023 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	4.00	1.00	259.00	550.00	10.00	1.00	25.00	996.00	650
DL	0.20	0.20	0.20	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

People's Ditch- Hanford

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

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

People's Ditch- Hanford**People's Ditch - Hanford**

Sample description: People's Ditch - Hanford

Sample date: 07/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								31.00	40
DL	0.50		0.40								1.00	20

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES****F-1 - 06/05/2023: Sorghum-Sudangrass, forage****Milo**

Sample and source description: Milo

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	5,000.00	31,600.00		14.90
DL	500.00	200.00	200.00		0.05

F-2 - 06/05/2023: Sorghum-Sudangrass, forage

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

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

F-2 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,900.00	4,600.00	31,400.00		14.50
DL	500.00	200.00	200.00		0.05

F-3 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,800.00	5,000.00	33,500.00		14.80
DL	500.00	200.00	200.00		0.05

F-5 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,700.00	2,100.00	18,100.00		9.56
DL	500.00	200.00	200.00		0.05

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

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

F-6 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	2,200.00	18,200.00		10.50
DL	500.00	200.00	200.00		0.05

F-7 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	2,000.00	17,500.00		9.39
DL	500.00	200.00	200.00		0.05

F-8 - 06/05/2023: Sorghum-Sudangrass, forage

Milo

Sample and source description: Milo

Sample date: 11/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	1,900.00	18,400.00		9.15
DL	500.00	200.00	200.00		0.05

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

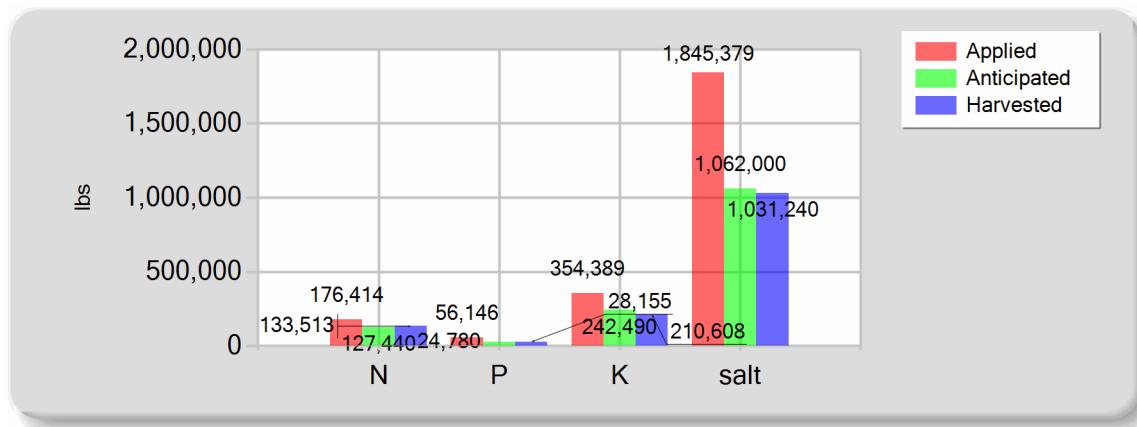
No subsurface (tile) drainage analyses entered.

