



Livingston Dairy Consulting, Inc.

1635 E. Prosperity Ave., Ste B, Tulare
559-687-1440

LegenDairy West

8509 Ave. 152, Tipton, CA 93272

- Annual Report
- Water Analysis Samples
- Manure Manifest
- Facility / Land Map
- CCA Nitrogen Retrofit Report
-
-

GEO Tracker Confirmation #**Date:**

Facility Info

Reporting Period: 1/1/2023 to 12/31/2023

Name of the Facility

Dairy Name: LegenDairy West
Facility Address: 8509 Ave. 152, Tipton, CA 93272
Original Operation Date: 7/15/1992
Facility APN's: x228 x024 x012 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin Check if any information has changed

Owner(s)

Owner(s) Name: Gary & Victoria Fernandes
Mailing Address: P. O. Box 967, Tipton, CA 93272
Home Phone Number:
Cell Phone Number: 559-308-0696 Check if any information has changed

Operator(s)

Operator(s) Name: Same as Owner
Mailing Address:
Home Phone Number:
Cell Phone Number: Check if any information has changed

Herd Information

	Milk Cows	Dry Cows	Bred Heifers (12-24 mo)	Heifers (3-12 mo)	Calves (0-3 mo)
Open Confinement:	2,103	311	1,088	962	-
Number Under Roof	-	-	-	-	-
Maximum Number	2,103	311	1,088	962	
Average Number	2,103	311	1,088	962	
Average Live Weight (lbs)	950	975	650	370	

Average Milk Production: 58

Predominant Milk Cow Breed: Jersey

Manure Generated:

Total manure excreted by the herd:	11,065.35	@40% Moisture	ton/yr
Total nitrogen from manure:	651,048	lbs	
	63,283	lbs	
	317,817	lbs	
Total salt from manure:	-	lbs	

After Ammonia (30% loss applied)

455,734 lbs per reporting period

Process Wastewater Generated:

Process wastewater generated:	30,703,800	gal/
Total nitrogen generated:	85,301	lbs
	31,441	lbs
	110,600	lbs
Total salt (TDS) generated:	773,766	lbs

List of Land Application Areas

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources	No
Dairy Well (Dom)	Ground Water	No	
Well #7 (#1)	Ground Water	No	
Well #8 (#2)	Ground Water	No	
Well #9 (New)	Ground Water	No	
			Canal
			Surface Water
			No

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)

PLANT TISSUE ANALYSIS (Recorded As Received)										
(WINTER)		Crop	Moist %	N%	TP %	TK%	Salt	Sample #:	Date:	Source
8T-8		Wheat, Silage	62.30	0.55	0.14	0.87	-	9.30	6-2H52139	06/02/23
8T-9		Wheat, Silage	55.40	0.69	0.18	1.17	-	9.00	6-2H52139	06/02/23
8T-13		Wheat, Silage	53.90	0.67	0.18	1.07	-	8.28	6-2H52139	06/02/23
8T-14		Wheat, Silage	56.30	0.62	0.17	1.19	-	10.10	6-2H52139	06/02/23

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)

Detectable Limits
Valley Tech
Dellavalle

Winter Crops & Harvest

Detectable Valley Tech
Dellavalley

Detectable L Valley Tech
Dellavalle

Well / Canal Analysis

Soil Analysis (Winter)

Detectable Limits
Valley Tech
DellaValle

Soil Analysis (Summer)

Detectable limits

Geometric limits *Valley Tech* *DellaValle*

0.2 0.0015 0.0001%

Nutrient Import & Export

Nutrient Export-Did you sell, give away or otherwise remove slurry, process water or dry manure from your property?

