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INNOVATIVE
AG SERVICES

Fontes Dairy Farms - Dairy 2

2023 Annual Report

X	Report Form	NA	Attachment H
X	Attachment A	NA	Attachment I
X	Attachment B	NA	Attachment J
X	Attachment C	NA	Manure Tracking Manifests
X	Attachment D	NA	New or Revised Waste Water Agreements
X	Attachment E	X	Groundwater Monitoring Samples
X	Attachment F	NA	Monitoring Well Report
X	Attachment G	NA	Owner/Operator Change Form

Enclosed are the required documents to be submitted to the Regional Water Quality Control Board Central Valley Region in compliance with Order No. R5-2013-0122 Waste Discharge Requirements, General Order for Existing Milk Cow Dairies for July 1, 2024.

(See attached delivery confirmation)

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Annual Report

Fontes Dairy Farms - Dairy 2 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Fontes Dairy Farms - Dairy 2
Facility Address	20334 S Polk Avenue, Riverdale CA 93656

Owner/Operator as of 12/31/2023

Operator Name	Fontes Dairy Farms
Operator Phone	(559) 867-6455
Owner Name	Fontes Dairy Farms
Owner Phone	(559) 867-6455

1. Beginning and end dates of the annual reporting period: crops harvested January 1, 2023 through December 31, 2023.

2. Maximum and average number and type of animals (see Attachment A).

3. Estimated amount of total manure and process wastewater generated by the facility (see Attachment A).

4. Estimated amount of total manure and process wastewater applied to each land application area (see Attachment B).

5. Quantified ratio of total nitrogen applied to land application areas and total nitrogen removed by crop harvest (see Attachment B).

6. Estimated amount of total manure and process wastewater transferred to other persons by the facility (see Attachment C).

7. Total number of acres and the Assessor Parcel Numbers for all land application areas that were not used for application of manure or process wastewater (see Attachment D).

8. Total number of acres and the Assessor Parcel Numbers for all land application areas that were used for land application of manure and process wastewater (see Attachment D).

9. Summary of manure and process wastewater discharges from the production area
Provide a summary of all manure and 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, that occurred during the annual reporting period, including the date, time, location, approximate volume, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

X No discharges occurred during the reporting period.

__ Yes. ____ Number of discharges occurred (see Attachment H).

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Fontes Dairy Farms - Dairy 2 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
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10. Summary of storm water discharges from the production area
Provide a summary of all storm water discharges from the production area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, duration, location, a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

_X_ No discharges occurred during the reporting period.

__ Yes. ____ Number of discharges occurred (see Attachment I).

11. Summary of discharges from the land application area
Provide a summary of all discharges from the land application area to surface water, that occurred during the annual reporting period, including the date, time, approximate volume, location, source of discharge (i.e. tailwater, wastewater or blended wastewater), a map showing discharge and sample locations, rationale for sample locations, and method of measuring discharge flows:

_X_ No discharges occurred during the reporting period.

__ Yes. ____ Number of discharges occurred (see Attachment J).

12. Nutrient Management Plan update
Has the NMP been updated, and if so, was it updated by a Certified Nutrient Management Specialist?

__ No.

_X_ Yes, the new NMP was developed and approved by a Certified Nutrient Management Specialist.

13. Manure/Process Wastewater Tracking Manifests
Did you sell, give away, or otherwise remove manure or process wastewater from your property?

_X_ No.

__ Yes, see attached manifests.

14. Written Agreements
Any process wastewater transferred to a third party that receives process wastewater from your dairy for its own use must have a written agreement consistent with State requirements. Attach copies of revised and/or new agreements not submitted previously. Do not resubmit agreements submitted previously.

_X_ Not applicable; no written agreements.

__ No changes in agreement(s).

__ Yes, a new or revised agreement is attached.

15. Laboratory Analyses for Discharges
If you answered Yes to items #9, 10, or 11 above, attach copies of all laboratory analyses for all discharges (manure, process wastewater or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results, as applicable. (Results for Manure and process wastewater, storm water, and/or storm water are provided).

_X_ Not Applicable.

__ Yes, provided with Attachment H, I, or J for #9, 10 and 11, respectively.

16. Tabulated Nutrient Analytical Data
Attach tabulated analytical data for samples of manure, process wastewater, irrigation water, soil, and plant tissue. The data shall be tabulated to clearly show sample dates, constituents analyzed, constituent concentrations, and detection limits (see Attachment E).

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Fontes Dairy Farms - Dairy 2 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

17. Record-Keeping Results

Attach results of the Record-Keeping Requirements for the production and land application areas specified in Record-Keeping Requirements. These include:

* Records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.
* Records of the date, time, and estimated volume of any overflow or bypass of the wastewater storage or conveyance structures.
* Expected and actual crop yields (see Attachment F).
* Identification of crop, acreage, and dates of planting and harvest for each field (see Attachment F).
* Dates, locations, and approximate weight and moisture content of manure applied to each field (see Attachment B).
* Dates, locations, and volume of process wastewater applied to each field (see Attachment B).
* Whether precipitation occurred, or standing water was present at the time of manure and process wastewater applications and for 24 hours prior to and following applications (see Attachment G).
* Total amount of nitrogen, phosphorus, and potassium actually applied to each field, including documentation of calculations for the total amount applied (see Attachment B).

18. Groundwater Monitoring Section

X Groundwater monitoring results are attached.

__ Monitoring Well results are attached, if applicable.

A. All dischargers must attach groundwater information for supply wells and subsurface (tile) drainage systems including the location of sample collection and all field and laboratory data, including all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results).

B. Dischargers who have monitoring well systems shall include all laboratory analyses (including chain-of-custody forms and laboratory quality assurance/quality control results) and tabular and graphical summaries of the monitoring data. Data shall be tabulated to clearly show the sample dates, constituents analyzed, constituent concentrations, detection limits, depth to groundwater and groundwater elevations. Graphical summaries of groundwater gradients and flow directions shall also be included. Each groundwater monitoring report shall include a summary data table for all historical and current groundwater elevations and analytical results. The groundwater monitoring results shall be certified by a California registered professional.

19. Storm Water Reporting Section

X No significant discharges of storm water occurred from the land application areas.

__ Yes, significant discharge(s) of storm water occurred from land application areas. The following information shall be submitted for those discharges.

__ It was not possible to collect any of the required samples or perform visual observations due to adverse climatic conditions.

20. Mortality Management Practices

* Dead cows are picked up and disposed of by rendering service.

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Fontes Dairy Farms - Dairy 2 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
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"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."

Same as owner	DocuSigned by: Tom Fontes 6D0EAE7D385A41B...
Signature of Operator of Facility	Signature of Owner of Facility
Fontes Dairy Farms	Fontes Dairy Farms
Print Name	Print Name
	6/25/2024
Title and Date	Title and Date

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Fontes Dairy Farms - Dairy 2 2023

Estimated Manure and Nutrients Generated (Attachment A)

Animal Type	Maximum No. of Head	Average No. of Head*	Housing Type	Weight	Total Manure Produced (tons/year)	NITROGEN Net (LB) Available for Land Application	PHOSPHORUS Net (LB) Available for Land Application	POTASSIUM Net (LB) Available for Land Application	SALTS Net (LB) Available for Land Application
Hol Milk Cows	2,300	2,242	Milk Flushed Lane	1,400	56,899.47	810,146.70	139,116.10	188,215.90	1,477,903.98
Hol Dry Cows	345	336	Flushed	1,450	4,902.95	61,320.00	8,584.80	40,471.20	86,534.78
Hol Heifers(15-24)	75	73	Flushed	1,000	762.01	10,125.10	1,598.70	4,796.10	18,800.71
Hol Heifers (7-14)	255	248	Flushed	750	2,385.08	23,535.20	3,982.88	13,578.00	29,939.49
Hol Calves (4-6)	70	68	Flushed	300	235.79	3,474.80	992.80	1,985.60	1,628.19
	3,045	**2,967**			**65,185.30**	**908,601.80**	**154,275.28**	**249,046.80**	**1,614,807.16**

* The Average No. of Head is used to calculate manure and nutrient production

Estimated Amount of Total Process Wastewater and Nutrients Generated

Total Gallons of Process Wastewater Generated***	Average TKN Concentration (mg/L)*	Average Total Phosphorus Concentration (mg/L)*	Average Potassium Concentration (mg/L)*	Average Total Dissolved Solids (mg/L)*	Total Nitrogen Generated (lb)**	Total Phosphorus Generated (lb)**	Total Potassium Generated (lb)**	Total Salt Generated (lb)**
41,479,823	281.75	42.02	273.75	2,350.00	97,352.21	14,520.77	94,587.99	811,988.27

* The average Total Kjeldahl Nitrogen, Total Phosphorus, Total Potassium, and Total Salt concentrations are based on an average of all process wastewater sample results for the year.
** The total pounds of Nitrogen, Phosphorus, Potassium and Total Dissolved Solids generated = Average Concentration (mg/L) X Total Gallons of Wastewater Generated X 8.33 X 0.000001.
*** The total gallons of process wastewater generated is calculated as the total gallons of process wastewater applied to all land application areas (Attachment B) plus the total gallons of process wastewater transferred offsite (Attachment C).

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 2 Dew N

Wheat, 52 Acres Planted on 11/02/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/28/2022	Fertilize - M Import	5.00	Tons		1.43	0.40	0.28	%			7,436	2,080	1,456	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			728				
01/06/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	21,956	
02/07/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	23,211	
02/07/2023	Waste Water: Main Lagoon	0.20	Acre Inches		506.00	61.40	478.00	mg/L		282,405	1,190	145	1,124	7,998	
03/01/2023	Ground Water: Well Avg	3.00	Acre Inches		0.00			mg/L			0	0	0	18,819	
03/28/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	23,211	
03/28/2023	Waste Water: Main Lagoon	0.20	Acre Inches		506.00	61.40	478.00	mg/L		282,405	1,190	145	1,124	7,998	
04/10/2023	Ground Water: Well Avg	3.10	Acre Inches		0.00			mg/L			0	0	0	19,447	
05/10/2023	Harvest	17.80	Tons	61.80	1.07	0.22	0.81	%							7,567
	Acre Inches Applied:	**17.40**						**Totals:**		**564,809**	**10,545**	**2,369**	**3,704**	**122,640**	**7,567**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**203**	**46**	**71**	**2,358**	**146**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 2 Dew N

Corn, 52 Acres Planted on 05/31/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/25/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	34,503	
05/25/2023	Waste Water: Main Lagoon	1.10	Acre Inches		221.00	17.00	125.00	mg/L		1,553,226	2,859	220	1,617	16,690	
06/10/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	34,503	
06/10/2023	Waste Water: Main Lagoon	1.30	Acre Inches		221.00	17.00	125.00	mg/L		1,835,631	3,379	260	1,912	19,725	
07/03/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	36,384	
08/10/2023	Ground Water: Well Avg	5.20	Acre Inches		0.00			mg/L			0	0	0	32,620	
08/10/2023	Waste Water: Main Lagoon	0.80	Acre Inches		182.00	32.90	179.00	mg/L		1,129,619	1,712	309	1,684	18,349	
09/15/2023	Harvest	29.00	Tons	67.60	0.92	0.28	1.20	%							9,019
	Acre Inches Applied:	**25.20**						**Totals:**		**4,518,476**	**7,951**	**789**	**5,213**	**192,774**	**9,019**
Season Nitrogen Ratio:	0.88							**Lbs Per Acre:**			**153**	**15**	**100**	**3,707**	**173**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 2 Dew S

Wheat, 18 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			252				
01/07/2023	Ground Water: Well Avg	3.20	Acre Inches		0.00			mg/L			0	0	0	6,949	
01/07/2023	Waste Water: Main Lagoon	0.55	Acre Inches		250.00	59.80	423.00	mg/L		268,828	560	134	947	11,129	
02/10/2023	Ground Water: Well Avg	3.10	Acre Inches		0.00			mg/L			0	0	0	6,732	
02/10/2023	Waste Water: Main Lagoon	0.50	Acre Inches		506.00	61.40	478.00	mg/L		244,389	1,030	125	973	6,922	
03/26/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	7,600	
03/26/2023	Waste Water: Main Lagoon	0.52	Acre Inches		506.00	61.40	478.00	mg/L		254,164	1,071	130	1,012	7,198	
04/22/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	7,817	
05/10/2023	Harvest	18.50	Tons	60.90	1.73	0.38	2.05	%							4,505
	Acre Inches Applied:	**14.97**						**Totals:**		**767,381**	**2,913**	**389**	**2,932**	**54,347**	**4,505**
Season Nitrogen Ratio:	0.65							**Lbs Per Acre:**			**162**	**22**	**163**	**3,019**	**250**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 2 Dew S

Sorghum, 18 Acres Planted on 06/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/20/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	8,686	
06/20/2023	Waste Water: Main Lagoon	1.10	Acre Inches		221.00	17.00	125.00	mg/L		537,655	990	76	560	5,777	
07/18/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	11,943	
07/18/2023	Waste Water: Main Lagoon	0.80	Acre Inches		182.00	32.90	179.00	mg/L		391,022	593	107	583	6,351	
08/21/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	9,337	
08/21/2023	Waste Water: Main Lagoon	1.30	Acre Inches		182.00	32.90	179.00	mg/L		635,411	963	174	948	10,321	
09/15/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	7,600	
10/03/2023	Ground Water: Well Avg	3.40	Acre Inches		0.00			mg/L			0	0	0	7,383	
10/28/2023	Harvest	18.30	Tons	69.00	1.37	0.26	1.75	%							2,798
	Acre Inches Applied:	**23.90**						**Totals:**		**1,564,088**	**2,546**	**357**	**2,090**	**67,400**	**2,798**
Season Nitrogen Ratio:	0.91							**Lbs Per Acre:**			**141**	**20**	**116**	**3,744**	**155**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 1

Wheat Hay, 43 Acres Planted on 11/06/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/19/2022	Ground Water: Well Avg	4.00	Acre Inches		0.72			mg/L			28	0	0	21,398	
10/19/2022	Waste Water: Main Lagoon	0.60	Acre Inches		250.00	59.80	423.00	mg/L		700,581	1,459	349	2,469	29,004	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			602				
02/18/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	22,306	
02/18/2023	Waste Water: Main Lagoon	0.20	Acre Inches		506.00	61.40	478.00	mg/L		233,527	984	120	930	6,614	
04/14/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	21,787	
04/14/2023	Waste Water: Main Lagoon	0.40	Acre Inches		506.00	61.40	478.00	mg/L		467,054	1,969	239	1,860	13,228	
05/11/2023	Harvest	7.80	Tons	6.71	1.43	0.27	1.44	%							8,949
	Acre Inches Applied:	**13.70**						**Totals:**		**1,401,162**	**5,042**	**708**	**5,258**	**114,337**	**8,949**
Season Nitrogen Ratio:	0.56							**Lbs Per Acre:**			**117**	**16**	**122**	**2,659**	**208**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 1

Corn, 43 Acres Planted on 06/20/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/26/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	30,087	
05/26/2023	Waste Water: Main Lagoon	1.10	Acre Inches		221.00	17.00	125.00	mg/L		1,284,398	2,365	182	1,337	13,802	
06/27/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	24,900	
06/27/2023	Waste Water: Main Lagoon	1.00	Acre Inches		221.00	17.00	125.00	mg/L		1,167,635	2,150	166	1,216	12,547	
07/25/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	28,531	
08/12/2023	Ground Water: Well Avg	5.20	Acre Inches		0.00			mg/L			0	0	0	26,974	
08/12/2023	Waste Water: Main Lagoon	1.30	Acre Inches		182.00	32.90	179.00	mg/L		1,517,925	2,301	416	2,264	24,657	
09/05/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	29,050	
10/04/2023	Harvest	29.40	Tons	69.80	0.93	0.29	1.14	%							7,116
	Acre Inches Applied:	**30.30**						**Totals:**		**3,969,959**	**6,816**	**763**	**4,816**	**190,547**	**7,116**
Season Nitrogen Ratio:	0.96							**Lbs Per Acre:**			**158**	**18**	**112**	**4,431**	**166**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 2

