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INNOVATIVE
AG SERVICES

DOUBLE L DAIRY

2023 Annual Report

X	Report Form	X	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. R5-2010-0130 Waste Discharge Requirements, General Order for Dairies with Manure Anaerobic Digester or Co-Digester Facilities for July 1, 2024.

(See attached delivery confirmation)

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Annual Report

Double L Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Double L Dairy
Facility Address	10234 Lansing Avenue, Hanford CA 93230

Owner/Operator as of 12/31/2023

Operator Name	Tom Vander Dussen
Operator Phone	(559) 752-2030
Owner Name	Ron Vander Weerd
Owner Phone	(559) 805-4101

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:

__ No discharges occurred during the reporting period.

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

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CENTRAL VALLEY REGION

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

X No discharges occurred during the reporting period.

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

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

X No discharges occurred during the reporting period.

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

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

__ No.

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

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

X No.

__ Yes, see attached manifests.

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

X Not applicable; no written agreements.

__ No changes in agreement(s).

__ Yes, a new or revised agreement is attached.

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

X Not Applicable.

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

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

Double L Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

17. Record-Keeping Results

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

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

18. Groundwater Monitoring Section

X Groundwater monitoring results are attached.

__ Monitoring Well results are attached, if applicable.

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

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

19. Storm Water Reporting Section

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

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

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

20. Mortality Management Practices

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

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Double L Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

"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."

DocuSigned by: Tom Vander dussen 6B4C3BE3E0C2472...	DocuSigned by: Ron Vander Weerd 786EDAF09B35428...
Signature of Operator of Facility	Signature of Owner of Facility
Tom Vander Dussen	Ron Vander Weerd
Print Name	Print Name
6/28/2024	6/28/2024
Title and Date	Title and Date

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Double L 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	2,432	2,400	Milk Freestall -	1,400	60,909.33	867,240.00	148,920.00	201,480.00	1,582,056.00
Hol Dry Cows	365	300	Flushed	1,450	4,377.63	54,750.00	7,665.00	36,135.00	77,263.20
Hol Heifers(15-24)	800	780	Flushed	1,000	8,142.05	108,186.00	17,082.00	51,246.00	200,884.32
Hol Heifers (7-14)	500	487	Flushed	750	4,683.61	46,216.30	7,821.22	26,663.25	58,792.47
Hol Calves (4-6)	300	292	Flushed	300	1,012.51	14,921.20	4,263.20	8,526.40	6,991.65
	4,397	**4,259**			**79,125.14**	**1,091,313.50**	**185,751.42**	**324,050.65**	**1,925,987.63**

* 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)**
44,096,682	687.50	102.80	856.00	6,510.00	252,536.19	37,761.05	314,430.51	2,391,288.1

* 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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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 59 Acres Planted on 11/30/2022

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)
12/24/2022	Ground Water: Well Avg	4.96	Acre Inches		0.00			mg/L			0	0	0	19,527	
12/24/2022	Waste Water: Main Lagoon	0.86	Acre Inches		431.00	35.90	735.00	mg/L		1,377,809	4,947	412	8,436	81,258	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			826				
02/20/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	20,072	
02/20/2023	Waste Water: Main Lagoon	0.84	Acre Inches		578.00	91.20	1,120.0	mg/L		1,345,767	6,479	1,022	12,555	72,530	
04/15/2023	Ground Water: Well Avg	5.04	Acre Inches		0.00			mg/L			0	0	0	21,075	
04/15/2023	Waste Water: Main Lagoon	0.87	Acre Inches		904.00	186.00	1,170.0	mg/L		1,393,830	10,496	2,159	13,584	90,446	
05/04/2023	Harvest	19.25	Tons	67.40	2.19	0.48	3.50	%							16,217
	Acre Inches Applied:	**17.37**						**Totals:**		**4,117,407**	**22,748**	**3,594**	**34,575**	**304,910**	**16,217**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**386**	**61**	**586**	**5,168**	**275**

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Milo, 59 Acres Planted on 06/27/2023

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)
07/09/2023	Ground Water: Well Avg	6.12	Acre Inches		0.00			mg/L			0	0	0	25,591	
07/09/2023	Waste Water: Main Lagoon	0.74	Acre Inches		547.00	63.10	627.00	mg/L		1,185,557	5,402	623	6,192	63,007	
07/24/2023	Ground Water: Well Avg	5.84	Acre Inches		0.00			mg/L			0	0	0	24,421	
07/24/2023	Waste Water: Main Lagoon	0.50	Acre Inches		547.00	63.10	627.00	mg/L		801,052	3,650	421	4,184	42,572	
08/09/2023	Ground Water: Well Avg	5.65	Acre Inches		0.00			mg/L			0	0	0	23,626	
08/09/2023	Waste Water: Main Lagoon	0.70	Acre Inches		547.00	63.10	627.00	mg/L		1,121,473	5,110	589	5,858	59,601	
08/23/2023	Ground Water: Well Avg	5.93	Acre Inches		0.00			mg/L			0	0	0	24,797	
08/23/2023	Waste Water: Main Lagoon	0.20	Acre Inches		547.00	63.10	627.00	mg/L		320,421	1,460	168	1,673	17,029	
09/26/2023	Harvest	23.40	Tons	68.60	1.30	0.20	1.43	%							11,271
	Acre Inches Applied:	**25.68**						**Totals:**		**3,428,502**	**15,622**	**1,802**	**17,906**	**280,644**	**11,271**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**265**	**31**	**304**	**4,757**	**191**

Season Notes: Nitrogen was entered using a book value due to an erroneous sample result.

