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INNOVATIVE
AG SERVICES

Cornerstone Dairy

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

Cornerstone Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Cornerstone Dairy
Facility Address	8769 Ave 128, Tipton CA 93272

Owner/Operator as of 12/31/2023

Operator Name	Rick Gorzeman
Operator Phone	559-804-9413
Owner Name	Rick Gorzeman
Owner Phone	559-804-9413

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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Cornerstone Dairy 2023

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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.

__ Not applicable; no written agreements.

X 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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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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Cornerstone Dairy 2023

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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: Rick Gorzeman EA668323272147...
Signature of Operator of Facility	Signature of Owner of Facility
Rick Gorzeman	Rick Gorzeman
Print Name	Print Name
	6/18/2024
Title and Date	Title and Date

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Cornerstone Dairy 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	3,875	3,778	Milk Freestall -	1,400	95,881.44	1,365,180.30	234,424.90	317,163.10	2,490,419.82
Hol Dry Cows	600	585	Flushed	1,450	8,536.39	106,762.50	14,946.75	70,463.25	150,663.24
Hol Heifers(15-24)	1,250	1,218	Flushed	1,000	12,714.12	168,936.60	26,674.20	80,022.60	313,688.59
Hol Heifers (7-14)	425	414	Flushed	750	3,981.55	39,288.60	6,648.84	22,666.50	49,979.63
Hol Calves (4-6)	810	789	Flushed	300	2,735.86	40,317.90	11,519.40	23,038.80	18,891.82
	6,960	**6,784**			**123,849.36**	**1,720,485.90**	**294,214.09**	**513,354.25**	**3,023,643.10**

* 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)**
95,264,073	471.25	37.20	468.50	3,317.50	373,960.31	29,520.05	371,778.05	2,632,601.2

* 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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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Alfalfa, 9 Acres Planted on 11/10/2016

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			%			126				
05/15/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			9	0	0	1,364	
05/23/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			9	0	0	1,364	
06/22/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			11	0	0	1,705	
06/30/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			11	0	0	1,705	
07/19/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			11	0	0	1,705	
07/24/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			13	0	0	2,046	
08/17/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			13	0	0	2,046	
08/28/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			13	0	0	2,046	
09/15/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			11	0	0	1,705	
11/27/2023	Harvest	8.70	Tons	7.25	3.73	0.36	2.16	%							5,418
	Acre Inches Applied:	**46.00**						**Totals:**			**229**	**0**	**0**	**15,686**	**5,418**
Season Nitrogen Ratio:	0.04							**Lbs Per Acre:**			**25**	**0**	**0**	**1,743**	**602**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 2

Alfalfa, 8 Acres Planted on 11/18/2022

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			%			112				
05/15/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			8	0	0	1,212	
05/23/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			10	0	0	1,516	
06/22/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			10	0	0	1,516	
06/30/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			10	0	0	1,516	
07/19/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			12	0	0	1,819	
07/24/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			12	0	0	1,819	
08/16/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			12	0	0	1,819	
08/28/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			12	0	0	1,819	
09/15/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			10	0	0	1,516	
11/27/2023	Harvest	6.47	Tons	7.72	3.93	0.35	2.54	%							3,754
	Acre Inches Applied:	**48.00**						**Totals:**			**207**	**0**	**0**	**14,549**	**3,754**
Season Nitrogen Ratio:	0.06							**Lbs Per Acre:**			**26**	**0**	**0**	**1,819**	**469**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 31 Acres Planted on 11/23/2022

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)
10/29/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			74	0	0	5,221	
10/29/2022	Waste Water: Main Lagoon	1.00	Acre Inches		432.00	33.60	430.00	mg/L		841,783	3,029	236	3,015	30,923	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			434				
02/01/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	1,402	
03/31/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	1,402	
04/01/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
04/01/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		420,892	1,725	166	2,002	7,468	
04/24/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
04/24/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		420,892	1,725	166	2,002	7,468	
05/30/2023	Harvest	22.72	Tons	65.40	1.19	0.23	0.67	%							5,800
	Acre Inches Applied:	**24.00**						**Totals:**		**1,683,567**	**6,987**	**567**	**7,019**	**56,129**	**5,800**
Season Nitrogen Ratio:	1.20							**Lbs Per Acre:**			**225**	**18**	**226**	**1,811**	**187**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Corn, 31 Acres Planted on 06/17/2023

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)
05/31/2023	Corral Solids: Main Corral	3.00	Tons	18.30	0.83	0.24	1.45	%	93		1,258	368	2,203	0	
06/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
06/06/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		420,892	1,455	84	1,729	15,251	
06/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
07/08/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
07/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
07/27/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
08/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
08/07/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		420,892	1,455	84	1,729	15,251	
08/17/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
08/17/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		420,892	1,455	84	1,729	15,251	
08/28/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
09/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,122	
09/11/2023	Waste Water: Main Lagoon	0.25	Acre Inches		483.00	31.10	467.00	mg/L		210,446	847	55	819	7,485	
09/30/2023	Harvest	19.36	Tons	69.20	1.34	0.28	1.21	%							4,954
	Acre Inches Applied:	**37.75**						**Totals:**	**93**	**1,473,121**	**6,470**	**673**	**8,208**	**63,335**	**4,954**
Season Nitrogen Ratio:	1.31							**Lbs Per Acre:**			**209**	**22**	**265**	**2,043**	**160**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 66 Acres Planted on 10/31/2022

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)
10/09/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			158	0	0	11,116	
10/09/2022	Waste Water: Main Lagoon	1.00	Acre Inches		432.00	33.60	430.00	mg/L		1,792,184	6,450	502	6,419	65,836	
12/28/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			158	0	0	11,116	
12/28/2022	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		1,792,184	7,390	696	5,120	37,621	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			924				
02/03/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
03/03/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			66	0	0	10,002	
04/03/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
05/03/2023	Harvest	28.45	Tons	70.70	1.87	0.48	2.60	%							20,576
	Acre Inches Applied:	**22.00**						**Totals:**		**3,584,368**	**15,145**	**1,197**	**11,539**	**140,469**	**20,576**
Season Nitrogen Ratio:	0.74							**Lbs Per Acre:**			**229**	**18**	**175**	**2,128**	**312**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Corn, 66 Acres Planted on 05/27/2023

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)
05/05/2023	Corral Solids: Main Corral	5.00	Tons	18.30	0.83	0.24	1.45	%	330		4,465	1,305	7,818	0	
05/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
05/11/2023	Waste Water: Main Lagoon	1.00	Acre Inches		492.00	47.20	571.00	mg/L		1,792,184	7,345	705	8,525	31,799	
06/19/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
07/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
07/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
07/24/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
08/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
08/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
08/22/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,389	
08/22/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,792,184	6,195	357	7,360	64,941	
09/11/2023	Harvest	29.06	Tons	67.90	1.38	0.29	1.31	%							16,992
	Acre Inches Applied:	**34.00**						**Totals:**	**330**	**3,584,368**	**18,005**	**2,367**	**23,703**	**115,848**	**16,992**
Season Nitrogen Ratio:	1.06							**Lbs Per Acre:**			**273**	**36**	**359**	**1,755**	**257**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Wheat, 76 Acres Planted on 11/17/2022

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)
10/15/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			182	0	0	12,801	
10/15/2022	Waste Water: Main Lagoon	1.00	Acre Inches		432.00	33.60	430.00	mg/L		2,063,727	7,427	578	7,392	75,812	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
01/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
01/04/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,063,727	8,510	801	5,896	43,321	
02/02/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
02/02/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,063,727	8,510	801	5,896	43,321	
03/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
04/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
05/10/2023	Harvest	29.13	Tons	70.70	1.55	0.42	1.89	%							20,109
	Acre Inches Applied:	**23.00**						**Totals:**		**6,191,180**	**25,692**	**2,180**	**19,184**	**186,255**	**20,109**
Season Nitrogen Ratio:	1.28							**Lbs Per Acre:**			**338**	**29**	**252**	**2,451**	**265**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Corn, 76 Acres Planted on 05/30/2023

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)
05/11/2023	Corral Solids: Main Corral	5.00	Tons	18.30	0.83	0.24	1.45	%	380		5,141	1,503	9,003	0	
05/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
06/24/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
07/09/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
07/20/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
07/28/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
08/09/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
08/09/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,031,863	3,567	205	4,238	37,390	
08/18/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
08/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
08/29/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,031,863	3,567	205	4,238	37,390	
09/14/2023	Harvest	23.81	Tons	66.80	1.41	0.17	0.68	%							16,942
	Acre Inches Applied:	**37.00**						**Totals:**	**380**	**2,063,727**	**12,276**	**1,913**	**17,478**	**99,534**	**16,942**
Season Nitrogen Ratio:	0.72							**Lbs Per Acre:**			**162**	**25**	**230**	**1,310**	**223**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 6

Corn, 75 Acres Planted on 05/02/2023

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			%			1,050				
04/14/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
04/14/2023	Waste Water: Main Lagoon	1.00	Acre Inches		492.00	47.20	571.00	mg/L		2,036,572	8,347	801	9,687	36,135	
05/23/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			3,998	0	0	0	
05/30/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,393	
06/19/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
06/19/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		2,036,572	7,040	406	8,363	73,796	
06/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
06/30/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,018,286	3,520	202	4,182	36,898	
07/13/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/13/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,018,286	3,520	202	4,182	36,898	
07/24/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,393	
08/05/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,393	
08/23/2023	Harvest	31.83	Tons	67.70	1.30	0.33	1.12	%							20,048
	Acre Inches Applied:	**34.00**						**Totals:**		**6,109,718**	**27,476**	**1,612**	**26,414**	**204,763**	**20,048**
Season Nitrogen Ratio:	1.37							**Lbs Per Acre:**			**366**	**21**	**352**	**2,730**	**267**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 7

Wheat, 74 Acres Planted on 11/03/2022

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	3.50	Tons	27.00	2.48	0.96	4.07	%	259		9,378	3,630	15,391	0	
10/04/2022	Ground Water: Well Avg	5.00	Acre Inches		2.65			mg/L			221	0	0	15,580	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,036				
01/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
01/12/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,004,709	4,143	390	2,870	21,091	
01/31/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,348	
04/07/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,348	
04/07/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		1,004,709	4,117	395	4,779	17,827	
05/03/2023	Harvest	26.62	Tons	71.90	1.65	0.48	2.43	%							18,267
	Acre Inches Applied:	**20.00**						**Totals:**	**259**	**2,009,418**	**18,895**	**4,416**	**23,040**	**63,871**	**18,267**
Season Nitrogen Ratio:	1.03							**Lbs Per Acre:**			**255**	**60**	**311**	**863**	**247**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 7

Corn, 74 Acres Planted on 05/26/2023

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	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
05/15/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		1,004,709	4,117	395	4,779	17,827	
06/23/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
06/23/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,004,709	3,474	200	4,126	36,406	
07/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
07/07/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,004,709	3,474	200	4,126	36,406	
07/19/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
07/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
08/10/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
08/10/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,004,709	3,474	200	4,126	36,406	
08/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
08/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,678	
08/26/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,004,709	3,474	200	4,126	36,406	
09/15/2023	Harvest	24.16	Tons	67.80	1.29	0.16	0.79	%							14,853
	Acre Inches Applied:	**34.50**						**Totals:**		**5,023,546**	**18,012**	**1,194**	**21,284**	**184,874**	**14,853**
Season Nitrogen Ratio:	1.21							**Lbs Per Acre:**			**243**	**16**	**288**	**2,498**	**201**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 8