Wheat, 25 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			350				
01/07/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	12,667	
01/07/2023	Waste Water: Main Lagoon	0.80	Acre Inches		250.00	59.80	423.00	mg/L		543,086	1,131	270	1,914	22,484	
02/10/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	12,064	
02/10/2023	Waste Water: Main Lagoon	0.70	Acre Inches		506.00	61.40	478.00	mg/L		475,200	2,003	243	1,892	13,458	
03/26/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	11,460	
03/26/2023	Waste Water: Main Lagoon	0.50	Acre Inches		506.00	61.40	478.00	mg/L		339,429	1,431	174	1,352	9,613	
04/15/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	10,556	
05/10/2023	Harvest	19.00	Tons	61.00	1.25	0.31	1.53	%							4,631
	Acre Inches Applied:	**17.50**						**Totals:**		**1,357,715**	**4,915**	**687**	**5,157**	**92,302**	**4,631**
Season Nitrogen Ratio:	1.06							**Lbs Per Acre:**			**197**	**27**	**206**	**3,692**	**185**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 2

Corn, 25 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/17/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	13,572	
05/17/2023	Waste Water: Main Lagoon	1.10	Acre Inches		221.00	17.00	125.00	mg/L		746,743	1,375	106	778	8,024	
06/02/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	14,476	
06/02/2023	Waste Water: Main Lagoon	1.00	Acre Inches		221.00	17.00	125.00	mg/L		678,858	1,250	96	707	7,295	
07/06/2023	Ground Water: Well Avg	5.00	Acre Inches		0.00			mg/L			0	0	0	15,080	
07/06/2023	Waste Water: Main Lagoon	1.30	Acre Inches		182.00	32.90	179.00	mg/L		882,515	1,338	242	1,316	14,335	
07/25/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	12,667	
08/13/2023	Ground Water: Well Avg	5.20	Acre Inches		0.00			mg/L			0	0	0	15,683	
09/14/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	13,572	
10/04/2023	Harvest	27.90	Tons	69.10	0.96	0.26	1.07	%							4,151
	Acre Inches Applied:	**31.60**						**Totals:**		**2,308,116**	**3,962**	**444**	**2,800**	**114,704**	**4,151**
Season Nitrogen Ratio:	0.95							**Lbs Per Acre:**			**158**	**18**	**112**	**4,588**	**166**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 3

Wheat, 17 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			238				
01/10/2023	Ground Water: Well Avg	3.30	Acre Inches		0.00			mg/L			0	0	0	6,768	
01/10/2023	Waste Water: Main Lagoon	0.60	Acre Inches		250.00	59.80	423.00	mg/L		276,974	577	138	976	11,467	
02/06/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	7,383	
02/06/2023	Waste Water: Main Lagoon	0.40	Acre Inches		506.00	61.40	478.00	mg/L		184,649	778	95	735	5,230	
03/26/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	9,844	
03/26/2023	Waste Water: Main Lagoon	0.60	Acre Inches		506.00	61.40	478.00	mg/L		276,974	1,167	142	1,103	7,844	
04/15/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	7,588	
05/10/2023	Harvest	21.20	Tons	62.30	1.12	0.22	0.90	%							3,044
	Acre Inches Applied:	**17.00**						**Totals:**		**738,597**	**2,760**	**374**	**2,814**	**56,124**	**3,044**
Season Nitrogen Ratio:	0.91							**Lbs Per Acre:**			**162**	**22**	**166**	**3,301**	**179**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 3

Corn, 17 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	8,408	
06/01/2023	Waste Water: Main Lagoon	1.10	Acre Inches		221.00	17.00	125.00	mg/L		507,785	935	72	529	5,456	
07/01/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	10,459	
07/01/2023	Waste Water: Main Lagoon	1.40	Acre Inches		182.00	32.90	179.00	mg/L		646,272	980	177	964	10,498	
07/23/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	9,434	
08/05/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	11,485	
08/05/2023	Waste Water: Main Lagoon	0.80	Acre Inches		182.00	32.90	179.00	mg/L		369,298	560	101	551	5,999	
08/30/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	11,280	
09/20/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	11,895	
10/04/2023	Harvest	31.10	Tons	68.90	0.97	0.30	1.12	%							3,203
	Acre Inches Applied:	**34.00**						**Totals:**		**1,523,356**	**2,474**	**350**	**2,043**	**84,913**	**3,203**
Season Nitrogen Ratio:	0.77							**Lbs Per Acre:**			**146**	**21**	**120**	**4,995**	**188**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 4

Wheat, 26 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/06/2022	Ground Water: Well Avg	4.60	Acre Inches		0.72			mg/L			20	0	0	14,879	
10/06/2022	Waste Water: Main Lagoon	0.45	Acre Inches		250.00	59.80	423.00	mg/L		317,705	662	158	1,120	13,153	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			364				
01/20/2023	Ground Water: Well Avg	3.20	Acre Inches		0.00			mg/L			0	0	0	10,037	
02/15/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	12,233	
02/15/2023	Waste Water: Main Lagoon	0.30	Acre Inches		506.00	61.40	478.00	mg/L		211,804	893	108	843	5,999	
03/02/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	10,978	
04/20/2023	Ground Water: Well Avg	3.20	Acre Inches		0.00			mg/L			0	0	0	10,037	
04/20/2023	Waste Water: Main Lagoon	0.50	Acre Inches		506.00	61.40	478.00	mg/L		353,006	1,488	180	1,406	9,998	
05/30/2023	Harvest	20.60	Tons	69.80	1.10	0.32	1.19	%							3,559
	Acre Inches Applied:	**19.65**						**Totals:**		**882,515**	**3,426**	**447**	**3,369**	**87,313**	**3,559**
Season Nitrogen Ratio:	0.96							**Lbs Per Acre:**			**132**	**17**	**130**	**3,358**	**137**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 1 Dew 4

Corn, 26 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/25/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	13,174	
06/25/2023	Waste Water: Main Lagoon	0.80	Acre Inches		221.00	17.00	125.00	mg/L		564,809	1,040	80	588	6,069	
07/10/2023	Ground Water: Well Avg	5.20	Acre Inches		0.00			mg/L			0	0	0	16,310	
07/10/2023	Waste Water: Main Lagoon	1.10	Acre Inches		182.00	32.90	179.00	mg/L		776,613	1,177	213	1,158	12,615	
07/30/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	15,369	
08/16/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	17,565	
08/16/2023	Waste Water: Main Lagoon	1.10	Acre Inches		182.00	32.90	179.00	mg/L		776,613	1,177	213	1,158	12,615	
09/08/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	18,192	
09/25/2023	Ground Water: Well Avg	6.00	Acre Inches		0.00			mg/L			0	0	0	18,819	
10/04/2023	Harvest	27.60	Tons	69.50	0.92	0.31	1.09	%							4,005
	Acre Inches Applied:	**34.70**						**Totals:**		**2,118,035**	**3,394**	**506**	**2,904**	**130,728**	**4,005**
Season Nitrogen Ratio:	0.85							**Lbs Per Acre:**			**131**	**19**	**112**	**5,028**	**154**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 3 Dew 1

Wheat, 48 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/02/2022	Corral Solids: Main Corral	2.00	Tons	56.00	1.82	0.73	3.26	%	96		1,537	613	2,754	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			672				
01/25/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	20,267	
01/25/2023	Waste Water: Main Lagoon	0.25	Acre Inches		506.00	61.40	478.00	mg/L		325,852	1,373	167	1,297	9,229	
02/20/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	22,584	
02/20/2023	Waste Water: Main Lagoon	0.30	Acre Inches		506.00	61.40	478.00	mg/L		391,022	1,648	200	1,557	11,075	
03/05/2023	Ground Water: Well Avg	3.00	Acre Inches		0.00			mg/L			0	0	0	17,372	
04/16/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	22,004	
04/16/2023	Waste Water: Main Lagoon	0.30	Acre Inches		506.00	61.40	478.00	mg/L		391,022	1,648	200	1,557	11,075	
05/10/2023	Harvest	20.70	Tons	62.70	1.14	0.23	0.98	%							8,450
	Acre Inches Applied:	**15.05**						**Totals:**	**96**	**1,107,895**	**6,879**	**1,180**	**7,166**	**113,604**	**8,450**
Season Nitrogen Ratio:	0.81							**Lbs Per Acre:**			**143**	**25**	**149**	**2,367**	**176**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: 3 Dew 1

Corn, 48 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/13/2023	Corral Solids: Main Corral	6.00	Tons	23.40	0.62	0.29	0.80	%	288		2,731	1,262	3,512	0	
05/18/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	29,532	
07/02/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	32,427	
07/02/2023	Waste Water: Main Lagoon	0.40	Acre Inches		182.00	32.90	179.00	mg/L		521,363	791	143	778	8,469	
07/29/2023	Ground Water: Well Avg	5.30	Acre Inches		0.00			mg/L			0	0	0	30,690	
08/20/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	33,586	
08/20/2023	Waste Water: Main Lagoon	0.55	Acre Inches		182.00	32.90	179.00	mg/L		716,874	1,087	196	1,069	11,644	
09/06/2023	Ground Water: Well Avg	5.40	Acre Inches		0.00			mg/L			0	0	0	31,269	
09/06/2023	Waste Water: Main Lagoon	0.60	Acre Inches		182.00	32.90	179.00	mg/L		782,044	1,186	215	1,166	12,703	
10/04/2023	Harvest	31.20	Tons	69.70	0.85	0.30	1.16	%							7,696
	Acre Inches Applied:	**28.75**						**Totals:**	**288**	**2,020,280**	**5,794**	**1,816**	**6,525**	**190,320**	**7,696**
Season Nitrogen Ratio:	0.75							**Lbs Per Acre:**			**121**	**38**	**136**	**3,965**	**160**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Alves

Alfalfa, 73 Acres Planted on 11/04/2018

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/01/2022	Ground Water: Well Avg	3.60	Acre Inches		0.72			mg/L			43	0	0	32,695	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
02/01/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	36,988	
03/04/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	37,868	
04/15/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	30,823	
05/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	36,107	
06/09/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	35,226	
07/20/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	34,346	
08/06/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	39,630	
09/10/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	32,584	
10/08/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	36,988	
11/20/2023	Harvest	11.60	Tons	6.80	3.65	0.24	3.58	%							57,613
	Acre Inches Applied:	**40.00**						**Totals:**			**1,065**	**0**	**0**	**353,253**	**57,613**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**15**	**0**	**0**	**4,839**	**789**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Blair

Alfalfa, 44 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/01/2022	Corral Solids: Main Corral	10.00	Tons	56.00	1.82	0.73	3.26	%	440		7,047	2,811	12,623	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			616				
01/30/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	22,294	
02/28/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	21,232	
03/20/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	18,578	
04/26/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	21,763	
05/15/2023	Ground Water: Well Avg	4.40	Acre Inches		0.00			mg/L			0	0	0	23,355	
06/01/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	23,886	
06/25/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	21,763	
07/15/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	21,232	
08/08/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	20,702	
09/20/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	22,825	
11/20/2023	Harvest	11.50	Tons	7.19	3.79	0.32	3.65	%							35,597
	Acre Inches Applied:	**41.00**						**Totals:**	**440**		**7,663**	**2,811**	**12,623**	**217,630**	**35,597**
Season Nitrogen Ratio:	0.22							**Lbs Per Acre:**			**174**	**64**	**287**	**4,946**	**809**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Bryan

Alfalfa, 94 Acres Planted on 11/05/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,316				
01/15/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	45,360	
02/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	46,493	
03/05/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	51,030	
04/06/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	39,690	
05/01/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	48,762	
06/02/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	54,432	
06/30/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	43,091	
07/20/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	52,163	
08/03/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	53,298	
09/01/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	44,226	
11/20/2023	Harvest	10.60	Tons	7.10	3.42	0.29	3.27	%							63,315
	Acre Inches Applied:	**42.20**						**Totals:**			**1,316**	**0**	**0**	**478,545**	**63,315**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**5,091**	**674**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 1

Alfalfa, 67 Acres Planted on 11/04/2019

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			938				
01/15/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	32,331	
02/25/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	33,139	
03/08/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	34,756	
04/09/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	30,714	
05/03/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	33,948	
06/01/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	36,372	
06/30/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	29,906	
07/20/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	37,180	
08/10/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	31,523	
09/10/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	33,139	
10/01/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	29,906	
11/20/2023	Harvest	10.40	Tons	8.19	3.35	0.22	1.20	%							42,862
	Acre Inches Applied:	**44.90**						**Totals:**			**938**	**0**	**0**	**362,914**	**42,862**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**5,417**	**640**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 2

Wheat, 47 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/01/2022	Corral Solids: Main Corral	10.00	Tons	56.00	1.82	0.73	3.26	%	470		7,528	3,003	13,483	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			658				
01/15/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	23,247	
02/20/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	21,546	
02/20/2023	Waste Water: Main Lagoon	0.50	Acre Inches		506.00	61.40	478.00	mg/L		638,126	2,690	326	2,541	18,073	
03/25/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	19,845	
04/15/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	26,082	
05/10/2023	Harvest	18.40	Tons	60.70	1.81	0.40	2.01	%							12,303
	Acre Inches Applied:	**16.50**						**Totals:**	**470**	**638,126**	**10,875**	**3,329**	**16,024**	**108,792**	**12,303**
Season Nitrogen Ratio:	0.88							**Lbs Per Acre:**			**231**	**71**	**341**	**2,315**	**262**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 2

Corn, 47 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/17/2023	Corral Solids: Main Corral	4.00	Tons	23.40	0.62	0.29	0.80	%	188		1,783	824	2,293	0	
05/24/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	32,886	
06/30/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	26,082	
06/30/2023	Waste Water: Main Lagoon	0.40	Acre Inches		221.00	17.00	125.00	mg/L		510,501	940	72	532	5,486	
07/15/2023	Ground Water: Well Avg	5.30	Acre Inches		0.00			mg/L			0	0	0	30,051	
07/15/2023	Waste Water: Main Lagoon	0.55	Acre Inches		182.00	32.90	179.00	mg/L		701,939	1,064	192	1,047	11,402	
08/01/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	28,917	
08/17/2023	Ground Water: Well Avg	5.40	Acre Inches		0.00			mg/L			0	0	0	30,618	
08/17/2023	Waste Water: Main Lagoon	0.25	Acre Inches		182.00	32.90	179.00	mg/L		319,063	484	87	476	5,183	
09/05/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	32,886	
09/21/2023	Harvest	27.80	Tons	70.20	0.64	0.32	1.05	%							4,984
	Acre Inches Applied:	**33.20**						**Totals:**	**188**	**1,531,503**	**4,270**	**1,176**	**4,347**	**203,509**	**4,984**
Season Nitrogen Ratio:	0.86							**Lbs Per Acre:**			**91**	**25**	**92**	**4,330**	**106**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 3