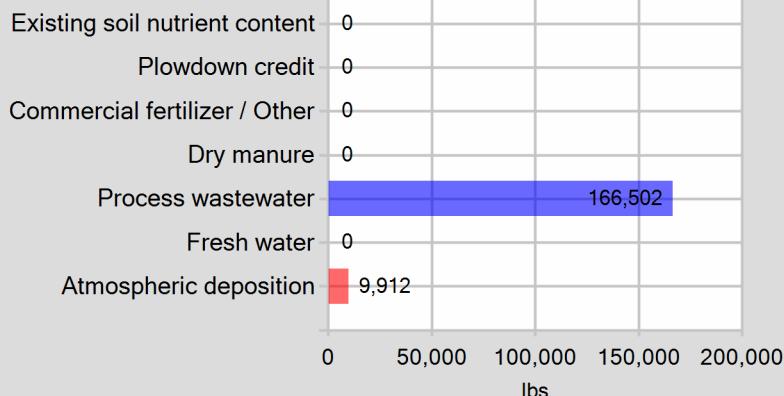
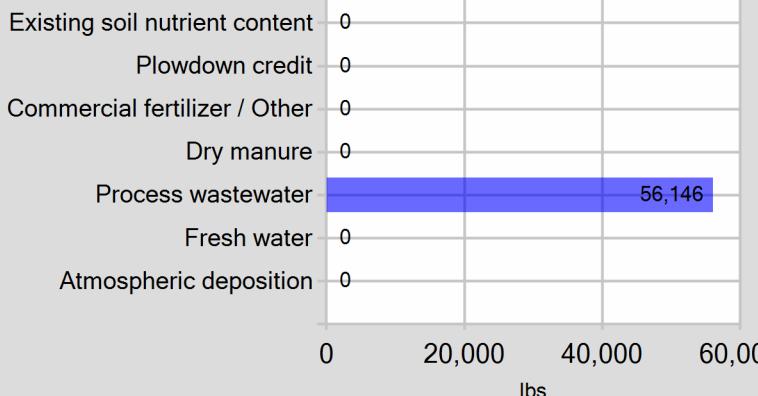
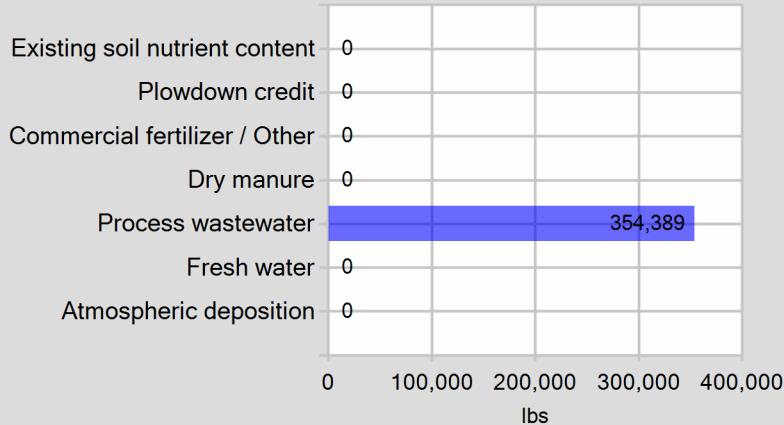
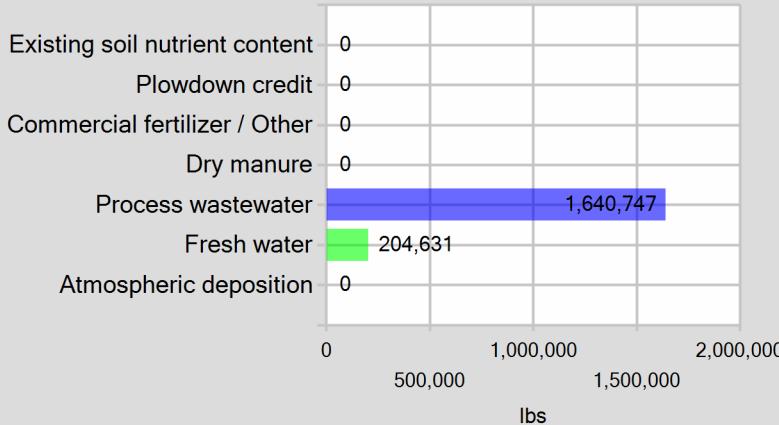
Annual Report - General Order No. R5-2007-0035

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	0.00	0.00	0.00	0.00
Process wastewater	166,501.91	56,146.17	354,388.77	1,640,747.48
Fresh water	0.00	0.00	0.00	204,631.43
Atmospheric deposition	9,912.00	0.00	0.00	0.00
Total nutrients applied	176,413.91	56,146.17	354,388.77	1,845,378.91
Anticipated crop nutrient removal	127,440.00	24,780.00	242,490.00	1,062,000.00
Actual crop nutrient removal	133,513.19	28,155.09	210,607.78	1,031,239.98
Nutrient balance	42,900.72	27,991.08	143,780.99	814,138.93
Applied to removed ratio	1.32	1.99	1.68	1.79

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**

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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

Wells P-1, P-2, P-3, P-4, P-5, D-2, Barn East were out of service in 2023.

