INNOVATIVE AG SERVICES

JOSHUA AND JAMES JONGSMA

2023 Annual Report

X	Report Form	NA	Attachment H
X	Attachment A	NA	Attachment I
X	Attachment B	NA	Attachment J
X	Attachment C	X	Manure Tracking Manifests
X	Attachment D	NA	New or Revised Waste Water Agreements
X	Attachment E	X	Groundwater Monitoring Samples
X	Attachment F	NA	Monitoring Well Report
X	Attachment G	NA	Owner/Operator Change Form

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

(See attached delivery confirmation)

Annual Report

Joshua & James Jongsma Dairy 2023

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

Facility Information:

Name of Dairy	Joshua & James Jongsma Dairy
Facility Address	6780 Avenue 144, Tipton CA 93272

Owner/Operator as of 12/31/2023

Operator Name	Josh Jongsma
Operator Phone	(559) 471-5921
Owner Name	James and Linda Jongsma Family Trust
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:

X 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:

X No discharges occurred during the reporting period.

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

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

X No discharges occurred during the reporting period.

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

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

__ No.

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

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

__ No.

X Yes, see attached manifests.

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

X Not applicable; no written agreements.

__ No changes in agreement(s).

__ Yes, a new or revised agreement is attached.

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

X Not Applicable.

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

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

Joshua & 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

X Groundwater monitoring results are attached.

__ Monitoring Well results are attached, if applicable.

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

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

19. Storm Water Reporting Section

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

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

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

20. Mortality Management Practices

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

Joshua & 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:
Josh Jongsma
72Z7EC62D5BB4F2...
Signature of Operator of Facility

Josh Jongsma
Print Name

6/28/2024
Title and Date

DocuSigned by:
EE7B0DA8C3FD43F...
Signature of Owner of Facility

James and Linda Jongsma Family Trust
Print Name

6/28/2024
Title and Date

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Joshua & 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 Net (LB) Available for Land Application	PHOSPHORUS Net (LB) Available for Land Application	POTASSIUM Net (LB) Available for Land Application	SALTS Net (LB) Available for Land Application
Hol Milk Cows	1,485	1,447	Milk Freestall -	1,400	36,723.25	522,873.45	89,786.35	121,475.65	953,847.93
Hol Dry Cows	340	331	Milk Flushed Lane	1,450	4,829.99	60,407.50	8,457.05	39,868.95	85,247.06
Hol Heifers(15-24)	684	666	Flushed	1,000	6,952.06	92,374.20	14,585.40	43,756.20	171,524.30
Hol Heifers (7-14)	562	547	Flushed	750	5,260.65	51,910.30	8,784.82	29,948.25	66,035.89
Hol Calves (4-6)	118	115	Flushed	300	398.76	5,876.50	1,679.00	3,358.00	2,753.56
	3,189	**3,106**			**54,164.71**	**733,441.95**	**123,292.62**	**238,407.05**	**1,279,408.75**

* 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)**
32,701,923	437.75	69.92	513.25	2,590.00	119,246.17	19,048.06	139,812.90	705,534.19

* 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).

Joshua & James Jongsma Dairy 2023
Nutrient Applications (Attachment B)

Field Name: 1

Wheat, 63 Acres Planted on 11/14/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/18/2022	Ground Water: Well Avg	4.50	Acre Inches		5.72			mg/L			367	0	0	0	
10/18/2022	Waste Water: Main Lagoon	0.50	Acre Inches		319.00	63.20	466.00	mg/L		855,360	2,273	450	3,320	17,956	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			882				
02/27/2023	Ground Water: Well Avg	5.30	Acre Inches		5.72			mg/L			432	0	0	0	
02/27/2023	Waste Water: Main Lagoon	0.50	Acre Inches		319.00	63.20	466.00	mg/L		855,360	2,273	450	3,320	17,956	
04/10/2023	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			408	0	0	0	
04/10/2023	Waste Water: Main Lagoon	0.50	Acre Inches		775.00	104.00	553.00	mg/L		855,360	5,522	741	3,940	20,449	
05/23/2023	Harvest	18.40	Tons	68.97	1.27	0.27	1.48	%							9,136
	Acre Inches Applied:	**16.30**						**Totals:**		**2,566,081**	**12,156**	**1,642**	**10,580**	**56,360**	**9,136**
Season Nitrogen Ratio:	1.33							**Lbs Per Acre:**			**193**	**26**	**168**	**895**	**145**

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Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 1

Corn, 63 Acres Planted on 06/14/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/28/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
05/28/2023	Waste Water: Main Lagoon	0.50	Acre Inches		775.00	104.00	553.00	mg/L		855,360	5,522	741	3,940	20,449	
06/24/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
07/09/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
07/09/2023	Waste Water: Main Lagoon	1.00	Acre Inches		319.00	44.60	386.00	mg/L		1,710,721	4,546	636	5,501	33,061	
07/21/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
08/12/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
08/12/2023	Waste Water: Main Lagoon	1.00	Acre Inches		319.00	44.60	386.00	mg/L		1,710,721	4,546	636	5,501	33,061	
08/24/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			326	0	0	0	
09/14/2023	Harvest	28.00	Tons	83.11	2.57	0.39	2.40	%							15,314
	Acre Inches Applied:	**26.50**						**Totals:**		**4,276,802**	**16,572**	**2,012**	**14,941**	**86,570**	**15,314**
Season Nitrogen Ratio: 1.08								**Lbs Per Acre:**			**263**	**32**	**237**	**1,374**	**243**

Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 2

Wheat, 66 Acres Planted on 11/16/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/18/2022	Ground Water: Well Avg	4.50	Acre Inches		5.72			mg/L			384	0	0	0	
10/18/2022	Waste Water: Main Lagoon	0.50	Acre Inches		319.00	63.20	466.00	mg/L		896,092	2,381	472	3,478	18,811	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			924				
02/28/2023	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			427	0	0	0	
02/28/2023	Waste Water: Main Lagoon	0.60	Acre Inches		319.00	63.20	466.00	mg/L		1,075,310	2,857	566	4,174	22,573	
04/11/2023	Ground Water: Well Avg	4.80	Acre Inches		5.72			mg/L			410	0	0	0	
04/11/2023	Waste Water: Main Lagoon	0.50	Acre Inches		775.00	104.00	553.00	mg/L		896,092	5,785	776	4,128	21,423	
05/23/2023	Harvest	19.00	Tons	67.94	1.22	0.27	1.44	%							9,810
	Acre Inches Applied:	**15.90**						**Totals:**		**2,867,494**	**13,168**	**1,814**	**11,780**	**62,806**	**9,810**
Season Nitrogen Ratio:	1.34							**Lbs Per Acre:**			**200**	**27**	**178**	**952**	**149**

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Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 2

Corn, 66 Acres Planted on 06/13/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/28/2023	Ground Water: Well Avg	4.50	Acre Inches		5.72			mg/L			384	0	0	0	
05/28/2023	Waste Water: Main Lagoon	0.60	Acre Inches		775.00	104.00	553.00	mg/L		1,075,310	6,942	931	4,953	25,708	
06/29/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			342	0	0	0	
07/12/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			342	0	0	0	
07/12/2023	Waste Water: Main Lagoon	1.30	Acre Inches		319.00	44.60	386.00	mg/L		2,329,839	6,191	865	7,491	45,026	
07/24/2023	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			427	0	0	0	
08/11/2023	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			427	0	0	0	
08/11/2023	Waste Water: Main Lagoon	1.30	Acre Inches		319.00	44.60	386.00	mg/L		2,329,839	6,191	865	7,491	45,026	
08/24/2023	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			427	0	0	0	
09/14/2023	Harvest	28.50	Tons	75.93	1.82	0.33	1.87	%							16,480
	Acre Inches Applied:	**30.70**						**Totals:**		**5,734,988**	**21,672**	**2,662**	**19,935**	**115,759**	**16,480**
Season Nitrogen Ratio:	1.32							**Lbs Per Acre:**			**328**	**40**	**302**	**1,754**	**250**

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Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Wheat, 70 Acres Planted on 11/15/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/20/2022	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			453	0	0	0	
10/20/2022	Waste Water: Main Lagoon	0.50	Acre Inches		319.00	63.20	466.00	mg/L		950,400	2,526	500	3,689	19,951	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			980				
03/15/2023	Ground Water: Well Avg	5.20	Acre Inches		5.72			mg/L			471	0	0	0	
03/15/2023	Waste Water: Main Lagoon	0.60	Acre Inches		319.00	63.20	466.00	mg/L		1,140,481	3,030	601	4,427	23,941	
04/13/2023	Ground Water: Well Avg	5.30	Acre Inches		5.72			mg/L			480	0	0	0	
04/13/2023	Waste Water: Main Lagoon	0.50	Acre Inches		775.00	104.00	553.00	mg/L		950,400	6,136	823	4,378	22,721	
05/23/2023	Harvest	18.50	Tons	68.42	1.23	0.26	1.75	%							10,060
	Acre Inches Applied:	**17.10**						**Totals:**		**3,041,282**	**14,076**	**1,924**	**12,494**	**66,613**	**10,060**
Season Nitrogen Ratio:	1.40							**Lbs Per Acre:**			**201**	**27**	**178**	**952**	**144**

INNOVATIVE AG SERVICES

Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 3

Corn, 70 Acres Planted on 06/12/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/30/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
05/30/2023	Waste Water: Main Lagoon	0.65	Acre Inches		775.00	104.00	553.00	mg/L		1,235,521	7,976	1,070	5,692	29,538	
06/30/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
07/15/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
07/15/2023	Waste Water: Main Lagoon	1.20	Acre Inches		319.00	44.60	386.00	mg/L		2,280,961	6,061	848	7,334	44,081	
07/28/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
08/16/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
08/16/2023	Waste Water: Main Lagoon	1.20	Acre Inches		319.00	44.60	386.00	mg/L		2,280,961	6,061	848	7,334	44,081	
08/29/2023	Ground Water: Well Avg	4.00	Acre Inches		5.72			mg/L			363	0	0	0	
09/14/2023	Harvest	29.70	Tons	75.89	1.60	0.27	1.80	%							16,040
	Acre Inches Applied:	**27.05**						**Totals:**		**5,797,443**	**22,275**	**2,766**	**20,360**	**117,700**	**16,040**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**318**	**40**	**291**	**1,681**	**229**

INNOVATIVE AG SERVICES

Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Wheat, 62 Acres Planted on 11/15/2022

