



# Brian James Jongsma Dairy

## 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 type="checkbox"/> X 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 type="checkbox"/> X 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

## Brian James Jongsma Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Brian James Jongsma Dairy
Facility Address	16026 Road 64, Tipton CA 93272

Owner/Operator as of 12/31/2023

Operator Name	Brian James Jongsma
Operator Phone	(559) 827-2984
Owner Name	James Jongsma
Owner Phone	(559) 260-2417

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).



**Brian James Jongsma 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:

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).



**Brian James Jongsma 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**

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.

Brian James Jongsma 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:  


Signature of Operator of Facility

DocuSigned by:  


EE7B0DA8C3FD43F...  
Signature of Owner of Facility

Brian James Jongsma

Print Name

6/17/2024

Title and Date

James Jongsma

Print Name

6/17/2024

Title and Date



INNOVATIVE AG SERVICES

**Brian James Jongsma 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	PHOSPHORUS	POTASSIUM	SALTS
						Net (LB) Available for Land Application			
Hol Milk Cows	2,020	1,969	Milk Flushed Lane	1,400	49,971.03	711,498.15	122,176.45	165,297.55	1,297,945.11
Hol Dry Cows	295	287	Flushed	1,450	4,187.94	52,377.50	7,332.85	34,569.15	73,915.13
Hol Heifers(15-24)	705	687	Flushed	1,000	7,171.27	95,286.90	15,045.30	45,135.90	176,932.73
Hol Heifers (7-14)	625	609	Flushed	750	5,856.92	57,794.10	9,780.54	33,342.75	73,520.76
	<b>3,645</b>	<b>3,552</b>			<b>67,187.16</b>	<b>916,956.65</b>	<b>154,335.14</b>	<b>278,345.35</b>	<b>1,622,313.73</b>

\* 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)**
21,797,300	368.25	63.70	395.25	2,397.50	66,863.71	11,566.10	71,766.14	435,317.69

\* 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).



**Brian James Jongsma Dairy 2023  
Nutrient Applications (Attachment B)**

Field Name: 1

Wheat, 149 Acres Planted on 11/04/2022

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)
10/03/2022	Corral Solids: Main Corral	3.50	Tons	13.10	2.76	1.00	3.59 %	522		25,016	9,064	32,539	0	
11/18/2022	Ground Water: Well Avg	4.20	Acre Inches		2.80		mg/L			396	0	0	25,479	
11/18/2022	Waste Water: Main Lagoon	1.10	Acre Inches		269.00	58.60	311.00 mg/L		4,450,590	9,973	2,172	11,530	126,421	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00		%			2,086				
01/23/2023	Ground Water: Well Avg	4.22	Acre Inches		3.70		mg/L			526	0	0	32,713	
03/27/2023	Ground Water: Well Avg	4.10	Acre Inches		3.70		mg/L			511	0	0	31,782	
05/03/2023	Harvest	19.20	Tons	56.70	1.51	0.35	1.74 %							37,409
<b>Acre Inches Applied:</b>		<b>13.62</b>		<b>Totals:</b>				<b>522</b>	<b>4,450,590</b>	<b>38,508</b>	<b>11,236</b>	<b>44,068</b>	<b>216,394</b>	<b>37,409</b>
<b>Season Nitrogen Ratio:</b>				<b>Lbs Per Acre:</b>						<b>258</b>	<b>75</b>	<b>296</b>	<b>1,452</b>	<b>251</b>



# Brian James Jongsma Dairy 2023

## Nutrient Applications (Attachment B)

Field Name: 1

Corn, 149 Acres Planted on 08/01/2023

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)	
07/15/2023	Corral Solids: Main Corral	7.00	Tons	4.17	1.56	0.49	0.25	%	1,043		31,184	9,876	5,017	0	
08/13/2023	Ground Water: Well Avg	5.63	Acre Inches		3.70			mg/L			702	0	0	43,642	
08/13/2023	Waste Water: Main Lagoon	0.50	Acre Inches		346.00	47.80	367.00	mg/L		2,022,995	5,830	806	6,185	52,408	
08/28/2023	Ground Water: Well Avg	6.72	Acre Inches		3.70			mg/L			837	0	0	52,092	
09/12/2023	Ground Water: Well Avg	5.66	Acre Inches		3.70			mg/L			706	0	0	43,875	
09/12/2023	Waste Water: Main Lagoon	0.58	Acre Inches		273.00	37.70	315.00	mg/L		2,346,675	5,337	738	6,158	47,501	
09/26/2023	Ground Water: Well Avg	6.76	Acre Inches		3.70			mg/L			843	0	0	52,402	
10/10/2023	Ground Water: Well Avg	5.63	Acre Inches		3.70			mg/L			702	0	0	43,642	
10/10/2023	Waste Water: Main Lagoon	0.48	Acre Inches		273.00	37.70	315.00	mg/L		1,942,076	4,416	609	5,096	39,311	
10/20/2023	Ground Water: Well Avg	6.50	Acre Inches		3.70			mg/L			811	0	0	50,386	
10/31/2023	Harvest	31.70	Tons	71.70	1.38	0.23	1.47	%						36,892	
<b>Acre Inches Applied:</b>		<b>38.46</b>		<b>Totals:</b>					1,043	6,311,745	51,369	12,029	22,456	425,258	36,892
<b>Season Nitrogen Ratio:</b>		<b>1.39</b>		<b>Lbs Per Acre:</b>							345	81	151	2,854	248



