DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

INNOVATIVE
AG SERVICES

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

(See attached delivery confirmation)

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Annual Report

Decade Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Decade Dairy
Facility Address	3313 Avenue 256, Tulare CA 93274

Owner/Operator as of 12/31/2023

Operator Name	Eric Westra
Operator Phone	(559) 804-6809
Owner Name	Eric Westra
Owner Phone	(559) 804-6809

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).

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
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).

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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.

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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: Eric Westra 30EF30EEA12F4FF...	DocuSigned by: Eric Westra 30EF30EEA12F4FF...
Signature of Operator of Facility	Signature of Owner of Facility
Eric Westra	Eric Westra
Print Name	Print Name
6/28/2024	6/28/2024
Title and Date	Title and Date

INNOVATIVE AG SERVICES

Decade 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	2,785	2,730	Milk Freestall -	1,400	69,284.36	986,485.50	169,396.50	229,183.50	1,799,588.70
Hol Dry Cows	200	195	Flushed	1,450	2,845.46	35,587.50	4,982.25	23,487.75	50,221.08
Hol Heifers(15-24)	200	195	Dry Scrape	1,000	2,035.51	27,046.50	4,270.50	12,811.50	50,221.08
Hol Heifers (7-14)	1,100	1,072	Dry Scrape	750	10,309.72	101,732.80	17,216.32	58,692.00	129,415.86
Hol Calves (4-6)	900	877	Dry Scrape	300	3,041.00	44,814.70	12,804.20	25,608.40	20,998.89
Hol Calves (0-3)	1,200	1,170	Calves Dry Scrape	150	4,056.98	8,541.00	4,270.50	17,082.00	10,279.09
	6,385	**6,239**			**91,573.03**	**1,204,208.00**	**212,940.27**	**366,865.15**	**2,060,724.70**

* 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)**
60,563,050	834.57	315.39	564.14	4,380.00	421,033.11	159,109.00	284,604.55	2,209,667.1

* 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).

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B1

Wheat, 75 Acres Planted on 12/13/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/25/2022	Corral Solids: Main Corral	6.00	Tons	21.20	2.63	0.92	2.27	%	450		18,652	6,546	16,099	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,050				
01/06/2023	Surface Water: Tulare	4.09	Acre Inches		0.00			mg/L			0	0	0	2,081	
03/05/2023	Surface Water: Tulare	4.44	Acre Inches		0.00			mg/L			0	0	0	2,260	
05/02/2023	Surface Water: Tulare	4.38	Acre Inches		0.00			mg/L			0	0	0	2,229	
05/17/2023	Harvest	17.90	Tons	63.90	1.77	0.40	2.60	%							17,156
	Acre Inches Applied:	**12.91**						**Totals:**	**450**		**19,702**	**6,546**	**16,099**	**6,570**	**17,156**
Season Nitrogen Ratio:	1.15							**Lbs Per Acre:**			**263**	**87**	**215**	**88**	**229**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B1

Corn, 75 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)
07/02/2023	Corral Solids: Main Corral	4.00	Tons	24.00	2.67	0.71	2.25	%	300		12,176	3,229	10,260	0	
08/08/2023	Surface Water: Tulare	5.39	Acre Inches		0.00			mg/L			0	0	0	2,744	
08/23/2023	Surface Water: Tulare	6.68	Acre Inches		0.00			mg/L			0	0	0	3,400	
09/07/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			3,998	0	0	0	
09/07/2023	Surface Water: Tulare	5.46	Acre Inches		0.00			mg/L			0	0	0	2,779	
09/21/2023	Surface Water: Tulare	6.77	Acre Inches		0.00			mg/L			0	0	0	3,446	
10/05/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			3,998	0	0	0	
10/05/2023	Surface Water: Tulare	5.39	Acre Inches		0.00			mg/L			0	0	0	2,744	
10/15/2023	Surface Water: Tulare	6.34	Acre Inches		0.00			mg/L			0	0	0	3,226	
10/26/2023	Harvest	29.80	Tons	66.00	1.13	0.23	1.14	%							17,174
	Acre Inches Applied:	**36.03**						**Totals:**	**300**		**20,172**	**3,229**	**10,260**	**18,338**	**17,174**
Season Nitrogen Ratio:	1.17							**Lbs Per Acre:**			**269**	**43**	**137**	**244**	**229**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B2

Wheat, 76 Acres Planted on 12/22/2022

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)
11/25/2022	Corral Solids: Main Corral	6.00	Tons	21.20	2.63	0.92	2.27	%	456		18,900	6,633	16,313	0	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,064				
01/15/2023	Surface Water: Tulare	4.10	Acre Inches		0.00			mg/L			0	0	0	2,114	
03/14/2023	Surface Water: Tulare	4.43	Acre Inches		0.00			mg/L			0	0	0	2,285	
05/11/2023	Surface Water: Tulare	4.37	Acre Inches		0.00			mg/L			0	0	0	2,253	
05/26/2023	Harvest	18.20	Tons	56.80	1.39	0.32	1.50	%							16,611
	Acre Inches Applied:	**12.90**						**Totals:**	**456**		**19,964**	**6,633**	**16,313**	**6,652**	**16,611**
Season Nitrogen Ratio:	1.20							**Lbs Per Acre:**			**263**	**87**	**215**	**88**	**219**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B2