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
10/15/2022	Ground Water: Well Avg	5.00	Acre Inches		5.72			mg/L			401	0	0	0	
10/15/2022	Waste Water: Main Lagoon	0.45	Acre Inches		319.00	63.20	466.00	mg/L		757,605	2,013	399	2,941	15,904	
01/01/2023	Atmospheric Deposit	14.00	Pounds		100.00			%			868				
02/25/2023	Ground Water: Well Avg	5.25	Acre Inches		5.72			mg/L			421	0	0	0	
02/25/2023	Waste Water: Main Lagoon	0.60	Acre Inches		319.00	63.20	466.00	mg/L		1,010,140	2,684	532	3,921	21,205	
04/16/2023	Ground Water: Well Avg	5.20	Acre Inches		5.72			mg/L			417	0	0	0	
04/16/2023	Waste Water: Main Lagoon	0.50	Acre Inches		775.00	104.00	553.00	mg/L		841,783	5,434	729	3,877	20,125	
05/23/2023	Harvest	18.70	Tons	67.79	1.18	0.27	1.53	%							8,813
	Acre Inches Applied:	**17.00**						**Totals:**		**2,609,528**	**12,239**	**1,660**	**10,739**	**57,233**	**8,813**
Season Nitrogen Ratio:	1.39							**Lbs Per Acre:**			**197**	**27**	**173**	**923**	**142**

INNOVATIVE AG SERVICES

Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Field Name: 4

Corn, 62 Acres Planted on 06/13/2023

Date	Event/Source	Amount Applied/Yield (per Acre)	Units	Lab Sample Data % Moist.	Nitrogen	Phos.	Potass.	Units	Manure Applied (Tons)	Wastewater Applied (Gallons)	Nitrogen Applied (Lbs)	Phosphorus Applied (Lbs)	Potassium Applied (Lbs)	Salt Applied (Lbs)	Nitrogen Extracted (Lbs)
05/29/2023	Ground Water: Well Avg	4.20	Acre Inches		5.72			mg/L			337	0	0	0	
05/29/2023	Waste Water: Main Lagoon	0.65	Acre Inches		775.00	104.00	553.00	mg/L		1,094,318	7,065	948	5,041	26,162	
06/27/2023	Ground Water: Well Avg	4.50	Acre Inches		5.72			mg/L			361	0	0	0	
07/14/2023	Ground Water: Well Avg	4.10	Acre Inches		5.72			mg/L			329	0	0	0	
07/14/2023	Waste Water: Main Lagoon	1.40	Acre Inches		319.00	44.60	386.00	mg/L		2,356,993	6,263	875	7,579	45,550	
07/26/2023	Ground Water: Well Avg	5.20	Acre Inches		5.72			mg/L			417	0	0	0	
08/17/2023	Ground Water: Well Avg	4.30	Acre Inches		5.72			mg/L			345	0	0	0	
08/17/2023	Waste Water: Main Lagoon	1.40	Acre Inches		319.00	44.60	386.00	mg/L		2,356,993	6,263	875	7,579	45,550	
08/31/2023	Ground Water: Well Avg	4.50	Acre Inches		5.72			mg/L			361	0	0	0	
09/14/2023	Harvest	30.50	Tons	73.99	1.67	0.34	1.90	%							16,428
	Acre Inches Applied:	**30.25**						**Totals:**		**5,808,305**	**21,740**	**2,699**	**20,199**	**117,262**	**16,428**
Season Nitrogen Ratio:	1.32							**Lbs Per Acre:**			**351**	**44**	**326**	**1,891**	**265**

Joshua & James Jongsma Dairy 2023

Nutrient Applications (Attachment B)

Summary of Nutrient Applications, Removal, and Balance

	Total N (Lbs)	Total P (Lbs)	Total K (Lbs)	Total Salts (Lbs)	Total Manure Applied	
Solid Manure	0.00	0.00	0.00	0.00		tons
Process Wastewater	116,542.24	17,178.72	121,027.38	680,304.34	32,701,923.49	gallons
Irrigation Water	13,702.53					
Fertilizer / Total Imports	0.00					
Atmospheric Deposition	3,654.00					
Total Nitrogen Applied	**133,898.77**					
Crop Nitrogen Removal	102,081.10					
Nitrogen Balance	**31,817.67**					
Nitrogen Ratio	**1.31**					

- **Nutrient applications shown in Attachment B are on a crop year basis.**
- **Lab sample data results for applications are based on the sample taken closest to the application date. Lab sample data results are shown on 100% dry basis for manure applications and harvest events.**
- **Well Avg: Irrigation source representing the average nutrient values of all irrigation wells sampled for the facility during the reporting year.**

** **Book Value: No sample data results were available. For manure applications and plant tissue harvests, the calculations were based off book values.**

INNOVATIVE AG SERVICES

Joshua & 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

Joshua & 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)**
4,822	98,228.54	17,010.31	147,742.11	4,799,622.06

* The Total Manure (tons) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (N, P, K, Salts) (lbs) = Sum of (N, P, K, Salts) for each manure export event based on (Manure(tons) x 2000lb/ton) x ((100-moisture%)/100) x (N, P, K, and Ash) Concentration (%, dry weight) / 100 using the samples closest in date to the export event.

B. ESTIMATED TOTAL PROCESS WASTEWATER TRANSFERRED OFFSITE

Total Process Wastewater Exported (gal)*	Total Nitrogen Exported (lbs)**	Total Phosphorus Exported (lbs)**	Total Potassium Exported (lbs)**	Total TDS Exported (lbs)**

* The Total Manure (gals) should be calculated as the sum of all manure transferred offsite as reported in all the Manure/Process Wastewater Tracking Manifests for the reporting period.
** Total (Nitrogen, Phosphorus, Potassium, TDS) (lbs) = Sum of (Nitrogen, Phosphorus, Potassium, TDS) for each wastewater export event based on (Process Wastewater(gals) x 8.33lb/gal) x (N03-N or TKN, P, K, TDS) x 10-6 using the samples closest in date to the export event.