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 67 Acres Planted on 12/04/2022

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)
12/28/2022	Ground Water: Well Avg	4.94	Acre Inches		0.00			mg/L			0	0	0	22,085	
12/28/2022	Waste Water: Main Lagoon	0.94	Acre Inches		431.00	35.90	735.00	mg/L		1,710,178	6,140	511	10,471	100,860	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			938				
02/24/2023	Ground Water: Well Avg	4.80	Acre Inches		0.00			mg/L			0	0	0	22,793	
02/24/2023	Waste Water: Main Lagoon	0.84	Acre Inches		578.00	91.20	1,120.0	mg/L		1,528,244	7,358	1,161	14,258	82,365	
04/19/2023	Ground Water: Well Avg	5.01	Acre Inches		0.00			mg/L			0	0	0	23,790	
04/19/2023	Waste Water: Main Lagoon	0.54	Acre Inches		904.00	186.00	1,170.0	mg/L		982,443	7,398	1,522	9,575	63,751	
05/08/2023	Harvest	19.80	Tons	62.90	1.73	0.44	2.68	%							17,029
	Acre Inches Applied:	**17.07**						**Totals:**		**4,220,864**	**21,834**	**3,195**	**34,303**	**315,646**	**17,029**
Season Nitrogen Ratio:	1.28							**Lbs Per Acre:**			**326**	**48**	**512**	**4,711**	**254**

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 38 Acres Planted on 12/04/2022

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)
12/30/2022	Ground Water: Well Avg	5.10	Acre Inches		0.00			mg/L			0	0	0	12,932	
12/30/2022	Waste Water: Main Lagoon	1.04	Acre Inches		431.00	35.90	735.00	mg/L		1,073,138	3,853	321	6,570	63,290	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			532				
02/26/2023	Ground Water: Well Avg	4.85	Acre Inches		0.00			mg/L			0	0	0	13,062	
02/26/2023	Waste Water: Main Lagoon	0.84	Acre Inches		578.00	91.20	1,120.0	mg/L		866,765	4,173	659	8,086	46,715	
04/21/2023	Ground Water: Well Avg	5.22	Acre Inches		0.00			mg/L			0	0	0	14,059	
04/21/2023	Waste Water: Main Lagoon	0.51	Acre Inches		904.00	186.00	1,170.0	mg/L		526,250	3,963	815	5,129	34,149	
05/08/2023	Harvest	18.80	Tons	63.00	1.88	0.44	3.21	%							9,939
	Acre Inches Applied:	**17.56**						**Totals:**		**2,466,154**	**12,521**	**1,795**	**19,785**	**184,206**	**9,939**
Season Nitrogen Ratio:	1.26							**Lbs Per Acre:**			**330**	**47**	**521**	**4,848**	**262**

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Wheat, 123 Acres Planted on 12/15/2022

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,722				
01/08/2023	Ground Water: Well Avg	4.84	Acre Inches		0.00			mg/L			0	0	0	42,193	
01/08/2023	Waste Water: Main Lagoon	0.84	Acre Inches		578.00	91.20	1,120.0	mg/L		2,805,582	13,508	2,132	26,174	151,208	
03/07/2023	Ground Water: Well Avg	4.76	Acre Inches		0.00			mg/L			0	0	0	41,495	
03/07/2023	Waste Water: Main Lagoon	0.87	Acre Inches		578.00	91.20	1,120.0	mg/L		2,905,782	13,990	2,208	27,109	156,607	
04/30/2023	Ground Water: Well Avg	4.87	Acre Inches		0.00			mg/L			0	0	0	42,455	
04/30/2023	Waste Water: Main Lagoon	0.54	Acre Inches		904.00	186.00	1,170.0	mg/L		1,803,589	13,582	2,795	17,578	117,036	
05/19/2023	Harvest	19.70	Tons	64.20	1.94	0.49	3.62	%							33,658
	Acre Inches Applied:	**16.72**						**Totals:**		**7,514,953**	**42,802**	**7,134**	**70,862**	**550,993**	**33,658**
Season Nitrogen Ratio:	1.27							**Lbs Per Acre:**			**348**	**58**	**576**	**4,480**	**274**

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 5

Milo, 123 Acres Planted on 07/27/2023

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)
08/08/2023	Ground Water: Well Avg	5.87	Acre Inches		0.00			mg/L			0	0	0	51,172	
08/08/2023	Waste Water: Main Lagoon	0.47	Acre Inches		547.00	63.10	627.00	mg/L		1,569,790	7,152	825	8,199	83,427	
08/23/2023	Ground Water: Well Avg	5.74	Acre Inches		0.00			mg/L			0	0	0	50,039	
08/23/2023	Waste Water: Main Lagoon	0.45	Acre Inches		547.00	63.10	627.00	mg/L		1,502,991	6,849	790	7,850	79,877	
09/08/2023	Ground Water: Well Avg	5.65	Acre Inches		0.00			mg/L			0	0	0	49,254	
09/08/2023	Waste Water: Main Lagoon	0.45	Acre Inches		547.00	63.10	627.00	mg/L		1,502,991	6,849	790	7,850	79,877	
09/22/2023	Ground Water: Well Avg	5.78	Acre Inches		0.00			mg/L			0	0	0	50,387	
09/22/2023	Waste Water: Main Lagoon	0.45	Acre Inches		609.00	39.60	631.00	mg/L		1,502,991	7,625	496	7,900	63,475	
10/26/2023	Harvest	23.90	Tons	73.00	1.34	0.23	1.89	%							21,272
	Acre Inches Applied:	**24.86**						**Totals:**		**6,078,762**	**28,474**	**2,900**	**31,799**	**507,509**	**21,272**
Season Nitrogen Ratio:	1.34							**Lbs Per Acre:**			**232**	**24**	**259**	**4,126**	**173**

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Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 6