Wheat, 73 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/28/2022	Fertilize - M Import	6.00	Tons		1.43	0.40	0.28	%			12,527	3,504	2,453	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
01/04/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	36,107	
01/04/2023	Waste Water: Main Lagoon	0.35	Acre Inches		250.00	59.80	423.00	mg/L		693,792	1,445	345	2,445	28,723	
02/01/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	31,703	
03/09/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	30,823	
04/02/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	33,465	
04/02/2023	Waste Water: Main Lagoon	0.25	Acre Inches		506.00	61.40	478.00	mg/L		495,566	2,089	253	1,973	14,036	
05/10/2023	Harvest	19.80	Tons	59.80	1.47	0.34	1.50	%							17,083
	Acre Inches Applied:	**15.60**						**Totals:**		**1,189,358**	**17,082**	**4,103**	**6,871**	**174,856**	**17,083**
Season Nitrogen Ratio:	1.00							**Lbs Per Acre:**			**234**	**56**	**94**	**2,395**	**234**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 3

Corn, 73 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/15/2023	Corral Solids: Main Corral	6.00	Tons	23.40	0.62	0.29	0.80	%	438		4,154	1,919	5,341	0	
06/25/2023	Ground Water: Well Avg	5.30	Acre Inches		0.00			mg/L			0	0	0	46,675	
07/01/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	49,317	
07/01/2023	Waste Water: Main Lagoon	0.70	Acre Inches		182.00	32.90	179.00	mg/L		1,387,585	2,104	380	2,069	22,539	
07/20/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	48,436	
07/20/2023	Waste Water: Main Lagoon	0.50	Acre Inches		182.00	32.90	179.00	mg/L		991,132	1,502	272	1,478	16,099	
08/01/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	43,152	
08/01/2023	Waste Water: Main Lagoon	0.60	Acre Inches		182.00	32.90	179.00	mg/L		1,189,358	1,803	326	1,773	19,319	
08/29/2023	Ground Water: Well Avg	5.40	Acre Inches		0.00			mg/L			0	0	0	47,555	
09/15/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	42,271	
09/26/2023	Harvest	26.50	Tons	68.50	0.84	0.28	1.09	%							10,262
	Acre Inches Applied:	**33.30**						**Totals:**	**438**	**3,568,075**	**9,563**	**2,897**	**10,661**	**335,364**	**10,262**
Season Nitrogen Ratio:	0.93							**Lbs Per Acre:**			**131**	**40**	**146**	**4,594**	**141**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 4

Alfalfa, 79 Acres Planted on 11/08/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,106				
01/05/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	33,356	
01/30/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	35,262	
02/18/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	39,074	
03/01/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	37,169	
04/05/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	42,887	
05/03/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	44,793	
06/10/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	40,980	
07/01/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	34,309	
08/06/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	38,121	
09/15/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	46,698	
11/20/2023	Harvest	9.40	Tons	7.82	3.95	0.30	3.30	%							54,078
	Acre Inches Applied:	**41.20**						**Totals:**			**1,106**	**0**	**0**	**392,651**	**54,078**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**4,970**	**685**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 5

Alfalfa, 154 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
09/30/2022	Corral Solids: Main Corral	9.00	Tons	56.00	1.82	0.73	3.26	%	1,386		22,198	8,855	39,761	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,156				
01/05/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	76,170	
02/01/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	65,023	
02/28/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	70,597	
03/27/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	78,029	
04/19/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	85,459	
05/01/2023	Ground Water: Well Avg	5.00	Acre Inches		0.00			mg/L			0	0	0	92,891	
06/03/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	72,455	
06/30/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	74,313	
07/17/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	65,023	
08/01/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	79,886	
08/30/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	66,881	
11/20/2023	Harvest	9.80	Tons	6.93	3.26	0.25	2.65	%							91,581
	Acre Inches Applied:	**44.50**						**Totals:**	**1,386**		**24,354**	**8,855**	**39,761**	**826,727**	**91,581**
Season Nitrogen Ratio:	0.27							**Lbs Per Acre:**			**158**	**58**	**258**	**5,368**	**595**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 6

Wheat, 79 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
09/20/2022	Corral Solids: Main Corral	7.00	Tons	56.00	1.82	0.73	3.26	%	553		8,857	3,533	15,865	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,106				
01/08/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	40,980	
02/10/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	37,169	
02/10/2023	Waste Water: Main Lagoon	0.30	Acre Inches		506.00	61.40	478.00	mg/L		643,557	2,713	329	2,563	18,227	
03/09/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	33,356	
04/01/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	42,887	
04/20/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	36,215	
05/10/2023	Harvest	18.00	Tons	62.30	1.42	0.32	1.55	%							15,225
	Acre Inches Applied:	**20.30**						**Totals:**	**553**	**643,557**	**12,676**	**3,862**	**18,428**	**208,834**	**15,225**
Season Nitrogen Ratio:	0.83							**Lbs Per Acre:**			**160**	**49**	**233**	**2,643**	**193**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Devries 6

Corn, 79 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/13/2023	Corral Solids: Main Corral	11.00	Tons	23.40	0.62	0.29	0.80	%	869		8,240	3,808	10,597	0	
06/20/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	55,276	
07/03/2023	Ground Water: Well Avg	5.40	Acre Inches		0.00			mg/L			0	0	0	51,464	
07/03/2023	Waste Water: Main Lagoon	0.90	Acre Inches		182.00	32.90	179.00	mg/L		1,930,671	2,927	529	2,879	31,361	
07/25/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	48,605	
08/03/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	46,698	
08/24/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	43,839	
09/10/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	39,074	
09/21/2023	Harvest	28.10	Tons	68.80	0.99	0.29	1.07	%							13,700
	Acre Inches Applied:	**30.80**						**Totals:**	**869**	**1,930,671**	**11,167**	**4,337**	**13,476**	**316,318**	**13,700**
Season Nitrogen Ratio:	0.82							**Lbs Per Acre:**			**141**	**55**	**171**	**4,004**	**173**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Dickenson

Corn, 56 Acres Planted on 04/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			784				
03/30/2023	Corral Solids: Main Corral	2.00	Tons	23.40	0.62	0.29	0.80	%	112		1,062	491	1,366	0	
04/25/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	34,454	
05/06/2023	Fertilize - UN32	15.00	Gallons		32.00	0.00	0.00	%			2,239	0	0	0	
05/06/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	33,103	
05/23/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	23,645	
06/02/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	34,454	
06/20/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	39,183	
07/01/2023	Fertilize - UN32	15.00	Gallons		32.00	0.00	0.00	%			2,239	0	0	0	
07/01/2023	Ground Water: Well Avg	5.30	Acre Inches		0.00			mg/L			0	0	0	35,805	
07/26/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	32,427	
08/08/2023	Harvest	28.60	Tons	74.50	0.59	0.26	1.01	%							4,836
	Acre Inches Applied:	**34.50**						**Totals:**	**112**		**6,324**	**491**	**1,366**	**233,071**	**4,836**
Season Nitrogen Ratio:	1.31							**Lbs Per Acre:**			**113**	**9**	**24**	**4,162**	**86**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Fargo

Wheat, 36 Acres Planted on 11/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/20/2022	Corral Solids: Main Corral	8.00	Tons	56.00	1.82	0.73	3.26	%	288		4,613	1,840	8,262	0	
12/02/2022	Ground Water: Well Avg	3.50	Acre Inches		0.72			mg/L			21	0	0	15,675	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			504				
02/06/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	18,675	
03/25/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	16,938	
05/05/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	15,634	
05/30/2023	Harvest	17.70	Tons	64.50	1.33	0.27	0.92	%							6,017
	Acre Inches Applied:	**15.30**						**Totals:**	**288**		**5,137**	**1,840**	**8,262**	**66,922**	**6,017**
Season Nitrogen Ratio:	0.85							**Lbs Per Acre:**			**143**	**51**	**230**	**1,859**	**167**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Fargo

Corn, 36 Acres Planted on 07/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/15/2023	Ground Water: Well Avg	5.70	Acre Inches		0.00			mg/L			0	0	0	24,755	
07/10/2023	Fertilize - UN32	30.00	Gallons		32.00	0.00	0.00	%			2,879	0	0	0	
07/10/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	24,321	
07/30/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	23,886	
08/15/2023	Fertilize - UN32	30.00	Gallons		32.00	0.00	0.00	%			2,879	0	0	0	
08/15/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	25,189	
09/04/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	21,280	
09/19/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	19,543	
10/10/2023	Harvest	26.40	Tons	69.90	1.19	0.30	1.21	%							6,808
	Acre Inches Applied:	**32.00**						**Totals:**			**5,758**	**0**	**0**	**138,974**	**6,808**
Season Nitrogen Ratio:	0.85							**Lbs Per Acre:**			**160**	**0**	**0**	**3,860**	**189**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Fruit

Wheat, 66 Acres Planted on 11/06/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/28/2022	Fertilize - M Import	6.00	Tons		1.43	0.40	0.28	%			11,326	3,168	2,218	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			924				
01/09/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	27,867	
02/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	32,644	
03/24/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	30,256	
04/10/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	33,441	
05/02/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	36,625	
05/30/2023	Harvest	17.90	Tons	66.00	1.34	0.27	1.12	%							10,765
	Acre Inches Applied:	**20.20**						**Totals:**			**12,250**	**3,168**	**2,218**	**160,833**	**10,765**
Season Nitrogen Ratio:	1.14							**Lbs Per Acre:**			**186**	**48**	**34**	**2,437**	**163**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Fruit

Corn, 66 Acres Planted on 07/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/05/2023	Fertilize - M Import	7.00	Tons		1.43	0.40	0.28	%			13,213	3,696	2,587	0	
07/06/2023	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	40,606	
07/18/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	43,792	
08/03/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	46,180	
08/24/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	37,422	
09/10/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	34,237	
09/21/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	36,625	
10/04/2023	Harvest	29.60	Tons	69.00	0.88	0.30	0.96	%							10,695
	Acre Inches Applied:	**30.00**						**Totals:**			**13,213**	**3,696**	**2,587**	**238,863**	**10,695**
Season Nitrogen Ratio:	1.24							**Lbs Per Acre:**			**200**	**56**	**39**	**3,619**	**162**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Lawton 1

Wheat, 73 Acres Planted on 11/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/28/2022	Fertilize - M Import	5.00	Tons		1.43	0.40	0.28	%			10,439	2,920	2,044	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
01/08/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	31,703	
01/08/2023	Waste Water: Main Lagoon	0.20	Acre Inches		250.00	59.80	423.00	mg/L		396,453	826	198	1,397	16,413	
02/15/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	37,868	
03/01/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	39,630	
03/23/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	33,465	
04/25/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	32,584	
05/30/2023	Harvest	17.60	Tons	68.30	1.17	0.31	1.11	%							9,530
	Acre Inches Applied:	**20.10**						**Totals:**		**396,453**	**12,287**	**3,118**	**3,441**	**191,663**	**9,530**
Season Nitrogen Ratio:	1.29							**Lbs Per Acre:**			**168**	**43**	**47**	**2,626**	**131**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Lawton 1

Corn, 73 Acres Planted on 07/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
07/12/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	39,630	
07/29/2023	Ground Water: Well Avg	5.60	Acre Inches		0.00			mg/L			0	0	0	49,317	
07/29/2023	Waste Water: Main Lagoon	1.10	Acre Inches		182.00	32.90	179.00	mg/L		2,180,490	3,305	598	3,251	35,419	
08/14/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	51,078	
08/14/2023	Waste Water: Main Lagoon	1.10	Acre Inches		182.00	32.90	179.00	mg/L		2,180,490	3,305	598	3,251	35,419	
08/30/2023	Ground Water: Well Avg	5.70	Acre Inches		0.00			mg/L			0	0	0	50,197	
09/12/2023	Ground Water: Well Avg	5.30	Acre Inches		0.00			mg/L			0	0	0	46,675	
09/12/2023	Waste Water: Main Lagoon	1.20	Acre Inches		218.00	56.80	313.00	mg/L		2,378,717	4,319	1,126	6,202	54,689	
09/30/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	43,152	
10/10/2023	Harvest	27.50	Tons	68.30	1.18	0.28	1.22	%							15,018
	Acre Inches Applied:	**35.20**						**Totals:**		**6,739,697**	**10,930**	**2,321**	**12,705**	**405,574**	**15,018**
Season Nitrogen Ratio:	0.73							**Lbs Per Acre:**			**150**	**32**	**174**	**5,556**	**206**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Lawton 2

Alfalfa, 76 Acres Planted on 11/10/2020

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
12/08/2022	Ground Water: Well Avg	3.50	Acre Inches		0.72			mg/L			43	0	0	33,093	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
01/15/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	33,006	
02/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	37,590	
02/28/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	42,175	
03/30/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	32,089	
04/28/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	34,840	
05/15/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	42,175	
06/01/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	38,508	
06/30/2023	Ground Water: Well Avg	5.00	Acre Inches		0.00			mg/L			0	0	0	45,842	
07/20/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	33,923	
08/01/2023	Ground Water: Well Avg	3.40	Acre Inches		0.00			mg/L			0	0	0	31,173	
08/25/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	36,674	
09/15/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	39,424	
11/20/2023	Harvest	9.10	Tons	8.16	4.00	0.33	3.35	%							50,814
	Acre Inches Applied:	**52.30**						**Totals:**			**1,107**	**0**	**0**	**480,512**	**50,814**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**15**	**0**	**0**	**6,323**	**669**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Maggini

Alfalfa, 94 Acres Planted on 11/09/2018

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,316				
01/08/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	44,226	
01/31/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	51,030	
02/20/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	54,432	
03/26/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	48,762	
04/16/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	44,226	
05/01/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	46,493	
06/05/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	39,690	
06/30/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	53,298	
07/20/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	47,628	
08/10/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	43,091	
09/15/2023	Ground Water: Well Avg	3.40	Acre Inches		0.00			mg/L			0	0	0	38,556	
11/20/2023	Harvest	8.90	Tons	7.78	3.53	0.27	3.13	%							54,469
	Acre Inches Applied:	**45.10**						**Totals:**			**1,316**	**0**	**0**	**511,431**	**54,469**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**5,441**	**579**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Mendes

Alfalfa, 74 Acres Planted on 11/13/2020

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,036				
01/15/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	31,245	
02/01/2023	Ground Water: Well Avg	4.00	Acre Inches		0.00			mg/L			0	0	0	35,709	
03/03/2023	Ground Water: Well Avg	3.80	Acre Inches		0.00			mg/L			0	0	0	33,923	
04/05/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	32,137	
05/10/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	37,494	
06/09/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	40,172	
07/10/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	43,743	
08/02/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	34,816	
09/10/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	41,958	
10/07/2023	Ground Water: Well Avg	3.70	Acre Inches		0.00			mg/L			0	0	0	33,031	
11/20/2023	Harvest	10.50	Tons	7.23	3.59	0.29	3.56	%							51,755
	Acre Inches Applied:	**40.80**						**Totals:**			**1,036**	**0**	**0**	**364,229**	**51,755**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**4,922**	**699**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Pacheco

Wheat, 133 Acres Planted on 11/01/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/02/2022	Corral Solids: Main Corral	10.00	Tons	56.00	1.82	0.73	3.26	%	1,330		21,301	8,497	38,155	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,862				
01/03/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	65,783	
02/05/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	78,619	
03/23/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	73,806	
04/18/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	68,992	
05/10/2023	Harvest	17.60	Tons	61.90	1.15	0.23	0.70	%							20,513
	Acre Inches Applied:	**17.90**						**Totals:**	**1,330**		**23,163**	**8,497**	**38,155**	**287,200**	**20,513**
Season Nitrogen Ratio:	1.13							**Lbs Per Acre:**			**174**	**64**	**287**	**2,159**	**154**

