



Kiss Cattle, LLC

2023 Annual Report

<input checked="" type="checkbox"/> Report Form	<input type="checkbox"/> NA Attachment H
<input checked="" type="checkbox"/> Attachment A	<input type="checkbox"/> NA Attachment I
<input checked="" type="checkbox"/> Attachment B	<input type="checkbox"/> NA Attachment J
<input checked="" type="checkbox"/> Attachment C	<input checked="" type="checkbox"/> Manure Tracking Manifests
<input checked="" type="checkbox"/> Attachment D	<input type="checkbox"/> NA New or Revised Waste Water Agreements
<input checked="" type="checkbox"/> Attachment E	<input checked="" type="checkbox"/> Groundwater Monitoring Samples
<input checked="" type="checkbox"/> Attachment F	<input type="checkbox"/> NA Monitoring Well Report
<input checked="" type="checkbox"/> Attachment G	<input type="checkbox"/> NA Owner/Operator Change Form

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

(See attached delivery confirmation)

Annual Report

Kiss Cattle, LLC 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Kiss Cattle, LLC
Facility Address	2585 South Chateau Fresno Ave., Fresno CA 93706

Owner/Operator as of 12/31/2023

Operator Name	Gerrit Roeloffs
Operator Phone	(559) 280-8053
Owner Name	Bottasso Farms, LLC
Owner Phone	(559) 679-8802

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.
 Yes. _____ Number of discharges occurred (see Attachment H).

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10. Summary of storm water discharges from the production area

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

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:

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.

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?

No.

Yes, see attached manifests.

14. Written Agreements

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

Not applicable; no written agreements.

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).

Not Applicable.

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

16. Tabulated Nutrient Analytical Data

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

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**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

- 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

- 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.

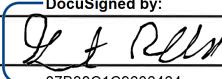
20. Mortality Management Practices

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

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"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:



Signature of Operator of Facility
87B38C1C9606464

Gerrit Roeloffs

Print Name

6/22/2024

Title and Date

DocuSigned by:



Signature of Owner of Facility
09ED6B1A09DA4E9

Bottasso Farms, LLC

Print Name

6/23/2024

Title and Date



INNOVATIVE AG SERVICES

Kiss Cattle, LLC 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	PHOSPHORUS	POTASSIUM	SALTS
						Net (LB) Available for Land Application			
Hol Calves (4-6)	3,935	3,836	Dry Scrape	300	13,301.33	196,019.60	56,005.60	112,011.20	91,849.18
Hol Calves (0-3)	3,700	3,607	Calves Dry Scrape	150	12,507.27	26,331.10	13,165.55	52,662.20	31,689.48
	7,635	7,443			25,808.60	222,350.70	69,171.15	164,673.40	123,538.66

* 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)**
3,177,053	182.75	29.95	171.38	1,685.00	4,836.45	792.62	4,535.41	44,593.28

* 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).



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 1A

Alfalfa, 39 Acres Planted on 02/28/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/20/2022	Ground Water: Well Avg	4.00	Acre Inches	3.28			mg/L			115	0	0	17,555	
11/20/2022	Waste Water: Main Lagoon	1.00	Acre Inches	123.00	22.80	102.00	mg/L		1,059,018	1,085	201	900	16,849	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00			%			546				
03/30/2023	Ground Water: Well Avg	4.43	Acre Inches	2.77			mg/L			108	0	0	24,751	
03/30/2023	Waste Water: Main Lagoon	1.00	Acre Inches	249.00	35.90	389.00	mg/L		1,059,018	2,196	317	3,432	19,055	
04/28/2023	Surface Water: Fresno I.D.	5.71	Acre Inches	0.00			mg/L			0	0	0	1,007	
05/30/2023	Surface Water: Fresno I.D.	5.43	Acre Inches	0.00			mg/L			0	0	0	958	
06/27/2023	Surface Water: Fresno I.D.	5.14	Acre Inches	0.00			mg/L			0	0	0	907	
07/27/2023	Surface Water: Fresno I.D.	5.29	Acre Inches	0.00			mg/L			0	0	0	933	
08/28/2023	Surface Water: Fresno I.D.	5.43	Acre Inches	0.00			mg/L			0	0	0	958	
09/30/2023	Surface Water: Fresno I.D.	5.71	Acre Inches	0.00			mg/L			0	0	0	1,007	
10/29/2023	Surface Water: Fresno I.D.	5.86	Acre Inches	0.00			mg/L			0	0	0	1,034	
10/29/2023	Waste Water: Main Lagoon	1.00	Acre Inches	134.00	36.10	130.00	mg/L		1,059,018	1,182	319	1,147	16,585	
12/13/2023	Harvest	10.00	Tons	8.72	2.98	0.25	1.49 %							21,217
Acre Inches Applied:		50.00		Totals:					3,177,053	5,233	837	5,478	101,599	21,217
Season Nitrogen Ratio:		0.25		Lbs Per Acre:					134	21	140	2,605		544



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 1B

Wheat, 17 Acres Planted on 11/28/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/26/2022	Corral Solids: Main Corral	8.00	Tons	59.60	1.39	0.61	2.56	%	136		1,527	672	2,813	0	
12/28/2022	Ground Water: Well Avg	5.88	Acre Inches		3.28			mg/L			74	0	0	11,249	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			238				
02/05/2023	Ground Water: Well Avg	5.59	Acre Inches		2.77			mg/L			60	0	0	13,614	
04/26/2023	Ground Water: Well Avg	5.00	Acre Inches		2.77			mg/L			53	0	0	12,177	
05/24/2023	Harvest	18.40	Tons	58.80	1.12	0.26	0.61	%							2,887
Acre Inches Applied:		16.47		Totals:					136		1,952	672	2,813	37,039	2,887
Season Nitrogen Ratio:		0.68		Lbs Per Acre:							115	40	165	2,179	170

Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 1B

Corn, 17 Acres Planted on 06/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
				% Moist.	Nitrogen	Phos.	Potass.	Units							
06/04/2023	Corral Solids: Main Corral	5.00	Tons	6.79	0.73	0.47	0.42	%	85		1,158	750	666	0	
07/05/2023	Ground Water: Well Avg	5.59	Acre Inches		2.77			mg/L			60	0	0	13,614	
07/20/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%			1,133	0	0	0	
07/20/2023	Ground Water: Well Avg	5.00	Acre Inches		2.77			mg/L			53	0	0	12,177	
08/05/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%			1,133	0	0	0	
08/05/2023	Ground Water: Well Avg	5.29	Acre Inches		2.77			mg/L			56	0	0	12,883	
08/19/2023	Ground Water: Well Avg	5.00	Acre Inches		2.77			mg/L			53	0	0	12,177	
09/03/2023	Ground Water: Well Avg	5.59	Acre Inches		2.77			mg/L			60	0	0	13,614	
09/23/2023	Ground Water: Well Avg	4.71	Acre Inches		2.77			mg/L			50	0	0	11,471	
10/23/2023	Harvest	25.00	Tons	64.50	0.98	0.21	0.95	%							2,972
Acre Inches Applied:		31.18		Totals:					85	3,756	750	666	75,935	2,972	
Season Nitrogen Ratio:		1.26		Lbs Per Acre:							221	44	39	4,467	175



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 8 Acres Planted on 11/28/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/02/2022	Corral Solids: Main Corral	8.00	Tons	59.60	1.39	0.61	2.56	%	64	719	316	1,324	0	
12/24/2022	Ground Water: Well Avg	5.66	Acre Inches		3.28			mg/L		34	0	0	5,095	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%		112				
02/10/2023	Surface Water: Fresno I.D.	5.64	Acre Inches		0.00			mg/L		0	0	0	204	
04/22/2023	Surface Water: Fresno I.D.	5.60	Acre Inches		0.00			mg/L		0	0	0	203	
05/24/2023	Harvest	18.10	Tons	57.80	1.16	0.26	0.61	%						1,418
Acre Inches Applied:		16.90		Totals:				64	864	316	1,324	5,502	1,418	
Season Nitrogen Ratio:		0.61		Lbs Per Acre:					108	40	165	688		177



Kiss Cattle, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 2

Corn, 8 Acres Planted on 06/23/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/05/2023	Corral Solids: Main Corral	5.00	Tons	6.79	0.73	0.47	0.42	%	40		545	353	313	0	
07/07/2023	Ground Water: Well Avg	5.94	Acre Inches		2.77			mg/L			30	0	0	6,808	
07/22/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			426	0	0	0	
07/22/2023	Ground Water: Well Avg	5.75	Acre Inches		2.77			mg/L			29	0	0	6,590	
08/05/2023	Fertilize - UN32	20.00	Gallons		32.00	0.00	0.00	%			426	0	0	0	
08/05/2023	Ground Water: Well Avg	5.38	Acre Inches		2.77			mg/L			27	0	0	6,166	
08/21/2023	Ground Water: Well Avg	5.75	Acre Inches		2.77			mg/L			29	0	0	6,590	
09/05/2023	Ground Water: Well Avg	5.09	Acre Inches		2.77			mg/L			26	0	0	5,833	
09/27/2023	Ground Water: Well Avg	5.50	Acre Inches		2.77			mg/L			28	0	0	6,303	
10/23/2023	Harvest	19.30	Tons	65.00	1.07	0.23	0.88	%						1,156	
Acre Inches Applied:		33.41		Totals:					40	1,565	353	313	38,290	1,156	
Season Nitrogen Ratio:		1.35		Lbs Per Acre:							196	44	39	4,786	145

Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 3

Alfalfa, 32 Acres Planted on 11/16/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/26/2022	Corral Solids: Main Corral	15.00	Tons	59.60	1.39	0.61	2.56	%	480		5,391	2,370	9,929	0	
11/20/2022	Surface Water: Fresno I.D.	4.23	Acre Inches		0.00			mg/L			0	0	0	612	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			448				
03/30/2023	Surface Water: Fresno I.D.	3.33	Acre Inches		0.00			mg/L			0	0	0	482	
05/02/2023	Surface Water: Fresno I.D.	4.24	Acre Inches		0.00			mg/L			0	0	0	614	
06/03/2023	Surface Water: Fresno I.D.	4.70	Acre Inches		0.00			mg/L			0	0	0	680	
06/30/2023	Surface Water: Fresno I.D.	5.45	Acre Inches		0.00			mg/L			0	0	0	789	
07/30/2023	Surface Water: Fresno I.D.	5.15	Acre Inches		0.00			mg/L			0	0	0	746	
08/31/2023	Surface Water: Fresno I.D.	5.00	Acre Inches		0.00			mg/L			0	0	0	724	
10/03/2023	Surface Water: Fresno I.D.	5.76	Acre Inches		0.00			mg/L			0	0	0	834	
11/02/2023	Surface Water: Fresno I.D.	5.45	Acre Inches		0.00			mg/L			0	0	0	789	
12/13/2023	Harvest	7.00	Tons	7.73	2.63	0.37	1.56	%						10,872	
Acre Inches Applied:		43.31		Totals:					480		5,839	2,370	9,929	6,270	10,872
Season Nitrogen Ratio:		0.54		Lbs Per Acre:							182	74	310	196	340

Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 4

Alfalfa, 44 Acres Planted on 11/24/2020

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/18/2022	Ground Water: Well Avg	4.22	Acre Inches	3.28		mg/L			138	0	0	20,895		
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			616					
03/28/2023	Surface Water: Fresno I.D.	6.75	Acre Inches	0.00		mg/L			0	0	0	1,344		
04/26/2023	Surface Water: Fresno I.D.	5.63	Acre Inches	0.00		mg/L			0	0	0	1,121		
05/28/2023	Surface Water: Fresno I.D.	6.00	Acre Inches	0.00		mg/L			0	0	0	1,194		
06/25/2023	Surface Water: Fresno I.D.	5.75	Acre Inches	0.00		mg/L			0	0	0	1,144		
07/25/2023	Surface Water: Fresno I.D.	6.38	Acre Inches	0.00		mg/L			0	0	0	1,270		
08/26/2023	Surface Water: Fresno I.D.	6.50	Acre Inches	0.00		mg/L			0	0	0	1,294		
09/28/2023	Surface Water: Fresno I.D.	6.00	Acre Inches	0.00		mg/L			0	0	0	1,194		
10/29/2023	Surface Water: Fresno I.D.	6.13	Acre Inches	0.00		mg/L			0	0	0	1,220		
12/13/2023	Harvest	8.25	Tons	7.88	3.19	0.25	1.48	%						21,334
Acre Inches Applied:		53.36		Totals:					754	0	0	30,676		21,334
Season Nitrogen Ratio:		0.04		Lbs Per Acre:					17	0	0	697		485



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 5

Alfalfa, 42 Acres Planted on 11/25/2021

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/18/2022	Ground Water: Well Avg	4.35	Acre Inches	3.28		mg/L			135	0	0	20,559		
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%			588					
03/27/2023	Surface Water: Fresno I.D.	5.75	Acre Inches	0.00		mg/L			0	0	0	1,092		
04/25/2023	Surface Water: Fresno I.D.	6.50	Acre Inches	0.00		mg/L			0	0	0	1,235		
05/27/2023	Surface Water: Fresno I.D.	6.13	Acre Inches	0.00		mg/L			0	0	0	1,165		
06/24/2023	Surface Water: Fresno I.D.	5.75	Acre Inches	0.00		mg/L			0	0	0	1,092		
07/24/2023	Surface Water: Fresno I.D.	6.20	Acre Inches	0.00		mg/L			0	0	0	1,178		
08/25/2023	Surface Water: Fresno I.D.	5.63	Acre Inches	0.00		mg/L			0	0	0	1,070		
09/27/2023	Surface Water: Fresno I.D.	5.75	Acre Inches	0.00		mg/L			0	0	0	1,092		
10/28/2023	Surface Water: Fresno I.D.	5.88	Acre Inches	0.00		mg/L			0	0	0	1,117		
12/13/2023	Harvest	8.35	Tons	7.82	3.15	0.23	1.42	%						20,366
Acre Inches Applied:		51.94		Totals:					723	0	0	29,602		20,366
Season Nitrogen Ratio:		0.04		Lbs Per Acre:					17	0	0	705		485



Kiss Cattle, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 7

Wheat, 16 Acres Planted on 11/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/30/2022	Corral Solids: Main Corral	9.00	Tons	59.60	1.39	0.61	2.56 %	144		1,617	711	2,979	0	
12/20/2022	Ground Water: Well Avg	5.94	Acre Inches		3.28		mg/L			70	0	0	10,695	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00		%			224				
02/08/2023	Ground Water: Well Avg	5.63	Acre Inches		2.77		mg/L			56	0	0	12,905	
04/20/2023	Ground Water: Well Avg	5.00	Acre Inches		2.77		mg/L			50	0	0	11,461	
05/30/2023	Harvest	18.00	Tons	58.90	1.28	0.24	0.63 %							3,030
Acre Inches Applied:		16.57		Totals:				144		2,018	711	2,979	35,060	3,030
Season Nitrogen Ratio:		0.67		Lbs Per Acre:						126	44	186	2,191	189

Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 7

Corn, 16 Acres Planted on 06/19/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data				Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/04/2023	Corral Solids: Main Corral	5.00	Tons	6.79	0.73	0.47	0.42	%	80	1,090	705	626	0	
06/30/2023	Ground Water: Well Avg	6.00	Acre Inches		2.77			mg/L		60	0	0	13,753	
07/12/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%		1,066	0	0	0	
07/12/2023	Ground Water: Well Avg	5.63	Acre Inches		2.77			mg/L		56	0	0	12,905	
07/28/2023	Ground Water: Well Avg	5.25	Acre Inches		2.77			mg/L		53	0	0	12,034	
08/11/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%		1,066	0	0	0	
08/11/2023	Ground Water: Well Avg	6.38	Acre Inches		2.77			mg/L		64	0	0	14,624	
08/26/2023	Ground Water: Well Avg	6.00	Acre Inches		2.77			mg/L		60	0	0	13,753	
09/11/2023	Ground Water: Well Avg	5.63	Acre Inches		2.77			mg/L		56	0	0	12,905	
10/23/2023	Harvest	24.70	Tons	63.60	1.08	0.23	0.87	%						3,107
Acre Inches Applied:		34.89		Totals:					80	3,572	705	626	79,972	3,107
Season Nitrogen Ratio:		1.15		Lbs Per Acre:					223	44	39	4,998	194	



Kiss Cattle, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 8

Wheat, 39 Acres Planted on 11/27/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
11/03/2022	Corral Solids: Main Corral	12.00	Tons	59.60	1.39	0.61	2.56	%	468		5,256	2,310	9,681	0	
12/19/2022	Ground Water: Well Avg	4.38	Acre Inches		3.28			mg/L			126	0	0	19,223	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			546				
02/11/2023	Ground Water: Well Avg	4.25	Acre Inches		2.77			mg/L			104	0	0	23,745	
04/24/2023	Ground Water: Well Avg	4.50	Acre Inches		2.77			mg/L			110	0	0	25,142	
05/24/2023	Harvest	17.40	Tons	57.20	1.08	0.23	0.60	%							6,274
Acre Inches Applied:		13.13		Totals:					468		6,142	2,310	9,681	68,109	6,274
Season Nitrogen Ratio:		0.98		Lbs Per Acre:							157	59	248	1,746	161