Joshua & 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 x260 x015 xxxx	63	Process Wastewater
2	x228 x260 x015 xxxx	66	Process Wastewater
3	x228 x260 x014 xxxx	70	Process Wastewater
4	x228 x260 x014 xxxx	62	Process Wastewater
		261	

Production Area APN(s): x228 x260 x014 xxxx, x228 x260 x015 xxxx

Joshua & James Jongsma Dairy 2023
Lab Results Summary (Attachment E)

Process Wastewater

(mgl/ppm unless noted otherwise)

									General Minerals						
Sample Date:	**TKN**	**TP**	**TK**	**EC (umhos/cm)**	**NH4N**	**NO3N**	**TDS**	**pH (units)**	**CA**	**MG**	**NA**	**HCO3**	**CO3**	**SO4**	**CL**
03/08/2023	319.00	63.20	466.00	4,720	169.00		2,520.00		159.00	77.50	152.00	1,990.00	0.00	10.10	216.00
04/25/2023	775.00	104.00	553.00	5,530	276.00		2,870.00		285.00	123.00	180.00	2,420.00	0.00	74.10	210.00
09/07/2023	319.00	44.60	386.00	4,820	241.00	0.30	2,320.00	7.60							
12/04/2023	338.00	67.90	648.00	6,220	287.00		2,650.00								
Averages:	437.75	69.92	513.25	5,322	243.25	0.30	2,590.00	7.60	222.00	100.25	166.00	2,205.00	0.00	42.10	213.00

Manure - Compost Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
12/04/2023	1.39	0.18	0.43	11.76						%
Averages:	1.39	0.18	0.43	11.76						

Manure - Separator Solids

(Dry Weight Basis)

Sample Date:	**TN**	**TP**	**TK**	**Moisture**	**Ash**	**CA**	**MG**	**NA**	**S**	**CL**
09/07/2023	2.02	0.32	0.46	79.20						%
Averages:	2.02	0.32	0.46	79.20						

INNOVATIVE AG SERVICES

Joshua & 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 (%)
1	1	Wheat	05/23/2023	25.40	5.40	29.60	68.97	6.70
1	2	Corn	12/04/2023	51.40	7.80	48.00	83.11	8.30
2	1	Wheat	05/23/2023	24.40	5.40	28.80	67.94	6.50
2	2	Corn	12/04/2023	36.40	6.60	37.40	75.93	6.50
3	1	Wheat	05/23/2023	24.60	5.20	35.00	68.42	7.90
3	2	Corn	12/04/2023	32.00	5.40	36.00	75.89	7.90
4	1	Wheat	05/23/2023	23.60	5.40	30.60	67.79	7.00
4	2	Corn	12/04/2023	33.40	6.80	38.00	73.99	6.80

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

								General Minerals						
	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Domestic														
Dom 1	09/07/2023	0.40		215										
Dom	09/07/2023	11.30		480										
	Averages:	5.85		348										

INNOVATIVE AG SERVICES

Joshua & James Jongsma Dairy 2023

Lab Results Summary (Attachment E)

Well / Irrigation Water

(mgl/ppm unless noted otherwise)

							General Minerals						
	Sample Date:	NO3N	TP	EC (umhos/cm)	NH4N *	TDS	TN	CA	MG	NA	HCO3	CO3	SO4	CL
Irrigation														
IW 1	12/12/2023	0.80		237										
IW 2	12/12/2023	6.60		885										
IW 3	12/12/2023	4.60		627										
IW 4	12/12/2023	9.50		1,150										
IW 5	12/12/2023	3.90		573										
IW 6	12/12/2023	8.90		1,110										
	Averages:	5.72		764										

* NH4N was non-detectable unless a value is shown

INNOVATIVE AG SERVICES

Joshua & 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	63	11/14/2022	05/23/2023	18.0	1159.2	18.4
	2	Corn	63	06/14/2023	09/14/2023	30.0	1764.0	28.0
Field: 2								
	1	Wheat	66	11/16/2022	05/23/2023	18.0	1254.0	19.0
	2	Corn	66	06/13/2023	09/14/2023	30.0	1881.0	28.5
Field: 3								
	1	Wheat	70	11/15/2022	05/23/2023	18.0	1295.0	18.5
	2	Corn	70	06/12/2023	09/14/2023	30.0	2079.0	29.7
Field: 4								
	1	Wheat	62	11/15/2022	05/23/2023	18.0	1159.4	18.7
	2	Corn	62	06/13/2023	09/14/2023	30.0	1891.0	30.5

Joshua & 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

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.

Operator Information:

Name of Operator: Josh Jongsma

Name of Dairy Facility: Josh & James Jongsma

Facility Address: 6780 Avenue 144 (Number and Street) Tipton, CA (City) 93272 (Zip Code)

Contact Person Name: Josh Jongsma (Name) (559) 471-5921 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Cain Trucking, Inc.