# Brian James Jongsma Dairy 2023

## Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 78 Acres Planted on 11/06/2022

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)	
01/01/2023	Atmospheric Deposit	14.00	Pounds	100.00		%				1,092					
01/16/2023	Ground Water: Well Avg	4.25	Acre Inches	3.70		mg/L				278	0	0	17,247		
01/16/2023	Waste Water: Main Lagoon	1.25	Acre Inches	516.00	105.00	500.00	mg/L			2,647,544	11,380	2,316	11,027	60,207	
03/24/2023	Ground Water: Well Avg	4.22	Acre Inches	3.70		mg/L				275	0	0	17,125		
03/24/2023	Waste Water: Main Lagoon	1.20	Acre Inches	516.00	105.00	500.00	mg/L			2,541,642	10,925	2,223	10,586	57,800	
05/03/2023	Harvest	19.60	Tons	54.20	1.43	0.36	1.72	%						20,026	
<b>Acre Inches Applied:</b>		<b>10.92</b>		<b>Totals:</b>						<b>5,189,187</b>	<b>23,950</b>	<b>4,539</b>	<b>21,613</b>	<b>152,378</b>	<b>20,026</b>
<b>Season Nitrogen Ratio:</b>		<b>1.20</b>		<b>Lbs Per Acre:</b>						<b>307</b>	<b>58</b>	<b>277</b>	<b>1,954</b>	<b>257</b>	

# Brian James Jongsma Dairy 2023

## Nutrient Applications (Attachment B)

Field Name: 2

Corn, 78 Acres Planted on 08/01/2023

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.								
07/15/2023	Corral Solids: Main Corral	4.00	Tons	4.17	1.56	0.49	0.25	%	312	9,329	2,954	1,501	0		
08/11/2023	Ground Water: Well Avg	5.69	Acre Inches		3.70			mg/L		371	0	0	23,090		
08/11/2023	Waste Water: Main Lagoon	0.97	Acre Inches		346.00	47.80	367.00	mg/L		2,054,494	5,922	818	6,281	53,224	
08/26/2023	Ground Water: Well Avg	6.92	Acre Inches		3.70			mg/L		452	0	0	28,081		
09/10/2023	Ground Water: Well Avg	5.76	Acre Inches		3.70			mg/L		376	0	0	23,373		
09/10/2023	Waste Water: Main Lagoon	0.99	Acre Inches		273.00	37.70	315.00	mg/L		2,096,855	4,768	658	5,502	42,444	
09/24/2023	Ground Water: Well Avg	7.00	Acre Inches		3.70			mg/L		457	0	0	28,405		
10/08/2023	Ground Water: Well Avg	5.69	Acre Inches		3.70			mg/L		371	0	0	23,090		
10/08/2023	Waste Water: Main Lagoon	0.80	Acre Inches		273.00	37.70	315.00	mg/L		1,694,428	3,853	532	4,446	34,298	
10/18/2023	Ground Water: Well Avg	6.50	Acre Inches		3.70			mg/L		424	0	0	26,376		
10/31/2023	Harvest	31.40	Tons	70.80	1.32	0.26	1.53	%						18,881	
<b>Acre Inches Applied:</b>		<b>40.32</b>		<b>Totals:</b>					312	5,845,778	26,323	4,962	17,729	282,382	<b>18,881</b>
<b>Season Nitrogen Ratio:</b>		<b>1.39</b>		<b>Lbs Per Acre:</b>						337	64	227	3,620		<b>242</b>