Field Name: 8

Corn, 39 Acres Planted on 06/20/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/01/2023	Corral Solids: Main Corral	10.00	Tons	6.79	0.73	0.47	0.42	%	390		5,315	3,439	3,054	0	
07/02/2023	Ground Water: Well Avg	4.75	Acre Inches		2.77			mg/L			116	0	0	26,538	
07/17/2023	Ground Water: Well Avg	4.63	Acre Inches		2.77			mg/L			113	0	0	25,868	
08/02/2023	Ground Water: Well Avg	5.00	Acre Inches		2.77			mg/L			122	0	0	27,935	
08/16/2023	Ground Water: Well Avg	5.13	Acre Inches		2.77			mg/L			125	0	0	28,661	
08/31/2023	Ground Water: Well Avg	5.38	Acre Inches		2.77			mg/L			131	0	0	30,058	
09/12/2023	Ground Water: Well Avg	5.63	Acre Inches		2.77			mg/L			137	0	0	31,455	
10/23/2023	Harvest	24.50	Tons	64.30	1.08	0.23	0.85	%							7,368
Acre Inches Applied:		30.52		Totals:					390		6,059	3,439	3,054	170,516	7,368
Season Nitrogen Ratio:		0.82		Lbs Per Acre:							155	88	78	4,372	189



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Field Name: 9

Wheat, 35 Acres Planted on 11/26/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/23/2022	Corral Solids: Main Corral	8.00	Tons	59.60	1.39	0.61	2.56	%	280		3,145	1,382	5,792	0	
11/01/2022	Ground Water: Well Avg	4.00	Acre Inches		3.28			mg/L			104	0	0	15,755	
12/20/2022	Ground Water: Well Avg	5.00	Acre Inches		3.28			mg/L			130	0	0	19,693	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			490				
02/12/2023	Surface Water: Fresno I.D.	4.57	Acre Inches		0.00			mg/L			0	0	0	723	
04/21/2023	Surface Water: Fresno I.D.	4.86	Acre Inches		0.00			mg/L			0	0	0	770	
05/29/2023	Harvest	17.60	Tons	51.10	0.98	0.26	0.84	%						5,904	
Acre Inches Applied:		18.43		Totals:					280		3,868	1,382	5,792	36,941	5,904
Season Nitrogen Ratio:		0.66		Lbs Per Acre:							111	40	165	1,055	169



Kiss Cattle, LLC 2023

Nutrient Applications (Attachment B)

Field Name: 9

Corn, 35 Acres Planted on 06/20/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data					Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
06/03/2023	Corral Solids: Main Corral	5.00	Tons	6.79	0.73	0.47	0.42	%	175		2,385	1,543	1,370	0	
07/02/2023	Surface Water: Fresno I.D.	5.71	Acre Inches		0.00			mg/L			0	0	0	904	
07/17/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%			2,332	0	0	0	
07/17/2023	Surface Water: Fresno I.D.	6.43	Acre Inches		0.00			mg/L			0	0	0	1,018	
08/02/2023	Surface Water: Fresno I.D.	5.57	Acre Inches		0.00			mg/L			0	0	0	882	
08/16/2023	Fertilize - UN32	25.00	Gallons		32.00	0.00	0.00	%			2,332	0	0	0	
08/16/2023	Surface Water: Fresno I.D.	5.86	Acre Inches		0.00			mg/L			0	0	0	928	
08/31/2023	Surface Water: Fresno I.D.	6.14	Acre Inches		0.00			mg/L			0	0	0	972	
09/23/2023	Surface Water: Fresno I.D.	6.00	Acre Inches		0.00			mg/L			0	0	0	950	
10/23/2023	Harvest	20.80	Tons	63.90	1.06	0.23	0.82	%						5,572	
Acre Inches Applied:		35.71		Totals:					175		7,050	1,543	1,370	5,654	5,572
Season Nitrogen Ratio:		1.27		Lbs Per Acre:							201	44	39	162	159



Kiss Cattle, LLC 2023
Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	<u>Total N (Lbs)</u>	<u>Total P (Lbs)</u>	<u>Total K (Lbs)</u>	<u>Total Salts (Lbs)</u>	<u>Total Manure Applied</u>	
Solid Manure	28,148.52	14,550.70	38,545.68	0.00	2,342.00	tons
Process Wastewater	4,463.55	836.55	5,478.33	52,488.54	3,177,053.10	gallons
Irrigation Water	3,059.98					
Fertilizer / Total Imports	9,916.00					
Atmospheric Deposition	3,808.00					
Total Nitrogen Applied	49,396.05					
Crop Nitrogen Removal	113,477.22					
Nitrogen Balance	(64,081.17)					
Nitrogen Ratio	0.44					

- 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.



Kiss Cattle, LLC 2023 Nutrient Applications (Attachment B)

FIELD NITROGEN RATIO Calculation:

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

ATMOSPHERIC 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

Kiss Cattle, LLC 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)**
5,576	83,045.45	40,471.27	125,744.30	0.00

* 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 (NO₃-N or TKN, P, K, TDS) x 10⁻⁶ using the samples closest in date to the export event.

Kiss Cattle, LLC 2023
Land Application Area Description Technical Report (Attachment D)

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1A	x327 x200 xx10 xxxx	39	Process Wastewater
1B	x327 x040 xx29 xxxx	17	Manure
2	x327 x040 xx29 xxxx	8	Manure
3	x327 x040 xx29 xxxx	32	Manure
4	x327 x040 xx29 xxxx	44	None
5	x327 x040 xx29 xxxx	42	None
7	x327 x200 xx07 xxxx	16	Manure
8	x025 x060 xx54 xxxx	39	Manure
9	x025 x060 xx61 xxxx, x025 x060 xx62 xxxx	35	Manure
		272	

Production Area APN(s): x327 x200 xx10 xxxx



Kiss Cattle, LLC 2023
Lab Results Summary (Attachment E)

Process Wastewater

(mg/l/ppm unless noted otherwise)

Sample Date:	TKN	TP	TK	EC (umhos/cm)	NH4N	NO3N	TDS	pH (units)	General Minerals						
									CA	MG	NA	HCO3	CO3	SO4	CL
03/09/2023	249.00	35.90	389.00	3,250	50.90		2,160.00								
06/16/2023	189.00	22.60	64.50	1,890	43.90	0.00	1,250.00	6.49							
07/13/2023	159.00	25.20	102.00	2,190	62.70		1,450.00								
11/09/2023	134.00	36.10	130.00	2,830	128.00		1,880.00								
Averages:	182.75	29.95	171.38	2,540	71.38	0.00	1,685.00	6.49							