Field Name: Pacheco

Corn, 133 Acres Planted on 06/15/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/20/2023	Corral Solids: Main Corral	9.50	Tons	23.40	0.62	0.29	0.80	%	1,264		11,982	5,535	15,408	0	
06/20/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	72,202	
07/02/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	78,619	
07/30/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	93,060	
08/19/2023	Ground Water: Well Avg	5.70	Acre Inches		0.00			mg/L			0	0	0	91,455	
09/03/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	77,015	
09/18/2023	Harvest	27.40	Tons	70.20	0.65	0.32	1.11	%							14,030
	Acre Inches Applied:	**25.70**						**Totals:**	**1,264**		**11,982**	**5,535**	**15,408**	**412,351**	**14,030**
Season Nitrogen Ratio:	0.85							**Lbs Per Acre:**			**90**	**42**	**116**	**3,100**	**105**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Rodrigues 1

Alfalfa, 79 Acres Planted on 11/01/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,106				
01/06/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	33,356	
02/06/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	39,074	
03/25/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	34,309	
04/18/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	42,887	
05/09/2023	Ground Water: Well Avg	4.60	Acre Inches		0.00			mg/L			0	0	0	43,839	
06/01/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	46,698	
07/14/2023	Ground Water: Well Avg	5.00	Acre Inches		0.00			mg/L			0	0	0	47,652	
08/03/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	45,746	
09/05/2023	Ground Water: Well Avg	4.40	Acre Inches		0.00			mg/L			0	0	0	41,933	
10/15/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	40,028	
11/20/2023	Harvest	10.90	Tons	7.43	3.86	0.30	4.06	%							61,538
	Acre Inches Applied:	**43.60**						**Totals:**			**1,106**	**0**	**0**	**415,523**	**61,538**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**5,260**	**779**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Rodrigues 2

Alfalfa, 45 Acres Planted on 11/13/2020

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			630				
01/08/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	22,257	
02/09/2023	Ground Water: Well Avg	4.50	Acre Inches		0.00			mg/L			0	0	0	24,429	
03/30/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	26,058	
04/20/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	26,600	
05/18/2023	Ground Water: Well Avg	4.40	Acre Inches		0.00			mg/L			0	0	0	23,886	
06/14/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	22,801	
07/18/2023	Ground Water: Well Avg	4.70	Acre Inches		0.00			mg/L			0	0	0	25,515	
08/06/2023	Ground Water: Well Avg	4.30	Acre Inches		0.00			mg/L			0	0	0	23,343	
09/10/2023	Ground Water: Well Avg	4.40	Acre Inches		0.00			mg/L			0	0	0	23,886	
10/08/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	21,172	
11/20/2023	Harvest	8.80	Tons	7.90	3.50	0.21	2.74	%							25,530
	Acre Inches Applied:	**44.20**						**Totals:**			**630**	**0**	**0**	**239,948**	**25,530**
Season Nitrogen Ratio:	0.02							**Lbs Per Acre:**			**14**	**0**	**0**	**5,332**	**567**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Rodrigues 3

Wheat Hay, 17 Acres Planted on 11/15/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/19/2022	Corral Solids: Main Corral	10.00	Tons	56.00	1.82	0.73	3.26	%	170		2,723	1,086	4,877	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			238				
01/05/2023	Ground Water: Well Avg	3.50	Acre Inches		0.00			mg/L			0	0	0	7,178	
02/06/2023	Ground Water: Well Avg	4.10	Acre Inches		0.00			mg/L			0	0	0	8,408	
03/01/2023	Ground Water: Well Avg	3.90	Acre Inches		0.00			mg/L			0	0	0	7,998	
03/28/2023	Ground Water: Well Avg	3.60	Acre Inches		0.00			mg/L			0	0	0	7,383	
04/18/2023	Ground Water: Well Avg	4.20	Acre Inches		0.00			mg/L			0	0	0	8,614	
05/11/2023	Harvest	8.10	Tons	6.83	1.39	0.28	1.39	%							3,567
	Acre Inches Applied:	**19.30**						**Totals:**	**170**		**2,961**	**1,086**	**4,877**	**39,581**	**3,567**
Season Nitrogen Ratio:	0.83							**Lbs Per Acre:**			**174**	**64**	**287**	**2,328**	**210**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Field Name: Rodrigues 3

Corn, 17 Acres Planted on 07/01/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/01/2023	Corral Solids: Main Corral	8.00	Tons	23.40	0.62	0.29	0.80	%	136		1,290	596	1,659	0	
07/05/2023	Fertilize - UN32	38.00	Gallons		32.00	0.00	0.00	%			1,722	0	0	0	
07/05/2023	Ground Water: Well Avg	5.80	Acre Inches		0.00			mg/L			0	0	0	11,895	
07/30/2023	Ground Water: Well Avg	5.50	Acre Inches		0.00			mg/L			0	0	0	11,280	
08/15/2023	Ground Water: Well Avg	5.90	Acre Inches		0.00			mg/L			0	0	0	12,100	
09/01/2023	Ground Water: Well Avg	5.40	Acre Inches		0.00			mg/L			0	0	0	11,074	
09/26/2023	Ground Water: Well Avg	4.90	Acre Inches		0.00			mg/L			0	0	0	10,049	
10/04/2023	Harvest	29.60	Tons	69.20	0.76	0.31	0.96	%							2,350
	Acre Inches Applied:	**27.50**						**Totals:**	**136**		**3,012**	**596**	**1,659**	**56,398**	**2,350**
Season Nitrogen Ratio:	1.28							**Lbs Per Acre:**			**177**	**35**	**98**	**3,318**	**138**

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Fontes Dairy Farms - Dairy 2 2023

Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	Total N (Lbs)	Total P (Lbs)	Total K (Lbs)	Total Salts (Lbs)	Total Manure Applied	
Solid Manure	107,044.94	44,673.44	175,956.06	0.00	8,027.50	tons
Process Wastewater	85,975.83	12,857.66	82,945.41	797,045.48	41,479,822.51	gallons
Irrigation Water	154.36					
Fertilizer / Total Imports	66,898.13					
Atmospheric Deposition	23,632.00					
Total Nitrogen Applied	**283,705.26**					
Crop Nitrogen Removal	845,528.14					
Nitrogen Balance	**(561,822.88)**					
Nitrogen Ratio	**0.34**					

- **Nutrient applications shown in Attachment B are on a crop year basis.**
- **Lab sample data results for applications are based on the sample taken closest to the application date. Lab sample data results are shown on 100% dry basis for manure applications and harvest events.**
- **Well Avg: Irrigation source representing the average nutrient values of all irrigation wells sampled for the facility during the reporting year.**

**** Book Value: No sample data results were available. For manure applications and plant tissue harvests, the calculations were based off book values.**

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Fontes Dairy Farms - Dairy 2 2023
Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

"Field Nitrogen Ratio" = "Total Nitrogen Applied to Field" / "Total Nitrogen Extracted from Field at Harvest"

ATMOSHERIC DEPOSITION Applied (lbs) Calculation:

"Nitrogen Applied (Lbs)" = "14 Lbs (per year) * "Acres Planted"

HARVEST Nitrogen Extraction (Lbs) Calculation:

"Nitrogen Extracted (Lbs)" = ("Yield" (tons per acre) * 2000) * ((100 - "% Moisture") / 100 * "Lab Sample Data Nitrogen Value" / 100) * "Acres Planted"

IRRIGATION Nitrogen and Salts Applied (Lbs) Calculations:

"Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

"Salts Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

PROCESS WASTEWATER Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Nitrogen Value" * 0.000001) * "Acres Planted"

Phosphorus Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Phosphorus Value" * 0.000001) * "Acres Planted"

Potassium Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data Potassium Value" * 0.000001) * "Acres Planted"

Salt Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ("Lab Sample Data TDS Value" * 0.000001) * "Acres Planted"

SOLID MANURE (Corral, Separator, or Compost) Nitrogen, Phosphorus, Potassium and Salts Applied (Lbs) Calculations:

Nitrogen Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Nitrogen Value"/100) * "Acres Planted"

Phosphorus Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Phosphorus Value"/100) * "Acres Planted"

Potassium Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Potassium Value"/100) * "Acres Planted"

Salt Applied (Lbs)" = "Lbs Applied per Acre" (see below) * ((100 - "% Moisture")/100 * "Lab Sample Data Ash Value"/100) * "Acres Planted"

"Lbs Applied per Acre" Calculations:

If "Application Units" = Tons, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 2000

If "Application Units" = Acres Inches, Then "Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 *27,154.3

If "Application Units" = Acre Feet, Then Lbs Applied per Acre" = "Application Amount" (per Acre) * 8.33 * 325,851

If "Application Units" = Gallons, Then "Lbs Applied per Acre" = "Application Amount' (per Acre) * 8.33

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Fontes Dairy Farms - Dairy 2 2023

Estimated Manure and Process Wastewater/Nutrients Transferred Off-Site (Attachment C)

A. ESTIMATED TOTAL MANURE TRANSFERRED OFFSITE

Total Manure Exported (tons)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total Salts Exported (lbs)**

* The Total Manure (tons) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (N, P, K, Salts) (lbs) = Sum of (N, P, K, Salts) for each manure export event based on (Manure(tons) x 2000lb/ton) x ((100-moisture%)/100) x (N, P, K, and Ash) Concentration (%, dry weight) / 100 using the samples closest in date to the export event.

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

Total Process Wastewater Exported (gal)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total TDS Exported (lbs)**

* The Total Manure (gals) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (Nitrogen, Phosphorus, Potassium, TDS) (lbs) = Sum of (Nitrogen, Phosphorus, Potassium, TDS) for each wastewater export event based on (Process Wastewater(gals) x 8.33lb/gal) x (N03-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.

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Fontes Dairy Farms - Dairy 2 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
2 Dew N	x053 x090 x35S xxxx	52	Process Wastewater
2 Dew S	x053 x090 x35S xxxx	18	Process Wastewater
1 Dew 1	x053 x090 x17S xxxx, x053 x090 x18S xxxx	43	Process Wastewater
1 Dew 2	x053 x090 x17S xxxx	25	Process Wastewater
1 Dew 3	x053 x090 x17S xxxx	17	Process Wastewater
1 Dew 4	x053 x090 x17S xxxx, x053 x090 x18S xxxx	26	Process Wastewater
3 Dew 1	x053 x090 x31S xxxx	48	Both
Alves	x053 x090 x21S xxxx	73	None
Blair	x053 x041 x16S xxxx, x053 x041 x21S xxxx, x053 x041 x22S xxxx	44	Manure
Bryan	x053 x041 x44S xxxx	94	None
Devries 1	x053 x081 x20S xxxx, x053 x081 x21S xxxx, x053 x090 x19S xxxx	67	None
Devries 2	x053 x081 x18S xxxx, x053 x090 x27S xxxx	47	Both
Devries 3	x053 x081 x09S xxxx, x053 x081 x11S xxxx	73	Both
Devries 4	x053 x081 x09S xxxx	79	None
Devries 5	x053 x081 x09S xxxx	154	Manure
Devries 6	x053 x081 x09S xxxx	79	Both
Dickenson	x050 x240 x17S xxxx, x050 x240 x41S xxxx	56	Manure
Fargo	x004 x220 x110 x000	36	Manure
Fruit	x055 x260 x50S xxxx, x055 x260 x51S xxxx	66	None
Lawton 1	x053 x440 x01S xxxx	73	Process Wastewater
Lawton 2	x053 x440 x01S xxxx	76	None
Maggini	x053 x090 x35S xxxx, x053 x200 x22S xxxx	94	None
Mendes	x053 x120 x10S xxxx	74	None
Pacheco	x053 x390 x01S xxxx, x053 x390 x22S xxxx, x053 x400 x01S xxxx, x053 x400 x02S xxxx	133	Manure
Rodrigues 1	x053 x390 xx05 xxxx, x053 x390 xx17 xxxx , x053 x400 x13S xxxx	79	None
Rodrigues 2	x053 x390 xx17 xxxx	45	None

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Fontes Dairy Farms - Dairy 2 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
Rodrigues 3	x053 x390 x18S xxxx, x053 x390 x24S xxxx, x053 x390 xx17 xxxx	17	Manure
		1,688	

Production Area APN(s): x053 x090 x35S xxxx

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Fontes Dairy Farms - Dairy 2 2023

Lab Results Summary (Attachment E)

Process Wastewater

(mgl/ppm unless noted otherwise)

									General Minerals						
Sample Date:	**TKN**	**TP**	**TK**	**EC (umhos/cm)**	**NH4N**	**NO3N**	**TDS**	**pH (units)**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
03/09/2023	506.00	61.40	478.00	5,130	164.00		3,400.00								
06/16/2023	221.00	17.00	125.00	1,950	74.20	0.01	1,290.00	7.50							
07/14/2023	182.00	32.90	179.00	2,930	95.10		1,950.00								
11/09/2023	218.00	56.80	313.00	4,160	213.00		2,760.00								
Averages:	281.75	42.02	273.75	3,542	136.58	0.01	2,350.00	7.50							

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
06/06/2023	0.62	0.29	0.80	23.40						%
11/09/2023	1.42	0.60	1.57	45.80						%
Averages:	1.02	0.44	1.18	34.60						

Plant Tissue

(Dry Weight Basis)

Field:	**Crop #:**	**Crop**	**Sample Date:**	**TN (lbs/ton)**	**TP (lbs/ton)**	**TK (lbs/ton)**	**Moisture (%)**	**Ash (%)**
2 Dew N	1	Wheat	05/10/2023	21.40	4.36	16.20	61.80	8.38
2 Dew N	2	Corn	09/15/2023	18.46	5.56	24.00	67.60	13.60

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Fontes Dairy Farms - Dairy 2 2023
Lab Results Summary (Attachment E)

Plant Tissue
(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
2 Dew S	1	Wheat	05/10/2023	34.60	7.68	41.00	60.90	10.10
2 Dew S	2	Sorghum	10/28/2023	27.40	5.22	35.00	69.00	11.30
1 Dew 1	1	Wheat Hay	05/11/2023	28.60	5.44	28.80	6.71	10.30
1 Dew 1	2	Corn	10/04/2023	18.64	5.82	22.80	69.80	6.22
1 Dew 2	1	Wheat	05/10/2023	25.00	6.26	30.60	61.00	8.31
1 Dew 2	2	Corn	10/04/2023	19.26	5.22	21.40	69.10	6.08
1 Dew 3	1	Wheat	05/10/2023	22.40	4.44	18.06	62.30	9.07
1 Dew 3	2	Corn	10/04/2023	19.48	6.00	22.40	68.90	5.87
1 Dew 4	1	Wheat	05/30/2023	22.00	6.44	23.80	69.80	7.12
1 Dew 4	2	Corn	10/04/2023	18.30	6.12	21.80	69.50	6.05
3 Dew 1	1	Wheat	05/10/2023	22.80	4.54	19.60	62.70	8.54
3 Dew 1	2	Corn	10/04/2023	16.96	6.10	23.20	69.70	6.29
Alves	1	Alfalfa	11/20/2023	73.00	4.84	71.60	6.80	11.90
Blair	1	Alfalfa	11/20/2023	75.80	6.42	73.00	7.19	11.60
Bryan	1	Alfalfa	11/20/2023	68.40	5.74	65.40	7.10	10.30
Devries 1	1	Alfalfa	11/20/2023	67.00	4.42	24.00	8.19	7.36
Devries 2	1	Wheat	05/10/2023	36.20	8.06	40.20	60.70	10.30
Devries 2	2	Corn	09/21/2023	12.80	6.50	21.00	70.20	6.55