Wheat, 143 Acres Planted on 12/04/2022

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)
12/26/2022	Ground Water: Well Avg	4.83	Acre Inches		0.00			mg/L			0	0	0	46,087	
12/26/2022	Waste Water: Main Lagoon	0.98	Acre Inches		431.00	35.90	735.00	mg/L		3,805,404	13,662	1,138	23,299	224,428	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,002				
02/22/2023	Ground Water: Well Avg	4.76	Acre Inches		0.00			mg/L			0	0	0	48,242	
02/22/2023	Waste Water: Main Lagoon	0.97	Acre Inches		578.00	91.20	1,120.0	mg/L		3,766,573	18,135	2,861	35,141	203,000	
04/17/2023	Ground Water: Well Avg	4.86	Acre Inches		0.00			mg/L			0	0	0	49,256	
04/17/2023	Waste Water: Main Lagoon	0.43	Acre Inches		904.00	186.00	1,170.0	mg/L		1,669,718	12,574	2,587	16,273	108,350	
05/08/2023	Harvest	20.00	Tons	61.70	1.96	0.50	3.60	%							42,939
	Acre Inches Applied:	**16.83**						**Totals:**		**9,241,694**	**46,373**	**6,587**	**74,713**	**679,364**	**42,939**
Season Nitrogen Ratio:	1.08							**Lbs Per Acre:**			**324**	**46**	**522**	**4,751**	**300**

INNOVATIVE AG SERVICES

Double L Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 6

Milo, 143 Acres Planted on 06/27/2023

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)
07/11/2023	Ground Water: Well Avg	5.85	Acre Inches		0.00			mg/L			0	0	0	59,291	
07/11/2023	Waste Water: Main Lagoon	0.46	Acre Inches		547.00	63.10	627.00	mg/L		1,786,210	8,140	940	9,329	94,929	
07/26/2023	Ground Water: Well Avg	5.73	Acre Inches		0.00			mg/L			0	0	0	58,074	
07/26/2023	Waste Water: Main Lagoon	0.45	Acre Inches		547.00	63.10	627.00	mg/L		1,747,379	7,962	918	9,126	92,866	
08/11/2023	Ground Water: Well Avg	5.65	Acre Inches		0.00			mg/L			0	0	0	57,263	
08/11/2023	Waste Water: Main Lagoon	0.45	Acre Inches		547.00	63.10	627.00	mg/L		1,747,379	7,962	918	9,126	92,866	
08/25/2023	Ground Water: Well Avg	5.77	Acre Inches		0.00			mg/L			0	0	0	58,480	
08/25/2023	Waste Water: Main Lagoon	0.45	Acre Inches		547.00	63.10	627.00	mg/L		1,747,379	7,962	918	9,126	92,866	
09/26/2023	Harvest	24.00	Tons	70.20	1.30	0.18	1.35	%							26,591
	Acre Inches Applied:	**24.81**						**Totals:**		**7,028,347**	**32,026**	**3,694**	**36,708**	**606,633**	**26,591**
Season Nitrogen Ratio:	1.20							**Lbs Per Acre:**			**224**	**26**	**257**	**4,242**	**186**

Season Notes: Nitrogen was entered using a book value due to an erroneous sample result.

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Double L 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	0.00	0.00	0.00	0.00		tons
Process Wastewater	216,380.81	30,699.84	320,652.50	2,458,386.24	44,096,682.40	gallons
Irrigation Water	0.00					
Fertilizer / Total Imports	0.00					
Atmospheric Deposition	6,020.00					
Total Nitrogen Applied	**222,400.81**					
Crop Nitrogen Removal	178,915.11					
Nitrogen Balance	**43,485.70**					
Nitrogen Ratio	**1.24**					

- **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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Double L 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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Double L 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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Double L Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x028 x220 x058 x000, x028 x220 x060 x000	59	Process Wastewater
2	x028 x220 x059 x000	67	Process Wastewater
3	x028 x220 x059 x000	38	Process Wastewater
5	x028 x250 x008 x000, x028 x250 x019 x000, x028 x250 x020 x000	123	Process Wastewater
6	x028 x260 x035 x000, x028 x260 x036 x000	143	Process Wastewater
		430	

Production Area APN(s): x028 x220 x059 x000

Double L Dairy 2023

Lab Results Summary (Attachment E)

Process Wastewater

(mgl/ppm unless noted otherwise)

									General Minerals						
Sample Date:	**TKN**	**TP**	**TK**	**EC (umhos/cm)**	**NH4N**	**NO3N**	**TDS**	**pH (units)**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
02/16/2023	578.00	91.20	1,120.00	9,740	494.00		6,470.00								
03/17/2023	794.00	166.00	1,100.00	11,100	722.00		7,360.00								
04/25/2023	904.00	186.00	1,170.00	11,700	637.00	0.00	7,790.00	7.44							
07/13/2023	547.00	63.10	627.00	9,610	503.00		6,380.00								
07/28/2023	693.00	70.90	488.00	9,020	685.00		5,990.00								
11/07/2023	609.00	39.60	631.00	7,630	607.00		5,070.00								
Averages:	687.50	102.80	856.00	9,800	608.00	0.00	6,510.00	7.44							

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
06/02/2023	3.08	1.75	5.33	37.60						%
11/07/2023	3.05	1.21	3.54	37.10						%
Averages:	3.06	1.48	4.44	37.35						

Plant Tissue

(Dry Weight Basis)

Field:	**Crop #:**	**Crop**	**Sample Date:**	**TN (lbs/ton)**	**TP (lbs/ton)**	**TK (lbs/ton)**	**Moisture (%)**	**Ash (%)**

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Double L 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 (%)
1	1	Wheat	05/04/2023	43.80	9.52	70.00	67.40	13.10
1	2	Milo	09/26/2023	26.00	3.98	28.60	68.60	11.10
2	1	Wheat	05/08/2023	34.60	8.86	53.60	62.90	19.00
3	1	Wheat	05/08/2023	37.60	8.74	64.20	63.00	14.70
5	1	Wheat	05/19/2023	38.80	9.82	72.40	64.20	15.30
5	2	Milo	10/26/2023	26.80	4.52	37.80	73.00	9.27
6	1	Wheat	05/08/2023	39.20	9.92	72.00	61.70	13.50
6	2	Milo	09/26/2023	26.00	3.66	27.00	70.20	10.50