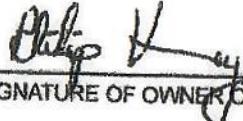
Fields 4, 9, and 10 were fallow in 2023.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Philip Verwey Farms Dairy #5

PRINT OR TYPE NAME

10-24-24

DATE



SIGNATURE OF OPERATOR OF FACILITY

F&S Brasil Dairy

PRINT OR TYPE NAME

6-27-24

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.

August 11, 2023

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2344656
Customer No. : 4019696
Reference : 3058

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

- | | | |
|-----------------|----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (1 page) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
People's Ditch - Hanford	07/18/2023	07/18/2023	VI 2344656-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-08-14

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

August 11, 2023

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : People's Ditch - Hanford
 Project : People's Ditch - Hanford

Lab No. : VI 2344656-001
 Customer No. : 4019696
 Reference : 3058
 Sampled On : July 18, 2023 at 12:45
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:11	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	13:53	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	Calc.	08/10/2023	17:11	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	13:53	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:11	lcr
Conductivity	31	1	umhos/cm		1		07/31/2023	14:51	amm	SM 4500-H+B	07/31/2023	17:48	amm
Solids, Total Dissolved (TDS)	40	20	mg/L		1		07/20/2023	16:15	ctl	SM 2540 C	07/21/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

August 11, 2023

Sentry Ag Service

Lab No. : VI 2344656
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344788-008)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	07/20/2023:207946CTL (STK2339578-001) (STK2339578-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 102% 0.4% 1.98%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	08/08/2023:208707STA (VI 2344654-002) (VI 2344644-003)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 91.3% 85.5% 85.3% 0.3% 82.8% 82.5% 0.3%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.7% 90.8% 92.7% 1.0%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.7% 90.8% 92.7% 1.0%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.



2344656

Laboratory Analysis Work Order

3058

SITE NAME: People's Ditch - HartfordBilling: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290LABORATORY: FT | FGL 4-19696Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
W2 EC, NO₃N, TDS, TN (Irr)
 W3 NH₄-N (Ammonium)
 W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 W6 NO₃N, NO₂ (Dom ILRP, Annually)
 W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
 P2 TN, P, K (Mid-season - Corn)
 P3 TN, TP, TK, Ash, %M (At Harvest)
 P4 TN, %M
 P5 % Moisture
 P6 NIR
 P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
 L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
 L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
 L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
 M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
 M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
 S2 S1 + CEC, CaCO₃, OM, C:N, TN
 S3 NO₃N, NH₄N
 S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	People's Ditch - Hartford	Canal	W2	7/18/23 12:45	Jeremy	—	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	MR D. K	SAS		7/18/23 3:17 pm
2 nd	SRO	FGL	7/18/23 1517	
3 rd	SRO	FGL		7/18/23 1730
4 th		GLS	7/18/23 1730	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: _____

ROI
5.3°CGLS
MC
1100

7/19/23

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 20° / 5.3°C / / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

- | | | | |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. VOAs checked for Headspace? | Yes | No | N/A |
| 6. Were sample custody seals intact? | Yes | No | N/A |
| 7. If required, was sample split for pH analysis? | Yes | No | |
| 8. Were all analyses within holding times at time of receipt? | Yes | No | |
| 9. Verify sample date, time and sampler name | Yes | No | |

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SPC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3°C / / / / /

Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:

59787246
6815

- | | | | |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. Were sample custody seals intact? | Yes | No | N/A |