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Fontes Dairy Farms - Dairy 2 2023
Lab Results Summary (Attachment E)

Plant Tissue
(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
Devries 3	1	Wheat	05/10/2023	29.40	6.82	30.00	59.80	9.63
Devries 3	2	Corn	09/26/2023	16.84	5.58	21.80	68.50	5.60
Devries 4	1	Alfalfa	11/20/2023	79.00	5.92	66.00	7.82	11.20
Devries 5	1	Alfalfa	11/20/2023	65.20	4.98	53.00	6.93	13.50
Devries 6	1	Wheat	05/10/2023	28.40	6.30	31.00	62.30	9.49
Devries 6	2	Corn	09/21/2023	19.78	5.72	21.40	68.80	6.05
Dickenson	1	Corn	08/08/2023	11.84	5.10	20.20	74.50	5.74
Fargo	1	Wheat	05/30/2023	26.60	5.34	18.44	64.50	6.66
Fargo	2	Corn	10/10/2023	23.80	6.04	24.20	69.90	5.73
Fruit	1	Wheat	05/30/2023	26.80	5.48	22.40	66.00	7.14
Fruit	2	Corn	10/04/2023	17.66	6.08	19.26	69.00	5.77
Lawton 1	1	Wheat	05/30/2023	23.40	6.20	22.20	68.30	6.62
Lawton 1	2	Corn	10/10/2023	23.60	5.52	24.40	68.30	5.62
Lawton 2	1	Alfalfa	11/20/2023	80.00	6.54	67.00	8.16	11.80
Maggini	1	Alfalfa	11/20/2023	70.60	5.38	62.60	7.78	10.60
Mendes	1	Alfalfa	11/20/2023	71.80	5.82	71.20	7.23	11.60
Pacheco	1	Wheat	05/10/2023	23.00	4.58	13.92	61.90	8.08
Pacheco	2	Corn	09/18/2023	12.92	6.50	22.20	70.20	6.58

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Fontes Dairy Farms - Dairy 2 2023
Lab Results Summary (Attachment E)

Plant Tissue
(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
Rodrigues 1	1	Alfalfa	11/20/2023	77.20	6.06	81.20	7.43	12.10
Rodrigues 2	1	Alfalfa	11/20/2023	70.00	4.12	54.80	7.90	11.10
Rodrigues 3	1	Wheat Hay	05/11/2023	27.80	5.70	27.80	6.83	10.60
Rodrigues 3	2	Corn	10/04/2023	15.16	6.14	19.24	69.20	6.18

Well / Irrigation Water
(mgl/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals CA	MG	NA	HCO3	CO3	SO4	CL
Dairy														
DW1	03/01/2023	0.00		661		390.00		4.00	0.00	150.00	230.00	10.00	1.40	75.00
DW2	12/08/2023	0.00		715		430.00		5.00	0.00	148.00	260.00	0.00	0.00	89.00
	Averages:	0.00		688		410.00		4.50	0.00	149.00	245.00	5.00	0.70	82.00

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Fontes Dairy Farms - Dairy 2 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

								General Minerals						
	Sample Date:	**NO3N**	**TP**	**EC (umhos/cm)**	**NH4N ***	**TDS**	**TN**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
Domestic														
Alves DW	06/22/2023	0.00		871		510.00		12.00	0.00	165.00	260.00	0.00	11.90	126.00
Blair Dom	06/22/2023	0.00		1,260										
Devries DW	12/08/2023	0.00		906										
Dewey 2DW	06/22/2023	0.00		1,210		690.00		19.00	0.00	207.00	210.00	0.00	11.00	247.00
Dewey 3DW							Out of service							
DW3	06/22/2023	0.00		638										
Lawton DW	12/21/2023	0.00		676		430.00		8.00	0.00	161.00	270.00	0.00	22.10	35.00
	Averages:	0.00		927		543.33		13.00	0.00	177.67	246.67	0.00	15.00	136.00

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Fontes Dairy Farms - Dairy 2 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

							General Minerals						
	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Irrigation														
Alves IW							Did not run.							
Blair IW							Did not run.							
Bryan IW							Did not run.							
Devries IW#1							Did not run.							
Devries IW#2							Out of service.							
Devries IW#3A							Did not run.							
Devries IW#3B							Did not run.							
Dewey 1IW	10/18/2023	0.00		865		540.00	0.00	12.00	0.00	165.00	240.00	0.00	5.80	130.00
Dewey 2IW							Out of service.							
Dewey 3IW							Out of service.							
Dewey 3IWB	11/20/2023	0.00		899		570.00	0.00							
Dickenson IW							Did not run.							
Fargo IW1							Did not run.							
Fargo IW2							Did not run.							
Fargo IW3							Did not run.							
Fargo IW4							Did not run.							
Fargo IW5							Out of service.							
Fruit IW							Did not run.							
Harlan IW							Did not run.							

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Fontes Dairy Farms - Dairy 2 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

							General Minerals						
	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Irrigation														
IW#5							Did not run.							
Lawton IR							Out of service							
Lawton IR2							Did not run.							
Lawton IR3							Did not run.							
Maggini IW#1							Out of service							
Maggini IW#2							Out of service							
Maggini IW#3	12/08/2023	0.00		806		490.00	0.00							
Mendes IW							Out of service							
Pacheco IW#1							Did not run.							
Pacheco IW#2							Did not run.							
Rod IW#1							Did not run.							
Rod IW#2							Did not run.							
	Averages:	0.00		857		533.33	0.00	12.00	0.00	165.00	240.00	0.00	5.80	130.00

* NH4N was non-detectable unless a value is shown

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Fontes Dairy Farms - Dairy 2 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 2 Dew N								
	1	Wheat	52	11/02/2022	05/10/2023	18.0	925.6	17.8
	2	Corn	52	05/31/2023	09/15/2023	30.0	1508.0	29.0
Field: 2 Dew S								
	1	Wheat	18	11/01/2022	05/10/2023	18.3	333.0	18.5
	2	Sorghum	18	06/01/2023	10/28/2023	18.2	329.4	18.3
Field: 1 Dew 1								
	1	Wheat Hay	43	11/06/2022	05/11/2023	8.0	335.4	7.8
	2	Corn	43	06/20/2023	10/04/2023	30.0	1264.2	29.4
Field: 1 Dew 2								
	1	Wheat	25	11/01/2022	05/10/2023	18.8	475.0	19.0
	2	Corn	25	06/15/2023	10/04/2023	27.6	697.5	27.9
Field: 1 Dew 3								
	1	Wheat	17	11/01/2022	05/10/2023	19.2	360.4	21.2
	2	Corn	17	06/15/2023	10/04/2023	29.4	528.7	31.1
Field: 1 Dew 4								
	1	Wheat	26	11/01/2022	05/30/2023	18.7	535.6	20.6
	2	Corn	26	06/15/2023	10/04/2023	28.0	717.6	27.6
Field: 3 Dew 1								
	1	Wheat	48	11/01/2022	05/10/2023	18.4	993.6	20.7
	2	Corn	48	06/15/2023	10/04/2023	28.9	1497.6	31.2
Field: Alves								
	1	Alfalfa	73	11/04/2018	11/20/2023	10.1	846.8	11.6
Field: Blair								
	1	Alfalfa	44	11/01/2022	11/20/2023	10.0	506.0	11.5

INNOVATIVE AG SERVICES

Fontes Dairy Farms - Dairy 2 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: Bryan								
	1	Alfalfa	94	11/05/2021	11/20/2023	10.1	996.4	10.6
Field: Devries 1								
	1	Alfalfa	67	11/04/2019	11/20/2023	9.8	696.8	10.4
Field: Devries 2								
	1	Wheat	47	11/01/2022	05/10/2023	18.7	864.8	18.4
	2	Corn	47	06/15/2023	09/21/2023	27.5	1306.6	27.8
Field: Devries 3								
	1	Wheat	73	11/01/2022	05/10/2023	18.8	1445.4	19.8
	2	Corn	73	06/15/2023	09/26/2023	27.3	1934.5	26.5
Field: Devries 4								
	1	Alfalfa	79	11/08/2021	11/20/2023	8.8	742.6	9.4
Field: Devries 5								
	1	Alfalfa	154	11/01/2022	11/20/2023	10.4	1509.2	9.8
Field: Devries 6								
	1	Wheat	79	11/01/2022	05/10/2023	18.4	1422.0	18.0
	2	Corn	79	06/15/2023	09/21/2023	27.3	2219.9	28.1
Field: Dickenson								
	1	Corn	56	04/15/2023	08/08/2023	29.8	1601.6	28.6
Field: Fargo								
	1	Wheat	36	11/14/2022	05/30/2023	18.1	637.2	17.7
	2	Corn	36	07/01/2023	10/10/2023	27.3	950.4	26.4
Field: Fruit								
	1	Wheat	66	11/06/2022	05/30/2023	18.1	1181.4	17.9
	2	Corn	66	07/01/2023	10/04/2023	28.2	1953.6	29.6

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Fontes Dairy Farms - Dairy 2 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: Lawton 1								
	1	Wheat	73	11/14/2022	05/30/2023	18.1	1284.8	17.6
	2	Corn	73	07/01/2023	10/10/2023	28.2	2007.5	27.5
Field: Lawton 2								
	1	Alfalfa	76	11/10/2020	11/20/2023	9.3	691.6	9.1
Field: Maggini								
	1	Alfalfa	94	11/09/2018	11/20/2023	9.8	836.6	8.9
Field: Mendes								
	1	Alfalfa	74	11/13/2020	11/20/2023	9.3	777.0	10.5
Field: Pacheco								
	1	Wheat	133	11/01/2022	05/10/2023	16.8	2340.8	17.6
	2	Corn	133	06/15/2023	09/18/2023	28.2	3644.2	27.4
Field: Rodrigues 1								
	1	Alfalfa	79	11/01/2021	11/20/2023	9.3	861.1	10.9
Field: Rodrigues 2								
	1	Alfalfa	45	11/13/2020	11/20/2023	9.3	396.0	8.8
Field: Rodrigues 3								
	1	Wheat Hay	17	11/15/2022	05/11/2023	7.8	137.7	8.1
	2	Corn	17	07/01/2023	10/04/2023	27.9	503.2	29.6

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Fontes Dairy Farms - Dairy 2 2023

Weather Data (Attachment G)

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	None	None	Light	None	None	None	None	None	None	None	None	None
2	Light	None	None	None	None	None	None	None	None	None	None	None
3	None	None	None	None	None	None	None	None	None	None	None	None
4	Light	None	None	None	None	None	None	None	None	None	None	None
5	Heavy	None	Light	None	None	None	None	None	None	None	None	None
6	Light	None	Light	None	None	None	None	None	None	None	None	None
7	None	None	None	None	None	None	None	None	None	None	None	None
8	None	None	None	None	None	None	None	None	None	None	None	None
9	Light	None	Light	None	None	None	None	None	None	None	None	None
10	Light	None	Light	None	None	None	None	None	None	None	None	None
11	None	None	None	None	None	None	None	None	None	None	None	None
12	SWP	None	None	None	None	None	None	None	None	None	None	None
13	Light	None	None	None	None	None	None	None	None	None	None	None
14	SWP	None	None	None	None	None	None	None	None	None	None	None
15	Light	None	Heavy	None	None	None	None	None	None	None	None	None
16	Light	None	None	None	None	None	None	None	None	None	None	None
17	None	None	None	None	None	None	None	None	None	None	None	None
18	None	None	None	None	None	None	None	None	None	None	None	None
19	None	None	Heavy	None	None	None	None	None	None	None	None	Light
20	None	None	None	None	None	None	None	None	None	None	None	SWP
21	None	None	Heavy	None	None	None	None	None	None	None	None	None
22	None	None	Light	None	None	None	None	None	None	None	None	None
23	None	None	None	None	None	None	None	None	None	None	None	None
24	None	SWP	None	None	None	None	None	None	None	None	None	None
25	None	SWP	None	None	None	None	None	None	None	None	None	None
26	None	None	None	None	None	None	None	None	None	None	None	None
27	None	Light	None	None	None	None	None	None	None	None	None	None
28	None	None	Light	None	None	None	None	None	None	None	None	None
29	Light		None	None	None	None	None	None	None	None	None	Light
30	None		None	None	None	None	None	None	None	None	None	SWP
31	None		None		None		None	None		None		None

*Note: SWP = Standing Water Present

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

March 9, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Lab No. : **VI 2341268**
Customer No. : **4018573**
Reference : **40252**

Laboratory Report

Introduction: This report package contains a total of 4 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	(2 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
DW 1	03/01/2023	03/01/2023	VI 2341268-001	DW

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 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 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)

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: 2023-03-14

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

March 9, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Description : DW 1
Project : 0122 Fontes Dairy #2

Lab No. : VI 2341268-001
Customer No. : 4018573
Reference : 40252
Sampled On : March 1, 2023 at 12:30
Sampled By : Sean
Received On : March 1, 2023 at 16:01
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	210	10	mg/L		1		03/06/2023	13:57	amm	SM 4500-H+B	03/07/2023	03:28	amm
Bicarbonate	230	10	mg/L		1		03/06/2023	13:57	amm	SM 4500-H+B	03/07/2023	03:28	amm
Carbonate	10	10	mg/L		1		03/06/2023	13:57	amm	SM 4500-H+B	03/07/2023	03:28	amm
Hydroxide	10	10	mg/L		1		03/06/2023	13:57	amm	SM 4500-H+B	03/07/2023	03:28	amm
Chloride	75	1	mg/L	500[2]	1		03/02/2023	11:36	ldm	EPA 300.0	03/02/2023	19:49	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	U	03/02/2023	11:36	ldm	EPA 300.0	03/02/2023	19:49	ldm
Conductivity	661	1	umhos/cm	1600[2]	1		03/06/2023	13:57	amm	SM 4500-H+B	03/07/2023	03:28	amm
Sulfate Sulfur	1.40	0.17	mg/L		1		03/02/2023	11:36	ldm	EPA 300.0	03/02/2023	19:49	ldm
Solids, Total Dissolved (TDS)	390	20	mg/L	1000[2]	1		03/03/2023	12:00	ctl	SM 2540 C	03/06/2023	10:30	ctl
Calcium	4	1	mg/L		1		03/06/2023	02:50	ejc	EPA 200.7	03/06/2023	12:16	ac
Magnesium	ND	1	mg/L		1	Ul	03/06/2023	02:50	ejc	EPA 200.7	03/06/2023	12:16	ac
Potassium	1	1	mg/L		1	l	03/06/2023	02:50	ejc	EPA 200.7	03/06/2023	12:16	ac
Sodium	150	1	mg/L		1	l	03/06/2023	02:50	ejc	EPA 200.7	03/06/2023	12:16	ac