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals CA	MG	NA	HCO3	CO3	SO4	CL
Dairy														
DW1	02/01/2023	0.00		270		190.00		0.00	0.00	59.00	110.00	10.00	1.40	16.00
	Averages:	0.00		270		190.00		0.00	0.00	59.00	110.00	10.00	1.40	16.00

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Double L 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														
IW1								Did not run.						
IW2	10/26/2023	0.00		613		350.00	0.00	3.00	0.00	120.00	230.00	0.00	0.80	76.00
IW4	10/26/2023	0.00		468		300.00	0.60	3.00	0.00	101.00	240.00	0.00	0.00	23.00
IW6	10/26/2023	0.00		422		290.00	0.00	3.00	0.00	88.00	210.00	0.00	0.60	27.00
	Averages:	0.00		501		313.33	0.20	3.00	0.00	103.00	226.67	0.00	0.47	42.00

* NH4N was non-detectable unless a value is shown

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Double L 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	Wheat	59	11/30/2022	05/04/2023	19.5	1135.8	19.2
	2	Milo	59	06/27/2023	09/26/2023	23.1	1380.6	23.4
Field: 2								
	1	Wheat	67	12/04/2022	05/08/2023	19.5	1326.6	19.8
Field: 3								
	1	Wheat	38	12/04/2022	05/08/2023	18.3	714.4	18.8
Field: 5								
	1	Wheat	123	12/15/2022	05/19/2023	19.1	2423.1	19.7
	2	Milo	123	07/27/2023	10/26/2023	24.7	2939.7	23.9
Field: 6								
	1	Wheat	143	12/04/2022	05/08/2023	19.6	2860.0	20.0
	2	Milo	143	06/27/2023	09/26/2023	24.2	3432.0	24.0

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Double L 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 AGRICULTURAL
Analytical Chemists

February 13, 2023

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

Lab No. : **VI 2340625**
Customer No. : **4018573**
Reference : **40150**

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
DW1	02/01/2023	02/01/2023	VI 2340625-001	DW

Sampling and Receipt Information:

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

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

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-02-14

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

February 13, 2023

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

Lab No. : VI 2340625-001
Customer No. : 4018573
Reference : 40150
Sampled On : February 1, 2023 at 12:00
Sampled By : Sean
Received On : February 1, 2023 at 16:00
Matrix : Drinking Water

Description : DW1
Project : 0069 Double L Dairy

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)	110	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	23:37	amm
Bicarbonate	110	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	23:37	amm
Carbonate	10	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	23:37	amm
Hydroxide	10	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	23:37	amm
Chloride	16	1	mg/L	500[2]	1	bl	02/02/2023	14:29	ldm	EPA 300.0	02/03/2023	06:27	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	J	02/02/2023	14:29	ldm	EPA 300.0	02/03/2023	06:27	ldm
Conductivity	270	1	umhos/cm	1600[2]	1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	23:37	amm
Sulfate Sulfur	1.40	0.17	mg/L		1		02/02/2023	14:29	ldm	EPA 300.0	02/03/2023	06:27	ldm
Solids, Total Dissolved (TDS)	190	20	mg/L	1000[2]	1		02/03/2023	11:43	ctl	SM 2540 C	02/06/2023	12:25	ctl
Calcium	ND	2*	mg/L		2	J	02/09/2023	05:55	ejc	EPA 200.7	02/10/2023	15:51	ac
Magnesium	ND	1	mg/L		1	J	02/09/2023	05:55	ejc	EPA 200.7	02/10/2023	13:28	ac
Potassium	1	1	mg/L		1		02/09/2023	05:55	ejc	EPA 200.7	02/10/2023	13:28	ac
Sodium	59	1	mg/L		1		02/09/2023	05:55	ejc	EPA 200.7	02/10/2023	13:28	ac

DQF Flags Definition:
- b The Blank was positive for constituent but less than the PQL
- 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 * RL adusted for dilution, Dil.=Dilution
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

Page 2 of 4

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

February 13, 2023
Innovative Ag Services, LLC

Lab No. : VI 2340625
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	02/09/2023:201433EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	99.7 %	85-115	
			MS	mg/L	12.00	142 %	<¼	
		(SP 2301880-001)	MSD	mg/L	12.00	114 %	75-125	
			MSRPD	mg/L	0.8000	1.9%	≤20.0	
			MS	mg/L	12.00	91.0 %	75-125	
		(SP 2301817-001)	MSD	mg/L	12.00	120 %	75-125	
			MSRPD	mg/L	0.8000	1.5%	≤20.0	
Magnesium	200.7	02/09/2023:201433EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	102 %	85-115	
			MS	mg/L	12.00	110 %	75-125	
		(SP 2301880-001)	MSD	mg/L	12.00	105 %	75-125	
			MSRPD	mg/L	0.8000	0.9%	≤20	
			MS	mg/L	12.00	81.2 %	75-125	
		(SP 2301817-001)	MSD	mg/L	12.00	95.3 %	75-125	
			MSRPD	mg/L	0.8000	1.4%	≤20	
Potassium	200.7	02/09/2023:201433EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	99.8 %	85-115	
			MS	mg/L	12.00	115 %	75-125	
		(SP 2301880-001)	MSD	mg/L	12.00	110 %	75-125	
			MSRPD	mg/L	0.8000	1.2%	≤20.0	
			MS	mg/L	12.00	105 %	75-125	
		(SP 2301817-001)	MSD	mg/L	12.00	110 %	75-125	
			MSRPD	mg/L	0.8000	1.9%	≤20.0	
Sodium	200.7	02/09/2023:201433EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	99.7 %	85-115	
			MS	mg/L	12.00	129 %	<¼	
		(SP 2301880-001)	MSD	mg/L	12.00	110 %	75-125	
			MSRPD	mg/L	0.8000	1.8%	≤20.0	
			MS	mg/L	12.00	913 %	<¼	
		(SP 2301817-001)	MSD	mg/L	12.00	843 %	<¼	
			MSRPD	mg/L	0.8000	2.0%	≤20.0	

Definition

<¼	: High Sample Background - Spike concentration was less than one forth of the sample concentration.
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.