Wheat, 73 Acres Planted on 10/19/2022

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)
09/18/2022	Ground Water: Well Avg	3.00	Acre Inches		2.65			mg/L			131	0	0	9,221	
09/18/2022	Waste Water: Main Lagoon	1.00	Acre Inches		432.00	33.60	430.00	mg/L		1,982,264	7,134	555	7,100	72,819	
11/26/2022	Ground Water: Well Avg	3.00	Acre Inches		2.65			mg/L			131	0	0	9,221	
11/26/2022	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		991,132	4,087	385	2,832	20,806	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
01/12/2023	Surface Water: Lower Tule	3.50	Acre Inches		0.00			mg/L			0	0	0	2,312	
02/07/2023	Surface Water: Lower Tule	3.00	Acre Inches		0.00			mg/L			0	0	0	1,981	
02/07/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		1,982,264	8,174	769	5,663	41,611	
02/20/2023	Surface Water: Lower Tule	3.50	Acre Inches		0.00			mg/L			0	0	0	2,312	
03/10/2023	Surface Water: Lower Tule	3.00	Acre Inches		0.00			mg/L			0	0	0	1,981	
04/02/2023	Surface Water: Lower Tule	3.00	Acre Inches		0.00			mg/L			0	0	0	1,981	
04/02/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		991,132	4,062	390	4,714	17,586	
05/02/2023	Harvest	26.80	Tons	71.50	1.70	0.51	2.57	%							18,957
	Acre Inches Applied:	**25.00**						**Totals:**		**5,946,792**	**24,740**	**2,099**	**20,309**	**181,831**	**18,957**
Season Nitrogen Ratio:	1.31							**Lbs Per Acre:**			**339**	**29**	**278**	**2,491**	**260**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 8

Corn, 73 Acres Planted on 05/23/2023

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)
05/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
05/11/2023	Waste Water: Main Lagoon	1.00	Acre Inches		492.00	47.20	571.00	mg/L		1,982,264	8,124	780	9,429	35,171	
06/13/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
06/25/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
06/25/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,982,264	6,853	395	8,140	71,828	
07/08/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/20/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
07/31/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
08/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
08/12/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,982,264	6,853	395	8,140	71,828	
08/21/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
09/05/2023	Harvest	32.46	Tons	64.60	1.38	0.26	1.04	%							23,152
	Acre Inches Applied:	**37.00**						**Totals:**		**5,946,792**	**21,829**	**1,570**	**25,709**	**201,284**	**23,152**
Season Nitrogen Ratio:	0.94							**Lbs Per Acre:**			**299**	**22**	**352**	**2,757**	**317**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 9

Wheat, 73 Acres Planted on 10/22/2022

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)
09/25/2022	Corral Solids: Main Corral	5.00	Tons	27.00	2.48	0.96	4.07	%	365		13,216	5,116	21,689	0	
09/28/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			174	0	0	12,295	
12/13/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			174	0	0	12,295	
12/13/2022	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		991,132	4,087	385	2,832	20,806	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
01/16/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
03/29/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
05/01/2023	Harvest	26.52	Tons	71.90	1.85	0.53	2.41	%							20,128
	Acre Inches Applied:	**17.50**						**Totals:**	**365**	**991,132**	**18,673**	**5,501**	**24,521**	**51,341**	**20,128**
Season Nitrogen Ratio:	0.93							**Lbs Per Acre:**			**256**	**75**	**336**	**703**	**276**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 9

Corn, 73 Acres Planted on 05/20/2023

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)
05/02/2023	Corral Solids: Main Corral	3.50	Tons	18.30	0.83	0.24	1.45	%	256		3,457	1,010	6,054	0	
05/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
06/22/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/04/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,982,264	6,853	395	8,140	71,828	
07/17/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/27/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/27/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,982,264	6,853	395	8,140	71,828	
08/09/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
08/17/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
09/04/2023	Harvest	23.48	Tons	65.30	1.50	0.36	1.32	%							17,843
	Acre Inches Applied:	**30.00**						**Totals:**	**256**	**3,964,528**	**17,162**	**1,800**	**22,334**	**162,150**	**17,843**
Season Nitrogen Ratio:	0.96							**Lbs Per Acre:**			**235**	**25**	**306**	**2,221**	**244**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 14

Wheat, 80 Acres Planted on 11/22/2022

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)
10/11/2022	Corral Solids: Main Corral	3.50	Tons	27.00	2.48	0.96	4.07	%	280		10,138	3,925	16,638	0	
10/22/2022	Ground Water: Well Avg	5.00	Acre Inches		2.65			mg/L			239	0	0	16,843	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,120				
02/02/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,895	
02/02/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,086,172	4,478	422	3,103	22,801	
03/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,895	
03/18/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,086,172	4,478	422	3,103	22,801	
04/07/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,619	
04/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,895	
05/30/2023	Harvest	22.60	Tons	65.50	1.39	0.22	0.63	%							17,341
	Acre Inches Applied:	**23.00**						**Totals:**	**280**	**2,172,344**	**20,454**	**4,768**	**22,845**	**74,750**	**17,341**
Season Nitrogen Ratio:	1.18							**Lbs Per Acre:**			**256**	**60**	**286**	**934**	**217**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 14

Corn, 80 Acres Planted on 07/15/2023

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	Corral Solids: Main Corral	3.50	Tons	18.30	0.83	0.24	1.45	%	280		3,788	1,107	6,634	0	
06/03/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,895	
07/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,895	
07/24/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			80	0	0	12,124	
08/04/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,619	
08/14/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,619	
08/21/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,619	
09/06/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,619	
10/24/2023	Harvest	24.14	Tons	61.90	1.14	0.20	0.62	%							16,776
	Acre Inches Applied:	**32.00**						**Totals:**	**280**		**3,868**	**1,107**	**6,634**	**32,391**	**16,776**
Season Nitrogen Ratio:	0.23							**Lbs Per Acre:**			**48**	**14**	**83**	**405**	**210**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 15

Wheat, 76 Acres Planted on 11/05/2022

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)
09/25/2022	Corral Solids: Main Corral	3.50	Tons	27.00	2.48	0.96	4.07	%	266		9,631	3,729	15,806	0	
10/22/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			182	0	0	12,801	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
01/25/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
01/25/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,031,863	4,254	401	2,948	21,661	
02/13/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
03/21/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
03/21/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,063,727	8,510	801	5,896	43,321	
04/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
04/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
05/30/2023	Harvest	26.63	Tons	66.40	1.25	0.24	0.70	%							17,000
	Acre Inches Applied:	**25.50**						**Totals:**	**266**	**3,095,590**	**23,641**	**4,930**	**24,651**	**91,534**	**17,000**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**311**	**65**	**324**	**1,204**	**224**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 15

Corn, 76 Acres Planted on 06/17/2023

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	5.00	Tons	18.30	0.83	0.24	1.45	%	380		5,141	1,503	9,003	0	
06/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
07/01/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
07/12/2023	Ground Water: Well Avg	3.50	Acre Inches		1.10			mg/L			66	0	0	10,078	
07/12/2023	Waste Water: Main Lagoon	0.75	Acre Inches		415.00	23.90	493.00	mg/L		1,547,795	5,350	308	6,357	56,085	
07/22/2023	Ground Water: Well Avg	3.50	Acre Inches		1.10			mg/L			66	0	0	10,078	
08/02/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,438	
08/12/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,095	
08/12/2023	Waste Water: Main Lagoon	0.75	Acre Inches		415.00	23.90	493.00	mg/L		1,547,795	5,350	308	6,357	56,085	
08/20/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
09/04/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,095	
10/24/2023	Harvest	27.23	Tons	64.30	1.12	0.19	0.73	%							16,549
	Acre Inches Applied:	**35.50**						**Totals:**	**380**	**3,095,590**	**15,974**	**2,118**	**21,716**	**150,893**	**16,549**
Season Nitrogen Ratio:	0.97							**Lbs Per Acre:**			**210**	**28**	**286**	**1,985**	**218**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 16

Wheat, 55 Acres Planted on 11/21/2022

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)
09/26/2022	Corral Solids: Main Corral	3.50	Tons	27.00	2.48	0.96	4.07	%	192		6,970	2,698	11,439	0	
10/18/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			131	0	0	9,264	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			770				
01/10/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
01/10/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		746,743	3,079	290	2,133	15,676	
02/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
03/24/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
03/24/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		746,743	3,079	290	2,133	15,676	
04/13/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
05/30/2023	Harvest	26.60	Tons	63.40	1.09	0.27	0.89	%							11,673
	Acre Inches Applied:	**21.00**						**Totals:**	**192**	**1,493,486**	**14,029**	**3,278**	**15,706**	**48,577**	**11,673**
Season Nitrogen Ratio:	1.20							**Lbs Per Acre:**			**255**	**60**	**286**	**883**	**212**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 16

Corn, 55 Acres Planted on 06/19/2023

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	3.50	Tons	18.30	0.83	0.24	1.45	%	192		2,604	761	4,561	0	
06/05/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	2,488	
07/06/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,986	
07/20/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
07/20/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,493,486	5,163	298	6,133	54,117	
08/02/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	2,488	
08/14/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,990	
08/14/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,493,486	5,163	298	6,133	54,117	
08/23/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			68	0	0	10,419	
10/24/2023	Harvest	29.49	Tons	62.10	1.12	0.21	0.63	%							13,770
	Acre Inches Applied:	**31.00**						**Totals:**	**192**	**2,986,973**	**12,998**	**1,356**	**16,827**	**130,597**	**13,770**
Season Nitrogen Ratio:	0.94							**Lbs Per Acre:**			**236**	**25**	**306**	**2,374**	**250**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 17

Wheat, 53 Acres Planted on 11/05/2022

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	3.50	Tons	27.00	2.48	0.96	4.07	%	186		6,717	2,600	11,023	0	
10/15/2022	Ground Water: Well Avg	3.00	Acre Inches		2.65			mg/L			95	0	0	6,695	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			742				
01/13/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
01/13/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		719,589	2,967	279	2,056	15,106	
02/11/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	2,398	
03/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
03/26/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		719,589	2,967	279	2,056	15,106	
04/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
05/30/2023	Harvest	18.41	Tons	58.40	1.50	0.24	0.87	%							12,177
	Acre Inches Applied:	**21.00**						**Totals:**	**186**	**1,439,178**	**13,488**	**3,159**	**15,135**	**45,058**	**12,177**
Season Nitrogen Ratio:	1.11							**Lbs Per Acre:**			**254**	**60**	**286**	**850**	**230**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 17

Corn, 53 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	Corral Solids: Main Corral	3.50	Tons	18.30	0.83	0.24	1.45	%	186		2,510	734	4,395	0	
06/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
06/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
07/12/2023	Ground Water: Well Avg	3.00	Acre Inches		1.10			mg/L			40	0	0	6,024	
07/22/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
07/22/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		719,589	2,488	143	2,955	26,074	
07/31/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,158	
08/09/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
08/09/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		719,589	2,488	143	2,955	26,074	
08/19/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,158	
08/31/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,918	
10/24/2023	Harvest	26.73	Tons	62.40	1.05	0.19	0.66	%							11,186
	Acre Inches Applied:	**33.00**						**Totals:**	**186**	**1,439,178**	**7,525**	**1,020**	**10,306**	**72,079**	**11,186**
Season Nitrogen Ratio:	0.67							**Lbs Per Acre:**			**142**	**19**	**194**	**1,360**	**211**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 18