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

March 9, 2023
Innovative Ag Services, LLC

Lab No. : VI 2341268
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	03/06/2023:202373EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	110 %	85-115	
			MS	mg/L	12.00	-18.3 %	<¼	
		(SP 2302953-002)	MSD	mg/L	12.00	36.3 %	<¼	
			MSRPD	mg/L	4.000	8.4%	≤20.0	
			MS	mg/L	12.00	-8.3 %	<¼	
		(SP 2302953-004)	MSD	mg/L	12.00	29.9 %	<¼	
			MSRPD	mg/L	4.000	5.8%	≤20.0	
Magnesium	200.7	03/06/2023:202373EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	104 %	85-115	
			MS	mg/L	12.00	-4.5 %	75-125	435
		(SP 2302953-002)	MSD	mg/L	12.00	7.2 %	75-125	435
			MSRPD	mg/L	4.000	7.9%	≤20	
			MS	mg/L	12.00	-2.2 %	75-125	435
		(SP 2302953-004)	MSD	mg/L	12.00	7.0 %	75-125	435
			MSRPD	mg/L	4.000	6.3%	≤20	
Potassium	200.7	03/06/2023:202373EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101 %	85-115	
			MS	mg/L	12.00	-4.1 %	75-125	435
		(SP 2302953-002)	MSD	mg/L	12.00	6.0 %	75-125	435
			MSRPD	mg/L	4.000	8.6%	≤20.0	
			MS	mg/L	12.00	-2.6 %	75-125	435
		(SP 2302953-004)	MSD	mg/L	12.00	4.1 %	75-125	435
			MSRPD	mg/L	4.000	7.5%	≤20.0	
Sodium	200.7	03/06/2023:202373EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	109 %	85-115	
			MS	mg/L	12.00	-15.3 %	75-125	435
		(SP 2302953-002)	MSD	mg/L	12.00	13.6 %	75-125	435
			MSRPD	mg/L	4.000	8.0%	≤20.0	
			MS	mg/L	12.00	-5.6 %	<¼	
		(SP 2302953-004)	MSD	mg/L	12.00	16.6 %	<¼	
			MSRPD	mg/L	4.000	4.9%	≤20.0	

Definition

<¼ : 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.
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 analyted. 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

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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March 9, 2023
Innovative Ag Services, LLC

Lab No. : VI 2341268
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	03/06/2023:202435AMM	ND	mg/L		1.43%	10	435
Bicarbonate	2320B	(CC 2380676-001)	Dup	mg/L		1.59%	10	
E. C.	2320B	(CC 2380676-001)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	03/03/2023:202349CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	992.0	98.7%	90-110	
		(VI 2341269-001)	Dup	mg/L		1.85%	5	
		(VI 2341269-001)	Dup	mg/L		0.4%	5	
Chloride	300.0	03/02/2023:202364LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	94.3 %	90-110	
			MS	mg/L	50.00	92.4 %	85-121	
		(CH 2371299-001)	MSD	mg/L	50.00	96.0 %	85-121	
			MSRPD	mg/L	10.00	3.5%	≤19	
			MS	mg/L	50.00	95.0 %	85-121	
		(CH 2371298-001)	MSD	mg/L	50.00	101 %	85-121	
			MSRPD	mg/L	10.00	6.0%	≤19	
Nitrate Nitrogen	300.0	03/02/2023:202364LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	94.1 %	90-110	
			MS	mg/L	40.00	94.5 %	85-119	
		(CH 2371299-001)	MSD	mg/L	40.00	98.2 %	85-119	
			MSRPD	mg/L	10.00	3.6%	≤19	
			MS	mg/L	40.00	96.7 %	85-119	
		(CH 2371298-001)	MSD	mg/L	40.00	103 %	85-119	
			MSRPD	mg/L	10.00	5.9%	≤19	
Sulfate Sulfur	300.0	03/02/2023:202364LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	93.8 %	90-110	
			MS	mg/L	100.0	93.2 %	82-124	
		(CH 2371299-001)	MSD	mg/L	100.0	97.0 %	82-124	
			MSRPD	mg/L	10.00	3.9%	≤23	
			MS	mg/L	100.0	95.3 %	82-124	
		(CH 2371298-001)	MSD	mg/L	100.0	102 %	82-124	
			MSRPD	mg/L	10.00	6.4%	≤23	

Definition

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 analyted. 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

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Page 4 of 4

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Laboratory Analysis Work Order

Nº 40252

ID: # 0122 2341268

SITE NAME: FONTES DAIRY #2

Billing: IAS

LABORATORY: FGL

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO_3N (Dom)

W2 EC, NO_3N, TDS, TN (Irr) RQI 12.6

W3 NH_4-N (Ammonium)

W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)

W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)

W6 NO_3N, NO_2 (Dom ILRP, Annually)

W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant Tissue

P1 TN, NO_3N, PO_4P, 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, NH_4N, TKN, TP, TK, TDS (Quarterly)

L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)

L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S

S2 S1 + CEC, CaCO3, OM, C:N, TN

S3 NO_3N, NH_4N

S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	DIN 1	Dom	NH4	3/1/23 12:30	SEAN	Ø		
2								
3								
4								
5								
6								
7								
8								

* 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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	IAS		3/1/23 2:30
2nd	EMA	FGL	3/1/23 15:45	
3rd	EMA	FGL		3/1/23 16:01
4th	[signature]		3/1/23 1601	

LABORATORY USE ONLY

Logged In By: [signature] Total Samples: 3/1/23 Laboratory #: _____

GLS MC 3/2/23 1205

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

July 11, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Lab No. : **VI 2343996**
Customer No. : **4018573**
Reference : **40718**

Laboratory Report

Introduction: This report package contains a total of 8 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(4 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
Dewey 2 DW	06/22/2023	06/22/2023	VI 2343996-001	DW
Alves DW	06/22/2023	06/22/2023	VI 2343996-002	DW
Blair Dom	06/22/2023	06/22/2023	VI 2343996-003	DW
DW3	06/22/2023	06/22/2023	VI 2343996-004	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)
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: 2023-07-11

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

July 11, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Lab No. : VI 2343996-001
Customer No. : 4018573
Reference : 40718
Sampled On : June 22, 2023 at 12:20
Sampled By : Henry
Received On : June 22, 2023 at 16:20
Matrix : Drinking Water

Description : Dewey 2 DW
Project : 0122 Fontes Dairy Farms - Dairy 2

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Alkalinity (as CaCO3)	170	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:02	amm
Bicarbonate	210	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:02	amm
Carbonate	ND	10	mg/L		1	J	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:02	amm
Hydroxide	ND	10	mg/L		1	J	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:02	amm
Chloride	247	5*	mg/L	500[2]	5		06/23/2023	14:10	ldm	EPA 300.0	06/24/2023	05:01	ldm
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	06/23/2023	12:00	lfs	SM 4500-NO3 F	06/23/2023	14:38	lfs
Conductivity	1210	1	umhos/cm	1600[2]	1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:02	amm
Sulfate Sulfur	11.0	0.17	mg/L		1		06/23/2023	14:10	ldm	EPA 300.0	06/24/2023	00:09	ldm
Solids, Total Dissolved (TDS)	690	20	mg/L	1000[2]	1		06/26/2023	10:50	ctl	SM 2540 C	06/27/2023	11:35	ctl
Calcium	19	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	15:15	ac
Magnesium	ND	1	mg/L		1	Jl	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	15:15	ac
Potassium	ND	1	mg/L		1	J	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	15:15	ac
Sodium	207	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	15:15	ac

DQF Flags Definition:
J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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Analytical Chemists

July 11, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Lab No. : VI 2343996-002
Customer No. : 4018573
Reference : 40718
Sampled On : June 22, 2023 at 12:40
Sampled By : Henry
Received On : June 22, 2023 at 16:20
Matrix : Drinking Water

Description : Alves DW
Project : 0122 Fontes Dairy Farms - Dairy 2

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Alkalinity (as CaCO3)	220	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:12	amm
Bicarbonate	260	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:12	amm
Carbonate	ND	10	mg/L		1	J	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:12	amm
Hydroxide	ND	10	mg/L		1	J	06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:12	amm
Chloride	126	2*	mg/L	500[2]	2		07/05/2023	12:39	ldm	EPA 300.0	07/05/2023	16:26	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	Ul	06/23/2023	14:10	ldm	EPA 300.0	06/24/2023	00:30	ldm
Conductivity	871	1	umhos/cm	1600[2]	1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	00:12	amm
Sulfate Sulfur	11.9	0.17	mg/L		1		06/23/2023	14:10	ldm	EPA 300.0	06/24/2023	00:30	ldm
Solids, Total Dissolved (TDS)	510	20	mg/L	1000[2]	1		06/26/2023	10:50	ctl	SM 2540 C	06/27/2023	11:35	ctl
Calcium	12	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:14	ac
Magnesium	ND	1	mg/L		1	Jl	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:14	ac
Potassium	ND	1	mg/L		1	J	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:14	ac
Sodium	165	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:14	ac

DQF Flags Definition:
J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

July 11, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Description : Blair Dom
Project : 0122 Fontes Dairy Farms - Dairy 2

Lab No. : VI 2343996-003
Customer No. : 4018573
Reference : 40718
Sampled On : June 22, 2023 at 13:00
Sampled By : Henry
Received On : June 22, 2023 at 16:20
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:24	lcr
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	06/23/2023	12:00	lfs	SM 4500-NO3 F	06/23/2023	14:41	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/06/2023	18:24	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L	10	1	U	06/23/2023	12:00	lfs	SM 4500-NO3 F	06/23/2023	14:41	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:24	lcr
Conductivity	1260	1	umhos/cm	1600[2]	1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:57	amm
Solids, Total Dissolved (TDS)	830	20	mg/L	1000[2]	1		06/26/2023	10:50	ctl	SM 2540 C	06/27/2023	11:35	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

July 11, 2023

Innovative Ag Services, LLC
1201 Delta View Road Suite 5
Hanford, CA 93230

Description : DW3
Project : 0122 Fontes Dairy Farms - Dairy 2

Lab No. : VI 2343996-004
Customer No. : 4018573
Reference : 40718
Sampled On : June 22, 2023 at 13:17
Sampled By : Henry
Received On : June 22, 2023 at 16:20
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:27	lcr
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	06/23/2023	12:00	lfs	SM 4500-NO3 F	06/23/2023	14:43	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/06/2023	18:27	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L	10	1	U	06/23/2023	12:00	lfs	SM 4500-NO3 F	06/23/2023	14:43	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/06/2023	18:27	lcr
Conductivity	638	1	umhos/cm	1600[2]	1		06/27/2023	21:22	amm	SM 4500-H+B	06/28/2023	06:49	amm
Solids, Total Dissolved (TDS)	390	20	mg/L	1000[2]	1		06/26/2023	10:50	ctl	SM 2540 C	06/27/2023	11:35	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

July 11, 2023
Innovative Ag Services, LLC

Lab No. : VI 2343996
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	06/26/2023:206994EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.5%	85-115	
			MS	mg/L	12.00	88.3%	75-125	
		(CH 2374430-002)	MSD	mg/L	12.00	68.3%	75-125	435
			MSRPD	mg/L		7.4%	≤20.0	
			MS	mg/L	12.00	88.9%	75-125	
		(CH 2374430-001)	MSD	mg/L	12.00	15.5%	<1/4	
			MSRPD	mg/L		13.7%	≤20.0	
Magnesium	200.7	06/26/2023:206994EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101%	85-115	
			MS	mg/L	12.00	94.0%	75-125	
		(CH 2374430-002)	MSD	mg/L	12.00	88.2%	75-125	
			MSRPD	mg/L		3.5%	≤20	
			MS	mg/L	12.00	99.4%	75-125	
		(CH 2374430-001)	MSD	mg/L	12.00	67.6%	75-125	435
			MSRPD	mg/L		13.1%	≤20	
Potassium	200.7	06/26/2023:206994EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	97.5%	85-115	
			MS	mg/L	12.00	102%	75-125	
		(CH 2374430-002)	MSD	mg/L	12.00	98.1%	75-125	
			MSRPD	mg/L		3.8%	≤20.0	
			MS	mg/L	12.00	104%	75-125	
		(CH 2374430-001)	MSD	mg/L	12.00	93.2%	75-125	
			MSRPD	mg/L		10.1%	≤20.0	
Sodium	200.7	06/26/2023:206994EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	100%	85-115	
			MS	mg/L	12.00	102%	75-125	
		(CH 2374430-002)	MSD	mg/L	12.00	90.4%	75-125	
			MSRPD	mg/L		6.3%	≤20.0	
			MS	mg/L	12.00	102%	75-125	
		(CH 2374430-001)	MSD	mg/L	12.00	70.7%	75-125	435
			MSRPD	mg/L		13.4%	≤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 analyted. 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

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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July 11, 2023
Innovative Ag Services, LLC

Lab No. : VI 2343996
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	06/26/2023:207047AMM	ND	mg/L		0.5%	10	435
Bicarbonate	2320B	(VI 2343957-001)	Dup	mg/L		0%	10	
Carbonate	2320B	(VI 2343957-001)	Dup	mg/L		1.44%	10	
E. C.	2320B	(VI 2343957-001)	Dup	umhos/cm		0%	5	
	2320B	(VI 2343995-001)	Dup	umhos/cm		0.9%	5	
Solids, Total Dissolved	2540CE	06/26/2023:207015CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	99.3%	90-110	
		(VI 2343996-003)	Dup	mg/L		1.70%	5	
		(VI 2343996-003)	Dup	mg/L		1.22%	5	
Chloride	300.0	06/23/2023:207017LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	102 %	90-110	
			MS	mg/L	50.00	92.9 %	85-121	
		(CH 2374430-001)	MSD	mg/L	50.00	95.0 %	85-121	
			MSRPD	mg/L	10.00	1.4%	≤19	
			MS	mg/L	50.00	97.3 %	85-121	
		(SP 2310593-001)	MSD	mg/L	50.00	102 %	85-121	
			MSRPD	mg/L	10.00	4.0%	≤19	
	300.0	07/05/2023:207333LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	104 %	90-110	
			MS	mg/L	50.00	100 %	85-121	
		(CC 2382138-001)	MSD	mg/L	50.00	97.0 %	85-121	
			MSRPD	mg/L	10.00	2.8%	≤19	
Nitrate Nitrogen	300.0	06/23/2023:207017LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102 %	90-110	
			MS	mg/L	40.00	66.1 %	85-119	435
		(CH 2374430-001)	MSD	mg/L	40.00	30.9 %	85-119	435
			MSRPD	mg/L	10.00	15.8%	≤19	
			MS	mg/L	40.00	98.9 %	85-119	
		(SP 2310593-001)	MSD	mg/L	40.00	103 %	85-119	
			MSRPD	mg/L	10.00	4.5%	≤19	
Sulfate Sulfur	300.0	06/23/2023:207017LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	103 %	90-110	
			MS	mg/L	100.0	100 %	82-124	
		(CH 2374430-001)	MSD	mg/L	100.0	102 %	82-124	
			MSRPD	mg/L	10.00	2.0%	≤23	
			MS	mg/L	100.0	96.0 %	82-124	
		(SP 2310593-001)	MSD	mg/L	100.0	100 %	82-124	
			MSRPD	mg/L	10.00	3.7%	≤23	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.2%	73-124	
			MS	mg/L	12.00	95.3%	54-136	
		(VI 2343915-003)	MSD	mg/L	12.00	93.4%	54-136	
			MSRPD	mg/L		1.9%	≤27	
			MS	mg/L	12.00	93.4%	54-136	
		(VI 2343914-003)	MSD	mg/L	12.00	90.6%	54-136	
			MSRPD	mg/L		3.0%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/23/2023:206936LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.6%	80-120	
			MS	mg/L	5.609	97.7%	66-125	
		(STK2338325-001)	MSD	mg/L	5.609	94.9%	66-125	

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July 11, 2023
Innovative Ag Services, LLC

Lab No. : VI 2343996
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
			MSRPD	mg/L		1.8%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/23/2023:206936LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.6%	80-120	
			MS	mg/L	5.609	97.7%	66-125	
		(STK2338325-001)	MSD	mg/L	5.609	94.9%	66-125	
			MSRPD	mg/L		1.8%	≤30.4	

Definition

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 analyted. 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

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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2343996