Page 3 of 4

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February 13, 2023
Innovative Ag Services, LLC

Lab No. : VI 2340625
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	02/05/2023:201253AMM	ND	mg/L		0.2%	10	
Bicarbonate	2320B	(SP 2301447-001)	Dup	mg/L		0.2%	10	
E. C.	2320B	(SP 2301447-001)	Dup	umhos/cm		0.07%	5	
Solids, Total Dissolved	2540CE	02/03/2023:201214CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	104 %	90-110	
		(VI 2340617-001)	Dup	mg/L		1.1%	5	
		(VI 2340617-001)	Dup	mg/L		1.5%	5	
Chloride	300.0	02/02/2023:201219LDM	Blank	mg/L		1	<1	
			LCS	mg/L	25.00	97.6 %	90-110	
			MS	mg/L	50.00	79.6 %	85-121	435
		(CH 2370584-001)	MSD	mg/L	50.00	85.3 %	85-121	
			MSRPD	mg/L	10.00	2.9%	≤19	
			MS	mg/L	50.00	86.7 %	85-121	
		(CH 2370584-002)	MSD	mg/L	50.00	91.1 %	85-121	
			MSRPD	mg/L	10.00	2.5%	≤19	
Nitrate Nitrogen	300.0	02/02/2023:201219LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.4 %	90-110	
			MS	mg/L	40.00	94.4 %	85-119	
		(CH 2370584-001)	MSD	mg/L	40.00	102 %	85-119	
			MSRPD	mg/L	10.00	7.3%	≤19	
			MS	mg/L	40.00	98.4 %	85-119	
		(CH 2370584-002)	MSD	mg/L	40.00	104 %	85-119	
			MSRPD	mg/L	10.00	5.0%	≤19	
Sulfate Sulfur	300.0	02/02/2023:201219LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.0 %	90-110	
			MS	mg/L	100.0	89.2 %	82-124	
		(CH 2370584-001)	MSD	mg/L	100.0	95.8 %	82-124	
			MSRPD	mg/L	10.00	4.6%	≤23	
			MS	mg/L	100.0	96.1 %	82-124	
		(CH 2370584-002)	MSD	mg/L	100.0	101 %	82-124	
			MSRPD	mg/L	10.00	4.0%	≤23	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Explanation

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

Page 4 of 4

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Laboratory Analysis Work Order

Nº 40150

ID: # 6069 2340625

LABORATORY: FGL

SITE NAME: Double L 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) 201 19.5

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	DWL	DOM	W4	2/1/23 12:00	SEAN	Ø		
2								
3								
4								
5								
6								
7								
8								

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st		IAS		2/1/23 3:30
2nd		FGL	2-1-23 1530	
3rd		FGL		2-1-23 1600
4th			2/1/23 1600	

LABORATORY USE ONLY

Logged In By: GLS Total Samples: 2/1/23 Laboratory #: _____

GLS MC 2/2/23 1140

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

November 15, 2023

Lab No. : **VI 2347291**
Customer No. : **4018573**
Reference : **41686**

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

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
IW2	10/26/2023	10/26/2023	VI 2347291-001	AGW
IW4	10/26/2023	10/26/2023	VI 2347291-002	AGW
IW6	10/26/2023	10/26/2023	VI 2347291-003	AGW

Sampling and Receipt Information:

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

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

Test Summary	
EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 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 : IW2
Project : 0069 Double L Dairy

Lab No. : VI 2347291-001
Customer No. : 4018573
Reference : 41686
Sampled On : October 26, 2023 at 10:50
Sampled By : Zeke
Received On : October 26, 2023 at 16:12
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)	200	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	01:41	amm
Bicarbonate	230	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	01:41	amm
Carbonate	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	01:41	amm
Hydroxide	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	01:41	amm
Chloride	76	1	mg/L		1		11/05/2023	08:42	ldm	EPA 300.0	11/06/2023	15:23	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Ul	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:26	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:26	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	Ul	11/08/2023	07:53	sta	Calc.	11/12/2023	18:26	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:26	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:26	lcr
Conductivity	613	1	umhos/cm		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	01:41	amm
Sulfate Sulfur	0.8	0.17	mg/L		1		11/05/2023	08:42	ldm	EPA 300.0	11/06/2023	15:23	ldm
Solids, Total Dissolved (TDS)	350	20	mg/L		1		10/30/2023	14:15	ctl	SM 2540 C	10/31/2023	10:00	ctl
Calcium	3	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:24	ac
Magnesium	ND	1	mg/L		1	U	10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:24	ac
Sodium	120	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:24	ac

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

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

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ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

November 15, 2023

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

Description : IW4
Project : 0069 Double L Dairy

Lab No. : VI 2347291-002
Customer No. : 4018573
Reference : 41686
Sampled On : October 26, 2023 at 11:15
Sampled By : Zeke
Received On : October 26, 2023 at 16:12
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO3)	210	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	02:18	amm
Bicarbonate	240	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	02:18	amm
Carbonate	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	02:18	amm
Hydroxide	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	02:18	amm
Chloride	23	1	mg/L		1		11/05/2023	09:54	ldm	EPA 300.0	11/05/2023	17:06	ldm
Nitrogen, Total Kjeldahl	0.6	0.5	mg/L		1	l	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:28	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:29	lfs
Nitrogen, Total as Nitrogen	0.6	0.5	mg/L		1	l	11/08/2023	07:53	sta	Calc.	11/12/2023	18:28	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:29	lfs
Kjeldahl Nitrogen	0.6	0.5	mg/L		1	l	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:28	lcr
Conductivity	468	1	umhos/cm		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	02:18	amm
Sulfate Sulfur	ND	0.17	mg/L		1	U	11/05/2023	09:54	ldm	EPA 300.0	11/05/2023	17:06	ldm
Solids, Total Dissolved (TDS)	300	20	mg/L		1		10/30/2023	12:40	ctl	SM 2540 C	10/31/2023	10:00	ctl
Calcium	3	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:31	ac
Magnesium	ND	1	mg/L		1	U	10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:31	ac
Sodium	101	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:31	ac