**Brian James Jongsma Dairy 2023  
Nutrient Applications (Attachment B)**

***Summary of Nutrient Applications, Removal, and Balance***

	<b><u>Total N (Lbs)</u></b>	<b><u>Total P (Lbs)</u></b>	<b><u>Total K (Lbs)</u></b>	<b><u>Total Salts (Lbs)</u></b>	<b><u>Total Manure Applied</u></b>
Solid Manure	65,528.62	21,893.25	39,056.17	0.00	1,876.50 tons
Process Wastewater	62,404.46	10,872.79	66,810.28	513,613.88	21,797,299.70 gallons
Irrigation Water	9,039.06				
Fertilizer / Total Imports	0.00				
Atmospheric Deposition	3,178.00				
<b>Total Nitrogen Applied</b>	<b>140,150.14</b>				
Crop Nitrogen Removal	113,208.23				
<b>Nitrogen Balance</b>	<b>26,941.91</b>				
<b>Nitrogen Ratio</b>	<b>1.24</b>				

- 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.



## Brian James Jongsma 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

**Brian James Jongsma 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)**
1,700	50,828.23	16,095.61	8,178.13	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.

**Brian James Jongsma Dairy 2023  
Land Application Area Description Technical Report (Attachment D)**

Field Name	Assessor Parcel Number(s)	Acres	Type of Waste Applied
1	x228 x270 x003 xxxx	149	Both
2	x228 x270 x003 xxxx	78	Both
			227

Production Area APN(s): x228 x030 x003 xxxx

# Brian James Jongsma Dairy 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
03/08/2023	516.00	105.00	500.00	4,110	136.00		2,730.00								
04/19/2023	338.00	64.30	399.00	1,990	215.00	0.38	1,320.00	7.16							
07/18/2023	346.00	47.80	367.00	4,690	270.00		3,110.00								
11/02/2023	273.00	37.70	315.00	3,660	204.00		2,430.00								
<b>Averages:</b>	<b>368.25</b>	<b>63.70</b>	<b>395.25</b>	<b>3,612</b>	<b>206.25</b>	<b>0.38</b>	<b>2,397.50</b>	<b>7.16</b>							

### **Manure - Corral Solids**

(Dry Weight Basis)

Sample Date:	TN	TP	TK	Moisture	Ash	CA	MG	NA	S	CL
06/14/2023	1.56	0.49	0.25	4.17						%
11/02/2023	2.61	0.54	4.87	45.80						%
<b>Averages:</b>	<b>2.08</b>	<b>0.52</b>	<b>2.56</b>	<b>24.98</b>						

### **Plant Tissue**

(Dry Weight Basis)

Field:	Crop #:	Crop	Sample Date:	TN (lbs/ton)	TP (lbs/ton)	TK (lbs/ton)	Moisture (%)	Ash (%)
1	1	Wheat	05/03/2023	30.20	7.06	34.80	56.70	8.08
1	2	Corn	10/31/2023	27.60	4.66	29.40	71.70	6.12



## Brian James Jongsma 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 (%)
2	1	Wheat	05/03/2023	28.60	7.22	34.40	54.20	8.09
2	2	Corn	10/31/2023	26.40	5.18	30.60	70.80	6.01

**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
<b>Domestic</b>													
MBD1								Out of service					
MBD2								Out of service					
MBD3	12/20/2023	0.70		253									
	<b>Averages:</b>	0.70		253									
<b>Irrigation</b>													
Well 1	10/24/2023	3.70		355		230.00	3.70						
Well 2								Did not run					
Well 3								Out of service					
	<b>Averages:</b>	3.70		355		230.00	3.70						

\* NH4N was non-detectable unless a value is shown



**Brian James Jongsma Dairy 2023  
Planting and Harvest Information (Attachment F)**

Crop #	Crop	Acres Planted	Plant Date	Harvest Date	Estimated Yield (tons)	Tons Harvested	Actual Yield
Field: 1							
	1 Wheat	149	11/04/2022	05/03/2023	18.8	2860.8	19.2
	2 Corn	149	08/01/2023	10/31/2023	31.1	4723.3	31.7
Field: 2							
	1 Wheat	78	11/06/2022	05/03/2023	19.3	1528.8	19.6
	2 Corn	78	08/01/2023	10/31/2023	30.8	2449.2	31.4