Laboratory Analysis Work Order

Nº 40718

R01
9.3°

ID: #0122

SITE NAME: Fontes Dairy Farm - Dairy 2

Billing: IAS

LABORATORY: FGL 2343996

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO_3N (Dom)
W2 EC, NO_3N, TDS, TN (Irr)
W3 NH_4-N (Ammonium)
W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
W6 NO_3N, NO_2 (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
W8 Other: _____

Process Waste Water (lagoon)

L1 EC, NH_4N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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: _____

Plant Tissue

P1 TN, NO_3N, PO_4P, 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: _____

Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
S2 S1 + CEC, CaCO3, OM, C:N, TN
S3 NO_3N, NH_4N
S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS NH_3N*	pH	Temp
1	Dairy 2 DW	Dom	W4	12:20 6/22	Henry	—		
2	Alves DW	"	"	12:40 6/22	"	—		
3	Blair Dom	"	W2	1:00 6/22	"	—		
4	DW 3	"	"	1:17 6/22	"	—		
5								
6								
7								
8								

* 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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	IAS		2:00 6/22/23
2nd	[signature]	FGL	6-22-23 16:10	
3rd	[signature]	FGL		6-22-23 16:20
4th	SRO	FGL	6/22/23 1620	
	SRO	FGL	6/22/23 1730	
		GLS	6/22/23 1730	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory #: [signature] 6/22/23 1830

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 6, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : **VI 2347066**
Customer No. : **4018573**
Reference : **41548**

Laboratory Report

Introduction: This report package contains a total of 5 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	(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
Dewey 1 IW	10/18/2023	10/18/2023	VI 2347066-001	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 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)
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)

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: 2023-11-08

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 6, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Dewey 1 IW
Project : 0122 Fontes Dairy Farms-Dairy 2

Lab No. : VI 2347066-001
Customer No. : 4018573
Reference : 41548
Sampled On : October 18, 2023 at 12:15
Sampled By : Zeke
Received On : October 18, 2023 at 16:15
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	210	10	mg/L		1		10/23/2023	18:31	amm	SM 4500-H+B	10/24/2023	00:05	amm
Bicarbonate	240	10	mg/L		1		10/23/2023	18:31	amm	SM 4500-H+B	10/24/2023	00:05	amm
Carbonate	ND	10	mg/L		1	U	10/23/2023	18:31	amm	SM 4500-H+B	10/24/2023	00:05	amm
Hydroxide	ND	10	mg/L		1	U	10/23/2023	18:31	amm	SM 4500-H+B	10/24/2023	00:05	amm
Chloride	130	3*	mg/L		3		10/19/2023	12:59	ldm	EPA 300.0	10/21/2023	15:36	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	11/01/2023	13:01	sta	EPA 351.2	11/03/2023	17:58	lcr
Nitrate Nitrogen	ND	0.1	mg/L		1	U	10/19/2023	12:59	ldm	EPA 300.0	10/20/2023	18:39	ldm
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	Ul	11/01/2023	13:01	sta	Calc.	11/03/2023	17:58	lcr
Nitrate + Nitrite as N	ND	0.1	mg/L		1	U	10/19/2023	12:59	ldm	EPA 300.0	10/20/2023	18:39	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	11/01/2023	13:01	sta	EPA 351.2	11/03/2023	17:58	lcr
Conductivity	865	1	umhos/cm		1		10/23/2023	18:31	amm	SM 4500-H+B	10/24/2023	00:05	amm
Sulfate Sulfur	5.8	0.17	mg/L		1		10/19/2023	12:59	ldm	EPA 300.0	10/20/2023	18:39	ldm
Solids, Total Dissolved (TDS)	540	20	mg/L		1		10/20/2023	11:30	ctl	SM 2540 C	10/23/2023	10:50	ctl
Calcium	12	1	mg/L		1		10/23/2023	06:45	ejc	EPA 200.7	10/24/2023	11:44	ac
Magnesium	ND	1	mg/L		1	Ulh	10/23/2023	06:45	ejc	EPA 200.7	10/24/2023	11:44	ac
Sodium	165	1	mg/L		1		10/23/2023	06:45	ejc	EPA 200.7	10/24/2023	11:44	ac

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.
h The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 6, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347066
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	10/23/2023:211914EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101%	85-115	
			MS	mg/L	12.00	27.9%	<¼	406
		(CC 2383705-001)	MSD	mg/L	12.00	54.8%	<1/4	
			MSRPD	mg/L		3.5%	≤20.0	
			MS	mg/L	12.00	148%	<¼	406
		(STK2354271-001)	MSD	mg/L	12.00	120%	75-125	
			MSRPD	mg/L		4.9%	≤20.0	
Magnesium	200.7	10/23/2023:211914EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	94.9%	85-115	
			MS	mg/L	12.00	68.8%	75-125	435
		(CC 2383705-001)	MSD	mg/L	12.00	80.7%	75-125	
			MSRPD	mg/L		3.4%	≤20	
			MS	mg/L	12.00	126%	75-125	435
		(STK2354271-001)	MSD	mg/L	12.00	104%	75-125	
			MSRPD	mg/L		5.5%	≤20	
Sodium	200.7	10/23/2023:211914EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.6%	85-115	
			MS	mg/L	12.00	2740%	<¼	406
		(CC 2383705-001)	MSD	mg/L	12.00	708%	<1/4	
			MSRPD	mg/L		16.9%	≤20.0	
			MS	mg/L	12.00	288%	<¼	406
		(STK2354271-001)	MSD	mg/L	12.00	127%	<1/4	
			MSRPD	mg/L		6.7%	≤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 analyted. 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.
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Page 3 of 5

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November 6, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347066
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	10/23/2023:211974AMM	ND	mg/L		0.01%	10	435
Bicarbonate	2320B	(VI 2346975-001)	Dup	mg/L		0%	10	
E. C.	2320B	(VI 2346975-001)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	10/20/2023:211876CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	103%	90-110	
		(CH 2379072-003)	Dup	mg/L		3.77%	5	
		(CH 2379072-003)	Dup	mg/L		0.8%	5	
Chloride	300.0	10/19/2023:211933LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	102%	90-110	
			MS	mg/L	50.00	97.7%	67-117	
		(SP 2317671-001)	MSD	mg/L	50.00	98.1%	67-117	
			MSRPD	mg/L		0.3%	≤7	
			MS	mg/L	50.00	98.3%	67-117	
		(SP 2317664-008)	MSD	mg/L	50.00	98.6%	67-117	
			MSRPD	mg/L		0.2%	≤7	
Nitrate + Nitrite as N	300.0	10/19/2023:211933LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	101%	90-110	
			MS	mg/L	40.00	102%	86-112	
		(SP 2317671-001)	MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	101%	86-112	
		(SP 2317664-008)	MSD	mg/L	40.00	101%	86-112	
			MSRPD	mg/L		0.0%	≤7	
Nitrate Nitrogen	300.0	10/19/2023:211933LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	101%	90-110	
			MS	mg/L	40.00	102%	86-112	
		(SP 2317671-001)	MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	101%	86-112	
		(SP 2317664-008)	MSD	mg/L	40.00	101%	86-112	
			MSRPD	mg/L		0.0%	≤7	
Sulfate Sulfur	300.0	10/19/2023:211933LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102%	90-110	
			MS	mg/L	100.0	92.4%	18-165	
		(SP 2317671-001)	MSD	mg/L	100.0	92.8%	18-165	
			MSRPD	mg/L		0.3%	≤7	
			MS	mg/L	100.0	93.1%	18-165	
		(SP 2317664-008)	MSD	mg/L	100.0	93.5%	18-165	
			MSRPD	mg/L		0.2%	≤7	
Nitrogen, Total Kjeldahl	351.2	11/01/2023:212413STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	92.7%	73-124	
			MS	mg/L	12.00	89.4%	90-110	435
		(VI 2347084-006)	MSD	mg/L	12.00	90.9%	90-110	
			MSRPD	mg/L		1.6%	≤20	
			MS	mg/L	12.00	81.1%	90-110	435
		(VI 2347084-007)	MSD	mg/L	12.00	79.4%	90-110	435
			MSRPD	mg/L		2.0%	≤20	

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Definition

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 analyted. 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

435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Laboratory Analysis Work Order

R01 3.8°C

Nº 41548

23467066

ID: # 0122

LABORATORY: FGL

SITE NAME: FONTES DAIRY FARMS - DAIRY 2

Authorized Copy Release to:

Billing: IAS

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO_3N (Dom)
W2 EC, NO_3N, TDS, TN (Irr)
W3 NH_4-N (Ammonium)
W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
W6 NO_3N, NO_2 (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
W8 Other: _____

IAS TH467

Process Waste Water (lagoon)

L1 EC, NH_4N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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: _____

Plant Tissue

P1 TN, NO_3N, PO_4P, 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: _____

Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
S2 S1 + CEC, CaCO3, OM, C:N, TN
S3 NO_3N, NH_4N
S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	DEW8Y1IW	IRR	W5	10-18 / 12:15	Zalez			
2								
3								
4								
5								
6								
7								
8								

* 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 sampes, please note below.

NOTES: GLS 10/19/23
CDA 1212

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st		IAS		10-18-23 / 3:15
2nd		FGL	10-18-23 16:00	
3rd		FGL		10-18-23 16:15
4th			10/18/23 1615	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: 16 Laboratory #: _____

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

December 7, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : **VI 2347878**
Customer No. : **4018573**
Reference : **42083**

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
Dewey 3 IWB	11/20/2023	11/20/2023	VI 2347878-001	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: 2023-12-07

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

December 7, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Dewey 3 IWB
Project : 0122 Fontes Dairy #2

Lab No. : VI 2347878-001
Customer No. : 4018573
Reference : 42083
Sampled On : November 20, 2023 at 10:15
Sampled By : Zeke
Received On : November 20, 2023 at 16:00
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	11/22/2023	14:20	sta	EPA 351.2	11/27/2023	13:17	lfs
Nitrate Nitrogen	ND	0.4	mg/L		1	U	11/21/2023	13:30	lfs	SM 4500-NO3 F	11/21/2023	16:20	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	Ul	11/22/2023	14:20	sta	Calc.	11/27/2023	13:17	lfs
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	11/21/2023	13:30	lfs	SM 4500-NO3 F	11/21/2023	16:20	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	11/22/2023	14:20	sta	EPA 351.2	11/27/2023	13:17	lfs
Conductivity	899	1	umhos/cm		1		11/27/2023	09:13	krh	SM 4500-H+B	11/27/2023	12:53	krh
Solids, Total Dissolved (TDS)	570	20	mg/L		1		11/21/2023	16:10	ctl	SM 2540 C	11/22/2023	11:20	ctl

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

December 7, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347878
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2347909-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	11/21/2023:213264CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	99.6%	90-110	
		(SP 2319405-001)	Dup	mg/L		0.6%	5	
		(SP 2319405-001)	Dup	mg/L		2.22%	5	
Nitrogen, Total Kjeldahl	351.2	11/22/2023:213297STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	93.9%	73-124	
			MS	mg/L	12.00	86.1%	90-110	435
		(CH 2379092-004)	MSD	mg/L	12.00	89.1%	90-110	435
			MSRPD	mg/L		3.3%	≤20	
			MS	mg/L	12.00	85.6%	90-110	435
		(CH 2379092-005)	MSD	mg/L	12.00	88.0%	90-110	435
			MSRPD	mg/L		2.8%	≤20	
Nitrate + Nitrite as N	4500NO3F	11/21/2023:213268LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.2%	80-120	
			MS	mg/L	5.609	93.2%	66-125	
		(STK2356123-001)	MSD	mg/L	5.609	94.7%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	11/21/2023:213268LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.2%	80-120	
			MS	mg/L	5.609	93.2%	66-125	
		(STK2356123-001)	MSD	mg/L	5.609	94.7%	66-125	
			MSRPD	mg/L		0.6%	≤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 analyted. 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

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Page 3 of 3

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Laboratory Analysis Work Order

Nº 42083

ID: # 0122 234788

SITE NAME: FONTES DAIRY #2

Billing: IAS

LABORATORY: FGL

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO_3N (Dom)

W2 EC, NO_3N, TDS, TN (Irr) RCL 0.1 C

W3 NH_4-N (Ammonium)

W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)

W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)

W6 NO_3N, NO_2 (Dom ILRP, Annually)

W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant Tissue

P1 TN, NO_3N, PO_4P, 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, NH_4N, TKN, TP, TK, TDS (Quarterly)

L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)

L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S

S2 S1 + CEC, CaCO3, OM, C:N, TN

S3 NO_3N, NH_4N

S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS NH_3N*	pH	Temp
1	Dairy 3 IWB	IRR	W2	11-20 / 10:15	Zeke			
2								
3								
4								
5								
6								
7								
8								

* 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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st		IAS		11-20-23 / 2:50
2nd		FGL	11-20-23 15:45	
3rd		FGL	/	11-20-23 16:00
4th			11/20/23 1600	

LABORATORY USE ONLY

Logged In By: GLS 11/21/23 1221

Total Samples: 11/21/23

Laboratory #:

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : **VI 2348359**
Customer No. : **4018573**
Reference : **42142**

Laboratory Report

Introduction: This report package contains a total of 7 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(3 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
DW2	12/08/2023	12/08/2023	VI 2348359-001	DW
Devries DW	12/08/2023	12/08/2023	VI 2348359-002	DW
Maggini IW#3	12/08/2023	12/08/2023	VI 2348359-003	AGW

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)
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: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2024-01-04

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : DW2
Project : 0122 Fontes Dairy Farms - Dairy #2

Lab No. : VI 2348359-001
Customer No. : 4018573
Reference : 42142
Sampled On : December 8, 2023 at 10:15
Sampled By : Zeke
Received On : December 8, 2023 at 15:51
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													
Alkalinity (as CaCO3)	220	10	mg/L		1		12/20/2023	15:48	amm	SM 4500-H+B	12/20/2023	19:29	amm
Bicarbonate	260	10	mg/L		1		12/20/2023	15:48	amm	SM 4500-H+B	12/20/2023	19:29	amm
Carbonate	ND	10	mg/L		1	U	12/20/2023	15:48	amm	SM 4500-H+B	12/20/2023	19:29	amm
Hydroxide	ND	10	mg/L		1	U	12/20/2023	15:48	amm	SM 4500-H+B	12/20/2023	19:29	amm
Chloride	89	1	mg/L	500[2]	1		12/22/2023	11:10	ldm	EPA 300.0	12/22/2023	20:03	ldm
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	14:21	lfs
Conductivity	715	1	umhos/cm	1600[2]	1		12/20/2023	15:48	amm	SM 4500-H+B	12/20/2023	19:29	amm
Sulfate Sulfur	ND	0.17	mg/L		1	U	12/22/2023	11:10	ldm	EPA 300.0	12/22/2023	20:03	ldm
Solids, Total Dissolved (TDS)	430	20	mg/L	1000[2]	1		12/12/2023	15:30	ctl	SM 2540 C	12/13/2023	11:30	ctl
Calcium	5	1	mg/L		1		12/12/2023	08:15	ejc	EPA 200.7	12/14/2023	19:05	ac
Magnesium	ND	1	mg/L		1	Uh	12/12/2023	08:15	ejc	EPA 200.7	12/14/2023	19:05	ac
Potassium	1	1	mg/L		1	h	12/12/2023	08:15	ejc	EPA 200.7	12/14/2023	19:05	ac
Sodium	148	1	mg/L		1	h	12/12/2023	08:15	ejc	EPA 200.7	12/14/2023	19:05	ac

DQF Flags Definition:
U Constituent results were non-detect.
h The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Devries DW
Project : 0122 Fontes Dairy Farms - Dairy #2

Lab No. : VI 2348359-002
Customer No. : 4018573
Reference : 42142
Sampled On : December 8, 2023 at 10:00
Sampled By : Zeke
Received On : December 8, 2023 at 15:51
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	12/19/2023	10:00	lfs	SM 4500-NO3 F	12/19/2023	14:24	lfs
Conductivity	906	1	umhos/cm	1600[2]	1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	09:33	krh

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.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Maggini IW#3
Project : 0122 Fontes Dairy Farms - Dairy #2

Lab No. : VI 2348359-003
Customer No. : 4018573
Reference : 42142
Sampled On : December 8, 2023 at 10:55
Sampled By : Zeke
Received On : December 8, 2023 at 15:51
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:58	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	01/02/2024	09:00	lfs	SM 4500-NO3 F	01/02/2024	14:09	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	Ul	12/19/2023	05:12	lcr	Calc.	12/23/2023	19:58	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	01/02/2024	09:00	lfs	SM 4500-NO3 F	01/02/2024	14:09	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:58	lcr
Conductivity	806	1	umhos/cm		1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	11:32	krh
Solids, Total Dissolved (TDS)	490	20	mg/L		1		12/12/2023	15:30	ctl	SM 2540 C	12/13/2023	11:30	ctl

DQF Flags Definition:
U Constituent results were non-detect.
l The MS/MSD did not meet QC criteria.