Corn, 76 Acres Planted on 07/25/2023

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)
07/05/2023	Corral Solids: Main Corral	3.00	Tons	24.00	2.67	0.71	2.25	%	228		9,253	2,453	7,798	0	
08/06/2023	Surface Water: Tulare	5.38	Acre Inches		0.00			mg/L			0	0	0	2,775	
08/21/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			4,052	0	0	0	
08/21/2023	Surface Water: Tulare	6.66	Acre Inches		0.00			mg/L			0	0	0	3,434	
09/05/2023	Surface Water: Tulare	5.45	Acre Inches		0.00			mg/L			0	0	0	2,810	
09/19/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			4,052	0	0	0	
09/19/2023	Surface Water: Tulare	6.74	Acre Inches		0.00			mg/L			0	0	0	3,476	
10/03/2023	Surface Water: Tulare	5.38	Acre Inches		0.00			mg/L			0	0	0	2,775	
10/13/2023	Surface Water: Tulare	6.33	Acre Inches		0.00			mg/L			0	0	0	3,264	
10/24/2023	Harvest	29.40	Tons	65.10	0.99	0.24	1.16	%							15,487
	Acre Inches Applied:	**35.94**						**Totals:**	**228**		**17,356**	**2,453**	**7,798**	**18,535**	**15,487**
Season Nitrogen Ratio:	1.12							**Lbs Per Acre:**			**228**	**32**	**103**	**244**	**204**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B4

Wheat, 55 Acres Planted on 12/13/2022

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			%			770				
01/06/2023	Surface Water: Tulare	4.88	Acre Inches		0.00			mg/L			0	0	0	1,821	
01/06/2023	Waste Water: Main Lagoon	0.92	Acre Inches		534.00	67.00	608.00	mg/L		1,374,008	6,112	767	6,959	48,643	
03/05/2023	Surface Water: Tulare	5.39	Acre Inches		0.00			mg/L			0	0	0	2,012	
03/05/2023	Waste Water: Main Lagoon	1.02	Acre Inches		534.00	67.00	608.00	mg/L		1,523,356	6,776	850	7,715	53,931	
05/02/2023	Surface Water: Tulare	5.30	Acre Inches		0.00			mg/L			0	0	0	1,978	
05/02/2023	Waste Water: Main Lagoon	1.00	Acre Inches		431.00	65.80	520.00	mg/L		1,493,486	5,362	818	6,469	58,596	
05/17/2023	Harvest	19.90	Tons	64.90	1.80	0.44	2.51	%							13,830
	Acre Inches Applied:	**18.51**						**Totals:**		**4,390,850**	**19,020**	**2,435**	**21,143**	**166,981**	**13,830**
Season Nitrogen Ratio:	1.38							**Lbs Per Acre:**			**346**	**44**	**384**	**3,036**	**251**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B4

Corn, 55 Acres Planted on 06/23/2023

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)
07/05/2023	Surface Water: Tulare	5.63	Acre Inches		0.00			mg/L			0	0	0	2,101	
07/05/2023	Waste Water: Main Lagoon	0.89	Acre Inches		437.00	60.90	396.00	mg/L		1,329,203	4,838	674	4,385	52,372	
07/20/2023	Surface Water: Tulare	7.05	Acre Inches		0.00			mg/L			0	0	0	2,631	
08/04/2023	Surface Water: Tulare	5.73	Acre Inches		0.00			mg/L			0	0	0	2,138	
08/04/2023	Waste Water: Main Lagoon	0.90	Acre Inches		437.00	60.90	396.00	mg/L		1,344,138	4,893	682	4,434	52,960	
08/18/2023	Surface Water: Tulare	7.16	Acre Inches		0.00			mg/L			0	0	0	2,672	
09/01/2023	Surface Water: Tulare	5.63	Acre Inches		0.00			mg/L			0	0	0	2,101	
09/01/2023	Waste Water: Main Lagoon	0.89	Acre Inches		437.00	60.90	396.00	mg/L		1,329,203	4,838	674	4,385	52,372	
09/11/2023	Surface Water: Tulare	6.61	Acre Inches		0.00			mg/L			0	0	0	2,467	
09/22/2023	Harvest	31.20	Tons	71.00	1.20	0.27	1.57	%							11,943
	Acre Inches Applied:	**40.49**						**Totals:**		**4,002,544**	**14,570**	**2,031**	**13,203**	**171,814**	**11,943**
Season Nitrogen Ratio:	1.22							**Lbs Per Acre:**			**265**	**37**	**240**	**3,124**	**217**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B5