Manure - Corral Solids

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/06/2023	0.73	0.47	0.42	6.79						%
11/09/2023	0.91	0.42	1.51	17.40						%
Averages:	0.82	0.45	0.96	12.10						

Plant Tissue

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1A	1	Alfalfa	12/13/2023	59.60	5.00	29.80	8.72	8.50
1B	1	Wheat	05/24/2023	22.40	5.16	12.20	58.80	7.06



Kiss Cattle, LLC 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 (%)
1B	2	Corn	10/23/2023	19.70	4.16	18.94	64.50	5.69
2	1	Wheat	05/24/2023	23.20	5.18	12.20	57.80	6.71
2	2	Corn	10/23/2023	21.40	4.54	17.58	65.00	5.08
3	1	Alfalfa	12/13/2023	52.60	7.46	31.20	7.73	9.59
4	1	Alfalfa	12/13/2023	63.80	5.08	29.60	7.88	9.04
5	1	Alfalfa	12/13/2023	63.00	4.56	28.40	7.82	8.12
7	1	Wheat	05/30/2023	25.60	4.86	12.58	58.90	7.62
7	2	Corn	10/23/2023	21.60	4.54	17.42	63.60	5.67
8	1	Wheat	05/24/2023	21.60	4.68	12.04	57.20	7.14
8	2	Corn	10/23/2023	21.60	4.54	17.06	64.30	5.17
9	1	Wheat	05/29/2023	19.60	5.28	16.70	51.10	11.00
9	2	Corn	10/23/2023	21.20	4.52	16.44	63.90	5.30

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals						
								CA	MG	NA	HCO3	CO3	SO4	CL
Domestic														



Kiss Cattle, LLC 2023
Lab Results Summary (Attachment E)

Well / Irrigation Water

(mg/l/ppm unless noted otherwise)

	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	General Minerals					
								CA	MG	NA	HCO3	CO3	SO4
Domestic													
Dom 7	06/01/2023	4.20			1,130								
Dom 9	12/08/2023	7.20			560								
Dom 1B	12/08/2023	0.00			787								
Dom Well #1	03/01/2023	8.50			858								
Dom Well #2	06/01/2023	0.00			895								
Averages:		3.98			846								
Irrigation													
IR1	12/01/2023	6.80			716	640.00	6.80						
IR2	12/01/2023	0.00			784	660.00	0.00						
IR3								Did not run.					
IR8	12/01/2023	1.50			716	600.00	1.50						
Averages:		2.77			739	633.33	2.77						
Surface Water													
Fresno I.D.	07/06/2023	0.00			33	20.00	0.00						
Averages:		0.00			33	20.00	0.00						

* NH4N was non-detectable unless a value is shown

Kiss Cattle, LLC 2023
Planting and Harvest Information (Attachment F)

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1A	1 Alfalfa	39	02/28/2021	12/13/2023	9.8	390.0	10.0
Field: 1B	1 Wheat	17	11/28/2022	05/24/2023	18.0	312.8	18.4
	2 Corn	17	06/23/2023	10/23/2023	22.6	425.0	25.0
Field: 2	1 Wheat	8	11/28/2022	05/24/2023	17.8	144.8	18.1
	2 Corn	8	06/23/2023	10/23/2023	19.8	154.4	19.3
Field: 3	1 Alfalfa	32	11/16/2022	12/13/2023	6.9	224.0	7.0
Field: 4	1 Alfalfa	44	11/24/2020	12/13/2023	8.3	363.0	8.2
Field: 5	1 Alfalfa	42	11/25/2021	12/13/2023	8.7	350.7	8.4
Field: 7	1 Wheat	16	11/14/2022	05/30/2023	17.5	288.0	18.0
	2 Corn	16	06/19/2023	10/23/2023	25.9	395.2	24.7
Field: 8	1 Wheat	39	11/27/2022	05/24/2023	16.2	678.6	17.4
	2 Corn	39	06/20/2023	10/23/2023	24.2	955.5	24.5
Field: 9	1 Wheat	35	11/26/2022	05/29/2023	16.0	616.0	17.6
	2 Corn	35	06/20/2023	10/23/2023	21.8	728.0	20.8



Kiss Cattle, LLC 2023

Weather Data (Attachment G)

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

*Note: SWP = Standing Water Present



Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Gerrit Roeloffs

Name of Dairy Facility: Kiss Cattle, LLC

Facility Address: <u>2585 South Chateau Fre</u>	<u>Fresno</u>	<u>93706</u>
Number and Street	City	Zip Code

Contact Person Name and Phone Number: <u>Gerrit Roeloffs</u>	<u>(559) 280-8053</u>
Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Larry Burrows

Address of Hauling Company /Person: <u>11751 W. Jensen Kerman</u>	<u>93630</u>	
Number and Street	City	Zip Code

Contact Person: <u>Larry Burrows</u>	<u>(559) 846-9671</u>
Name	Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):
Battasso

Name	Number and Street	City	Zip Code	Phone Number
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Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
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Dates Hauled: 6/5/2023



Innovative Ag Services, LLC
 1201 Delta View Road, Suite 5 Hanford, CA 93230
 Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 780 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 93.2% Corral Solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

Operator's Signature: Judy Benavas Date: 1-22-24
DocuSigned by:
Hauler's Signature: Lt REX Date: 6/22/2024
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Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Gerrit Roeloffs

Name of Dairy Facility: Kiss Cattle, LLC

Facility Address: <u>2585 South Chateau Fre</u>	<u>Fresno</u>	<u>93706</u>
Number and Street	City	Zip Code

Contact Person Name and Phone Number: <u>Gerrit Roeloffs</u>	<u>(559) 280-8053</u>
Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Larry Burrows

Address of Hauling Company /Person: <u>11751 W. Jensen Kerman</u>	<u>93630</u>	
Number and Street	City	Zip Code