Wheat, 42 Acres Planted on 11/04/2022

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	3.50	Tons	27.00	2.48	0.96	4.07	%	147		5,323	2,061	8,735	0	
10/13/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			100	0	0	7,074	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			588				
01/21/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,520	
01/21/2023	Waste Water: Main Lagoon	0.75	Acre Inches		495.00	46.60	343.00	mg/L		855,360	3,527	332	2,444	17,955	
02/09/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
03/28/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,520	
03/28/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		570,240	2,351	221	1,629	11,970	
04/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,520	
05/30/2023	Harvest	21.72	Tons	57.40	1.19	0.25	0.93	%							9,249
	Acre Inches Applied:	**23.25**						**Totals:**	**147**	**1,425,601**	**11,889**	**2,614**	**12,808**	**43,840**	**9,249**
Season Nitrogen Ratio:	1.29							**Lbs Per Acre:**			**283**	**62**	**305**	**1,044**	**220**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 18

Corn, 42 Acres Planted on 06/09/2023

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	4.00	Tons	18.30	0.83	0.24	1.45	%	168		2,273	664	3,980	0	
06/05/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
07/03/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
07/15/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
07/15/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,140,481	3,943	227	4,683	41,326	
07/29/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			52	0	0	7,956	
08/10/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
08/10/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,140,481	3,943	227	4,683	41,326	
08/24/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,280	
10/10/2023	Harvest	30.11	Tons	62.30	1.08	0.24	1.00	%							10,298
	Acre Inches Applied:	**37.00**						**Totals:**	**168**	**2,280,961**	**10,210**	**1,119**	**13,347**	**102,009**	**10,298**
Season Nitrogen Ratio:	0.99							**Lbs Per Acre:**			**243**	**27**	**318**	**2,429**	**245**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 19

Wheat, 71 Acres Planted on 11/21/2022

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)
10/10/2022	Ground Water: Well Avg	5.00	Acre Inches		2.65			mg/L			212	0	0	14,948	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			994				
01/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
01/18/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		1,927,955	7,950	748	5,508	40,471	
02/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
03/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
03/06/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		1,927,955	7,950	748	5,508	40,471	
04/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
05/30/2023	Harvest	18.43	Tons	57.20	1.16	0.25	0.90	%							12,993
	Acre Inches Applied:	**23.00**						**Totals:**		**3,855,911**	**17,106**	**1,497**	**11,016**	**106,168**	**12,993**
Season Nitrogen Ratio:	1.32							**Lbs Per Acre:**			**241**	**21**	**155**	**1,495**	**183**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 19

Corn, 71 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	Corral Solids: Main Corral	5.00	Tons	18.30	0.83	0.24	1.45	%	355		4,803	1,404	8,411	0	
06/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
06/25/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
07/07/2023	Surface Water: Lower Tule	4.20	Acre Inches		0.00			mg/L			0	0	0	2,698	
07/07/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		963,978	3,333	192	3,959	34,930	
07/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
07/28/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,891	
08/06/2023	Ground Water: Well Avg	3.00	Acre Inches		1.10			mg/L			53	0	0	8,070	
08/06/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		963,978	3,333	192	3,959	34,930	
08/17/2023	Surface Water: Lower Tule	4.20	Acre Inches		0.00			mg/L			0	0	0	2,698	
08/17/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		963,978	3,333	192	3,959	34,930	
08/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,569	
10/10/2023	Harvest	27.50	Tons	62.70	1.10	0.25	1.16	%							16,023
	Acre Inches Applied:	**33.40**						**Totals:**	**355**	**2,891,933**	**14,855**	**1,979**	**20,288**	**131,425**	**16,023**
Season Nitrogen Ratio:	0.93							**Lbs Per Acre:**			**209**	**28**	**286**	**1,851**	**226**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 20

Wheat, 94 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)
10/22/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			225	0	0	15,832	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,316				
01/18/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			94	0	0	14,246	
01/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
01/30/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,552,504	10,525	991	7,293	53,581	
03/13/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
03/13/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,552,504	10,525	991	7,293	53,581	
04/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
04/23/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
05/22/2023	Harvest	24.84	Tons	65.70	1.07	0.28	1.03	%							17,139
	Acre Inches Applied:	**26.00**						**Totals:**		**5,105,008**	**22,685**	**1,982**	**14,585**	**150,847**	**17,139**
Season Nitrogen Ratio:	1.32							**Lbs Per Acre:**			**241**	**21**	**155**	**1,605**	**182**

INNOVATIVE AG SERVICES

Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 20

Corn, 94 Acres Planted on 06/16/2023

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	Corral Solids: Main Corral	5.00	Tons	18.30	0.83	0.24	1.45	%	470		6,359	1,858	11,135	0	
05/29/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	4,253	
06/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
07/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
07/11/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,276,252	4,412	254	5,241	46,245	
07/22/2023	Surface Water: Lower Tule	4.40	Acre Inches		0.00			mg/L			0	0	0	3,742	
08/02/2023	Surface Water: Lower Tule	4.80	Acre Inches		0.00			mg/L			0	0	0	4,082	
08/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
08/12/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,276,252	4,412	254	5,241	46,245	
08/28/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,828	
09/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,402	
09/26/2023	Harvest	28.75	Tons	74.10	1.19	0.30	1.38	%							16,659
	Acre Inches Applied:	**35.70**						**Totals:**	**470**	**2,552,504**	**15,184**	**2,366**	**21,618**	**122,003**	**16,659**
Season Nitrogen Ratio:	0.91							**Lbs Per Acre:**			**162**	**25**	**230**	**1,298**	**177**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 21

Wheat, 92 Acres Planted on 11/26/2022

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)
10/22/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			220	0	0	15,496	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,288				
01/31/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
03/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
03/15/2023	Waste Water: Main Lagoon	1.00	Acre Inches		495.00	46.60	343.00	mg/L		2,498,196	10,301	970	7,137	52,441	
04/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
04/25/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
05/30/2023	Harvest	21.41	Tons	58.20	0.60	0.22	0.88	%							9,863
	Acre Inches Applied:	**21.00**						**Totals:**		**2,498,196**	**11,809**	**970**	**7,137**	**81,254**	**9,863**
Season Nitrogen Ratio:	1.20							**Lbs Per Acre:**			**128**	**11**	**78**	**883**	**107**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 21

Corn, 92 Acres Planted on 06/21/2023

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	18.30	0.83	0.24	1.45	%	736		9,958	2,910	17,438	0	
06/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
07/04/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
07/15/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	4,162	
07/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
07/26/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		2,498,196	8,636	498	10,259	90,523	
08/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
08/14/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	3,746	
08/29/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	4,162	
09/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	3,329	
10/10/2023	Harvest	30.57	Tons	64.00	1.11	0.24	1.30	%							22,477
	Acre Inches Applied:	**35.50**						**Totals:**	**736**	**2,498,196**	**18,594**	**3,408**	**27,697**	**119,241**	**22,477**
Season Nitrogen Ratio:	0.83							**Lbs Per Acre:**			**202**	**37**	**301**	**1,296**	**244**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 22

Wheat, 70 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)
10/01/2022	Corral Solids: Main Corral	3.50	Tons	27.00	2.48	0.96	4.07	%	245		8,871	3,434	14,559	0	
10/10/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			167	0	0	11,790	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			980				
01/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,533	
02/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,533	
03/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,533	
03/15/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		950,400	3,919	369	2,715	19,951	
04/03/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,533	
04/21/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,533	
05/11/2023	Harvest	23.62	Tons	72.60	1.11	0.26	1.23	%							10,058
	Acre Inches Applied:	**24.50**						**Totals:**	**245**	**950,400**	**13,937**	**3,803**	**17,274**	**44,407**	**10,058**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**199**	**54**	**247**	**634**	**144**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 22

Corn, 70 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)
05/15/2023	Corral Solids: Main Corral	8.00	Tons	18.30	0.83	0.24	1.45	%	560		7,577	2,214	13,268	0	
05/19/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	3,800	
06/21/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,167	
07/06/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,167	
07/06/2023	Waste Water: Main Lagoon	1.00	Acre Inches		415.00	23.90	493.00	mg/L		1,900,801	6,571	379	7,806	68,876	
07/20/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,167	
08/01/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,167	
08/14/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	3,800	
08/30/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	3,800	
09/18/2023	Harvest	32.52	Tons	68.80	1.15	0.22	1.28	%							16,335
	Acre Inches Applied:	**39.00**						**Totals:**	**560**	**1,900,801**	**14,148**	**2,593**	**21,074**	**92,945**	**16,335**
Season Nitrogen Ratio:	0.87							**Lbs Per Acre:**			**202**	**37**	**301**	**1,328**	**233**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 23

Wheat, 75 Acres Planted on 11/05/2022

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)
10/11/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			179	0	0	12,632	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,050				
01/27/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
01/27/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,018,286	4,198	395	2,909	21,376	
02/10/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
03/08/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
03/08/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		1,018,286	4,198	395	2,909	21,376	
04/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
05/30/2023	Harvest	23.01	Tons	60.00	0.60	0.24	0.91	%							8,256
	Acre Inches Applied:	**21.00**						**Totals:**		**2,036,572**	**9,626**	**790**	**5,818**	**66,241**	**8,256**
Season Nitrogen Ratio:	1.17							**Lbs Per Acre:**			**128**	**11**	**78**	**883**	**110**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 23

Corn, 75 Acres Planted on 06/14/2023

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	18.30	0.83	0.24	1.45	%	600		8,118	2,372	14,216	0	
06/05/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
06/25/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/18/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/29/2023	Waste Water: Main Lagoon	0.50	Acre Inches		415.00	23.90	493.00	mg/L		1,018,286	3,520	202	4,182	36,898	
08/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
08/17/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
08/28/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
09/16/2023	Harvest	22.06	Tons	69.30	1.23	0.24	1.31	%							12,495
	Acre Inches Applied:	**32.50**						**Totals:**	**600**	**1,018,286**	**11,638**	**2,575**	**18,398**	**58,612**	**12,495**
Season Nitrogen Ratio:	0.93							**Lbs Per Acre:**			**155**	**34**	**245**	**781**	**167**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 24

Wheat, 72 Acres Planted on 11/25/2022

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			%			1,008				
01/30/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
02/12/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
03/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
03/11/2023	Waste Water: Main Lagoon	0.50	Acre Inches		495.00	46.60	343.00	mg/L		977,555	4,031	379	2,793	20,521	
04/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
04/15/2023	Waste Water: Main Lagoon	0.50	Acre Inches		492.00	47.20	571.00	mg/L		977,555	4,006	384	4,650	17,345	
05/03/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
05/30/2023	Harvest	22.11	Tons	61.20	0.71	0.25	1.07	%							8,783
	Acre Inches Applied:	**21.00**						**Totals:**		**1,955,110**	**9,045**	**764**	**7,443**	**50,894**	**8,783**
Season Nitrogen Ratio:	1.03							**Lbs Per Acre:**			**126**	**11**	**103**	**707**	**122**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 24

Corn, 72 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)
06/01/2023	Corral Solids: Main Corral	7.00	Tons	18.30	0.83	0.24	1.45	%	504		6,819	1,993	11,941	0	
06/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
07/02/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
07/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
07/25/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,932	
08/02/2023	Surface Water: Lower Tule	4.50	Acre Inches		0.00			mg/L			0	0	0	2,932	
08/15/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
08/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
09/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,606	
10/10/2023	Harvest	26.39	Tons	62.50	1.06	0.21	0.96	%							15,106
	Acre Inches Applied:	**33.00**						**Totals:**	**504**		**6,819**	**1,993**	**11,941**	**21,498**	**15,106**
Season Nitrogen Ratio: 0.45								**Lbs Per Acre:**			**95**	**28**	**166**	**299**	**210**