Address of Hauling Company /Person: 23004 Road 140 (Number and Street) Tulare (City) 93274 (Zip Code)

Contact Person: _____ (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):

Cain Trucking, Inc. (Name) 23004 Road 140 (Number and Street) Tulare (City) 93274 (Zip Code) _____ (Phone Number)

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

7559 Ave. 152 (Number and Street) Tipton (City) 93272 (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: July 6th, 7th, 8th, 10th, 2023 & Aug. 3rd, 2023

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 3,402.50 (Tons) or Cubic Yards (indicate which units used)
- Manure Moisture % : 88.24% DM
- 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. R5-2007-0035) 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: 11/07/2023

Hauler's Signature: DocuSigned by: Josh Jongsma 7277FC62D5BB4F2... Date: 6/28/2024

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.

Operator Information:

Name of Operator: Josh Jongsma

Name of Dairy Facility: Josh & James Jongsma

Facility Address: Ave 144 & Rd 72 (Number and Street) Tipton, CA (City) 93272 (Zip Code)

Contact Person Name: Josh Jongsma (Name) (559) 471-5921 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Cain Trucking, Inc.

Address of Hauling Company /Person: 23004 Road 140 (Number and Street) Tulare (City) 93274 (Zip Code)

Contact Person: _____ (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):

Cain Trucking, Inc. (Name) 23004 Road 140 (Number and Street) Tulare (City) 93274 (Zip Code) _____ (Phone Number)

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

7559 Ave. 152 (Number and Street) Tipton (City) 93272 (Zip Code) _____ (Assessor's Parcel Number)

Dates Hauled: 8/12/23, 9/26/23, 9/27/23

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: 1,420.00 (Tons) or Cubic Yards (indicate which units used)
- Manure Moisture % : 88.24% DM
- 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. R5-2007-0035) 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: 1/10/2024

Hauler's Signature: DocuSigned by: Josh Jongsma 7277FC62D5BB4F2... Date: 6/28/2024

DELLAVALLE™
LABORATORY INC

Josh & James Jongsma Dairy
6780 Ave 144
Tipton, CA 93256

Account# 00-0021468
Account Manager: Ben Nydam
Submitted By:

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:59

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0569-01	~~DW MB~~ Dom 1	Well Water	V. Belo		09/07/2023 11:30
23I0569-02	~~DW House~~ Dom	Well Water	V. Belo		09/07/2023 11:30

Default Cooler Temperature on Receipt °C: 3.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFarland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

DELLAVALLE™
LABORATORY INC

Josh & James Jongsma Dairy
6780 Ave 144
Tipton, CA 93256

Account# 00-0021468
Account Manager: Ben Nydam
Submitted By:

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:59

Sample Results

Sample: ~~DW MB~~ Dom 1
23I0569-01 (Water)

Sampled: 9/7/2023 11:30
Sampled By: V. Belo

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.48**	mmhos/cm	0.01	1		09/08/23 13:54	SM 2510 B		BEI0231
Electrical Conductivity umhos	**480**	umhos/cm	10.0	1		09/08/23 13:54	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 11:30	Field		BEI0216
Nitrate Nitrogen as NO3N	**11.3**	mg/L	0.1	1	10	09/09/23 09:05	EPA 300.0		BEI0223
pH	**7.8**	units	1.0	1		09/08/23 13:54	SM 4500-H+	H	BEI0231
Temperature	**25.0**	°C	0.0	1		09/08/23 13:54	SM 2510 B		BEI0231

DELLAVALLE™
LABORATORY INC

Josh & James Jongsma Dairy
6780 Ave 144
Tipton, CA 93256

Account# 00-0021468
Account Manager: Ben Nydam
Submitted By:

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:59

Sample Results
(Continued)

Sample: ~~**DW House**~~ Dom
23I0569-02 (Water)

Sampled: 9/7/2023 11:30
Sampled By: V. Belo

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.22**	mmhos/cm	0.01	1		09/08/23 13:55	SM 2510 B		BEI0231
Electrical Conductivity umhos	**215**	umhos/cm	10.0	1		09/08/23 13:55	SM 2510 B		BEI0231
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 11:30	Field		BEI0216
Nitrate Nitrogen as NO3N	**0.4**	mg/L	0.1	1	10	09/09/23 12:55	EPA 300.0		BEI0223
pH	**9.2**	units	1.0	1		09/08/23 13:55	SM 4500-H+	H	BEI0231
Temperature	**25.0**	°C	0.0	1		09/08/23 13:55	SM 2510 B		BEI0231

DELLAVALLE™
LABORATORY INC

Josh & James Jongsma Dairy
6780 Ave 144
Tipton, CA 93256

Account# 00-0021468
Account Manager: Ben Nydam
Submitted By:

Received: 09/08/2023 7:15
Reported: 09/12/2023 11:59

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0223										
Blank (BEI0223-BLK1)					Prepared & Analyzed: 9/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0223-BLK4)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0223-BS1)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.4	90-110		
LCS (BEI0223-BS2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.6	90-110		
LCS (BEI0223-BS3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.5	90-110		
Duplicate (BEI0223-DUP1)		**Source: 23I0564-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	0.5		0.1	mg/L		0.4			1.11	10
Duplicate (BEI0223-DUP2)		**Source: 23I0567-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	1.8		0.1	mg/L		1.8			0.0544	10
Duplicate (BEI0223-DUP3)		**Source: 23I0569-02**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	0.4		0.1	mg/L		0.4			2.11	10
Matrix Spike (BEI0223-MS1)		**Source: 23I0564-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000	0.4	96.4	90-110		
Matrix Spike (BEI0223-MS2)		**Source: 23I0567-01**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	6.7		0.1	mg/L	5.000	1.8	97.6	90-110		
Matrix Spike (BEI0223-MS3)		**Source: 23I0569-02**			Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000	0.4	95.4	90-110		
Reference (BEI0223-SRM1)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.4	90-110		
Reference (BEI0223-SRM2)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.1	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0223 (Continued)										
Reference (BEI0223-SRM3)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.6			mg/L	10.00		96.3	90-110		
Reference (BEI0223-SRM4)					Prepared & Analyzed: 9/9/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231										
Blank (BEI0231-BLK1)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0231-BLK2)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.0		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEI0231-BLK3)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.6		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEI0231-DUP1)		**Source: 23I0566-01**			Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	0.30		0.01	mmhos/cm		0.30			0.732	10
pH	8.4		1.0	units		8.4			0.119	10
Electrical Conductivity umhos	300		10.0	umhos/cm		302			0.732	10
Duplicate (BEI0231-DUP2)		**Source: 23I0569-01**			Prepared & Analyzed: 9/8/2023					
pH	7.8		1.0	units		7.8			0.255	10
Electrical Conductivity	0.48		0.01	mmhos/cm		0.48			0.188	10
Electrical Conductivity umhos	479		10.0	umhos/cm		480			0.188	10
Reference (BEI0231-SRM1)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	517			umhos/cm	538.0		96.2	90-110		
Reference (BEI0231-SRM2)					Prepared & Analyzed: 9/8/2023					
pH	5.8			units	5.820		99.8	28178-101.7		
Reference (BEI0231-SRM3)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	965			umhos/cm	1000		96.5	90-110		
Electrical Conductivity umhos	965			umhos/cm	1000		96.5	90-110		
Reference (BEI0231-SRM4)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	961			umhos/cm	1000		96.1	90-110		
Electrical Conductivity umhos	961			umhos/cm	1000		96.1	90-110		
Reference (BEI0231-SRM5)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity	965			umhos/cm	1000		96.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0231 (Continued)										
Reference (BEI0231-SRM5)					Prepared & Analyzed: 9/8/2023					
Electrical Conductivity umhos	965			umhos/cm	1000		96.5	90-110		
Reference (BEI0231-SRM6)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM7)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0231-SRM8)					Prepared & Analyzed: 9/8/2023					
pH	4.0			units	4.000		100	97.5-102.5		

09/08/23 07:15 2310869

WATER WORK REQUEST

Bill To: Acct No. 21468 Cons. 8

Purchase Order No. ____ Results Needed By ____

Client: Jongsma Dairy, Joshua & James
Address: 6780 Ave 144
City, State, Zip: Tipton, CA 93256
Phone ____ Fax ____
Cell/Email ____

Copy to: Cardoso Ag Sevices - cas.labs@yahoo.com

Requested by ____

Ranch ____

Date sampled: 9/7/23

Sampled by: V. Bello

[X] QA/QC Document [X] Copy of Chain [ ] RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples: 3 No. Bottles: 2

Water Type: [ ] Drinking [ ] Wastewater
[X] Ag Water [ ] Ground Water [ ] Mon. Well
[ ] Supply Water [ ] Other ____

Analysis and Bottles Required: *(Please Indicate Analysis)*

(X) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test**)
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

( ) Other ____

H/F

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. ~~DW MB~~ Dom	Sampled From:	9/7/23	11:30 am	0	3.3/0.6
2. ~~DW House~~ Dom	Sampled From:	9/7/23	11:30 am	0	2.9/0.2
3. ~~[illegible]~~	Sampled From:				
4.	Sampled From:				
5.	Sampled From:				
6.	Sampled From:				
7.	Sampled From:				
8.	Sampled From:				
9.	Sampled From:				
10.	Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

IR Thermometer SN: 221511274
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Hanford

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	V. Bello	CAS INC	9/7/23 @ 11:30am	9/7/23 @ 4:30pm
Second	[signature]	DLI	9/7/23 4:30pm	
Third				
Fourth	[signature]	DLI	9/8 07:15	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The prties will equally bear the costs of mediation arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Shipping

$ ____ In
$ ____ Out

Sampling Hrs ____ Miles ____ Consulting ____

Amt Paid ____ Rec By ____ Check No ____ Date ____

Signature ____

Sample received in cooler with ice?
[ ] Yes [ ] No

ctl:update 2020

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Submitted By:

Received: 12/13/2023 15:35
Reported: 12/21/2023 09:12

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0892-01	IW #1	Ag Water	J Jongsma		12/12/2023 6:00
23L0892-02	IW #2	Ag Water	J Jongsma		12/12/2023 6:18
23L0892-03	IW #3	Ag Water	J Jongsma		12/12/2023 6:35
23L0892-04	IW #4	Ag Water	J Jongsma		12/12/2023 7:00
23L0892-05	IW #5	Ag Water	J Jongsma		12/12/2023 6:22
23L0892-06	IW #6	Ag Water	J Jongsma		12/12/2023 6:40

Default Cooler Temperature on Receipt °C: 3.2
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFarland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: IW #1
23L0892-01 (Water)

Sampled: 12/12/2023 6:00
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		12/18/23 12:55	SM 2510 B		BEL0677
Electrical Conductivity umhos	**237**	umhos/cm	10.0	1		12/18/23 12:55	SM 2510 B		BEL0677
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:00	Field		BEL0580
Nitrate Nitrogen as NO3N	**0.8**	mg/L	0.1	1	10	12/15/23 07:46	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 12:55	SM 4500-H+	H	BEL0677
pH	**9.2**	units	1.0	1		12/18/23 12:55	SM 4500-H+	H	BEL0677