Contact Person: <u>Larry Burrows</u>	<u>(559) 846-9671</u>
Name	Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Big D			
Name	Number and Street	City	Zip Code
			Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Polk & Central

Number and Street	City	Zip Code	Assessor's Parcel Number
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Dates Hauled: 12/13/2023



Innovative Ag Services, LLC
 1201 Delta View Road, Suite 5 Hanford, CA 93230
 Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 2500 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 82.6% Corral Solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

→ Operator's Signature: Judy Bernous Date: 1-22-24
→ Hauler's Signature: D & R Date: 6/22/2024
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Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator: Gerrit Roeloffs

Name of Dairy Facility: Kiss Cattle, LLC

Facility Address: <u>2585 South Chateau Fre</u>	<u>Fresno</u>	<u>93706</u>
Number and Street	City	Zip Code

Contact Person Name and Phone Number: <u>Gerrit Roeloffs</u>	<u>(559) 280-8053</u>
Name	Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Larry Burrows

Address of Hauling Company /Person: <u>11751 W. Jensen Kerman</u>	<u>93630</u>
Number and Street	City

Contact Person: <u>Larry Burrows</u>	<u>(559) 846-9671</u>
Name	Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

<u>Battasso</u>	<u>Name</u>	<u>Number and Street</u>	<u>City</u>	<u>Zip Code</u>	<u>Phone Number</u>
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Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

<u>Muscat & Annadale</u>	<u>Number and Street</u>	<u>City</u>	<u>Zip Code</u>	<u>Assessor's Parcel Number</u>
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Dates Hauled: 10/24/2023



Innovative Ag Services, LLC

1201 Delta View Road, Suite 5 Hanford, CA 93230

Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 1806 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 82.6% Corral Solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

Operator's Signature: Judy Beunrus Date: 1-22-24

DocuSigned by:

6/22/2024

Hauler's Signature: L & RLL Date: _____

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Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801

Manure/Process Wastewater Tracking Manifest

Instructions:

1. Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, **complete a separate form for each destination.**
3. The operator must obtain the signature of the hauler upon completion of each manure-hauling event.
4. The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

Operator Information:

Name of Operator:	<u>Gerrit Roeloffs</u>		
Name of Dairy Facility:	<u>Kiss Cattle, LLC</u>		
Facility Address:	<u>2585 South Chateau Fre</u>	<u>Fresno</u>	<u>93706</u>
	Number and Street	City	Zip Code
Contact Person Name and Phone Number:	<u>Gerrit Roeloffs</u>	<u>(559) 280-8053</u>	
	Name	Phone Number	

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person:	<u>Larry Burrows</u>		
Address of Hauling Company /Person:	<u>11751 W. Jensen Kerman</u>	<u>93630</u>	
	Number and Street	City	Zip Code
Contact Person:			
<u>Larry Burrows</u>	<u>(559) 846-9671</u>		
Name	Phone Number		

Destination Information:

Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):
 Battasso

Name	Number and Street	City	Zip Code	Phone Number
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Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street	City	Zip Code	Assessor's Parcel Number
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Dates Hauled: 10/23/2023



Innovative Ag Services, LLC
 1201 Delta View Road, Suite 5 Hanford, CA 93230
 Office (559) 587-2800 Fax (559) 587-2801

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 490 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 82.6% Corral Solids

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount.

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2013-0122) with any party that receives process wastewater from the Operator for its own use? (Please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, 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 a fine and imprisonment for knowing violations.

→ Operator's Signature: Judy BernauS Date: 1-22-24
DocuSigned by:
Hauler's Signature: L & RLS Date: 6/22/2024
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Innovative Ag Services, LLC
1201 Delta View Road, Suite 5 Hanford, CA 93230
Office (559) 587-2800 Fax (559) 587-2801



March 9, 2023

Lab No. : VI 2341267
Customer No. : 4018573
Reference : 40249

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

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom Well #1	03/01/2023	03/01/2023	VI 2341267-001	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

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: 2023-03-14



March 9, 2023

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

Description : Dom Well #1
 Project : 0622 Kiss Cattle LLC

Lab No. : VI 2341267-001
 Customer No.: 4018573
 Reference : 40249
 Sampled On : March 1, 2023 at 09:30
 Sampled By : Sean
 Received On : March 1, 2023 at 16:01
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	8.5	0.4	mg/L	10	1		03/02/2023	14:00	lfs	SM 4500-NO3 F	03/02/2023	15:14	lfs
Conductivity	858	1	umhos/cm	1600 ²	1		03/07/2023	21:02	amm	SM 4500-H+B	03/08/2023	00:57	amm

DQF Flags Definition:

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

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

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



March 9, 2023
Innovative Ag Services, LLC

Lab No. : VI 2341267
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2332250-004)	Dup	umhos/cm		0%	5	
Nitrate Nitrogen	4500NO3F	03/02/2023:202295LFS (STK2332703-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	99.2% 98.0% 98.8% 0.5%	ND 80-120 66-125 66-125 ≤30.4	<0.4

Definition

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

**Laboratory Analysis Work Order**

No 40249

ID: # 0222341267SITE NAME: KISS CATTLE LLCBilling: TAS**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**

- W1 EC, NO₃N (Dom) 201 2.6
W2 EC, NO₃N, TDS, TN (Irr)
W3 NH₄-N (Ammonium)
W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____

Plant Tissue

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

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 <u>Dom well #1</u>	<u>Dom</u>	<u>W1</u>	<u>3/1/23 9:30</u>	<u>SEAN</u>	<u>0</u>		
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 samples, please note below.