INNOVATIVE AG SERVICES

Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S7

Wheat, 75 Acres Planted on 11/17/2022

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)
10/15/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			179	0	0	12,632	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,050				
01/27/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
02/09/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
04/07/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
04/24/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
05/22/2023	Harvest	17.73	Tons	63.50	0.97	0.24	0.96	%							9,454
	Acre Inches Applied:	**20.00**						**Totals:**			**1,229**	**0**	**0**	**23,489**	**9,454**
Season Nitrogen Ratio:	0.13							**Lbs Per Acre:**			**16**	**0**	**0**	**313**	**126**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S7

Corn, 75 Acres Planted on 06/29/2023

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)
05/30/2023	Corral Solids: Main Corral	10.00	Tons	18.30	0.83	0.24	1.45	%	750		10,148	2,966	17,770	0	
06/16/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
07/25/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
08/11/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
08/26/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
09/08/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
09/21/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,072	
10/24/2023	Harvest	25.38	Tons	67.70	1.36	0.21	0.98	%							16,724
	Acre Inches Applied:	**36.00**						**Totals:**	**750**		**10,148**	**2,966**	**17,770**	**24,430**	**16,724**
Season Nitrogen Ratio:	0.61							**Lbs Per Acre:**			**135**	**40**	**237**	**326**	**223**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S8

Wheat, 76 Acres Planted on 11/18/2022

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)
10/10/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			182	0	0	12,801	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
01/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
02/06/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
04/09/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
04/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,750	
05/23/2023	Harvest	21.14	Tons	65.00	1.17	0.36	1.19	%							13,159
	Acre Inches Applied:	**20.00**						**Totals:**			**1,246**	**0**	**0**	**23,802**	**13,159**
Season Nitrogen Ratio:	0.09							**Lbs Per Acre:**			**16**	**0**	**0**	**313**	**173**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S8

Corn, 76 Acres Planted on 06/30/2023

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)
05/29/2023	Corral Solids: Main Corral	10.00	Tons	18.30	0.83	0.24	1.45	%	760		10,283	3,005	18,007	0	
06/24/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
07/31/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
08/14/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
08/29/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
09/11/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
09/23/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,126	
10/25/2023	Harvest	24.07	Tons	69.90	1.23	0.20	0.96	%							13,545
	Acre Inches Applied:	**36.00**						**Totals:**	**760**		**10,283**	**3,005**	**18,007**	**24,756**	**13,545**
Season Nitrogen Ratio:	0.76							**Lbs Per Acre:**			**135**	**40**	**237**	**326**	**178**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S9

Alfalfa, 78 Acres Planted on 11/29/2022

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)
10/26/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			186	0	0	13,138	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,092				
03/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,823	
05/27/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,823	
05/28/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,529	
06/27/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,529	
07/05/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,529	
07/22/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,235	
07/31/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,235	
08/24/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	4,235	
08/30/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,529	
09/29/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,529	
11/14/2023	Harvest	9.76	Tons	8.35	3.35	0.23	2.30	%							46,747
	Acre Inches Applied:	**55.00**						**Totals:**			**1,278**	**0**	**0**	**49,131**	**46,747**
Season Nitrogen Ratio:	0.03							**Lbs Per Acre:**			**16**	**0**	**0**	**630**	**599**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S10

Alfalfa, 73 Acres Planted on 10/05/2020

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)
11/01/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			174	0	0	12,295	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,022				
02/23/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
04/11/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
05/14/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
05/25/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
06/20/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	3,303	
07/02/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	3,963	
07/17/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/20/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	2,642	
07/28/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			73	0	0	11,063	
08/21/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			91	0	0	13,829	
08/28/2023	Ground Water: Well Avg	5.00	Acre Inches		1.10			mg/L			91	0	0	13,829	
09/26/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			109	0	0	16,595	
11/14/2023	Harvest	8.18	Tons	9.07	2.99	0.24	2.56	%							32,470
	Acre Inches Applied:	**61.00**						**Totals:**			**1,559**	**0**	**0**	**92,050**	**32,470**
Season Nitrogen Ratio:	0.05							**Lbs Per Acre:**			**21**	**0**	**0**	**1,261**	**445**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S11

Wheat, 50 Acres Planted on 11/25/2022

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	5.00	Tons	27.00	2.48	0.96	4.07	%	250		9,052	3,504	14,856	0	
10/08/2022	Ground Water: Well Avg	4.00	Acre Inches		2.65			mg/L			120	0	0	8,422	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			700				
01/29/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,810	
03/21/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,810	
04/28/2023	Harvest	23.10	Tons	72.80	1.75	0.40	1.85	%							10,996
	Acre Inches Applied:	**12.00**						**Totals:**	**250**		**9,872**	**3,504**	**14,856**	**12,040**	**10,996**
Season Nitrogen Ratio:	0.90							**Lbs Per Acre:**			**197**	**70**	**297**	**241**	**220**

Field Name: S11

Corn, 50 Acres Planted on 05/20/2023

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)
05/05/2023	Corral Solids: Main Corral	10.00	Tons	18.30	0.83	0.24	1.45	%	500		6,765	1,977	11,846	0	
05/08/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
06/16/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/03/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/17/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
07/30/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
08/12/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,714	
09/05/2023	Harvest	27.67	Tons	68.40	1.13	0.27	0.97	%							9,880
	Acre Inches Applied:	**36.00**						**Totals:**	**500**		**6,765**	**1,977**	**11,846**	**16,287**	**9,880**
Season Nitrogen Ratio:	0.68							**Lbs Per Acre:**			**135**	**40**	**237**	**326**	**198**

INNOVATIVE AG SERVICES

Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S12

Wheat, 32 Acres Planted on 10/25/2022

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	5.00	Tons	27.00	2.48	0.96	4.07	%	160		5,793	2,243	9,508	0	
10/08/2022	Ground Water: Well Avg	4.50	Acre Inches		2.65			mg/L			86	0	0	6,063	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			448				
01/31/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	1,448	
03/31/2023	Surface Water: Lower Tule	5.00	Acre Inches		0.00			mg/L			0	0	0	1,448	
04/28/2023	Harvest	24.33	Tons	72.60	1.68	0.39	2.28	%							7,168
	Acre Inches Applied:	**14.50**						**Totals:**	**160**		**6,327**	**2,243**	**9,508**	**8,959**	**7,168**
Season Nitrogen Ratio:	0.88							**Lbs Per Acre:**			**198**	**70**	**297**	**280**	**224**

Field Name: S12

Corn, 32 Acres Planted on 05/22/2023

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)
05/01/2023	Corral Solids: Main Corral	10.00	Tons	18.30	0.83	0.24	1.45	%	320		4,330	1,265	7,582	0	
05/10/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
06/25/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
07/11/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
07/21/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
08/02/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
08/14/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	1,737	
09/08/2023	Harvest	36.33	Tons	71.20	1.34	0.27	1.37	%							8,973
	Acre Inches Applied:	**36.00**						**Totals:**	**320**		**4,330**	**1,265**	**7,582**	**10,424**	**8,973**
Season Nitrogen Ratio:	0.48							**Lbs Per Acre:**			**135**	**40**	**237**	**326**	**280**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S14

Wheat, 41 Acres Planted on 10/26/2022

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	5.00	Tons	27.00	2.48	0.96	4.07	%	205		7,423	2,873	12,182	0	
10/07/2022	Ground Water: Well Avg	5.00	Acre Inches		2.65			mg/L			123	0	0	8,632	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			574				
01/31/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,484	
02/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,484	
03/26/2023	Surface Water: Lower Tule	4.00	Acre Inches		0.00			mg/L			0	0	0	1,484	
04/28/2023	Harvest	22.12	Tons	73.10	1.77	0.43	2.25	%							8,636
	Acre Inches Applied:	**17.00**						**Totals:**	**205**		**8,119**	**2,873**	**12,182**	**13,084**	**8,636**
Season Nitrogen Ratio:	0.94							**Lbs Per Acre:**			**198**	**70**	**297**	**319**	**211**

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Cornerstone Dairy 2023

Nutrient Applications (Attachment B)

Field Name: S14

Corn, 41 Acres Planted on 05/22/2023

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)
04/29/2023	Corral Solids: Main Corral	10.00	Tons	18.30	0.83	0.24	1.45	%	410		5,547	1,621	9,714	0	
05/09/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,226	
06/21/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,226	
07/08/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			61	0	0	9,321	
07/17/2023	Ground Water: Well Avg	4.00	Acre Inches		1.10			mg/L			41	0	0	6,214	
07/30/2023	Ground Water: Well Avg	6.00	Acre Inches		1.10			mg/L			61	0	0	9,321	
08/14/2023	Surface Water: Lower Tule	6.00	Acre Inches		0.00			mg/L			0	0	0	2,226	
09/08/2023	Harvest	33.68	Tons	71.10	1.31	0.26	1.36	%							10,456
	Acre Inches Applied:	**34.00**						**Totals:**	**410**		**5,710**	**1,621**	**9,714**	**31,532**	**10,456**
Season Nitrogen Ratio:	0.55							**Lbs Per Acre:**			**139**	**40**	**237**	**769**	**255**

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Cornerstone Dairy 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	203,856.17	68,352.16	346,804.29	0.00	10,784.50	tons
Process Wastewater	361,160.21	28,376.47	349,665.30	2,710,697.53	95,264,072.98	gallons
Irrigation Water	5,515.35					
Fertilizer / Total Imports	3,998.25					
Atmospheric Deposition	23,660.00					
Total Nitrogen Applied	**598,189.98**					
Crop Nitrogen Removal	718,208.39					
Nitrogen Balance	**(120,018.41)**					
Nitrogen Ratio	**0.83**					

- **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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Cornerstone Dairy 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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Cornerstone Dairy 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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Cornerstone Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x293 x090 x013 xxxx	9	None
2	x293 x090 x013 xxxx	8	None
3	x293 x090 x013 xxxx	31	Both
4	x293 x090 x017 xxxx	66	Both
5	x293 x090 x017 xxxx	76	Both
6	x293 x090 x018 xxxx	75	Process Wastewater
7	x293 x090 x018 xxxx	74	Both
8	x293 x090 x012 xxxx	73	Process Wastewater
9	x293 x090 x012 xxxx	73	Both
14	x293 x070 x026 xxxx	80	Both
15	x293 x080 x019 xxxx	76	Both
16	x293 x080 x017 xxxx	55	Both
17	x293 x080 x017 xxxx	53	Both
18	x293 x080 x017 xxxx	42	Both
19	x293 x080 x018 xxxx	71	Both
20	x293 x090 x019 xxxx	94	Both
21	x293 x090 x019 xxxx	92	Both
22	x293 x090 x025 xxxx	70	Both
23	x293 x080 x007 xxxx	75	Both
24	x293 x080 x007 xxxx	72	Both
S7	x228 x170 x005 xxxx	75	Manure
S8	x228 x170 x005 xxxx	76	Manure
S9	x228 x170 x005 xxxx	78	None
S10	x228 x170 x005 xxxx	73	None
S11	x230 x010 x001 xxxx, x230 x010 x006 xxxx	50	Manure
S12	x230 x020 x001 xxxx	32	Manure

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Cornerstone Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
S14	x230 x020 x007 xxxx	41	Manure
		1,690	

Production Area APN(s): x293 x090 x013 xxxx

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Cornerstone Dairy 2023
Lab Results Summary (Attachment E)

Process Wastewater
(mgl/ppm unless noted otherwise)