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

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

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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 : IW6
Project : 0069 Double L Dairy

Lab No. : VI 2347291-003
Customer No. : 4018573
Reference : 41686
Sampled On : October 26, 2023 at 11:25
Sampled By : Zeke
Received On : October 26, 2023 at 16:12
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)	180	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	04:25	amm
Bicarbonate	210	10	mg/L		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	04:25	amm
Carbonate	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	04:25	amm
Hydroxide	ND	10	mg/L		1	U	10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	04:25	amm
Chloride	27	1	mg/L		1		11/03/2023	17:11	ldm	EPA 300.0	11/04/2023	08:51	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	Jl	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:31	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:31	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	JlU	11/08/2023	07:53	sta	Calc.	11/12/2023	18:31	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	10/27/2023	13:00	lfs	SM 4500-NO3 F	10/27/2023	15:31	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Jl	11/08/2023	07:53	sta	EPA 351.2	11/12/2023	18:31	lcr
Conductivity	422	1	umhos/cm		1		10/30/2023	18:19	amm	SM 4500-H+B	10/31/2023	04:25	amm
Sulfate Sulfur	0.6	0.17	mg/L		1		11/03/2023	17:11	ldm	EPA 300.0	11/04/2023	08:51	ldm
Solids, Total Dissolved (TDS)	290	20	mg/L		1		10/30/2023	12:40	ctl	SM 2540 C	10/31/2023	10:00	ctl
Calcium	3	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:37	ac
Magnesium	ND	1	mg/L		1	U	10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:37	ac
Sodium	88	1	mg/L		1		10/30/2023	07:56	ejc	EPA 200.7	10/31/2023	18:37	ac

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

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

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ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

November 15, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347291
Customer No. : 4018573

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	10/30/2023:212253EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	105%	85-115	
			MS	mg/L	12.00	84.9%	75-125	
		(SP 2318187-001)	MSD	mg/L	12.00	108%	75-125	
			MSRPD	mg/L		3.3%	≤20.0	
			MS	mg/L	12.00	53.4%	<¼	406
		(SP 2318184-001)	MSD	mg/L	12.00	99.3%	75-125	
			MSRPD	mg/L		3.7%	≤20.0	
Magnesium	200.7	10/30/2023:212253EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	105%	85-115	
			MS	mg/L	12.00	91.9%	75-125	
		(SP 2318187-001)	MSD	mg/L	12.00	100%	75-125	
			MSRPD	mg/L		2.6%	≤20	
			MS	mg/L	12.00	81.7%	75-125	
		(SP 2318184-001)	MSD	mg/L	12.00	92.5%	75-125	
			MSRPD	mg/L		2.3%	≤20	
Sodium	200.7	10/30/2023:212253EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	105%	85-115	
			MS	mg/L	12.00	88.4%	75-125	
		(SP 2318187-001)	MSD	mg/L	12.00	128%	<1/4	
			MSRPD	mg/L		1.7%	≤20.0	

Definition

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

Explanation

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

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November 15, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347291
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	10/30/2023:211869AMM	ND	mg/L		0.5%	10	406
		(STK2354964-001)	Dup	mg/L		3.15%	10	
Bicarbonate	2320B	(VI 2347236-005)	Dup	mg/L		0.6%	10	
		(STK2354964-001)	Dup	mg/L		3.21%	10	
E. C.	2320B	(VI 2347236-005)	Dup	umhos/cm		0.4%	5	
		(STK2354964-001)	Dup	umhos/cm		2.34%	5	
Solids, Total Dissolved	2540CE	10/30/2023:212294CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	101%	90-110	
		(CC 2383794-001)	Dup	mg/L		3.28%	5	
		(CC 2383794-001)	Dup	mg/L		2.25%	5	
			Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	99.7%	90-110	
		(SP 2318131-001)	Dup	mg/L		1.04%	5	
		(SP 2318131-001)	Dup	mg/L		0.3%	5	
Chloride	300.0	11/03/2023:212527LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	103%	90-110	
			MS	mg/L	50.00	101%	67-117	
		(STK2355022-002)	MSD	mg/L	50.00	101%	67-117	
			MSRPD	mg/L		0.2%	≤7	
			MS	mg/L	50.00	104%	67-117	
		(STK2355022-003)	MSD	mg/L	50.00	103%	67-117	
			MSRPD	mg/L		0.2%	≤7	
	300.0	11/05/2023:212541LDM	Blank	mg/L		ND	<1	
	300.0	11/05/2023:212571LDM	Blank	mg/L		ND	<1	
	300.0	11/05/2023:212541LDM	LCS	mg/L	25.00	98.5%	90-110	
	300.0	11/05/2023:212571LDM	LCS	mg/L	25.00	98.7%	90-110	
	300.0	11/05/2023:212541LDM	MS	mg/L	50.00	74.0%	67-117	
	300.0	11/05/2023:212571LDM	MS	mg/L	50.00	94.7%	67-117	
	300.0	(STK2354382-002)	MSD	mg/L	50.00	76.1%	67-117	
	300.0	(CC 2383804-001)	MSD	mg/L	50.00	94.8%	67-117	
			MSRPD	mg/L		0.1%	≤7	
	300.0	11/05/2023:212541LDM	MSRPD	mg/L		1.0%	≤7	
			MS	mg/L	50.00	102%	67-117	
	300.0	11/05/2023:212571LDM	MS	mg/L	50.00	99.3%	67-117	
	300.0	(STK2354964-001)	MSD	mg/L	50.00	102%	67-117	
	300.0	(CC 2383822-004)	MSD	mg/L	50.00	99.5%	67-117	
	300.0	11/05/2023:212541LDM	MSRPD	mg/L		0.1%	≤7	
	300.0	11/05/2023:212571LDM	MSRPD	mg/L		0.1%	≤7	
Sulfate Sulfur	300.0	11/03/2023:212527LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	103%	90-110	
			MS	mg/L	100.0	103%	18-165	
		(STK2355022-002)	MSD	mg/L	100.0	103%	18-165	
			MSRPD	mg/L		0.2%	≤7	
			MS	mg/L	100.0	102%	18-165	
		(STK2355022-003)	MSD	mg/L	100.0	104%	18-165	
			MSRPD	mg/L		1.5%	≤7	
	300.0	11/05/2023:212541LDM	Blank	mg/L		ND	<0.5	
	300.0	11/05/2023:212571LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.1%	90-110	
	300.0	11/05/2023:212541LDM	LCS	mg/L	50.00	99.0%	90-110	