# Brian James Jongsma 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



## ATTACHMENT D

**Manure/Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

**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.

<b>Operator Information:</b>				
Name of Operator: <u>Brian Jongsma</u>				
Name of Dairy Facility: <u>Brian &amp; James Jongsma</u>				
Facility Address: <u>160216 Rd. 104</u> Number and Street		Tipton	93272	City Zip Code
Contact Person Name and Phone Number: <u>Brian Jongsma (559) 827-2984</u> Name		Phone Number		
<b>Manure/Process Wastewater Hauler Information:</b>				
Name of Hauling Company/Person: <u>Cain Tucking, Inc.</u>				
Address of Hauling Company /Person: <u>23004 Road 140</u> Number and Street		Tulare	93274	City Zip Code
Contact Person: <u>Paul Barcellos</u> Name		Phone Number <u>559-6816-5707</u>		
<b>Destination Information:</b>				
Composting Facility / Broker / Farmer / Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
<u>Cain Tucking, Inc. 23004 Road 140 Tulare 93274 6816-5707</u> Name Number and Street		City	Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
<u>7559 Ave 152 Tipton 93272</u> Number and Street		City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>4/3/2023</u>				
<b>Amount Hauled:</b>				
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: <u>1700</u> Tons or Cubic Yards (indicate which units used)				
Manure Solids Content (if amount reported in tons): <u>95.8%</u>				
Manure Density (if amount reported in cubic yards): _____				

Attachment D

Reissued Waste Discharge Requirements General Order No. R5-2013-0122  
Existing Milk Cow Dairies

D-2

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 E.3 of Reissued 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)

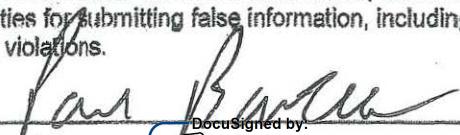
Yes       No

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.

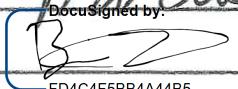
(Operator shall provide initials here to acknowledge this requirement).

**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: 

Date: 5/18/23

Hauler's Signature: 

Date: 6/17/2024

FD4C4F5BB4A44B5...



November 15, 2023

**Lab No.** : VI 2347209  
**Customer No.** : 4018573  
**Reference** : 41666

**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
Well 1	10/24/2023	10/24/2023	VI 2347209-001	AGW

### Sampling and Receipt Information:

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

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

### Test Summary

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.  
 Title: Laboratory Director  
 Date: 2023-11-15

Section: Case Narrative

Page 1 of 3

Page 1 of 3

**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 Empressa 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)734-8473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810



November 15, 2023

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

Description : Well 1  
 Project : 0200 Brian James Jongsma Dairy

Lab No. : VI 2347209-001  
 Customer No.: 4018573  
 Reference : 41666  
 Sampled On : October 24, 2023 at 13:30  
 Sampled By : Zeke  
 Received On : October 24, 2023 at 16:22  
 Matrix : Ag Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
<b>Dairy Analysis</b>													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	11/06/2023	12:41	sta	EPA 351.2	11/12/2023	17:10	lcr
Nitrate Nitrogen	3.7	0.4	mg/L		1		10/25/2023	13:15	lfs	SM 4500-NO3 F	10/25/2023	14:13	lfs
Nitrogen, Total as Nitrogen	3.7	0.5	mg/L		1		11/06/2023	12:41	sta	Calc.	11/12/2023	17:10	lcr
Nitrate + Nitrite as N	3.7	0.4	mg/L		1		10/25/2023	13:15	lfs	SM 4500-NO3 F	10/25/2023	14:13	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	11/06/2023	12:41	sta	EPA 351.2	11/12/2023	17:10	lcr
Conductivity	355	1	umhos/cm		1		11/03/2023	07:56	krh	SM 4500-H+B	11/03/2023	10:23	krh
Solids, Total Dissolved (TDS)	230	20	mg/L		1		10/25/2023	16:30	ctl	SM 2540 C	10/26/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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



November 15, 2023

**Innovative Ag Services, LLC**

Lab No. : VI 2347209

Customer No. : 4018573

**Quality Control - Wet Chem**

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2347281-001)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	10/25/2023:212078CTL (SP 2318004-001) (SP 2318004-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 102% 0.9% 0.9%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	11/06/2023:212602STA (CH 2379032-009) (CH 2379032-010)	Blank LCS MS MSDP MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 3.6% 12.00 12.00 2.8%	ND 96.0% 96.2% 92.6% 91.9% 94.5% ≤20	<0.5 73-124 90-110 90-110 90-110 90-110 ≤20	
Nitrate + Nitrite as N	4500NO3F	10/25/2023:212082LFS (SP 2317956-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 1.5%	ND 100% 96.5% 98.2% 1.5%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	10/25/2023:212082LFS (SP 2317956-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 1.5%	ND 100% 96.5% 98.2% 1.5%	<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 41666