Wheat, 66 Acres Planted on 12/13/2022

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			%			924				
01/08/2023	Surface Water: Tulare	4.89	Acre Inches		0.00			mg/L			0	0	0	2,190	
01/08/2023	Waste Water: Main Lagoon	0.82	Acre Inches		534.00	67.00	608.00	mg/L		1,469,591	6,537	820	7,443	52,027	
03/07/2023	Surface Water: Tulare	5.36	Acre Inches		0.00			mg/L			0	0	0	2,400	
03/07/2023	Waste Water: Main Lagoon	0.91	Acre Inches		534.00	67.00	608.00	mg/L		1,630,887	7,255	910	8,260	57,737	
05/04/2023	Surface Water: Tulare	5.28	Acre Inches		0.00			mg/L			0	0	0	2,365	
05/04/2023	Waste Water: Main Lagoon	0.90	Acre Inches		431.00	65.80	520.00	mg/L		1,612,965	5,791	884	6,987	63,283	
05/17/2023	Harvest	21.70	Tons	66.60	1.57	0.39	2.41	%							15,020
	Acre Inches Applied:	**18.16**						**Totals:**		**4,713,443**	**20,507**	**2,615**	**22,689**	**180,003**	**15,020**
Season Nitrogen Ratio:	1.37							**Lbs Per Acre:**			**311**	**40**	**344**	**2,727**	**228**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B5

Corn, 66 Acres Planted on 06/28/2023

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)
07/10/2023	Surface Water: Tulare	5.62	Acre Inches		0.00			mg/L			0	0	0	2,517	
07/10/2023	Waste Water: Main Lagoon	1.08	Acre Inches		437.00	60.90	396.00	mg/L		1,935,559	7,046	982	6,385	76,263	
07/25/2023	Surface Water: Tulare	7.00	Acre Inches		0.00			mg/L			0	0	0	3,135	
08/09/2023	Surface Water: Tulare	5.70	Acre Inches		0.00			mg/L			0	0	0	2,553	
08/09/2023	Waste Water: Main Lagoon	1.10	Acre Inches		437.00	60.90	396.00	mg/L		1,971,402	7,176	1,000	6,503	77,675	
08/23/2023	Surface Water: Tulare	7.10	Acre Inches		0.00			mg/L			0	0	0	3,180	
09/06/2023	Surface Water: Tulare	5.62	Acre Inches		0.00			mg/L			0	0	0	2,517	
09/06/2023	Waste Water: Main Lagoon	1.08	Acre Inches		437.00	60.90	396.00	mg/L		1,935,559	7,046	982	6,385	76,263	
09/16/2023	Surface Water: Tulare	6.60	Acre Inches		0.00			mg/L			0	0	0	2,956	
09/27/2023	Harvest	31.90	Tons	70.20	1.51	0.30	1.72	%							18,948
	Acre Inches Applied:	**40.90**						**Totals:**		**5,842,519**	**21,268**	**2,964**	**19,273**	**247,059**	**18,948**
Season Nitrogen Ratio:	1.12							**Lbs Per Acre:**			**322**	**45**	**292**	**3,743**	**287**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B6

Corn, 21 Acres Planted on 06/23/2023

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)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			294				
07/10/2023	Surface Water: Tulare	5.95	Acre Inches		0.00			mg/L			0	0	0	848	
07/10/2023	Waste Water: Main Lagoon	0.95	Acre Inches		437.00	60.90	396.00	mg/L		541,728	1,972	275	1,787	21,345	
07/25/2023	Surface Water: Tulare	6.98	Acre Inches		0.00			mg/L			0	0	0	995	
08/09/2023	Surface Water: Tulare	6.19	Acre Inches		0.00			mg/L			0	0	0	882	
08/09/2023	Waste Water: Main Lagoon	0.91	Acre Inches		437.00	60.90	396.00	mg/L		518,919	1,889	263	1,712	20,446	
08/20/2023	Surface Water: Tulare	6.27	Acre Inches		0.00			mg/L			0	0	0	894	
08/31/2023	Surface Water: Tulare	5.95	Acre Inches		0.00			mg/L			0	0	0	848	
08/31/2023	Waste Water: Main Lagoon	0.95	Acre Inches		437.00	60.90	396.00	mg/L		541,728	1,972	275	1,787	21,345	
09/10/2023	Surface Water: Tulare	5.80	Acre Inches		0.00			mg/L			0	0	0	827	
09/22/2023	Harvest	31.30	Tons	72.10	1.36	0.30	1.61	%							4,988
	Acre Inches Applied:	**39.95**						**Totals:**		**1,602,375**	**6,127**	**813**	**5,285**	**68,428**	**4,988**
Season Nitrogen Ratio:	1.23							**Lbs Per Acre:**			**292**	**39**	**252**	**3,258**	**238**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B7