Sample Date:	TKN	TP	TK	EC (umhos/cm)	NH4N	NO3N	TDS	pH (units)	General Minerals CA	MG	NA	HCO3	CO3	SO4	CL
03/09/2023	495.00	46.60	343.00	3,790	151.00		2,520.00								
04/19/2023	492.00	47.20	571.00	3,210	431.00	0.27	2,130.00	7.78							
07/18/2023	415.00	23.90	493.00	6,550	413.00		4,350.00								
11/02/2023	483.00	31.10	467.00	6,430	481.00		4,270.00								
Averages:	471.25	37.20	468.50	4,995	369.00	0.27	3,317.50	7.78							

Manure - Corral Solids
(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/14/2023	0.83	0.24	1.45	18.30						%
11/02/2023	2.72	0.94	4.25	42.10						%
Averages:	1.77	0.59	2.85	30.20						

Plant Tissue
(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Alfalfa	11/27/2023	74.60	7.14	43.20	7.25	10.20
2	1	Alfalfa	11/27/2023	78.60	6.96	50.80	7.72	9.88

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Cornerstone Dairy 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 (%)
3	1	Wheat	05/30/2023	23.80	4.54	13.44	65.40	8.49
3	2	Corn	09/30/2023	26.80	5.64	24.20	69.20	6.78
4	1	Wheat	05/03/2023	37.40	9.66	52.00	70.70	10.20
4	2	Corn	09/11/2023	27.60	5.82	26.20	67.90	6.13
5	1	Wheat	05/10/2023	31.00	8.32	37.80	70.70	10.30
5	2	Corn	09/14/2023	28.20	3.36	13.64	66.80	5.07
6	1	Corn	08/23/2023	26.00	6.66	22.40	67.70	5.27
7	1	Wheat	05/03/2023	33.00	9.64	48.60	71.90	9.00
7	2	Corn	09/15/2023	25.80	3.18	15.86	67.80	4.97
8	1	Wheat	05/02/2023	34.00	10.28	51.40	71.50	9.64
8	2	Corn	09/05/2023	27.60	5.26	20.80	64.60	5.69
9	1	Wheat	05/01/2023	37.00	10.54	48.20	71.90	9.62
9	2	Corn	09/04/2023	30.00	7.22	26.40	65.30	7.24
14	1	Wheat	05/30/2023	27.80	4.30	12.56	65.50	9.17
14	2	Corn	10/24/2023	22.80	4.06	12.32	61.90	4.55
15	1	Wheat	05/30/2023	25.00	4.90	14.06	66.40	8.86
15	2	Corn	10/24/2023	22.40	3.74	14.58	64.30	5.56
16	1	Wheat	05/30/2023	21.80	5.42	17.76	63.40	9.79

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Cornerstone Dairy 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 (%)
16	2	Corn	10/24/2023	22.40	4.26	12.60	62.10	4.48
17	1	Wheat	05/30/2023	30.00	4.70	17.48	58.40	9.13
17	2	Corn	10/24/2023	21.00	3.84	13.30	62.40	4.72
18	1	Wheat	05/30/2023	23.80	5.02	18.60	57.40	9.22
18	2	Corn	10/10/2023	21.60	4.88	19.90	62.30	6.41
19	1	Wheat	05/30/2023	23.20	5.04	18.08	57.20	9.27
19	2	Corn	10/10/2023	22.00	4.92	23.20	62.70	6.65
20	1	Wheat	05/22/2023	21.40	5.54	20.60	65.70	9.31
20	2	Corn	09/26/2023	23.80	5.90	27.60	74.10	5.96
21	1	Wheat	05/30/2023	11.98	4.34	17.64	58.20	8.53
21	2	Corn	10/10/2023	22.20	4.72	26.00	64.00	6.74
22	1	Wheat	05/11/2023	22.20	5.24	24.60	72.60	7.99
22	2	Corn	09/18/2023	23.00	4.50	25.60	68.80	5.26
23	1	Wheat	05/30/2023	11.96	4.76	18.24	60.00	8.20
23	2	Corn	09/16/2023	24.60	4.86	26.20	69.30	5.30
24	1	Wheat	05/30/2023	14.22	5.04	21.40	61.20	9.25
24	2	Corn	10/10/2023	21.20	4.20	19.22	62.50	5.78
S7	1	Wheat	05/22/2023	19.48	4.78	19.26	63.50	10.30

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Cornerstone Dairy 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 (%)
S7	2	Corn	10/24/2023	27.20	4.22	19.50	67.70	5.78
S8	1	Wheat	05/23/2023	23.40	7.24	23.80	65.00	12.10
S8	2	Corn	10/25/2023	24.60	3.90	19.10	69.90	5.89
S9	1	Alfalfa	11/14/2023	67.00	4.60	46.00	8.35	9.86
S10	1	Alfalfa	11/14/2023	59.80	4.86	51.20	9.07	10.50
S11	1	Wheat	04/28/2023	35.00	7.98	37.00	72.80	9.75
S11	2	Corn	09/05/2023	22.60	5.40	19.46	68.40	6.31
S12	1	Wheat	04/28/2023	33.60	7.88	45.60	72.60	10.20
S12	2	Corn	09/08/2023	26.80	5.38	27.40	71.20	7.34
S14	1	Wheat	04/28/2023	35.40	8.60	45.00	73.10	11.10
S14	2	Corn	09/08/2023	26.20	5.24	27.20	71.10	7.31

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														
W1	01/24/2023	6.90		452										

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Cornerstone Dairy 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
Dairy														
W2	Out of Service						Out of service							
	Averages:	6.90		452										
Domestic														
W7	12/27/2023	53.90		1,230		940.00		148.00	11.00	65.00	120.00	0.00	16.50	150.00
	Averages:	53.90		1,230		940.00		148.00	11.00	65.00	120.00	0.00	16.50	150.00

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Cornerstone Dairy 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														
3							Out of service							
3A	10/24/2023	0.00		253		170.00	0.00							
4	Out of Service						Out of service							
4a							Out of service							
4C							Did not Run							
AW6							Out of service							
S1	11/16/2023	0.00		209		130.00	0.00	3.00	0.00	39.00	60.00	10.00	4.50	11.00
S2	Out of Service						Out of Service							
S3	12/05/2023	0.00		205		90.00	0.00	2.00	0.00	42.00	60.00	20.00	3.00	10.00
W4							Did not Run							
W5	09/25/2023	4.40		387		280.00	4.40	23.00	1.00	51.00	90.00	0.00	8.70	44.00
W15							Out of Service							
W16							Out of service							
W17							Out of service							
W18							Did not Run							
W19							Did not Run							
W20							Did not Run							
W15A							Did not Run							
W16A	Out of Service						Out of service							

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Cornerstone Dairy 2023
Lab Results Summary (Attachment E)

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
Irrigation														
W3B							Did not Run							
	Averages:	1.10		264		167.50	1.10	9.33	0.33	44.00	70.00	10.00	5.40	21.67
Surface Water														
Lower Tule (General)	06/28/2023	0.00		52		40.00	0.00							
	Averages:	0.00		52		40.00	0.00							

* NH4N was non-detectable unless a value is shown

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Cornerstone Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1								
	1	Alfalfa	9	11/10/2016	11/27/2023	10.0	78.3	8.7
Field: 2								
	1	Alfalfa	8	11/18/2022	11/27/2023	12.0	51.8	6.5
Field: 3								
	1	Wheat	31	11/23/2022	05/30/2023	22.0	704.3	22.7
	2	Corn	31	06/17/2023	09/30/2023	30.0	600.2	19.4
Field: 4								
	1	Wheat	66	10/31/2022	05/03/2023	17.7	1877.7	28.4
	2	Corn	66	05/27/2023	09/11/2023	28.8	1918.0	29.1
Field: 5								
	1	Wheat	76	11/17/2022	05/10/2023	18.4	2213.9	29.1
	2	Corn	76	05/30/2023	09/14/2023	26.5	1809.6	23.8
Field: 6								
	1	Corn	75	05/02/2023	08/23/2023	30.0	2387.2	31.8
Field: 7								
	1	Wheat	74	11/03/2022	05/03/2023	19.9	1969.9	26.6
	2	Corn	74	05/26/2023	09/15/2023	26.0	1787.8	24.2
Field: 8								
	1	Wheat	73	10/19/2022	05/02/2023	17.9	1956.4	26.8
	2	Corn	73	05/23/2023	09/05/2023	25.8	2369.6	32.5
Field: 9								
	1	Wheat	73	10/22/2022	05/01/2023	20.1	1936.0	26.5
	2	Corn	73	05/20/2023	09/04/2023	27.1	1714.0	23.5

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Cornerstone Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 14								
	1	Wheat	80	11/22/2022	05/30/2023	14.4	1808.0	22.6
	2	Corn	80	07/15/2023	10/24/2023	27.4	1931.2	24.1
Field: 15								
	1	Wheat	76	11/05/2022	05/30/2023	18.6	2023.9	26.6
	2	Corn	76	06/17/2023	10/24/2023	26.3	2069.5	27.2
Field: 16								
	1	Wheat	55	11/21/2022	05/30/2023	31.2	1463.0	26.6
	2	Corn	55	06/19/2023	10/24/2023	31.1	1622.0	29.5
Field: 17								
	1	Wheat	53	11/05/2022	05/30/2023	24.3	975.7	18.4
	2	Corn	53	06/15/2023	10/24/2023	25.2	1416.7	26.7
Field: 18								
	1	Wheat	42	11/04/2022	05/30/2023	18.8	912.2	21.7
	2	Corn	42	06/09/2023	10/10/2023	26.5	1264.6	30.1
Field: 19								
	1	Wheat	71	11/21/2022	05/30/2023	20.3	1308.5	18.4
	2	Corn	71	06/15/2023	10/10/2023	27.4	1952.5	27.5
Field: 20								
	1	Wheat	94	11/15/2022	05/22/2023	19.0	2335.0	24.8
	2	Corn	94	06/16/2023	09/26/2023	28.0	2702.5	28.8
Field: 21								
	1	Wheat	92	11/26/2022	05/30/2023	21.4	1969.7	21.4
	2	Corn	92	06/21/2023	10/10/2023	26.1	2812.4	30.6

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Cornerstone Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 22								
	1	Wheat	70	11/02/2022	05/11/2023	20.7	1653.4	23.6
	2	Corn	70	06/01/2023	09/18/2023	29.0	2276.4	32.5
Field: 23								
	1	Wheat	75	11/05/2022	05/30/2023	19.9	1725.8	23.0
	2	Corn	75	06/14/2023	09/16/2023	27.3	1654.5	22.1
Field: 24								
	1	Wheat	72	11/25/2022	05/30/2023	19.9	1591.9	22.1
	2	Corn	72	06/20/2023	10/10/2023	27.3	1900.1	26.4
Field: S7								
	1	Wheat	75	11/17/2022	05/22/2023	20.8	1329.8	17.7
	2	Corn	75	06/29/2023	10/24/2023	28.6	1903.5	25.4
Field: S8								
	1	Wheat	76	11/18/2022	05/23/2023	18.3	1606.6	21.1
	2	Corn	76	06/30/2023	10/25/2023	28.2	1829.3	24.1
Field: S9								
	1	Alfalfa	78	11/29/2022	11/14/2023	8.7	761.3	9.8
Field: S10								
	1	Alfalfa	73	10/05/2020	11/14/2023	8.7	597.1	8.2
Field: S11								
	1	Wheat	50	11/25/2022	04/28/2023	21.6	1155.0	23.1
	2	Corn	50	05/20/2023	09/05/2023	28.5	1383.5	27.7
Field: S12								
	1	Wheat	32	10/25/2022	04/28/2023	20.3	778.6	24.3
	2	Corn	32	05/22/2023	09/08/2023	31.0	1162.6	36.3