NOTES: _____

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>JAS</u>	<u>TAS</u>		<u>3/1/23 12:30</u>
2 nd	<u>EMA</u>	<u>F6L</u>	<u>3/1/23 15:45</u>	
3 rd	<u>EMA</u>	<u>F6L</u>		<u>3/1/23 16:01</u>
4 th	<u>QA</u>		<u>3/1/23 16:01</u>	

LABORATORY USE ONLYLogged In By: GASTotal Samples: 11/05Laboratory #: 73

GLS IML 3/12/23 1205



June 16, 2023

Lab No. : VI 2343451
Customer No. : 4018573
Reference : 40685

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

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 7	06/01/2023	06/01/2023	VI 2343451-001	DW
Dom Well 2	06/01/2023	06/01/2023	VI 2343451-002	DW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-06-19



June 16, 2023

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

Description : Dom 7
 Project : 0622 Kiss Cattle

Lab No. : VI 2343451-001
 Customer No.: 4018573
 Reference : 40685
 Sampled On : June 1, 2023 at 12:45
 Sampled By : Henry
 Received On : June 1, 2023 at 15:54
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	4.2	0.4	mg/L	10	1		06/02/2023	13:30	lfs	SM 4500-NO3 F	06/02/2023	14:53	lfs
Conductivity	1130	1	umhos/cm	1600 ²	1		06/06/2023	14:03	amm	SM 4500-H+B	06/06/2023	15:41	amm

DQF Flags Definition:

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

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



June 16, 2023

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

Description : Dom Well 2
 Project : 0622 Kiss Cattle

Lab No. : VI 2343451-002
 Customer No.: 4018573
 Reference : 40685
 Sampled On : June 1, 2023 at 13:00
 Sampled By : Henry
 Received On : June 1, 2023 at 15:54
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	06/02/2023	13:30	Ifs	SM 4500-NO3 F	06/02/2023	14:56	Ifs
Conductivity	895	1	umhos/cm	1600 ²	1		06/06/2023	14:03	amm	SM 4500-H+B	06/06/2023	17:43	amm

DQF Flags Definition:

U Constituent results were non-detect.

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

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

Corporate Offices & Laboratory

853 Corporation Street
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June 16, 2023

Innovative Ag Services, LLC

Lab No. : VI 2343451
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(SP 2308673-001) (STK2337117-006)	Dup Dup	umhos/cm umhos/cm		0.8% 0.7%	5 5	
Nitrate Nitrogen	4500NO3F	06/02/2023:206037LFS (VI 2343450-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 96.9% 101% 101%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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



Laboratory Analysis Work Order

Nº 40685

ID: # 0622

23436151

SITE NAME: Kiss Cattle

Billing: IAS

ANALYSIS TO BE COMPLETED:
Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom) *fel 1.3*
- W2 EC, NO₃N, TDS, TN (Irr)
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

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

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N*	pH	Temp
1	Dom 7	W1	12:45 6/1	Henry	—	—	—
2	Dom Well 2	↓	1:00 6/1	1/	—	—	—
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 samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

Signature	Company	Received Date & Time	Relinquished Date & Time
1st <i>AJB</i>	IAS	2:00 6/1/23	6/1/23
2nd <i>AJB</i>	FGL	6/1/23 1535	6/1/23 1554
3rd <i>AJB</i>	FGL	6/1/23 1554	6/1/23
4th <i>AJB</i>			

LABORATORY USE ONLY

Logged In By: *6/1*Total Samples: *183* Laboratory #: *6/1/23 1315*



December 21, 2023

Lab No. : VI 2348054
Customer No. : 4018573
Reference : 42117

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

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
IR1	12/01/2023	12/01/2023	VI 2348054-001	AGW
IR2	12/01/2023	12/01/2023	VI 2348054-002	AGW
IR8	12/01/2023	12/01/2023	VI 2348054-003	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 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: 2023-12-22

Section: Case Narrative

Page 1 of 5

Page 1 of 5

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 FAX: (559)734-8435
 CA ELAP Certification No. 2810



December 21, 2023

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

Description : IR1
 Project : 0622 Kiss Cattle

Lab No. : VI 2348054-001
 Customer No.: 4018573
 Reference : 42117
 Sampled On : December 1, 2023 at 07:50
 Sampled By : Zeke
 Received On : December 1, 2023 at 15:50
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:24	lcr
Nitrate Nitrogen	6.8	0.4	mg/L		1		12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:23	lfs
Nitrogen, Total as Nitrogen	6.8	0.5	mg/L		1		12/12/2023	08:00	sta	Calc.	12/13/2023	14:24	lcr
Nitrate + Nitrite as N	6.8	0.4	mg/L		1		12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:23	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:24	lcr
Conductivity	716	1	umhos/cm		1		12/07/2023	07:47	krh	SM 4500-H+B	12/07/2023	11:31	krh
Solids, Total Dissolved (TDS)	640	20	mg/L		1		12/04/2023	14:45	ctl	SM 2540 C	12/05/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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



December 21, 2023

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

Description : IR2
 Project : 0622 Kiss Cattle

Lab No. : VI 2348054-002
 Customer No.: 4018573
 Reference : 42117
 Sampled On : December 1, 2023 at 08:00
 Sampled By : Zeke
 Received On : December 1, 2023 at 15:50
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:26	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:25	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	Calc.	12/13/2023	14:26	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:25	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	14:26	lcr
Conductivity	784	1	umhos/cm		1		12/07/2023	07:47	krh	SM 4500-H+B	12/07/2023	11:34	krh
Solids, Total Dissolved (TDS)	660	20	mg/L		1		12/04/2023	14:45	ctl	SM 2540 C	12/05/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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



December 21, 2023

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

Description : IR8
 Project : 0622 Kiss Cattle

Lab No. : VI 2348054-003
 Customer No.: 4018573
 Reference : 42117
 Sampled On : December 1, 2023 at 08:10
 Sampled By : Zeke
 Received On : December 1, 2023 at 15:50
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	15:53	lcr
Nitrate Nitrogen	1.5	0.4	mg/L		1		12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:33	lfs
Nitrogen, Total as Nitrogen	1.5	0.5	mg/L		1		12/12/2023	08:00	sta	Calc.	12/13/2023	15:53	lcr
Nitrate + Nitrite as N	1.5	0.4	mg/L		1		12/06/2023	11:00	lfs	SM 4500-NO3 F	12/06/2023	14:33	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	12/12/2023	08:00	sta	EPA 351.2	12/13/2023	15:53	lcr
Conductivity	716	1	umhos/cm		1		12/07/2023	07:47	krh	SM 4500-H+B	12/07/2023	11:36	krh
Solids, Total Dissolved (TDS)	600	20	mg/L		1		12/04/2023	14:45	ctl	SM 2540 C	12/05/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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