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

- | | | | |
|---|-----|----|---------|
| 1. Were all requested analyses understood and acceptable? | Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | Yes | No | N/A |
| 5. Have rush or project due dates been checked and accepted? | Yes | No | N/A |
| 6. Were all analyses within holding times at time of receipt? | Yes | No | |

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): MDC

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

- | | |
|----------------------------|---------------------|
| 1. Person Contacted: _____ | Phone Number: _____ |
| Initiated By: _____ | Date: _____ |
| Problem: _____ | |
| Resolution: _____ | |
| 2. Person Contacted: _____ | Phone Number: _____ |
| Initiated By: _____ | (4019696) |
| Problem: _____ | Sentry Ag Service |
| Resolution: _____ | VI 2344656 |

(Please use the back of this sheet for additional contacts)

iv 07/19/2023 08:11:30



UI 2344656

January 8, 2024

Sentry Ag Services
Attn: Monique Baldivez
P.O. Box 7750
Visalia, CA 93290

Lab No. : VI 2348338
Customer No. : 4019696
Reference : 3471

Laboratory Report

Introduction: This report package contains a total of 6 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : Results for each sample submitted. |
| Quality Control | (3 pages) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
DW1	12/07/2023	12/07/2023	VI 2348338-001	DW
Barn West	12/07/2023	12/07/2023	VI 2348338-002	DW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2320 B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NH3 G	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** 

Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-08

Section: Case Narrative

Page 1 of 6

Page 1 of 6

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empresia Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
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January 8, 2024

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : DW1
 Project : F&S Brasil

Lab No. : VI 2348338-001
 Customer No. : 4019696
 Reference : 3471
 Sampled On : December 7, 2023 at 11:30
 Sampled By : Jeremy
 Received On : December 7, 2023 at 15:14
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Ammonia-N	0.4	0.2	mg/L			1	12/20/2023	19:20	lcr	SM 4500-NH3 G	12/20/2023	20:12	lcr
Alkalinity (as CaCO ₃)	480	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Bicarbonate	550	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Carbonate	10	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Hydroxide	10	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Chloride	25	1	mg/L	500 ²	1		12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:38	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	U	12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:38	ldm
Conductivity	996	1	umhos/cm	1600 ²	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	13:05	krh
Sulfate Sulfur	1.0	0.17	mg/L			1	12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:38	ldm
Solids, Total Dissolved (TDS)	650	20	mg/L	1000 ²	1		12/11/2023	11:20	ctl	SM 2540 C	12/12/2023	11:20	ctl
Calcium	4	1	mg/L			1	12/21/2023	07:00	ac	EPA 200.7	12/22/2023	20:41	ac
Magnesium	1	1	mg/L			1	12/21/2023	07:00	ac	EPA 200.7	12/22/2023	20:41	ac
Potassium	1	1	mg/L			1	12/21/2023	07:00	ac	EPA 200.7	12/22/2023	20:41	ac
Sodium	259	1	mg/L			1	12/21/2023	07:00	ac	EPA 200.7	12/22/2023	20:41	ac

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

January 8, 2024

Sentry Ag Services
 Attn: Monique Baldivez
 P.O. Box 7750
 Visalia, CA 93290

Description : Barn West
 Project : F&S Brasil

Lab No. : VI 2348338-002
 Customer No. : 4019696
 Reference : 3471
 Sampled On : December 7, 2023 at 11:40
 Sampled By : Jeremy
 Received On : December 7, 2023 at 15:14
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Ammonia-N	0.4	0.2	mg/L			1	12/20/2023	19:20	lcr	SM 4500-NH3 G	12/20/2023	20:14	lcr
Alkalinity (as CaCO ₃)	430	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Bicarbonate	440	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Carbonate	40	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Hydroxide	40	10	mg/L			1	12/20/2023	15:37	amm	SM 2320 B	12/20/2023	16:45	amm
Chloride	25	1	mg/L	500 ²	1		12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:17	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	U	12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:17	ldm
Conductivity	985	1	umhos/cm	1600 ²	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	12:13	krh
Sulfate Sulfur	0.3	0.17	mg/L			1	12/08/2023	16:02	ldm	EPA 300.0	12/09/2023	10:17	ldm
Solids, Total Dissolved (TDS)	660	20	mg/L	1000 ²	1		12/11/2023	11:20	ctl	SM 2540 C	12/12/2023	11:20	ctl
Calcium	4	1	mg/L			1	12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	12:32	ac
Magnesium	1	1	mg/L			1	12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	12:32	ac
Potassium	ND	1	mg/L		1	U	12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	12:32	ac
Sodium	211	1	mg/L			1	12/18/2023	07:55	ejc	EPA 200.7	12/19/2023	12:32	ac