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Cornerstone Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: S14								
	1	Wheat	41	10/26/2022	04/28/2023	20.4	906.9	22.1
	2	Corn	41	05/22/2023	09/08/2023	30.4	1380.9	33.7

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Cornerstone Dairy 2023

Weather Data (Attachment G)

Day	January	February	March	April	May	June	July	August	September	October	November	December
1	Light	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	Light	None	None	None	None	None	None	None
5	Heavy	Light	Light	None	None	None	None	None	None	None	None	None
6	None	None	None	None	None	None	None	None	None	None	None	None
7	None	None	None	None	None	SWP	None	None	None	None	None	None
8	None	None	None	None	None	None	None	None	None	None	None	None
9	SWP	None	Light	None	None	None	None	None	None	None	None	None
10	Light	None	SWP	None	None	None	None	None	None	None	None	None
11	None	None	None	None	None	None	None	None	None	None	None	None
12	None	None	None	None	None	None	None	None	None	None	None	None
13	None	None	None	None	None	None	None	None	None	None	None	None
14	Heavy	None	SWP	None	None	None	None	None	None	None	None	None
15	Light	None	Heavy	None	None	None	None	None	None	None	None	None
16	Heavy	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	Light	None	None	None	None	Light	None	None	None	None
20	None	None	None	None	None	None	None	SWP	None	None	None	None
21	None	None	SWP	None	None	None	None	None	None	None	None	None
22	None	Light	Light	None	None	None	None	None	None	None	None	None
23	None	None	None	None	None	None	None	None	None	Heavy	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	Heavy	Light	None	None	None	None	None	None	None	None	None
29	Light		Heavy	None	None	None	None	None	None	None	None	None
30	None		Light	None	None	None	None	None	None	None	None	Light
31	None		None		None		None	None		None		None

*Note: SWP = Standing Water Present

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

February 2, 2023

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

Lab No. : **VI 2340443**
Customer No. : **4018573**
Reference : **40137**

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
W1	01/24/2023	01/24/2023	VI 2340443-001	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	
	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: 2023-02-03

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

February 2, 2023

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

Description : W1
Project : 0041 Cornestone Dairy

Lab No. : VI 2340443-001
Customer No. : 4018573
Reference : 40137
Sampled On : January 24, 2023 at 14:34
Sampled By : Sean
Received On : January 24, 2023 at 15:15
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	6.9	0.4	mg/L	10	1		01/25/2023	12:45	lfs	SM 4500-NO3 F	01/25/2023	15:40	lfs
Conductivity	452	1	umhos/cm	1600[2]	1		01/27/2023	12:47	sta		01/27/2023	12:47	sta

DQF Flags Definition:

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 AGRICULTURAL
Analytical Chemists

February 2, 2023
Innovative Ag Services, LLC

Lab No. : VI 2340443
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	01/27/2023:200907STA	Blank	umhos/cm		ND	<1	
		(VI 2340470-002)	Dup	umhos/cm		1.14%	5	
Nitrate Nitrogen	4500NO3F	01/25/2023:200843LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	96.2%	80-120	
			MS	mg/L	5.609	96.2%	66-125	
		(SP 2301099-001)	MSD	mg/L	5.609	95.8%	66-125	
			MSRPD	mg/L	5.609	0.2%	≤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.

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Laboratory Analysis Work Order

Nº 40137

ID: # 0641 2340443 LABORATORY: FGL

SITE NAME: Cornerstone Dairy

Billing: FAS

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) 801 17.0

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	W1	Dom	W1	1/24/23 ~~12:34~~	Sean	0		
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]	FAS		1/24/23 3:15
2nd	[illegible]	FGL	1/24/23 1515	
3rd	[illegible]	"		1/24/23 1730
4th	[illegible]	"	1/24/23 1730	[illegible] 1/25/23 12:00

LABORATORY USE ONLY

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

October 12, 2023

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

Lab No. : **VI 2346465**
Customer No. : **4018573**
Reference : **41403**

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
W5	09/25/2023	09/25/2023	VI 2346465-001	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: 2023-10-12

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

October 12, 2023

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

Description : W5
Project : 0041 Cornerstone Dairy

Lab No. : VI 2346465-001
Customer No. : 4018573
Reference : 41403
Sampled On : September 25, 2023 at 14:15
Sampled By : Zeke
Received On : September 25, 2023 at 15:59
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)	80	10	mg/L		1		10/03/2023	18:10	amm	SM 4500-H+B	10/04/2023	08:23	amm
Bicarbonate	90	10	mg/L		1		10/03/2023	18:10	amm	SM 4500-H+B	10/04/2023	08:23	amm
Carbonate	ND	10	mg/L		1	U	10/03/2023	18:10	amm	SM 4500-H+B	10/04/2023	08:23	amm
Hydroxide	ND	10	mg/L		1	U	10/03/2023	18:10	amm	SM 4500-H+B	10/04/2023	08:23	amm
Chloride	44	1	mg/L		1		09/26/2023	15:00	ldm	EPA 300.0	09/26/2023	18:24	lfs
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	10/06/2023	09:12	sta	EPA 351.2	10/10/2023	16:52	lcr
Nitrate Nitrogen	4.4	0.1	mg/L		1		09/26/2023	15:00	ldm	EPA 300.0	09/26/2023	18:24	lfs
Nitrogen, Total as Nitrogen	4.4	0.5	mg/L		1		10/06/2023	09:12	sta	Calc.	10/10/2023	16:52	lcr
Nitrate + Nitrite as N	4.4	0.1	mg/L		1		09/26/2023	15:00	ldm	EPA 300.0	09/26/2023	18:24	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	10/06/2023	09:12	sta	EPA 351.2	10/10/2023	16:52	lcr
Conductivity	387	1	umhos/cm		1		10/03/2023	18:10	amm	SM 4500-H+B	10/04/2023	08:23	amm
Sulfate Sulfur	8.7	0.17	mg/L		1		09/26/2023	15:00	ldm	EPA 300.0	09/26/2023	18:24	lfs
Solids, Total Dissolved (TDS)	280	20	mg/L		1		09/27/2023	10:50	ctl	SM 2540 C	09/28/2023	11:15	ctl
Calcium	23	1	mg/L		1		09/27/2023	06:22	ejc	EPA 200.7	09/29/2023	12:20	ac
Magnesium	1	1	mg/L		1		09/27/2023	06:22	ejc	EPA 200.7	09/29/2023	12:20	ac
Sodium	51	1	mg/L		1		09/27/2023	06:22	ejc	EPA 200.7	09/29/2023	12:20	ac

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

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

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

October 12, 2023
Innovative Ag Services, LLC

Lab No. : VI 2346465
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	09/27/2023:210871EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	103%	85-115	
			MS	mg/L	12.00	204%	<¼	406
		(SP 2316218-001)	MSD	mg/L	12.00	317%	<1/4	
			MSRPD	mg/L		4.3%	≤20.0	
			MS	mg/L	12.00	-20.9%	<¼	406
		(SP 2316219-001)	MSD	mg/L	12.00	-55.9%	<1/4	
			MSRPD	mg/L		1.4%	≤20.0	
Magnesium	200.7	09/27/2023:210871EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	105%	85-115	
			MS	mg/L	12.00	-2240%	<¼	406
		(SP 2316218-001)	MSD	mg/L	12.00	-1850%	<1/4	
			MSRPD	mg/L		4.9%	≤20	
			MS	mg/L	12.00	458%	<¼	406
		(SP 2316219-001)	MSD	mg/L	12.00	113%	75-125	
			MSRPD	mg/L		3.1%	≤20	
Sodium	200.7	09/27/2023:210871EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	104%	85-115	
			MS	mg/L	12.00	4280%	<¼	406
		(SP 2316218-001)	MSD	mg/L	12.00	16500%	<1/4	
			MSRPD	mg/L		13.3%	≤20.0	
			MS	mg/L	12.00	-2150%	<¼	406
		(SP 2316219-001)	MSD	mg/L	12.00	7600%	<1/4	
			MSRPD	mg/L		11.1%	≤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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October 12, 2023
Innovative Ag Services, LLC

Lab No. : VI 2346465
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	10/03/2023:211091AMM	ND	mg/L		0.05%	10	406
Bicarbonate	2320B	(VI 2346465-001)	Dup	mg/L		0.3%	10	
E. C.	2320B	(VI 2346465-001)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	09/27/2023:210870CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	98.4%	90-110	
		(SP 2316191-001)	Dup	mg/L		0.7%	5	
		(SP 2316191-001)	Dup	mg/L		0.6%	5	
Chloride	300.0	09/26/2023:210847LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101%	90-110	
			MS	mg/L	50.00	87.1%	67-117	
		(STK2353080-001)	MSD	mg/L	50.00	87.2%	67-117	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	50.00	99.8%	67-117	
		(STK2353138-001)	MSD	mg/L	50.00	100%	67-117	
			MSRPD	mg/L		0.2%	≤7	
Nitrate + Nitrite as N	300.0	09/26/2023:210847LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102%	90-110	
			MS	mg/L	40.00	93.7%	86-112	
		(STK2353080-001)	MSD	mg/L	40.00	93.8%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	103%	86-112	
		(STK2353138-001)	MSD	mg/L	40.00	103%	86-112	
			MSRPD	mg/L		0.1%	≤7	
Nitrate Nitrogen	300.0	09/26/2023:210847LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102%	90-110	
			MS	mg/L	40.00	93.7%	86-112	
		(STK2353080-001)	MSD	mg/L	40.00	93.8%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	103%	86-112	
		(STK2353138-001)	MSD	mg/L	40.00	103%	86-112	
			MSRPD	mg/L		0.1%	≤7	
Sulfate Sulfur	300.0	09/26/2023:210847LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	101%	90-110	
			MS	mg/L	100.0	96.3%	18-165	
		(STK2353080-001)	MSD	mg/L	100.0	96.4%	18-165	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	101%	18-165	
		(STK2353138-001)	MSD	mg/L	100.0	102%	18-165	
			MSRPD	mg/L		0.2%	≤7	
Nitrogen, Total Kjeldahl	351.2	10/06/2023:211241STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	93.9%	73-124	
			MS	mg/L	12.00	90.9%	90-110	
		(CH 2378308-009)	MSD	mg/L	12.00	93.9%	90-110	
			MSRPD	mg/L		3.3%	≤20	
			MS	mg/L	12.00	90.1%	90-110	
		(CH 2378308-010)	MSD	mg/L	12.00	95.2%	90-110	
			MSRPD	mg/L		5.4%	≤20	

Page 4 of 5

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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

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.