Wheat, 32 Acres Planted on 12/13/2022

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			%			448				
01/04/2023	Surface Water: Tulare	4.73	Acre Inches		0.00			mg/L			0	0	0	1,027	
01/04/2023	Waste Water: Main Lagoon	0.79	Acre Inches		534.00	67.00	608.00	mg/L		686,461	3,053	383	3,477	24,302	
03/03/2023	Surface Water: Tulare	5.68	Acre Inches		0.00			mg/L			0	0	0	1,233	
03/03/2023	Waste Water: Main Lagoon	0.97	Acre Inches		534.00	67.00	608.00	mg/L		842,869	3,749	470	4,269	29,840	
04/30/2023	Surface Water: Tulare	5.52	Acre Inches		0.00			mg/L			0	0	0	1,199	
04/30/2023	Waste Water: Main Lagoon	0.94	Acre Inches		431.00	65.80	520.00	mg/L		816,801	2,932	448	3,538	32,047	
05/17/2023	Harvest	22.00	Tons	66.60	1.56	0.36	2.45	%							7,336
	Acre Inches Applied:	**18.63**						**Totals:**		**2,346,132**	**10,183**	**1,301**	**11,284**	**89,648**	**7,336**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**318**	**41**	**353**	**2,802**	**229**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B7

Corn, 32 Acres Planted on 06/28/2023

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)
07/08/2023	Surface Water: Tulare	5.79	Acre Inches		0.00			mg/L			0	0	0	1,257	
07/08/2023	Waste Water: Main Lagoon	1.12	Acre Inches		437.00	60.90	396.00	mg/L		973,210	3,543	494	3,210	38,345	
07/23/2023	Surface Water: Tulare	6.52	Acre Inches		0.00			mg/L			0	0	0	1,416	
08/07/2023	Surface Water: Tulare	5.96	Acre Inches		0.00			mg/L			0	0	0	1,294	
08/07/2023	Waste Water: Main Lagoon	1.15	Acre Inches		437.00	60.90	396.00	mg/L		999,278	3,637	507	3,296	39,372	
08/21/2023	Surface Water: Tulare	6.72	Acre Inches		0.00			mg/L			0	0	0	1,459	
09/04/2023	Surface Water: Tulare	5.79	Acre Inches		0.00			mg/L			0	0	0	1,257	
09/04/2023	Waste Water: Main Lagoon	1.12	Acre Inches		437.00	60.90	396.00	mg/L		973,210	3,543	494	3,210	38,345	
09/14/2023	Surface Water: Tulare	6.70	Acre Inches		0.00			mg/L			0	0	0	1,455	
09/27/2023	Harvest	30.80	Tons	71.30	1.63	0.28	1.68	%							9,221
	Acre Inches Applied:	**40.87**						**Totals:**		**2,945,698**	**10,723**	**1,494**	**9,717**	**124,202**	**9,221**
Season Nitrogen Ratio:	1.16							**Lbs Per Acre:**			**335**	**47**	**304**	**3,881**	**288**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B8

Wheat, 68 Acres Planted on 12/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			952				
01/10/2023	Surface Water: Tulare	4.90	Acre Inches		0.00			mg/L			0	0	0	2,261	
01/10/2023	Waste Water: Main Lagoon	0.82	Acre Inches		534.00	67.00	608.00	mg/L		1,514,124	6,735	845	7,668	53,604	
03/09/2023	Surface Water: Tulare	5.34	Acre Inches		0.00			mg/L			0	0	0	2,464	
03/09/2023	Waste Water: Main Lagoon	0.91	Acre Inches		534.00	67.00	608.00	mg/L		1,680,308	7,475	938	8,510	59,487	
05/01/2023	Surface Water: Tulare	5.27	Acre Inches		0.00			mg/L			0	0	0	2,432	
05/01/2023	Waste Water: Main Lagoon	0.89	Acre Inches		431.00	65.80	520.00	mg/L		1,643,378	5,900	901	7,118	64,477	
05/17/2023	Harvest	21.00	Tons	66.50	1.62	0.36	2.44	%							15,499
	Acre Inches Applied:	**18.13**						**Totals:**		**4,837,810**	**21,062**	**2,684**	**23,297**	**184,725**	**15,499**
Season Nitrogen Ratio:	1.36							**Lbs Per Acre:**			**310**	**39**	**343**	**2,717**	**228**

INNOVATIVE AG SERVICES

Decade Dairy 2023
Nutrient Applications (Attachment B)

Field Name: B8

Corn, 68 Acres Planted on 06/23/2023

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)
07/09/2023	Surface Water: Tulare	5.61	Acre Inches		0.00			mg/L			0	0	0	2,589	
07/09/2023	Waste Water: Main Lagoon	0.98	Acre Inches		437.00	60.90	396.00	mg/L		1,809,563	6,587	918	5,969	71,299	
07/24/2023	Surface Water: Tulare	6.98	Acre Inches		0.00			mg/L			0	0	0	3,221	
08/08/2023	Surface Water: Tulare	5.69	Acre Inches		0.00			mg/L			0	0	0	2,625	
08/08/2023	Waste Water: Main Lagoon	0.91	Acre Inches		437.00	60.90	396.00	mg/L		1,680,308	6,117	853	5,543	66,205	
08/20/2023	Surface Water: Tulare	7.07	Acre Inches		0.00			mg/L			0	0	0	3,263	
08/31/2023	Surface Water: Tulare	5.61	Acre Inches		0.00			mg/L			0	0	0	2,589	
08/31/2023	Waste Water: Main Lagoon	0.98	Acre Inches		437.00	60.90	396.00	mg/L		1,809,563	6,587	918	5,969	71,299	
09/09/2023	Surface Water: Tulare	6.60	Acre Inches		0.00			mg/L			0	0	0	3,046	
09/22/2023	Harvest	30.95	Tons	71.70	1.30	0.28	1.65	%							15,486
	Acre Inches Applied:	**40.43**						**Totals:**		**5,299,433**	**19,291**	**2,689**	**17,481**	**226,135**	**15,486**
Season Nitrogen Ratio:	1.25							**Lbs Per Acre:**			**284**	**40**	**257**	**3,326**	**228**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B9