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

January 8, 2024
Sentry Ag Service

Lab No. : VI 2348338
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	12/18/2023:214203EJC (VI 2348524-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 99.1% 95.7% 75.8% 3.1% 123% 92.7% 3.2%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	
	200.7	12/21/2023:214384AC (CC 2384553-001) (CC 2384520-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 97.8% 69.2% 87.6% 2.5% 103% 85.8% 2.3%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	406
Magnesium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 97.8% 103% 99.2% 3.1% 112% 92.4% 5.1%	<1 85-115 75-125 75-125 ≤20 75-125 75-125 ≤20	
	200.7	12/21/2023:214384AC (CC 2384553-001) (CC 2384520-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 101% 95.6% 105% 2.2% 108% 84.9% 5.6%	<1 85-115 75-125 75-125 ≤20 75-125 75-125 ≤20	
Potassium	200.7	12/18/2023:214203EJC (VI 2348524-001) (SP 2320618-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 98.4% 100% 97.3% 3.0% 105% 100% 3.0%	<1 85-115 75-125 75-125 ≤20.0 75-125 75-125 ≤20.0	
	200.7	12/21/2023:214384AC (CC 2384553-001)	Blank LCS MS MSD MSRPD MS	mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00	ND 97.2% 98.9% 104% 1.6% 110%	<1 85-115 75-125 75-125 ≤20.0 75-125	

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
		(CC 2384520-001)	MSD MSRPD	mg/L mg/L	12.00	79.2% 10.9%	75-125 ≤20.0	
Sodium	200.7	12/18/2023:214203EJC (VI 2348524-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	93.7%	85-115	
			MS	mg/L	12.00	101%	75-125	
			MSD	mg/L	12.00	85.0%	75-125	
			MSRPD	mg/L		2.9%	≤20.0	
		(SP 2320618-001)	MS	mg/L	12.00	158%	<1/4	406
			MSD	mg/L	12.00	56.2%	<1/4	
			MSRPD	mg/L		6.2%	≤20.0	
		12/21/2023:214384AC (CC 2384553-001) (CC 2384520-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.1%	85-115	
			MS	mg/L	12.00	31.4%	<1/4	406
			MSD	mg/L	12.00	41.2%	<1/4	
			MSRPD	mg/L		0.8%	≤20.0	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

- 406 : Matrix Spike (MS) not within the Acceptance Range (AR) because of high analyte concentration in the sample. Data was accepted based on the LCS or CCV recovery.