December 21, 2023

Innovative Ag Services, LLC

Lab No. : VI 2348054
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348142-001)	Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2540CE	12/04/2023:213647CTL (SP 2319835-002) (SP 2319835-002)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 101% 1.66% 1.62%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	12/12/2023:213992STA (VI 2348057-001) (VI 2348057-002) (SP 2319783-001) (VI 2348053-002)	Blank LCS MS MSRD MS MSRD MSRD Blank LCS MS MSRD MS MSRD MS MSRD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 94.7% 87.5% 90.6% 3.5% 91.1% 87.2% 4.5% ND 95.8% 91.8% 90.7% 1.2% 84.4% 84.3% 0.1%	<0.5 73-124 <1/4 90-110 ≤20 90-110 <1/4 ≤20 <0.5 73-124 90-110 90-110 ≤20 <1/4 ≤20	
Nitrate + Nitrite as N	4500NO3F	12/06/2023:213768LFS (SP 2320045-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 3.0%	ND 98.2% 95.3% 98.8% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	12/06/2023:213768LFS (SP 2320045-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 3.0%	ND 98.2% 95.3% 98.8% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

**Laboratory Analysis Work Order**

Nº 42117

ID: # 062210.7°C ROT
ID# TH407

2348054

LABORATORY: F6LSITE NAME: KISS CATTLEBilling: IAS**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**W1 EC, NO₃N (Dom)W2 EC, NO₃N, TDS, TN (Irr)W3 NH₄-N (Ammonium)W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)W6 NO₃N, NO₂ (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant TissueP1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	IK1	IRR	12-1 7:50	Zake			
2	IN2	1	1 8:00	1			
3	TK8	1	1 8:10	1			
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 or the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES: 12/2/231515**CHAIN OF CUSTODY RECORDING**

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u> </u>	<u>IAS</u>		12-1-23 / 2:50
2 nd	<u> </u>	<u>F6L</u>	12-1-23 15:35	
3 rd	<u> </u>	<u>F6L</u>		12-1-23 15:58
4 th				

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory #: _____



December 21, 2023

Lab No. : VI 2348355

Customer No. : 4018573

Reference : 42145

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

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dom 9	12/08/2023	12/08/2023	VI 2348355-001	DW
Dom 1B	12/08/2023	12/08/2023	VI 2348355-002	DW

Sampling and Receipt Information:

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

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

Test Summary

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: 2023-12-22

Section: Case Narrative

Page 1 of 4

Page 1 of 4

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	CA ELAP Certification No. 1563	CA ELAP Certification No. 2670	CA ELAP Certification No. 2775	CA ELAP Certification No. 2810



December 21, 2023

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

Description : Dom 9
 Project : 0622 Kiss Cattle, LLC

Lab No. : VI 2348355-001
 Customer No.: 4018573
 Reference : 42145
 Sampled On : December 8, 2023 at 08:10
 Sampled By : Zeke
 Received On : December 8, 2023 at 15:51
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	7.2	0.4	mg/L	10	1		12/19/2023	10:00	lfs	SM 4500-NO3 F	12/19/2023	14:16	lfs
Conductivity	560	1	umhos/cm	1600 ²	1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	09:45	krh

DQF Flags Definition:

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

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



December 21, 2023

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

Description : Dom 1B
 Project : 0622 Kiss Cattle, LLC

Lab No. : VI 2348355-002
 Customer No.: 4018573
 Reference : 42145
 Sampled On : December 8, 2023 at 07:50
 Sampled By : Zeke
 Received On : December 8, 2023 at 15:51
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	14:19	lfs
Conductivity	787	1	umhos/cm	1600 ²	1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	09:48	krh

DQF Flags Definition:

U Constituent results were non-detect.

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

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

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
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Env FAX: (805)525-4172 / Ag FAX: (805)392-2063	FAX: (209)942-0423	FAX: (530)343-3807	FAX: (805)783-2912	FAX: (559)734-8435
CA ELAP Certification No. 1573	CA ELAP Certification No. 1563	CA ELAP Certification No. 2670	CA ELAP Certification No. 2775	CA ELAP Certification No. 2810



December 21, 2023

Innovative Ag Services, LLC

Lab No. : VI 2348355
 Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(SP 2320394-001)	Dup	umhos/cm		0.3%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS (STK2356868-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.6%	ND 95.6% 92.2% 93.9% ≤30.4	<0.4 80-120 66-125 66-125 ≤30.4	
	4500NO3F	12/19/2023:214315LFS (SP 2320711-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 0.0%	ND 97.6% 93.0% 93.1% 0.0%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

**Laboratory Analysis Work Order**ID: # DL2216.8°C ROI
100% THUOSITE NAME: DL57 CATTLEBilling: FAS**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**

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

Plant Tissue

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

Sample ID	Description	Analysis	Date/Time	Sampled by	LAS USE ONLY: FIELD TESTS		
					NH ₃ N*	pH	Temp
1 DOM 9	Dom	W1	12-8 / 8:10	Zake			
2 DOM 1B	Dom	W1	12-8 / 7:50	Zake			
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 samples, please note below.

NOTES: BL 12/9/23**CHAIN OF CUSTODY RECORDING**

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>Z</u>	<u>JAS</u>		12-8-23 / 2:30
2 nd	<u>AB</u>	<u>FGL</u>	12/8/23 1535	
3 rd	<u>AB</u>	<u>FGL</u>		12/8/23 1551
4 th	<u>WODS</u>	<u>FGL</u>	12-8-2023 1551	

LABORATORY USE ONLY
Rec'd: GUS 12-8-2023 1730 Total Samples: _____ Laboratory #: _____
Logged In By: _____