Wheat, 94 Acres Planted on 12/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			1,316				
01/02/2023	Surface Water: Tulare	4.94	Acre Inches		0.00			mg/L			0	0	0	3,151	
01/02/2023	Waste Water: Main Lagoon	0.83	Acre Inches		534.00	67.00	608.00	mg/L		2,118,578	9,424	1,183	10,730	75,003	
03/01/2023	Surface Water: Tulare	5.26	Acre Inches		0.00			mg/L			0	0	0	3,355	
03/01/2023	Waste Water: Main Lagoon	0.89	Acre Inches		534.00	67.00	608.00	mg/L		2,271,729	10,105	1,268	11,506	80,425	
04/28/2023	Surface Water: Tulare	5.21	Acre Inches		0.00			mg/L			0	0	0	3,323	
04/28/2023	Waste Water: Main Lagoon	0.88	Acre Inches		431.00	65.80	520.00	mg/L		2,246,204	8,064	1,231	9,730	88,128	
05/17/2023	Harvest	22.10	Tons	67.20	1.52	0.37	2.66	%							20,714
	Acre Inches Applied:	**18.01**						**Totals:**		**6,636,511**	**28,909**	**3,682**	**31,966**	**253,384**	**20,714**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**308**	**39**	**340**	**2,696**	**220**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B9

Corn, 94 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)
07/03/2023	Surface Water: Tulare	5.57	Acre Inches		0.00			mg/L			0	0	0	3,553	
07/03/2023	Waste Water: Main Lagoon	0.97	Acre Inches		437.00	60.90	396.00	mg/L		2,475,929	9,013	1,256	8,168	97,554	
07/18/2023	Surface Water: Tulare	6.85	Acre Inches		0.00			mg/L			0	0	0	4,369	
08/02/2023	Surface Water: Tulare	5.62	Acre Inches		0.00			mg/L			0	0	0	3,585	
08/02/2023	Waste Water: Main Lagoon	0.98	Acre Inches		437.00	60.90	396.00	mg/L		2,501,454	9,106	1,269	8,251	98,560	
08/16/2023	Surface Water: Tulare	6.91	Acre Inches		0.00			mg/L			0	0	0	4,408	
08/30/2023	Surface Water: Tulare	5.57	Acre Inches		0.00			mg/L			0	0	0	3,553	
08/30/2023	Waste Water: Main Lagoon	0.97	Acre Inches		437.00	60.90	396.00	mg/L		2,475,929	9,013	1,256	8,168	97,554	
09/09/2023	Surface Water: Tulare	6.57	Acre Inches		0.00			mg/L			0	0	0	4,191	
09/20/2023	Harvest	31.00	Tons	72.50	1.39	0.35	2.03	%							22,277
	Acre Inches Applied:	**40.01**						**Totals:**		**7,453,312**	**27,131**	**3,781**	**24,587**	**317,327**	**22,277**
Season Nitrogen Ratio:	1.22							**Lbs Per Acre:**			**289**	**40**	**262**	**3,376**	**237**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B10

Corn, 120 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			%			1,680				
05/14/2023	Surface Water: Tulare	5.54	Acre Inches		0.00			mg/L			0	0	0	4,511	
05/14/2023	Waste Water: Main Lagoon	1.07	Acre Inches		431.00	65.80	520.00	mg/L		3,486,612	12,517	1,912	15,103	136,795	
05/29/2023	Surface Water: Tulare	6.77	Acre Inches		0.00			mg/L			0	0	0	5,513	
06/13/2023	Surface Water: Tulare	5.59	Acre Inches		0.00			mg/L			0	0	0	4,552	
06/13/2023	Waste Water: Main Lagoon	1.08	Acre Inches		431.00	65.80	520.00	mg/L		3,519,197	12,635	1,928	15,244	138,073	
06/27/2023	Surface Water: Tulare	6.83	Acre Inches		0.00			mg/L			0	0	0	5,562	
07/11/2023	Surface Water: Tulare	5.54	Acre Inches		0.00			mg/L			0	0	0	4,511	
07/11/2023	Waste Water: Main Lagoon	1.07	Acre Inches		437.00	60.90	396.00	mg/L		3,486,612	12,692	1,769	11,501	137,376	
07/21/2023	Surface Water: Tulare	6.55	Acre Inches		0.00			mg/L			0	0	0	5,334	
08/01/2023	Harvest	31.08	Tons	58.80	1.56	0.31	1.54	%							47,941
	Acre Inches Applied:	**40.04**						**Totals:**		**10,492,422**	**39,524**	**5,609**	**41,848**	**442,226**	**47,941**
Season Nitrogen Ratio:	0.82							**Lbs Per Acre:**			**329**	**47**	**349**	**3,685**	**400**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Nutrient Applications (Attachment B)