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348359
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	12/12/2023:213971EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	98.3%	85-115	
			MS	mg/L	12.00	186%	<¼	406
		(SP 2320268-001)	MSD	mg/L	12.00	190%	<1/4	
			MSRPD	mg/L		0.6%	≤20.0	
			MS	mg/L	12.00	308%	<¼	406
		(SP 2320269-001)	MSD	mg/L	12.00	180%	<1/4	
			MSRPD	mg/L		11.2%	≤20.0	
Magnesium	200.7	12/12/2023:213971EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	105%	85-115	
			MS	mg/L	12.00	150%	75-125	435
		(SP 2320268-001)	MSD	mg/L	12.00	152%	75-125	435
			MSRPD	mg/L		0.5%	≤20	
			MS	mg/L	12.00	199%	75-125	435
		(SP 2320269-001)	MSD	mg/L	12.00	147%	75-125	435
			MSRPD	mg/L		10.4%	≤20	
Potassium	200.7	12/12/2023:213971EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.3%	85-115	
			MS	mg/L	12.00	115%	75-125	
		(SP 2320268-001)	MSD	mg/L	12.00	116%	75-125	
			MSRPD	mg/L		0.5%	≤20.0	
			MS	mg/L	12.00	130%	75-125	435
		(SP 2320269-001)	MSD	mg/L	12.00	112%	75-125	
			MSRPD	mg/L		10.0%	≤20.0	
Sodium	200.7	12/12/2023:213971EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	102%	85-115	
			MS	mg/L	12.00	169%	75-125	435
		(SP 2320268-001)	MSD	mg/L	12.00	172%	75-125	435
			MSRPD	mg/L		0.6%	≤20.0	
			MS	mg/L	12.00	310%	<¼	406
		(SP 2320269-001)	MSD	mg/L	12.00	186%	<1/4	
			MSRPD	mg/L		10.9%	≤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 analyted. 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.
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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January 4, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348359
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	(VI 2348599-001)	Dup	mg/L		6.29%	10	
Bicarbonate	2320B	(VI 2348599-001)	Dup	mg/L		6.52%	10	
E. C.	2320B	(SP 2320394-001)	Dup	umhos/cm		0.3%	5	
		(CH 2379819-006)	Dup	umhos/cm		0.3%	5	
	2320B	(VI 2348599-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	12/12/2023:214001CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	98.9%	90-110	
		(SP 2320276-001)	Dup	mg/L		0.5%	5	
		(SP 2320276-001)	Dup	mg/L		0.8%	5	
Chloride	300.0	12/22/2023:214467LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.7%	90-110	
			MS	mg/L	50.00	88.9%	67-117	
		(VI 2348507-001)	MSD	mg/L	50.00	90.3%	67-117	
			MSRPD	mg/L		0.7%	≤7	
			MS	mg/L	50.00	90.3%	67-117	
		(SP 2320741-001)	MSD	mg/L	50.00	87.0%	67-117	
			MSRPD	mg/L		2.1%	≤7	
Sulfate Sulfur	300.0	12/22/2023:214467LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.4%	90-110	
			MS	mg/L	100.0	98.5%	18-165	
		(VI 2348507-001)	MSD	mg/L	100.0	99.6%	18-165	
			MSRPD	mg/L		1.0%	≤7	
			MS	mg/L	100.0	93.2%	18-165	
		(SP 2320741-001)	MSD	mg/L	100.0	82.3%	18-165	
			MSRPD	mg/L		7.8%	≤7	435
Nitrogen, Total Kjeldahl	351.2	12/19/2023:214307LCR	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	97.5%	73-124	
			MS	mg/L	12.00	90.1%	90-110	
		(CH 2390336-007)	MSD	mg/L	12.00	93.8%	90-110	
			MSRPD	mg/L		4.0%	≤20	
			MS	mg/L	12.00	89.3%	90-110	435
		(CH 2390336-010)	MSD	mg/L	12.00	88.8%	90-110	435
			MSRPD	mg/L		0.6%	≤20	
Nitrate + Nitrite as N	4500NO3F	01/02/2024:200038LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	99.1%	80-120	
			MS	mg/L	5.609	93.7%	66-125	
		(STK2357661-001)	MSD	mg/L	5.609	93.7%	66-125	
			MSRPD	mg/L		0.0%	≤30.4	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	95.6%	80-120	
			MS	mg/L	5.609	92.2%	66-125	
		(STK2356868-001)	MSD	mg/L	5.609	93.9%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
	4500NO3F	12/19/2023:214315LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.6%	80-120	
			MS	mg/L	5.609	93.0%	66-125	
		(SP 2320711-001)	MSD	mg/L	5.609	93.1%	66-125	
			MSRPD	mg/L		0.0%	≤30.4	
	4500NO3F	01/02/2024:200038LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	99.1%	80-120	

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January 4, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348359
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
		(STK2357661-001)	MS	mg/L	5.609	93.7%	66-125	
			MSD	mg/L	5.609	93.7%	66-125	
			MSRPD	mg/L		0.0%	≤30.4	

Definition

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 analyted. 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.

Explanation

435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Laboratory Analysis Work Order

Nº 42142

Ne-8°C Rot 2348359
ID # TH407

ID: # 0122

LABORATORY: FGL

SITE NAME: Fonta Dairy #2

Billing: IAS

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO_3N (Dom)
- W2 EC, NO_3N, TDS, TN (Irr)
- W3 NH_4-N (Ammonium)
- W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
- W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
- W6 NO_3N, NO_2 (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
- W8 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH_4N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
- L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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: _____

Plant Tissue

- P1 TN, NO_3N, PO_4P, 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: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
- S2 S1 + CEC, CaCO3, OM, C:N, TN
- S3 NO_3N, NH_4N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time		Sampled by	IAS USE ONLY: FIELD TESTS NH_3N *	pH	Temp
1	DW 2	DOM	W4	12-8	10:15	Zeke			
2	Devries DW	DOM	W1	12-8	10:00				
3	Maggini IW#3	IRR	W2	12-8	10:55				
4									
5									
6									
7									
8									

* 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 sampes, please note below.

IAS

NOTES: 12/9/23 1250

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st		IAS		12-9-23 / 2:20
2nd	AJB	FGL	12/8/23 1535	
3rd	AJB	FGL		12/8/23 1551
4th	Rel: 0008	FGL	12-8-2023 1551	

LABORATORY USE ONLY

Logged In By: Recd GLS 12-8-2023 1730 Total Samples: _____ Laboratory #: _____

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : **VI 2348781**
Customer No. : **4018573**
Reference : **42237**

Laboratory Report

Introduction: This report package contains a total of 4 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	(2 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
Lawton DW	12/21/2023	12/21/2023	VI 2348781-001	DW

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 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 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)

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: 2024-01-04

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Lawton DW
Project : 0122 Fontes Dairy Farms - Dairy 2

Lab No. : VI 2348781-001
Customer No. : 4018573
Reference : 42237
Sampled On : December 21, 2023 at 10:55
Sampled By : Alex
Received On : December 21, 2023 at 15:57
Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	230	10	mg/L		1		12/27/2023	20:13	amm	SM 4500-H+B	12/27/2023	23:34	amm
Bicarbonate	270	10	mg/L		1		12/27/2023	20:13	amm	SM 4500-H+B	12/27/2023	23:34	amm
Carbonate	ND	10	mg/L		1	U	12/27/2023	20:13	amm	SM 4500-H+B	12/27/2023	23:34	amm
Hydroxide	ND	10	mg/L		1	U	12/27/2023	20:13	amm	SM 4500-H+B	12/27/2023	23:34	amm
Chloride	35	1	mg/L	500[2]	1		12/22/2023	12:54	ldm	EPA 300.0	12/22/2023	22:54	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	U	12/22/2023	12:54	ldm	EPA 300.0	12/22/2023	22:54	ldm
Conductivity	676	1	umhos/cm	1600[2]	1		12/27/2023	20:13	amm	SM 4500-H+B	12/27/2023	23:34	amm
Sulfate Sulfur	22.1	0.17	mg/L		1		12/22/2023	12:54	ldm	EPA 300.0	12/22/2023	22:54	ldm
Solids, Total Dissolved (TDS)	430	20	mg/L	1000[2]	1		12/26/2023	11:55	ctl	SM 2540 C	12/27/2023	11:45	ctl
Calcium	8	1	mg/L		1		12/26/2023	06:55	ejc	EPA 200.7	12/27/2023	18:39	ac
Magnesium	ND	1	mg/L		1	U	12/26/2023	06:55	ejc	EPA 200.7	12/27/2023	18:39	ac
Potassium	ND	1	mg/L		1	U	12/26/2023	06:55	ejc	EPA 200.7	12/27/2023	18:39	ac
Sodium	161	1	mg/L		1		12/26/2023	06:55	ejc	EPA 200.7	12/27/2023	18:39	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.

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 4, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348781
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	12/26/2023:214542EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	112%	85-115	
			MS	mg/L	12.00	229%	<¼	406
		(SP 2320991-001)	MSD	mg/L	12.00	21.7%	<1/4	
			MSRPD	mg/L		1.4%	≤20.0	
			MS	mg/L	12.00	85.9%	75-125	
		(SP 2320957-001)	MSD	mg/L	12.00	86.0%	75-125	
			MSRPD	mg/L		0.0%	≤20.0	
Magnesium	200.7	12/26/2023:214542EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	113%	85-115	
			MS	mg/L	12.00	164%	<¼	406
		(SP 2320991-001)	MSD	mg/L	12.00	101%	75-125	
			MSRPD	mg/L		1.6%	≤20	
			MS	mg/L	12.00	97.7%	75-125	
		(SP 2320957-001)	MSD	mg/L	12.00	98.7%	75-125	
			MSRPD	mg/L		0.3%	≤20	
Potassium	200.7	12/26/2023:214542EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	110%	85-115	
			MS	mg/L	12.00	112%	75-125	
		(SP 2320991-001)	MSD	mg/L	12.00	122%	75-125	
			MSRPD	mg/L		2.7%	≤20.0	
			MS	mg/L	12.00	104%	75-125	
		(SP 2320957-001)	MSD	mg/L	12.00	105%	75-125	
			MSRPD	mg/L		0.4%	≤20.0	
Sodium	200.7	12/26/2023:214542EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	113%	85-115	
			MS	mg/L	12.00	429%	<¼	406
		(SP 2320991-001)	MSD	mg/L	12.00	-225%	<1/4	
			MSRPD	mg/L		1.2%	≤20.0	
			MS	mg/L	12.00	537%	<¼	406
		(SP 2320957-001)	MSD	mg/L	12.00	630%	<1/4	
			MSRPD	mg/L		3.1%	≤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 analyted. 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.

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January 4, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348781
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	(SP 2320955-002)	Dup	mg/L		1.50%	10	
Bicarbonate	2320B	(SP 2320955-002)	Dup	mg/L		1.51%	10	
E. C.	2320B	(SP 2320955-002)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	12/26/2023:214543CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	98.8%	90-110	
		(SP 2320948-001)	Dup	mg/L		0.7%	5	
		(SP 2320948-001)	Dup	mg/L		1.32%	5	
Chloride	300.0	12/22/2023:214468LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	99.1%	90-110	
			MS	mg/L	50.00	83.9%	67-117	
		(VI 2348673-001)	MSD	mg/L	50.00	83.8%	67-117	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	50.00	88.9%	67-117	
		(SP 2320480-001)	MSD	mg/L	50.00	89.0%	67-117	
			MSRPD	mg/L		0.1%	≤7	
Nitrate Nitrogen	300.0	12/22/2023:214468LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	99.5%	90-110	
			MS	mg/L	40.00	91.0%	86-112	
		(VI 2348673-001)	MSD	mg/L	40.00	91.0%	86-112	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	40.00	102%	86-112	
		(SP 2320480-001)	MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.0%	≤7	
Sulfate Sulfur	300.0	12/22/2023:214468LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	100%	90-110	
			MS	mg/L	100.0	92.7%	18-165	
		(VI 2348673-001)	MSD	mg/L	100.0	92.8%	18-165	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	97.9%	18-165	
		(SP 2320480-001)	MSD	mg/L	100.0	98.0%	18-165	
			MSRPD	mg/L		0.1%	≤7	

Definition

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 analyted. 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.

Page 4 of 4

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Laboratory Analysis Work Order

Nº 42237

2348781

ID: # 0122

SITE NAME: Fontes Dairy Farms - Dairy 2

Billing: IAS

LABORATORY: FGL

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

W1 EC, NO_3N (Dom)
W2 EC, NO_3N, TDS, TN (Irr)
W3 NH_4-N (Ammonium)
W4 EC, NO_3N, Ca, Mg, Na, K, HCO_3, CO_3, SO_4S, Cl, TDS (Dom, GM)
W5 EC, NO_3N, TDS, TN, Ca, Mg, Na, HCO_3, CO_3, SO_4S, Cl (Irr, GM)
W6 NO_3N, NO_2 (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO_3, CO_3, SO_4, Cl + Lab Filtering (GWM)
W8 Other: _____

EC 10.3C ID# 1#467

Process Waste Water (lagoon)

L1 EC, NH_4N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO_3N, NH_4N, TKN, TP, TK, TDS, pH (Annually)
L3 L1 + Ca, Mg, Na, HCO_3,CO_3, SO_4S, 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: _____

Plant Tissue

P1 TN, NO_3N, PO_4P, 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: _____

Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO_3N, PO_4P, K-AA, Zn, Mn, Fe, Cu, SO_4S
S2 S1 + CEC, CaCO3, OM, C:N, TN
S3 NO_3N, NH_4N
S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS NH_3N*	pH	Temp
1	Lawton DW	Dom	W4	12/21 10:55	Alex	—		
2								
3								
4								
5								
6								
7								
8								

* 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 sampes, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[illegible]	IAS		12/21/23 3:30
2nd	AJB	FGL	12/21/23 1535	
3rd	AJB	FGL	12/21	12/21/23 1557
4th	[illegible]		12/21/23 1557	

LABORATORY USE ONLY

Logged In By: [illegible]

Total Samples: 12/21/23 1734

Laboratory #: [illegible] 12/21/23 1111