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	(VI 2348338-001)	Dup	mg/L		0%	10	
Bicarbonate	2320B	(VI 2348338-001)	Dup	mg/L		0%	10	
Carbonate	2320B	(VI 2348338-001)	Dup	mg/L		0%	10	
E. C.	2320B	(VI 2348803-002) (VI 2348744-001)	Dup	umhos/cm		0.1%	5	
			Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	12/11/2023:213920CTL (SP 2320220-001) (SP 2320220-001)	Blank	mg/L	991.5	ND	<20	
			LCS	mg/L		103%	90-110	
			Dup	mg/L		0.4%	5	
			Dup	mg/L		1.44%	5	
Chloride	300.0	12/08/2023:213947LDM (CH 2373990-001)	Blank	mg/L	25.00	ND	<1	
			LCS	mg/L		100%	90-110	
			MS	mg/L		0.0%	<1/4	
			MSD	mg/L		0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
		(STK2356821-001)	MS	mg/L	0.000	0.0%	<1/4	
			MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L	0.000	0.0%	≤7	
			MS	mg/L	20.00	101%	90-110	
			MSD	mg/L	0.000	0.0%	<1/4	
Nitrate Nitrogen	300.0	12/08/2023:213947LDM (CH 2373990-001)	Blank	mg/L	0.000	ND	<0.4	
			LCS	mg/L		101%	90-110	
			MS	mg/L		0.0%	<1/4	
			MSD	mg/L		0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
		(STK2356821-001)	MS	mg/L	0.000	0.0%	<1/4	
			MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L	0.000	0.0%	≤7	
			MS	mg/L	0.000	0.0%	<1/4	
			MSD	mg/L	0.000	0.0%	<1/4	
Sulfate Sulfur	300.0	12/08/2023:213947LDM (CH 2373990-001)	Blank	mg/L	50.00	ND	<0.5	
			LCS	mg/L		102%	90-110	
			MS	mg/L		0.0%	<1/4	
			MSD	mg/L		0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
		(STK2356821-001)	MS	mg/L	0.000	0.0%	<1/4	
			MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L	0.000	0.0%	≤7	
			MS	mg/L	0.000	0.0%	<1/4	
			MSD	mg/L	0.000	0.0%	<1/4	
Ammonia Nitrogen	4500NH3G	12/20/2023:214382LCR (STK2356822-001)	Blank	mg/L	2.000	ND	<0.2	
			LCS	mg/L		95.2%	90-110	
			MS	mg/L		96.7%	46-139	
		(MSD)	MSD	mg/L	2.000	97.9%	46-139	
			MSRPD	mg/L		1.3%	≤20	

Definition

- <1/4 : High Sample Background - Spike concentration was less than one forth of the sample concentration.
- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.



Laboratory Analysis Work Order

3471

SITE NAME: F+S Brasil

2348338

Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290LABORATORY: VF | FGL 4-19696Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom) *Ret 7.7 C*
 W2 EC, NO₃N, TDS, TN (Irr) *✓*
 W3 NH₄-N (Ammonium) *✓*
 W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
 W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
 W6 NO₃N, NO₂ (Dom ILRP, Annually)
 W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
 W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
 P2 TN, P, K (Mid-season - Corn)
 P3 TN, TP, TK, Ash, %M (At Harvest)
 P4 TN, %M
 P5 % Moisture
 P6 NIR
 P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
 L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
 L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
 L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
 M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
 M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
 S2 S1 + CEC, CaCO₃, OM, C:N, TN
 S3 NO₃N, NH₄N
 S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 DW 1	DW	W3 + W4	12/7/23 11:30	Gerry	+		
2 Barn Water	DW	W3 + W4	12/7/23 11:40	"	+		
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<i>Jerry</i>	SAS		12/7/23 15:14
2 nd	<i>AH</i>	TFL	12/7/23 15:14	
3 rd	<i>AH</i>			12/7/23 17:42
4 th	<i>SG</i>	Y	12/7/23 17:30	

LABORATORY USE ONLY	Total Samples:	Laboratory No.:
Logged In By: _____		

GLS 12/8/23
mc 1237

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): OTC

2. Temp IR Gun ID #: 4/67

3. Were samples received on ice? Yes No Temps: 27.7 / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10°C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4. Do the number of bottles received agree with the COC?

Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.)

Yes No

6. VOAs checked for Headspace?

Yes No N/A

7. Were all analyses within holding times at time of receipt?

Yes No

8. Verify sample date, time and sampler name

Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): JDA

Sample Receipt at SP:

1. Number of ice chests/packages received: 2 Shipping tracking #(s): 560595648
664

2. Temp IR Gun ID #: T14261

3. Were samples received on ice? Yes No Temps: 26 / / / /
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC?

Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.)

Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): VTC

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem:

Resolution:

2. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem:

Resolution:

(4019696)

Sentry Ag Service
VI 2348338

iv 12/08/2023 08:20:44



UI 2348338