Field Name: B11

Almonds, 160 Acres Planted on 11/01/2017

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)
11/12/2022	Surface Water: Tulare	3.29	Acre Inches		0.00			mg/L			0	0	0	3,573	
12/17/2022	Fertilize (10-34-0)	10.00	Pounds		10.00	34.00	0.00	%			160	544	0	0	
12/17/2022	Surface Water: Tulare	3.27	Acre Inches		0.00			mg/L			0	0	0	3,550	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			2,240				
01/21/2023	Surface Water: Tulare	3.21	Acre Inches		0.00			mg/L			0	0	0	3,485	
02/18/2023	Surface Water: Tulare	3.29	Acre Inches		0.00			mg/L			0	0	0	3,573	
03/17/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			4,266	0	0	0	
03/17/2023	Surface Water: Tulare	3.27	Acre Inches		0.00			mg/L			0	0	0	3,550	
04/14/2023	Surface Water: Tulare	3.25	Acre Inches		0.00			mg/L			0	0	0	3,528	
05/09/2023	Fertilize - UN32	10.00	Gallons		32.00	0.00	0.00	%			4,266	0	0	0	
05/09/2023	Surface Water: Tulare	3.33	Acre Inches		0.00			mg/L			0	0	0	3,616	
06/03/2023	Surface Water: Tulare	3.35	Acre Inches		0.00			mg/L			0	0	0	3,637	
06/28/2023	Surface Water: Tulare	3.29	Acre Inches		0.00			mg/L			0	0	0	3,573	
07/23/2023	Surface Water: Tulare	3.15	Acre Inches		0.00			mg/L			0	0	0	3,421	
08/17/2023	Surface Water: Tulare	3.27	Acre Inches		0.00			mg/L			0	0	0	3,550	
09/13/2023	Harvest	2.74	Tons	16.80	1.26	0.25	1.53	%							9,192
	Acre Inches Applied:	**35.97**						**Totals:**			**10,931**	**544**	**0**	**39,056**	**9,192**
Season Nitrogen Ratio:	1.19							**Lbs Per Acre:**			**68**	**3**	**0**	**244**	**57**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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	58,980.69	18,861.31	50,469.75	0.00	1,434.00	tons
Process Wastewater	231,931.25	32,097.76	241,771.79	2,323,346.72	60,563,049.92	gallons
Irrigation Water	0.00					
Fertilizer / Total Imports	24,790.82					
Atmospheric Deposition	10,738.00					
Total Nitrogen Applied	**326,440.76**					
Crop Nitrogen Removal	278,824.99					
Nitrogen Balance	**47,615.77**					
Nitrogen Ratio	**1.17**					

- **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.**

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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.

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
B1	x147 x030 x016 xxxx	75	Manure
B2	x147 x030 x016 xxxx	76	Manure
B4	x147 x010 x014 xxxx, x147 x010 x017 xxxx	55	Process Wastewater
B5	x147 x010 x018 xxxx	66	Process Wastewater
B6	x147 x010 x015 xxxx, x147 x010 x016 xxxx	21	Process Wastewater
B7	x147 x010 x002 xxxx, x147 x010 x015 xxxx, x147 x010 x016 xxxx	32	Process Wastewater
B8	x147 x010 x010 xxxx, x147 x010 x011 xxxx	68	Process Wastewater
B9	x147 x010 x002 xxxx, x147 x010 x010 xxxx, x147 x010 x015 xxxx	94	Process Wastewater
B10	x147 x010 x002 xxxx, x147 x010 x010 xxxx	120	Process Wastewater
B11	x147 x010 x007 xxxx, x147 x010 x009 xxxx	160	None
		767	

Production Area APN(s): x147 x010 x002 xxxx, x147 x010 x010 xxxx, x147 x010 x011 xxxx, x147 x010 x015 xxxx, x147 x010 x018 xxxx

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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
02/14/2023	534.00	67.00	608.00	6,400	311.00		4,250.00								
03/17/2023	581.00	124.00	574.00	7,030	455.00		4,670.00								
06/19/2023	431.00	65.80	520.00	7,090	417.00	0.00	4,710.00	7.62							
07/12/2023	437.00	60.90	396.00	7,120	370.00		4,730.00								
07/28/2023	498.00	66.10	339.00	6,770	467.00		4,500.00								
09/22/2023	3,010.00	1,770.00	1,000.00	5,690	461.00		3,780.00								
11/06/2023	351.00	53.90	512.00	6,060	73.60		4,020.00								
Averages:	834.57	315.39	564.14	6,594	364.94	0.00	4,380.00	7.62							