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November 15, 2023
Innovative Ag Services, LLC

Lab No. : VI 2347291
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
			MS	mg/L	100.0	99.2%	18-165	
	300.0	11/05/2023:212571LDM	MS	mg/L	100.0	93.9%	18-165	
	300.0	(STK2354382-002)	MSD	mg/L	100.0	99.3%	18-165	
	300.0	(CC 2383804-001)	MSD	mg/L	100.0	94.1%	18-165	
			MSRPD	mg/L		0.1%	≤7	
	300.0	11/05/2023:212541LDM	MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	102%	18-165	
	300.0	11/05/2023:212571LDM	MS	mg/L	100.0	101%	18-165	
		(CC 2383822-004)	MSD	mg/L	100.0	101%	18-165	
	300.0	(STK2354964-001)	MSD	mg/L	100.0	102%	18-165	
			MSRPD	mg/L		0.2%	≤7	
	300.0	11/05/2023:212571LDM	MSRPD	mg/L		0.2%	≤7	
Nitrogen, Total Kjeldahl	351.2	11/08/2023:212672STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	90.4%	73-124	
			MS	mg/L	12.00	86.6%	90-110	435
		(CH 2379367-003)	MSD	mg/L	12.00	87.0%	90-110	435
			MSRPD	mg/L		0.4%	≤20	
			MS	mg/L	12.00	85.9%	90-110	435
		(CH 2379367-005)	MSD	mg/L	12.00	86.9%	90-110	435
			MSRPD	mg/L		1.1%	≤20	
Nitrate + Nitrite as N	4500NO3F	10/27/2023:212209LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	98.6%	80-120	
			MS	mg/L	5.609	93.9%	66-125	
		(VI 2347274-001)	MSD	mg/L	5.609	96.1%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	
Nitrate Nitrogen	4500NO3F	10/27/2023:212209LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	98.6%	80-120	
			MS	mg/L	5.609	93.9%	66-125	
		(VI 2347274-001)	MSD	mg/L	5.609	96.1%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

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 41686

2847291

ID: # 0069

LABORATORY: FGL

SITE NAME: DOUBLE L 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: _____

20 / 13.30 DH 17467

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	IW2	IRR	W5	10-26	10:50	Zeke			
2	IW4	↓	↓	↓	11:15	↓			
3	IW6	↓	↓	↓	11:25	↓			
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	E	IAS		10-26-23 / 2:15
2nd	EMA	FGL	10/26/23 19:55	
3rd	EMA	FGL		10/26/23 16:12
4th	DH		10/26/23 16:12	

LABORATORY USE ONLY

Logged In By: GL **Total Samples:** 10/26/23 **Laboratory #:**

GLS 10/27/23 12:30 JAW 10/27/23 12:30

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Yokum/Double L Dairy

FORM FOR
PRIORITY REPORTING OF SIGNIFICANT EVENTS
UNDER
WASTE DISCHARGE REQUIREMENTS GENERAL ORDER NO. R5-2013-0122
FOR
EXISTING MILK COW DAIRIES

A **significant event** is any noncompliance with Waste Discharge Requirements General Order No. R5-2010-0130 (General Order) that endangers human health or the environment, or any noncompliance with Prohibitions A1, A2, A3, A4, A5, A8, A9, A10, A11, or A12 of the General Order. **Discharge** means the release of waste, such as solid manure or process wastewater, to land, surface water, or groundwater. Most noncompliance will be from off- property discharge of solid manure or process wastewater into surface water, or on-property discharge of solid manure or process wastewater in a way not allowed under the General Order, such as the flooding of cropland with process wastewater.

Noncompliance does not have to include an off-property or improper on-property discharge of solid manure or process wastewater, but can include actions that are not allowed under the General Order, such as accepting non-dairy waste for disposal at a dairy.

A written report shall be submitted to the Central Valley Regional Water Quality Control Board (Central Valley Water Board) office **within two weeks** of the Discharger becoming aware of the significant event. The report shall contain a description of the noncompliance, its causes, duration, and the actual or anticipated time for achieving compliance. The report shall include complete details of the steps that the Discharger has taken or intends to take, in order to prevent recurrence. All intentional or accidental spills shall be reported as required by this provision.

Properly completing the following form will satisfy the requirement for the written report.

Item on page MRP-10	Description of Item	Response
1.	Date and time the noncompliance started, and location of the noncompliance (a map may be used to show the location)	4/13/2023
	Was there a discharge of solid manure or process wastewater to surface water as a result of the noncompliance?	No
	If the noncompliance included a discharge to surface water, what was the ultimate destination of the discharge and the flow path of the discharge to the nearest water body? (a map may be used to show the flow path)	None

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Item on page MRP-10	Description of Item	Response
2.	A description of the noncompliance (what happened) and why it happened Wastewater / sludge was flooded onto 6 acres of dairy ground along the east side of the lagoon system to avoid lagoon failure.	Due to historic flooding and road closures around the dairy there was nowhere else to go with sludge.
3. If there was a discharge, what was the:	Flow rate of the discharge?	Est. 700 gallons per minute
	Total volume of waste discharged?	Est. 1,000,000 gallons
	How long did the discharge last?	24 hours
4. If there was a discharge, what was the:	Amount of rain (in inches) the day of the discharge	0

If there was a discharge, complete the following table for the amount of rain on each of the 7 days before the discharge: NA

	Day before the discharge	2 days before the discharge	3 days before the discharge	4 days before the discharge	5 days before the discharge	6 days before the discharge	7 days before the discharge
Date							
Rainfall (inches)							

Item on page MRP-10	Description of Item	Response
5. If there was a discharge:	How many samples were collected of the noncompliance discharge and/or surface water?	