2347709

ID: # 0200

SITE NAME: BRIAN JAMES JONES

Billing: IAS

## ANALYSIS TO BE COMPLETED:

### Irrigation/Ground Water (ELAP Standards)

W1 EC, NO<sub>3</sub>N (Dom)W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)W3 NH<sub>4</sub>-N (Ammonium)W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)

W8 Other: \_\_\_\_\_

### Plant Tissue

P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)

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

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

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: \_\_\_\_\_

### Process Waste Water (lagoon)

L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)L3 L1 + Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)

L4 Other: \_\_\_\_\_

### Manure

M1 TN, TP, TK, %M (2/year)

M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)

M3 Other: \_\_\_\_\_

### Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>SS2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TNS3 NO<sub>3</sub>N, NH<sub>4</sub>N

S4 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N*	pH	Temp
1	WSU 1	TNR	W2	10-24/1:30	Zelce		
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 &amp; 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: 201 17.2 °C

1D#THAOJ

## CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>	<u>E</u>	IAS		10-24-23 / 3:20
2 <sup>nd</sup>	<u>EMT</u>	FGL	10/24/23 16:00	
3 <sup>rd</sup>	<u>EMT</u>	FGL		10/24/23 16:22
4 <sup>th</sup>	<u>SPD</u> <u>SPD</u>	FGL GLS	10-24-23 16:22 10-24-23 17:30	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_

Total Samples: \_\_\_\_\_

Laboratory #: \_\_\_\_\_

GLS 10/25/23 11:15

JAW 10/25/23 11:15



January 2, 2024

**Lab No.** : VI 2348746  
**Customer No.** : 4018573  
**Reference** : 42227

**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
MBD3	12/20/2023	12/20/2023	VI 2348746-001	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: 2024-01-03

Section: Case Narrative

Page 1 of 3

Page 1 of 3

**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



January 2, 2024

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

Description : MBD3  
 Project : 0200 Brian James Jongsma Dairy

Lab No. : VI 2348746-001  
 Customer No. : 4018573  
 Reference : 42227  
 Sampled On : December 20, 2023 at 14:04  
 Sampled By : Frank  
 Received On : December 20, 2023 at 16:04  
 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
<b>Dairy Analysis</b>													
Nitrate Nitrogen	0.7	0.4	mg/L	10	1		12/21/2023	13:00	lfs	SM 4500-NO3 F	12/21/2023	15:42	lfs
Conductivity	253	1	umhos/cm	1600 <sup>2</sup>	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	12:25	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.



January 2, 2024  
**Innovative Ag Services, LLC**

Lab No. : VI 2348746  
 Customer No. : 4018573

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2348803-002)	Dup	umhos/cm		0.1%	5	
Nitrate Nitrogen	4500NO3F	12/21/2023:214418LFS  (CH 2390646-001)	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 101% 98.0% 98.0% ≤30.4	<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 42227

ID: # 0200

2348746

LABORATORY: FGLSITE NAME: Brian James Jorgsma DairyBilling: IAS

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

**ANALYSIS TO BE COMPLETED:****Irrigation/Ground Water (ELAP Standards)**W1 EC, NO<sub>3</sub>N (Dom)W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)W3 NH<sub>4</sub>-N (Ammonium)W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)

W8 Other: \_\_\_\_\_

Rd 75C D/H 107

**Plant Tissue**P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, K (Mid Season - Wheat)

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

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

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: \_\_\_\_\_

**Process Waste Water (lagoon)**L1 EC, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)L3 L1 + Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Biennially)

L4 Other: \_\_\_\_\_

**Manure**

M1 TN, TP, TK, %M (2/year)

M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)

M3 Other: \_\_\_\_\_

**Soil**S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>SS2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TNS3 NO<sub>3</sub>N, NH<sub>4</sub>N

S4 Other: \_\_\_\_\_

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH <sub>3</sub> N *	pH	Temp
MBD3	Dom	W1	12/20 2:04	Frank	—		
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 &amp; 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 <sup>st</sup>	<u>JL</u>	<u>IAS</u>		12/20/23 3:30
2 <sup>nd</sup>	<u>AB</u>	<u>FGL</u>	12/20/23 1532	
3 <sup>rd</sup>	<u>AB</u>	<u>FGL</u>		12/20/23 1604
4 <sup>th</sup>	<u>DH</u>		12/20/23 1604	

LABORATORY USE ONLY	Total Samples:	Laboratory #:	THE PRINTER INC. - 559-992-5127
Logged In By: <u>GJ</u>		<u>GJ</u> <u>DM</u> <u>W</u>	