Manure - Compost Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/12/2023	2.01	0.20	0.29	24.40						%
Averages:	2.01	0.20	0.29	24.40						

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/12/2023	2.67	0.71	2.25	24.00						%
11/06/2023	2.91	0.62	1.15	48.00						%

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023
Lab Results Summary (Attachment E)

Averages:	2.79	0.66	1.70	36.00

Plant Tissue
(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
B1	1	Wheat	05/17/2023	35.40	8.10	52.00	63.90	9.46
B1	2	Corn	10/26/2023	22.60	4.58	22.80	66.00	10.40
B2	1	Wheat	05/26/2023	27.80	6.34	30.00	56.80	8.85
B2	2	Corn	10/24/2023	19.86	4.78	23.20	65.10	5.54
B4	1	Wheat	05/17/2023	36.00	8.88	50.20	64.90	9.01
B4	2	Corn	09/22/2023	24.00	5.38	31.40	71.00	6.58
B5	1	Wheat	05/17/2023	31.40	7.80	48.20	66.60	8.10
B5	2	Corn	09/27/2023	30.20	5.96	34.40	70.20	5.45
B6	1	Corn	09/22/2023	27.20	5.96	32.20	72.10	6.81
B7	1	Wheat	05/17/2023	31.20	7.20	49.00	66.60	8.26
B7	2	Corn	09/27/2023	32.60	5.64	33.60	71.30	5.29
B8	1	Wheat	05/17/2023	32.40	7.24	48.80	66.50	8.08
B8	2	Corn	09/22/2023	26.00	5.64	33.00	71.70	6.62
B9	1	Wheat	05/17/2023	30.40	7.32	53.20	67.20	8.69
B9	2	Corn	09/20/2023	27.80	7.02	40.60	72.50	8.26
B10	1	Corn	08/01/2023	31.20	6.20	30.80	58.80	6.58

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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 (%)
B11	1	Almonds	09/13/2023	25.20	5.02	30.60	16.80	11.90

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														
DDW1	06/21/2023	0.00		167		100.00		2.00	0.00	37.00	40.00	20.00	2.80	6.00
	Averages:	0.00		167		100.00		2.00	0.00	37.00	40.00	20.00	2.80	6.00
Domestic														
DDW2							Out of service							
	Averages:													

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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														
B7D							Out of service.							
DC1							Did not run							
DC3							Did not run							
DC4							Did not run							
DC5							Did not run							
DC6							Did not run							
DC7							Did not run							
DC8							Did not run							
DC9							Did not run							
DC10							Did not run							
	Averages:													
Surface Water														
Tulare (General)	06/28/2023	0.00		42		30.00	0.00							
	Averages:	0.00		42		30.00	0.00							

* NH4N was non-detectable unless a value is shown

Soils

Field	Sample Date:	PO4P (ppm)

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Lab Results Summary (Attachment E)

Soils

Field	Sample Date:	PO4P (ppm)
B1	06/08/2023	33.60
B2	06/08/2023	31.60
B4	06/08/2023	95.90
B5	06/08/2023	97.50
B7	06/08/2023	61.80
B8	06/08/2023	110.00
B9	06/08/2023	90.25
B10	11/20/2023	106.25
B11	06/08/2023	20.15

INNOVATIVE AG SERVICES

Decade Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: B1								
	1	Wheat	75	12/13/2022	05/17/2023	18.0	1342.5	17.9
	2	Corn	75	07/27/2023	10/26/2023	30.0	2235.0	29.8
Field: B2								
	1	Wheat	76	12/22/2022	05/26/2023	18.0	1383.2	18.2
	2	Corn	76	07/25/2023	10/24/2023	30.0	2234.4	29.4
Field: B4								
	1	Wheat	55	12/13/2022	05/17/2023	21.8	1094.5	19.9
	2	Corn	55	06/23/2023	09/22/2023	32.0	1716.0	31.2
Field: B5								
	1	Wheat	66	12/13/2022	05/17/2023	21.8	1432.2	21.7
	2	Corn	66	06/28/2023	09/27/2023	31.4	2105.4	31.9
Field: B6								
	1	Corn	21	06/23/2023	09/22/2023	30.7	657.3	31.3
Field: B7								
	1	Wheat	32	12/13/2022	05/17/2023	21.4	704.0	22.0
	2	Corn	32	06/28/2023	09/27/2023	31.2	985.6	30.8
Field: B8								
	1	Wheat	68	12/14/2022	05/17/2023	21.7	1428.0	21.0
	2	Corn	68	06/23/2023	09/22/2023	31.4	2104.6	31.0
Field: B9								
	1	Wheat	94	12/14/2022	05/17/2023	22.4	2077.4	22.1
	2	Corn	94	06/21/2023	09/20/2023	33.9	2914.0	31.0
Field: B10								
	1	Corn	120	05/02/2023	08/01/2023	31.4	3729.6	31.1

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade Dairy 2023

Planting and Harvest Information (Attachment F)

	Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: B11								
	1	Almonds	160	11/01/2017	09/13/2023	3.0	438.4	2.7