Complete the attached Table (Summary of Information on Samples) for the samples you collected.

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Note: Copies of the results of the laboratory analyses that you receive from the laboratory shall be submitted to the Central Valley Water Board office within 45 days of the discharge.

Item on page MRP-10	Description of Item	Response
6.	How long did the noncompliance last? (give dates and times) Note that the total period of noncompliance can be longer than any associated discharge, depending on what happened.	
	Has the noncompliance been corrected as of the date of this report?	No
	If the noncompliance has not been corrected, how much longer will it continue?	This area should be dry in July at which time it will be scraped and hauled away.

Attach a plan for actions that you will take to prevent this problem from happening in the future. Include a time schedule for implementing the plan. As this was an act of God, there are no plans to avoid this in the future.

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.

Tom Vander Dussen.

Signature of owner or operator of the facility

Tom Vander Dussen

Print or type name

Partner 5/22/2023

Title and Date

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Area where sludge was pumped

LEGEND
- FLOW LINE
- DRAIN LINE
- FLUSH LINE
- DRAIN BOX
- FLUSH VALE
- PUMP

N

1 300
0 0

HARTMAN ENGINEERING

H

YOKUM DAIRY
PRODUCTION AREA MAP

EXHIBIT B

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Yokum/Double L Dairy

FORM FOR
PRIORITY REPORTING OF SIGNIFICANT EVENTS
UNDER
WASTE DISCHARGE REQUIREMENTS GENERAL ORDER NO. R5-2013-0122
FOR
EXISTING MILK COW DAIRIES

A **significant event** is any noncompliance with Waste Discharge Requirements General Order No. R5-2010-0130 (General Order) that endangers human health or the environment, or any noncompliance with Prohibitions A1, A2, A3, A4, A5, A8, A9, A10, A11, or A12 of the General Order. **Discharge** means the release of waste, such as solid manure or process wastewater, to land, surface water, or groundwater. Most noncompliance will be from off- property discharge of solid manure or process wastewater into surface water, or on-property discharge of solid manure or process wastewater in a way not allowed under the General Order, such as the flooding of cropland with process wastewater.

Noncompliance does not have to include an off-property or improper on-property discharge of solid manure or process wastewater, but can include actions that are not allowed under the General Order, such as accepting non-dairy waste for disposal at a dairy.

A written report shall be submitted to the Central Valley Regional Water Quality Control Board (Central Valley Water Board) office **within two weeks** of the Discharger becoming aware of the significant event. The report shall contain a description of the noncompliance, its causes, duration, and the actual or anticipated time for achieving compliance. The report shall include complete details of the steps that the Discharger has taken or intends to take, in order to prevent recurrence. All intentional or accidental spills shall be reported as required by this provision.

Properly completing the following form will satisfy the requirement for the written report.

Item on page MRP-10	Description of Item	Response
1.	Date and time the noncompliance started, and location of the noncompliance (a map may be used to show the location)	4/29/2023 (pm)
	Was there a discharge of solid manure or process wastewater to surface water as a result of the noncompliance?	No
	If the noncompliance included a discharge to surface water, what was the ultimate destination of the discharge and the flow path of the discharge to the nearest water body? (a map may be used to show the flow path)	None

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Item on page MRP-10	Description of Item	Response
2.	A description of the noncompliance (what happened) and why it happened A pump failure caused the digester to overflow into an on-site borrow pit.	Pit has been pumped out and wastewater was applied to crops.
3. If there was a discharge, what was the:	Flow rate of the discharge?	Est. 120,000 gallons per day
	Total volume of waste discharged?	Est. 360,000 gallons
	How long did the discharge last?	3 days
4. If there was a discharge, what was the:	Amount of rain (in inches) the day of the discharge	0

If there was a discharge, complete the following table for the amount of rain on each of the 7 days before the discharge: NA

	Day before the discharge	2 days before the discharge	3 days before the discharge	4 days before the discharge	5 days before the discharge	6 days before the discharge	7 days before the discharge
Date							
Rainfall (inches)							

Item on page MRP-10	Description of Item	Response
5. If there was a discharge:	How many samples were collected of the noncompliance discharge and/or surface water?	

Complete the attached Table (Summary of Information on Samples) for the samples you collected.

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Note: Copies of the results of the laboratory analyses that you receive from the laboratory shall be submitted to the Central Valley Water Board office within 45 days of the discharge.

Item on page MRP-10	Description of Item	Response
6.	How long did the noncompliance last? (give dates and times) Note that the total period of noncompliance can be longer than any associated discharge, depending on what happened.	5 days
	Has the noncompliance been corrected as of the date of this report?	yes
	If the noncompliance has not been corrected, how much longer will it continue?	

Attach a plan for actions that you will take to prevent this problem from happening in the future. Include a time schedule for implementing the plan. Maas energy will be submitting a plan.

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.

DocuSigned by:
Tom Vander Dussen

Signature of owner or operator of the facility

Tom Vander Dussen

Print or type name

Partner 5/22/2023

Title and Date

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Borrow Pit where Digester over flowed Into

N

1 300

0 0

LEGEND
- FLOW LINE
- DRAIN LINE
- FLUSH LINE
- DRAIN BOX
- FLUSH VALE
- PUMP

HARTMAN ENGINEERING

H

YOKUM DAIRY

PRODUCTION AREA MAP

EXHIBIT B