Page 5 of 5

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Laboratory Analysis Work Order

Nº 41403

23464465

ID: # 0041

LABORATORY: FGL

SITE NAME: CORNERSTONE DAIRY

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	W5	IAR	W5	9-25/2:15	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		IAR		9-25-23 / 3:35
2nd	AJB	FGL	9/25/23 1542	
3rd	AJB	FGL		9/25/23 1559
4th			9/25/23 1559	

LABORATORY USE ONLY

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 15, 2023

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

Lab No. : **VI 2347210**
Customer No. : **4018573**
Reference : **41667**

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
3A	10/24/2023	10/24/2023	VI 2347210-001	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 2510 B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-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: 2023-11-15

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 15, 2023

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

Description : 3A
Project : 0041 Cornerstone Dairy

Lab No. : VI 2347210-001
Customer No. : 4018573
Reference : 41667
Sampled On : October 24, 2023 at 12:20
Sampled By : Zeke
Received On : October 24, 2023 at 16:22
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	U	11/06/2023	12:41	sta	EPA 351.2	11/12/2023	17:11	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	10/25/2023	13:15	lfs	SM 4500-NO3 F	10/25/2023	14:15	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	11/06/2023	12:41	sta	Calc.	11/12/2023	17:11	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	10/25/2023	13:15	lfs	SM 4500-NO3 F	10/25/2023	14:15	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	11/06/2023	12:41	sta	EPA 351.2	11/12/2023	17:11	lcr
Conductivity	253	1	umhos/cm		1		11/06/2023	09:14	krh	SM 2510 B	11/06/2023	10:01	krh
Solids, Total Dissolved (TDS)	170	20	mg/L		1		10/26/2023	14:50	ctl	SM 2540 C	10/27/2023	11:00	ctl

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

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

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ENVIRONMENTAL EGL AGRICULTURAL
Analytical Chemists

November 15, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347210
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	11/06/2023:212564KRH	Blank	umhos/cm		ND	<1	
		(STK2354930-001)	Dup	umhos/cm		0.9%	5	
Solids, Total Dissolved	2540CE	10/26/2023:212148CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	102%	90-110	
		(SP 2318070-001)	Dup	mg/L		0.2%	5	
		(SP 2318070-001)	Dup	mg/L		0.2%	5	
Nitrogen, Total Kjeldahl	351.2	11/06/2023:212602STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	96.0%	73-124	
			MS	mg/L	12.00	96.2%	90-110	
		(CH 2379032-009)	MSD	mg/L	12.00	92.6%	90-110	
			MSRPD	mg/L		3.6%	≤20	
			MS	mg/L	12.00	91.9%	90-110	
		(CH 2379032-010)	MSD	mg/L	12.00	94.5%	90-110	
			MSRPD	mg/L		2.8%	≤20	
Nitrate + Nitrite as N	4500NO3F	10/25/2023:212082LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	100%	80-120	
			MS	mg/L	5.609	96.5%	66-125	
		(SP 2317956-001)	MSD	mg/L	5.609	98.2%	66-125	
			MSRPD	mg/L		1.5%	≤30.4	
Nitrate Nitrogen	4500NO3F	10/25/2023:212082LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	100%	80-120	
			MS	mg/L	5.609	96.5%	66-125	
		(SP 2317956-001)	MSD	mg/L	5.609	98.2%	66-125	
			MSRPD	mg/L		1.5%	≤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.

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CA ELAP Certification No. 2810

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Laboratory Analysis Work Order

Nº 41667

2347210

ID: # 0041

LABORATORY: FGL

SITE NAME: CORNERSTONE DAIRY

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

Billing: IAS

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	3A	IAR	W2	10-24/12:20	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: ROI 17.2°C
ID#7H407

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[illegible]	IAS		10-24-23 / 3:25
2nd	EMA	FGL	10/24/23 16:00	
3rd	EMA	FGL		10/24/23 16:22
4th	SRO	FGL	10.24.23 1622	
	SRO	FGL	10.24.23 1160	
		GLS	10.24.23 1730	

LABORATORY USE ONLY

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

GLS 10/25/23 11:15 JAW 10/25/23 11:15

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

November 28, 2023

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

Lab No. : **VI 2347800**
Customer No. : **4018573**
Reference : **42056**

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
S1	11/16/2023	11/16/2023	VI 2347800-001	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: 2023-11-28

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 28, 2023

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

Description : S1
Project : 0041 Cornerstone Dairy

Lab No. : VI 2347800-001
Customer No. : 4018573
Reference : 42056
Sampled On : November 16, 2023 at 07:00
Sampled By : Zeke
Received On : November 16, 2023 at 15:57
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)	70	10	mg/L		1		11/19/2023	20:37	amm	SM 4500-H+B	11/20/2023	11:20	amm
Bicarbonate	60	10	mg/L		1		11/19/2023	20:37	amm	SM 4500-H+B	11/20/2023	11:20	amm
Carbonate	10	10	mg/L		1		11/19/2023	20:37	amm	SM 4500-H+B	11/20/2023	11:20	amm
Hydroxide	10	10	mg/L		1		11/19/2023	20:37	amm	SM 4500-H+B	11/20/2023	11:20	amm
Chloride	11	1	mg/L		1		11/17/2023	11:19	ldm	EPA 300.0	11/17/2023	17:04	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	11/21/2023	14:22	sta	EPA 351.2	11/26/2023	17:13	lcr
Nitrate Nitrogen	ND	0.1	mg/L		1	U	11/17/2023	11:19	ldm	EPA 300.0	11/17/2023	17:04	ldm
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UlJ	11/21/2023	14:22	sta	Calc.	11/26/2023	17:13	lcr
Nitrate + Nitrite as N	ND	0.1	mg/L		1	J	11/17/2023	11:19	ldm	EPA 300.0	11/17/2023	17:04	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	11/21/2023	14:22	sta	EPA 351.2	11/26/2023	17:13	lcr
Conductivity	209	1	umhos/cm		1		11/19/2023	20:37	amm	SM 4500-H+B	11/20/2023	11:20	amm
Sulfate Sulfur	4.5	0.17	mg/L		1		11/17/2023	11:19	ldm	EPA 300.0	11/17/2023	17:04	ldm
Solids, Total Dissolved (TDS)	130	20	mg/L		1		11/17/2023	14:15	ctl	SM 2540 C	11/20/2023	10:00	ctl
Calcium	3	1	mg/L		1		11/20/2023	04:45	ejc	EPA 200.7	11/20/2023	16:31	ac
Magnesium	ND	1	mg/L		1	U	11/20/2023	04:45	ejc	EPA 200.7	11/20/2023	16:31	ac
Sodium	39	1	mg/L		1	l	11/20/2023	04:45	ejc	EPA 200.7	11/20/2023	16:31	ac

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

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

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November 28, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347800
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	11/20/2023:213183EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.2%	85-115	
			MS	mg/L	12.00	86.6%	75-125	
		(VI 2347800-001)	MSD	mg/L	12.00	93.9%	75-125	
			MSRPD	mg/L		6.6%	≤20.0	
			MS	mg/L	12.00	96.9%	75-125	
		(CC 2384047-002)	MSD	mg/L	12.00	119%	75-125	
			MSRPD	mg/L		4.5%	≤20.0	
Magnesium	200.7	11/20/2023:213183EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101%	85-115	
			MS	mg/L	12.00	91.2%	75-125	
		(VI 2347800-001)	MSD	mg/L	12.00	97.2%	75-125	
			MSRPD	mg/L		6.3%	≤20	
			MS	mg/L	12.00	97.0%	75-125	
		(CC 2384047-002)	MSD	mg/L	12.00	115%	75-125	
			MSRPD	mg/L		4.3%	≤20	
Sodium	200.7	11/20/2023:213183EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.8%	85-115	
			MS	mg/L	12.00	67.6%	75-125	435
		(VI 2347800-001)	MSD	mg/L	12.00	93.3%	75-125	
			MSRPD	mg/L		6.3%	≤20.0	
			MS	mg/L	12.00	87.7%	75-125	
		(CC 2384047-002)	MSD	mg/L	12.00	122%	75-125	
			MSRPD	mg/L		4.2%	≤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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November 28, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347800
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	11/19/2023:213162AMM	ND	mg/L		1.95%	10	435
Bicarbonate	2320B	(VI 2347715-002)	Dup	mg/L		2.27%	10	
Carbonate	2320B	(VI 2347715-002)	Dup	mg/L		2.47%	10	
E. C.	2320B	(VI 2347715-002)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	11/17/2023:213117CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	101%	90-110	
		(SP 2319216-001)	Dup	mg/L		0.3%	5	
		(SP 2319216-001)	Dup	mg/L		0.8%	5	
Chloride	300.0	11/17/2023:213148LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	97.0%	90-110	
			MS	mg/L	50.00	95.2%	67-117	
		(CH 2379449-004)	MSD	mg/L	50.00	95.2%	67-117	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	50.00	95.4%	67-117	
		(CH 2379449-005)	MSD	mg/L	50.00	95.6%	67-117	
			MSRPD	mg/L		0.1%	≤7	
Nitrate + Nitrite as N	300.0	11/17/2023:213148LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	97.0%	90-110	
			MS	mg/L	40.00	91.9%	86-112	
		(CH 2379449-004)	MSD	mg/L	40.00	92.0%	86-112	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	40.00	95.1%	86-112	
		(CH 2379449-005)	MSD	mg/L	40.00	95.3%	86-112	
			MSRPD	mg/L		0.1%	≤7	
Nitrate Nitrogen	300.0	11/17/2023:213148LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	97.0%	90-110	
			MS	mg/L	40.00	91.9%	86-112	
		(CH 2379449-004)	MSD	mg/L	40.00	92.0%	86-112	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	40.00	95.1%	86-112	
		(CH 2379449-005)	MSD	mg/L	40.00	95.3%	86-112	
			MSRPD	mg/L		0.1%	≤7	
Sulfate Sulfur	300.0	11/17/2023:213148LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	97.6%	90-110	
			MS	mg/L	100.0	86.7%	18-165	
		(CH 2379449-004)	MSD	mg/L	100.0	86.8%	18-165	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	87.2%	18-165	
		(CH 2379449-005)	MSD	mg/L	100.0	87.5%	18-165	
			MSRPD	mg/L		0.2%	≤7	
Nitrogen, Total Kjeldahl	351.2	11/21/2023:213242STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	94.1%	73-124	
			MS	mg/L	12.00	88.9%	90-110	435
		(VI 2347800-001)	MSD	mg/L	12.00	87.9%	90-110	435
			MSRPD	mg/L		1.2%	≤20	
			MS	mg/L	12.00	88.1%	90-110	435
		(VI 2347735-001)	MSD	mg/L	12.00	90.6%	90-110	
			MSRPD	mg/L		2.7%	≤20	

Page 4 of 5

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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.

Page 5 of 5

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Laboratory Analysis Work Order

Nº 42056

2347800

ID: # 0041

LABORATORY: FGL

SITE NAME: CORNERSTONE DAIRY

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	S1	IAR	W5	11-16 / 7:00	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: RO 1 14.8°C
ID# TH407

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[illegible]	IAS		11-16-23 / 2:45
2nd	EMA	FGL	11/16/23 15:42	
3rd	EMA	FGL		11/16/23 15:57
4th	SRO	FGL	11-16-23 1557	
	SRO	FGL	11-16-23 1730	
		GLS	11-16-23 1730	

LABORATORY USE ONLY

Logged In By: _____ **Total Samples:** _____ **Laboratory #:** _____ 11/17/23 1155

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

December 18, 2023

Lab No. : **VI 2348212**
Customer No. : **4018573**
Reference : **42133**

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

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
S3	12/05/2023	12/05/2023	VI 2348212-001	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: 2023-12-18