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Reported: 12/21/2023 09:12

Sample Results
(Continued)

Sample: IW #2
23L0892-02 (Water)

Sampled: 12/12/2023 6:18
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.88**	mmhos/cm	0.01	1		12/18/23 12:56	SM 2510 B		BEL0677
Electrical Conductivity umhos	**885**	umhos/cm	10.0	1		12/18/23 12:56	SM 2510 B		BEL0677
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:18	Field		BEL0580
Nitrate Nitrogen as NO3N	**6.6**	mg/L	0.1	1	10	12/15/23 08:07	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 12:56	SM 4500-H+	H	BEL0677
pH	**7.8**	units	1.0	1		12/18/23 12:56	SM 4500-H+	H	BEL0677

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Sample Results
(Continued)

Sample: IW #3
23L0892-03 (Water)

Sampled: 12/12/2023 6:35
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.63**	mmhos/cm	0.01	1		12/18/23 13:12	SM 2510 B		BEL0678
Electrical Conductivity umhos	**627**	umhos/cm	10.0	1		12/18/23 13:12	SM 2510 B		BEL0678
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:35	Field		BEL0580
Nitrate Nitrogen as NO3N	**4.6**	mg/L	0.1	1	10	12/15/23 10:54	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 13:12	SM 4500-H+	H	BEL0678
pH	**8.0**	units	1.0	1		12/18/23 13:12	SM 4500-H+	H	BEL0678

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Sample Results
(Continued)

Sample: IW #4
23L0892-04 (Water)

Sampled: 12/12/2023 7:00
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.15**	mmhos/cm	0.01	1		12/18/23 13:15	SM 2510 B		BEL0678
Electrical Conductivity umhos	**1150**	umhos/cm	10.0	1		12/18/23 13:15	SM 2510 B		BEL0678
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 07:00	Field		BEL0580
Nitrate Nitrogen as NO3N	**9.5**	mg/L	0.1	1	10	12/15/23 11:15	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 13:15	SM 4500-H+	H	BEL0678
pH	**7.4**	units	1.0	1		12/18/23 13:15	SM 4500-H+	H	BEL0678

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Sample Results
(Continued)

Sample: IW #5
23L0892-05 (Water)

Sampled: 12/12/2023 6:22
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.57**	mmhos/cm	0.01	1		12/18/23 13:16	SM 2510 B		BEL0678
Electrical Conductivity umhos	**573**	umhos/cm	10.0	1		12/18/23 13:16	SM 2510 B		BEL0678
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:22	Field		BEL0580
Nitrate Nitrogen as NO3N	**3.9**	mg/L	0.1	1	10	12/15/23 11:36	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 13:16	SM 4500-H+	H	BEL0678
pH	**8.3**	units	1.0	1		12/18/23 13:16	SM 4500-H+	H	BEL0678

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Sample Results
(Continued)

Sample: IW #6
23L0892-06 (Water)

Sampled: 12/12/2023 6:40
Sampled By: J Jongsma

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.11**	mmhos/cm	0.01	1		12/18/23 13:18	SM 2510 B		BEL0678
Electrical Conductivity umhos	**1110**	umhos/cm	10.0	1		12/18/23 13:18	SM 2510 B		BEL0678
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 06:40	Field		BEL0580
Nitrate Nitrogen as NO3N	**8.9**	mg/L	0.1	1	10	12/15/23 11:57	EPA 300.0		BEL0594
Temperature	**25.0**	units	0.0	1		12/18/23 13:18	SM 4500-H+	H	BEL0678
pH	**7.6**	units	1.0	1		12/18/23 13:18	SM 4500-H+	H	BEL0678

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0594										
Blank (BEL0594-BLK1)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0594-BLK2)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0594-BLK3)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0594-BLK4)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0594-BLK5)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0594-BS1)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	4.6		0.1	mg/L	5.000		91.6	90-110		
LCS (BEL0594-BS2)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		105	90-110		
LCS (BEL0594-BS3)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	4.6		0.1	mg/L	5.000		92.1	90-110		
LCS (BEL0594-BS4)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000		93.9	90-110		
Duplicate (BEL0594-DUP1)		**Source: 23L0838-01**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	8.5		0.1	mg/L		8.4			0.603	10
Duplicate (BEL0594-DUP2)		**Source: 23L0856-02**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	2.0		0.1	mg/L		1.9			1.63	10
Duplicate (BEL0594-DUP3)		**Source: 23L0892-03**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	4.5		0.1	mg/L		4.6			1.08	10
Duplicate (BEL0594-DUP4)		**Source: 23L0910-05**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	8.0		0.1	mg/L		8.0			0.212	10
Matrix Spike (BEL0594-MS1)		**Source: 23L0838-01**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	13.8		0.1	mg/L	5.000	8.4	107	90-110		
Matrix Spike (BEL0594-MS2)		**Source: 23L0856-02**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	6.8		0.1	mg/L	5.000	1.9	96.3	90-110		

DELLAVALLE™
LABORATORY INC

Josh & James Jongsma Dairy
6780 Ave 144
Tipton, CA 93256

Account# 00-0021468
Account Manager: Ben Nydam
Submitted By:

Received: 12/13/2023 15:35
Reported: 12/21/2023 09:12

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0594 (Continued)										
Matrix Spike (BEL0594-MS3)		**Source: 23L0892-03**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	9.4		0.1	mg/L	5.000	4.6	95.9	90-110		
Matrix Spike (BEL0594-MS4)		**Source: 23L0910-05**			Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	12.9		0.1	mg/L	5.000	8.0	97.7	90-110		
Reference (BEL0594-SRM1)					Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.2			mg/L	10.00		92.2	90-110		
Reference (BEL0594-SRM2)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	9.3			mg/L	10.00		92.7	90-110		
Reference (BEL0594-SRM3)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	9.3			mg/L	10.00		93.3	90-110		
Reference (BEL0594-SRM4)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	9.4			mg/L	10.00		93.6	90-110		
Reference (BEL0594-SRM5)					Prepared: 12/14/2023 Analyzed: 12/15/2023					
Nitrate Nitrogen as NO3N	9.4			mg/L	10.00		94.1	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0677										
Blank (BEL0677-BLK1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	5.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0677-BLK2)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.8		1.0	units						
Blank (BEL0677-BLK3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.6		1.0	units						
Duplicate (BEL0677-DUP1)		**Source: 23L0885-01**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	0.60		0.01	mmhos/cm		0.60			0.268	10
Electrical Conductivity umhos	597		10.0	umhos/cm		599			0.268	10
pH	7.9		1.0	units		7.9			0.380	10
Duplicate (BEL0677-DUP2)		**Source: 23L0892-02**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	0.89		0.01	mmhos/cm		0.88			0.248	10
pH	7.8		1.0	units		7.8			0.384	10
Electrical Conductivity umhos	887		10.0	umhos/cm		885			0.248	10
Reference (BEL0677-SRM1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	429			umhos/cm	426.0		101	90-110		
Reference (BEL0677-SRM2)					Prepared & Analyzed: 12/18/2023					
pH	7.6			units	7.520		101	67021-101.3		
Reference (BEL0677-SRM3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEL0677-SRM4)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0677-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0677 (Continued)										
Reference (BEL0677-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0677-SRM6)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0677-SRM7)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0677-SRM8)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0678										
Blank (BEL0678-BLK1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.5		1.0	units						
Blank (BEL0678-BLK2)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	7.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0678-BLK3)					Prepared & Analyzed: 12/18/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.5		1.0	units						
Duplicate (BEL0678-DUP1)		**Source: 23L0910-01**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	0.94		0.01	mmhos/cm		0.92			3.13	10
pH	7.4		1.0	units		7.4			0.135	10
Electrical Conductivity umhos	945		10.0	umhos/cm		916			3.13	10
Duplicate (BEL0678-DUP2)		**Source: 23L0911-01**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	0.07		0.01	mmhos/cm		0.07			0.816	10
Electrical Conductivity umhos	73.8		10.0	umhos/cm		73.2			0.816	10
pH	7.8		1.0	units		8.0			2.03	10
Reference (BEL0678-SRM1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	427			umhos/cm	426.0		100	90-110		
Reference (BEL0678-SRM2)					Prepared & Analyzed: 12/18/2023					
pH	7.5			units	7.520		100	67021-101.3		
Reference (BEL0678-SRM3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEL0678-SRM4)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0678-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0678 (Continued)										
Reference (BEL0678-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0678-SRM6)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0678-SRM7)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0678-SRM8)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		100	97.5-102.5		

12/13/23 15:35 23L0892

JG

WATER WORK REQUEST

Acct No. Cons.

Bill To: 21468 8

Purchase Order No. Results Needed By

Client **Jongsma Dairy, Josh & James**

Address 6780 Ave 144

City, State, Zip Tipton, CA 93256

Phone Fax

Cell/Email

Copy to Cardoso Ag Sevices - cas.labs@yahoo.com

Requested by

Ranch

Date sampled 12/12/23

Sampled by Jongsma

[X] QA/QC Document [X] Copy of Chain [ ] RWQCB

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 6 No. Bottles 6

Water Type: [ ] Drinking [ ] Wastewater

[X] Ag Water [ ] Ground Water [ ] Mon. Well

[ ] Supply Water [ ] Other

Analysis and Bottles Required: *(Please Indicate Analysis)*

(X) DWW1: (EC, pH, NO_3-N, **NH_4-N Field Test)**
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DCW1: (EC, NO_3-N, TDS)
(1) 1 L plastic, unpreserved (white)

( ) DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK)
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl)
(1) 1 L plastic, unpreserved (white)

( ) Other

DESCRIPTION OF SAMPLES

		Sampled From:	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	LW#1	Sampled From:	12/12/23	6AM	0	3.2
2.	LW#2	Sampled From:	12/12/23	6:18A	0	3.9
3.	LW#3	Sampled From:	12/12/23	6:35A	0	3.9
4.	LW#4	Sampled From:	12/12/23	7AM	0	4.2
5.	LW#5	Sampled From:	12/12/23	6:22A	0	3.0
6.	LW#6	Sampled From:	12/12/23	6:40A	0	6.1
7.		Sampled From:				
8.		Sampled From:				
9.		Sampled From:				
10.		Sampled From:				

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JJongsma	J Jongsma Dairy	12/12/23 9am	12/13/23 9am
Second	Impedrosa	CASinc	12/12/23 9am	12/13/23 11:20
Third	JLE	DLV	12-13-23 11:00	12-13-23 3:01
Fourth		DLJ	12/13/23 15:35	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Shipping

$ In

Sampling Hrs Miles Consulting

$ Out

Amt Paid Rec By Check No. Date

Signature

Sample received in cooler with ice?

[ ] Yes [ ] No

ctl update 2020