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

Decade 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

INNOVATIVE AG SERVICES

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

July 7, 2023

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

Lab No. : **VI 2343955**
Customer No. : **4018573**
Reference : **40899**

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
DDW1	06/21/2023	06/21/2023	VI 2343955-001	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: 2023-07-10

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

ENVIRONMENTAL FGL AGRICULTURAL
Analytical Chemists

July 7, 2023

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

Description : DDW1
Project : 0056 Decade Dairy

Lab No. : VI 2343955-001
Customer No. : 4018573
Reference : 40899
Sampled On : June 21, 2023 at 13:45
Sampled By : Henry
Received On : June 21, 2023 at 16:12
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)	60	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	05:34	amm
Bicarbonate	40	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	05:34	amm
Carbonate	20	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	05:34	amm
Hydroxide	20	10	mg/L		1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	05:34	amm
Chloride	6	1	mg/L	500[2]	1	l	06/22/2023	13:43	ldm	EPA 300.0	06/22/2023	20:26	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	J	06/22/2023	13:43	ldm	EPA 300.0	06/22/2023	20:26	ldm
Conductivity	167	1	umhos/cm	1600[2]	1		06/26/2023	16:44	amm	SM 4500-H+B	06/27/2023	05:34	amm
Sulfate Sulfur	2.80	0.17	mg/L		1		06/22/2023	13:43	ldm	EPA 300.0	06/22/2023	20:26	ldm
Solids, Total Dissolved (TDS)	100	20	mg/L	1000[2]	1		06/23/2023	12:40	ctl	SM 2540 C	06/26/2023	11:45	ctl
Calcium	2	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:01	ac
Magnesium	ND	1	mg/L		1	Jl	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:01	ac
Potassium	ND	1	mg/L		1	J	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:01	ac
Sodium	37	1	mg/L		1	l	06/26/2023	02:01	ejc	EPA 200.7	06/26/2023	16:01	ac

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

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

July 7, 2023
Innovative Ag Services, LLC

Lab No. : VI 2343955
Customer No. : 4018573

Quality Control - Metals

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

Definition

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

Explanation

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

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

July 7, 2023
Innovative Ag Services, LLC

Lab No. : VI 2343955
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO3)	2320B	06/26/2023:207047AMM	ND	mg/L		0.8%	10	435
Bicarbonate	2320B	(VI 2343954-002)	Dup	mg/L		1%	10	
E. C.	2320B	(VI 2343954-002)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	06/23/2023:206926CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	98.8%	90-110	
		(SP 2310601-001)	Dup	mg/L		1.33%	5	
		(SP 2310601-001)	Dup	mg/L		1.20%	5	
Chloride	300.0	06/22/2023:206935LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101 %	90-110	
			MS	mg/L	50.00	86.0 %	85-121	
		(VI 2343952-033)	MSD	mg/L	50.00	83.4 %	85-121	435
			MSRPD	mg/L	10.00	1.3%	≤19	
			MS	mg/L	50.00	92.9 %	85-121	
		(VI 2343952-035)	MSD	mg/L	50.00	89.7 %	85-121	
			MSRPD	mg/L	10.00	2.0%	≤19	
Nitrate Nitrogen	300.0	06/22/2023:206935LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	102 %	90-110	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2343952-033)	MSD	mg/L	40.00	99.9 %	85-119	
			MSRPD	mg/L	10.00	3.3%	≤19	
			MS	mg/L	40.00	103 %	85-119	
		(VI 2343952-035)	MSD	mg/L	40.00	99.0 %	85-119	
			MSRPD	mg/L	10.00	3.7%	≤19	
Sulfate Sulfur	300.0	06/22/2023:206935LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	100.0	103 %	82-124	
		(VI 2343952-033)	MSD	mg/L	100.0	99.4 %	82-124	
			MSRPD	mg/L	10.00	3.0%	≤23	
			MS	mg/L	100.0	102 %	82-124	
		(VI 2343952-035)	MSD	mg/L	100.0	98.4 %	82-124	
			MSRPD	mg/L	10.00	3.7%	≤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

DocuSign Envelope ID: 6115F516-E7C6-438E-B861-01BAF85B9052

2343955

Laboratory Analysis Work Order

Nº 40899

ID: #0056

SITE NAME: Decade Dairy

Billing: IAS

R01
15.3°

LABORATORY: FGL

Authorized Copy Release to:

Innnovative Ag Services LLC

(559) 587-2800

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

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

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	DDW1	Dom	W4	1:45 6/21	Henry	—		
2								
3								
4								
5								
6								
7								
8								

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

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

NOTES:

GLS 6/22/23
CDA 11934

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1st	[signature]	IAS		6/21/23
2nd	AJB	FGL	6/21/23 1555	
3rd	AJB	FGL		6/21/23 1612
4th	SRO	FGL	6/21/23 1612	
	SRO	FGL	6/21/23 1730	
	GLS	GLS	6/21/23 1730	

LABORATORY USE ONLY

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

THE PRINTER INC. - 559-992-5127