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

December 18, 2023

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

Description : S3
Project : 0041 Cornerstone Dairy

Lab No. : VI 2348212-001
Customer No. : 4018573
Reference : 42133
Sampled On : December 5, 2023 at 13:25
Sampled By : Zeke
Received On : December 5, 2023 at 15:46
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)	80	10	mg/L		1		12/10/2023	16:08	amm	SM 4500-H+B	12/11/2023	05:01	amm
Bicarbonate	60	10	mg/L		1		12/10/2023	16:08	amm	SM 4500-H+B	12/11/2023	05:01	amm
Carbonate	20	10	mg/L		1		12/10/2023	16:08	amm	SM 4500-H+B	12/11/2023	05:01	amm
Hydroxide	20	10	mg/L		1		12/10/2023	16:08	amm	SM 4500-H+B	12/11/2023	05:01	amm
Chloride	10	1	mg/L		1		12/06/2023	11:50	ldm	EPA 300.0	12/06/2023	20:41	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	12/14/2023	07:10	lcr	EPA 351.2	12/17/2023	17:47	lcr
Nitrate Nitrogen	ND	0.1	mg/L		1	U	12/06/2023	11:50	ldm	EPA 300.0	12/06/2023	20:41	ldm
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UlJ	12/14/2023	07:10	lcr	Calc.	12/17/2023	17:47	lcr
Nitrate + Nitrite as N	ND	0.1	mg/L		1	J	12/06/2023	11:50	ldm	EPA 300.0	12/06/2023	20:41	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	12/14/2023	07:10	lcr	EPA 351.2	12/17/2023	17:47	lcr
Conductivity	205	1	umhos/cm		1		12/10/2023	16:08	amm	SM 4500-H+B	12/11/2023	05:01	amm
Sulfate Sulfur	3.0	0.17	mg/L		1		12/06/2023	11:50	ldm	EPA 300.0	12/06/2023	20:41	ldm
Solids, Total Dissolved (TDS)	90	20	mg/L		1		12/07/2023	10:00	ctl	SM 2540 C	12/08/2023	11:00	ctl
Calcium	2	1	mg/L		1		12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	22:30	ac
Magnesium	ND	1	mg/L		1	U	12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	22:30	ac
Sodium	42	1	mg/L		1		12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	22:30	ac

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

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

December 18, 2023
Innovative Ag Services, LLC

Lab No. : VI 2348212
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	12/07/2023:213815EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	91.5%	85-115	
			MS	mg/L	12.00	72.6%	<¼	406
		(CC 2384296-003)	MSD	mg/L	12.00	115%	75-125	
			MSRPD	mg/L		7.1%	≤20.0	
			MS	mg/L	12.00	126%	<¼	406
		(CC 2384274-002)	MSD	mg/L	12.00	108%	75-125	
			MSRPD	mg/L		3.3%	≤20.0	
Magnesium	200.7	12/07/2023:213815EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	93.4%	85-115	
			MS	mg/L	12.00	76.9%	75-125	
		(CC 2384296-003)	MSD	mg/L	12.00	114%	75-125	
			MSRPD	mg/L		6.6%	≤20	
			MS	mg/L	12.00	123%	75-125	
		(CC 2384274-002)	MSD	mg/L	12.00	105%	75-125	
			MSRPD	mg/L		3.7%	≤20	
Sodium	200.7	12/07/2023:213815EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	89.3%	85-115	
			MS	mg/L	12.00	82.9%	75-125	
		(CC 2384296-003)	MSD	mg/L	12.00	108%	75-125	
			MSRPD	mg/L		4.3%	≤20.0	
			MS	mg/L	12.00	129%	<¼	406
		(CC 2384274-002)	MSD	mg/L	12.00	111%	75-125	
			MSRPD	mg/L		2.1%	≤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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December 18, 2023
Innovative Ag Services, LLC

Lab No. : VI 2348212
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	12/10/2023:213906AMM	ND	mg/L		0.2%	10	406
Bicarbonate	2320B	(SP 2319949-001)	Dup	mg/L		0.2%	10	
E. C.	2320B	(SP 2319949-001)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	12/07/2023:213784CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	99.1%	90-110	
		(STK2356558-002)	Dup	mg/L		1.01%	5	
		(STK2356558-002)	Dup	mg/L		1.47%	5	
Chloride	300.0	12/06/2023:213857LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.3%	90-110	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2347969-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2348000-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
Nitrate + Nitrite as N	300.0	12/06/2023:213857LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	98.6%	90-110	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2347969-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2348000-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
Nitrate Nitrogen	300.0	12/06/2023:213857LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	98.6%	90-110	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2347969-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2348000-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
Sulfate Sulfur	300.0	12/06/2023:213857LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.9%	90-110	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2347969-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	406
		(VI 2348000-001)	MSD	mg/L	0.000	0.0%	<1/4	
			MSRPD	mg/L		0.0%	≤7	
Nitrogen, Total Kjeldahl	351.2	12/14/2023:214086LCR	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	91.0%	73-124	
			MS	mg/L	12.00	82.9%	<¼	406
		(VI 2348210-001)	MSD	mg/L	12.00	86.4%	<1/4	
			MSRPD	mg/L		4.2%	≤20	
			MS	mg/L	12.00	85.6%	90-110	435
		(VI 2348215-001)	MSD	mg/L	12.00	84.4%	90-110	435
			MSRPD	mg/L		1.5%	≤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

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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Laboratory Analysis Work Order

Nº 42133

2348212

ID: # 0041

LABORATORY: FGL

SITE NAME: Cornerstone Dairy

Billing: IAS

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

201
9.8 oc

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: _____

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	S3	IRR	W5	12-5/1:25	Zake			
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: GIS CDA 12/6/23 1330

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[illegible]	IAS		12-5-23/ 3:15
2nd	EMA	FGL	12/5/23 15:46	
3rd	EMA	FGL		12/5/23 16:04
4th	[illegible]		12/5/23 1604	

LABORATORY USE ONLY

Logged In By: GD

Total Samples: 12/5/23 1747

Laboratory #: _____

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

January 9, 2024

Lab No. : **VI 2348941**
Customer No. : **4018573**
Reference : **42249**

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

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
W7	12/27/2023	12/27/2023	VI 2348941-001	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 at 2.8 ° C. 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)
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: 2024-01-10

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

January 9, 2024

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

Description : W7
Project : 0041 Cornerstone Dairy

Lab No. : VI 2348941-001
Customer No. : 4018573
Reference : 42249
Sampled On : December 27, 2023 at 10:00
Sampled By : Zeke
Received On : December 27, 2023 at 15:45
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)	90	10	mg/L		1		01/02/2024	19:43	amm	SM 4500-H+B	01/03/2024	02:39	amm
Bicarbonate	120	10	mg/L		1		01/02/2024	19:43	amm	SM 4500-H+B	01/03/2024	02:39	amm
Carbonate	ND	10	mg/L		1	U	01/02/2024	19:43	amm	SM 4500-H+B	01/03/2024	02:39	amm
Hydroxide	ND	10	mg/L		1	U	01/02/2024	19:43	amm	SM 4500-H+B	01/03/2024	02:39	amm
Chloride	150	7*	mg/L	500[2]	7		01/02/2024	11:46	ldm	EPA 300.0	01/03/2024	00:58	ldm
Nitrate Nitrogen	53.9	2*	mg/L	10	5		12/28/2023	13:00	lfs	SM 4500-NO3 F	12/28/2023	17:18	lfs
Conductivity	1230	1	umhos/cm	1600[2]	1		01/02/2024	19:43	amm	SM 4500-H+B	01/03/2024	02:39	amm
Sulfate Sulfur	16.5	0.17	mg/L		1		01/02/2024	11:46	ldm	EPA 300.0	01/02/2024	17:19	ldm
Solids, Total Dissolved (TDS)	940	20	mg/L	1000[2]	1		12/29/2023	14:00	ctl	SM 2540 C	01/02/2024	11:50	ctl
Calcium	148	1	mg/L		1	lh	01/02/2024	05:45	ejc	EPA 200.7	01/04/2024	17:06	ac
Magnesium	11	1	mg/L		1		01/02/2024	05:45	ejc	EPA 200.7	01/04/2024	17:06	ac
Potassium	1	1	mg/L		1		01/02/2024	05:45	ejc	EPA 200.7	01/04/2024	17:06	ac
Sodium	65	1	mg/L		1	h	01/02/2024	05:45	ejc	EPA 200.7	01/04/2024	17:06	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
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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January 9, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348941
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	01/02/2024:200032EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	103%	85-115	
			MS	mg/L	12.00	74.8%	75-125	435
		(CH 2390850-001)	MSD	mg/L	12.00	84.5%	75-125	
			MSRPD	mg/L		2.6%	≤20.0	
			MS	mg/L	12.00	103%	75-125	
		(CH 2390849-002)	MSD	mg/L	12.00	134%	75-125	435
			MSRPD	mg/L		7.8%	≤20.0	
Magnesium	200.7	01/02/2024:200032EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	104%	85-115	
			MS	mg/L	12.00	87.0%	75-125	
		(CH 2390850-001)	MSD	mg/L	12.00	91.7%	75-125	
			MSRPD	mg/L		2.1%	≤20	
			MS	mg/L	12.00	102%	75-125	
		(CH 2390849-002)	MSD	mg/L	12.00	121%	75-125	
			MSRPD	mg/L		7.8%	≤20	
Potassium	200.7	01/02/2024:200032EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101%	85-115	
			MS	mg/L	12.00	99.6%	75-125	
		(CH 2390850-001)	MSD	mg/L	12.00	101%	75-125	
			MSRPD	mg/L		1.7%	≤20.0	
			MS	mg/L	12.00	105%	75-125	
		(CH 2390849-002)	MSD	mg/L	12.00	116%	75-125	
			MSRPD	mg/L		8.7%	≤20.0	
Sodium	200.7	01/02/2024:200032EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	101%	85-115	
			MS	mg/L	12.00	82.1%	75-125	
		(CH 2390850-001)	MSD	mg/L	12.00	88.0%	75-125	
			MSRPD	mg/L		2.2%	≤20.0	
			MS	mg/L	12.00	106%	75-125	
		(CH 2390849-002)	MSD	mg/L	12.00	128%	75-125	435
			MSRPD	mg/L		7.5%	≤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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January 9, 2024
Innovative Ag Services, LLC

Lab No. : VI 2348941
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 2321112-007)	Dup	mg/L		0.09%	10	
Bicarbonate	2320B	(SP 2321112-007)	Dup	mg/L		0.1%	10	
E. C.	2320B	(SP 2321112-007)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	12/29/2023:214664CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	101%	90-110	
		(VI 2348941-001)	Dup	mg/L		2.69%	5	
		(VI 2348941-001)	Dup	mg/L		3.94%	5	
Chloride	300.0	01/02/2024:200062LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.8%	90-110	
			MS	mg/L	50.00	102%	67-117	
		(CC 2384647-001)	MSD	mg/L	50.00	102%	67-117	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	50.00	94.6%	67-117	
		(SP 2320946-002)	MSD	mg/L	50.00	94.6%	67-117	
			MSRPD	mg/L		0.0%	≤7	
Sulfate Sulfur	300.0	01/02/2024:200062LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	100%	90-110	
			MS	mg/L	100.0	103%	18-165	
		(CC 2384647-001)	MSD	mg/L	100.0	103%	18-165	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	100.0	84.7%	18-165	
		(SP 2320946-002)	MSD	mg/L	100.0	84.7%	18-165	
			MSRPD	mg/L		0.0%	≤7	
Nitrate Nitrogen	4500NO3F	12/28/2023:214627LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	98.4%	80-120	
			MS	mg/L	5.609	94.1%	66-125	
		(SP 2321122-001)	MSD	mg/L	5.609	98.0%	66-125	
			MSRPD	mg/L		1.5%	≤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.

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Laboratory Analysis Work Order

Nº 42249

2348941

ID: # 0041

LABORATORY: FGL

SITE NAME: Cornerstone Dairy

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: _____

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	W7	DOM	W4	12-27/10:00	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: ROI 2.8°C
ID#TT407

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[illegible]	IAS		12-27-23/12:15
2nd	[illegible]	FGL	12-27-23 15:30	
3rd	[illegible]	FGL		12-27-23 15:45
4th	SRO	FGL	12.27.23 1545	
	SRO	FGL	12.27.23 1730	
		GLS	12.27.23 1730	

LABORATORY USE ONLY

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

GLS 12/28/23 1305
JAW

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