20

Yes, Manifest attached (Attachment D)

Nutrient Import

- No Dry manure nutrient imports entered
- No Process wastewater nutrient imports entered
- No Commercial or other nutrient imports entered

Total Dry Manure Exported 6,600

Total Process Water Exported

Process Water & Manure Analysis

Process Water	
Quarters:	NH4N (mg/L)
1	152.0
2	92.0
3	141.0
4	138.0

Detectable Limits

	TP (mg/L)	TK (mg/L)	NO3N (mg/L)	NH3N (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	CO3 (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	EC (ds/m)	TDS (mg/L)
Valley Tech	2.0	5.0	0.1	0.2	-	-	-	-	-	-	-	-	0.10
Dellavalle	0.2	0.7	0.02	0.2	0.01	-	-	-	-	-	-	-	0.001
													10
													10

Qtr	Sample #:	Sample Date:	Source	lbs / Acre	
				Inorg N	Org N
1	3-24144735	3/24/2023	Valley Tech	34.7	49.9
2	5-11149517	5/11/2023	Valley Tech	21.1	44.0
3	8-17162140	8/17/2023	Valley Tech	32.2	4.1
4	10-4L67885	10/4/2023	Valley Tech	31.5	0.7

Description	Sample #:	Date:	As Is/ Dry Weight		Source	Material Type
			Dry Weight	Dry Weight		
Manure	5-11M49468	5/11/2023			Valley Tech	Corral Solids
Manure	10-4M67869	10/4/2023			Valley Tech	Corral Solids

Dry Manure: (As Received)	TN %		TP %		Ca	Mg	Na	S	Cl	Salt	TFS	Moisture %
	Corral	Corral	0.31	1.85	Corral	Corral	Corral	Corral	Corral	Corral	Corral	Corral
Valley Tech	0.93	0.83	0.26	1.02	2.27	0.57	0.48	-	-	-	-	45.60
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.001%	0.000%	0.000%	0.000%	0.0001%	0.0001%	50.60

Detectable Limits

	TP %	TK %	Ca	Mg	Na	S	Cl	Salt	TFS	Moisture %
Valley Tech	0.02%	0.02%	-	-	-	-	-	-	-	45.60
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.000%	0.000%	0.000%	0.0001%	50.60

Nutrient Applications

Field Name/Number:

8T-8

Acres:

45.00

Dry Weight
As Received

Field Name/Number: 8T-8 Acres: 45

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	250.9	99.6	701.1	2067.2
Nutrients Removed at Harvest	-783.0	-114.9	-843.2	0.0
Nutrient Balance	-532.1	-15.3	-142.1	2067.2

Winter Nitrogen Crop App / Use Ratio: 0.93 Summer Nitrogen Crop App / Use Ratio: 0.01

Field Name/Number: 8T-8 Acres: 45

Winter Crop	Wheat, Silage	Nutrient Summary : Applied N			
W. Manure App.		10.0	T/Ac	74.4	142.0
W. Comm Fert App.		-	lbs/Ac	-	443.9
Process Water	Q1	2.1	Ac In /Ac	127.1	65.8
	Q2	1.1	Ac In /Ac	49.2	320.8
Well Water		-	Ac In /Ac	-	76.7
Canal		21.7	Ac In /Ac	0.0	
Atm. Depos.		Yes		7.0	
W. Planting	11/16/22				
W. Harvest	6/1/23	25.2	T/Ac	(277.4)	(156.6)
					(529.0)

Summer Crop	Alfalfa	Nutrient Summary : Applied N			
S. Manure App.		-	T/Ac	-	-
S. Comm Fert App.		-	lbs/Ac	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	-	Ac In /Ac	-	-
	Q4	-	Ac In /Ac	-	-
Well Water		-	Ac In /Ac	0	
Canal		27.3	Ac In /Ac	0.1	
Atm. Depos.		Yes		7.0	
S. Planting	6/15/23				
S. Harvest	11/20/23	8.0	T/Ac	(505.6)	(106.5)
					(482.9)

Nutrient Applications

Field Name/Number:

8T-9

Acres:

10.00

Field Name/Number: 8T-9Acres: 10.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	288.6	51.0	679.2	2326.0
Nutrients Removed at Harvest	-783.1	-56.0	-822.0	0.0
Nutrient Balance	-494.5	-5.0	-142.8	2326.0

Winter Nitrogen Crop App / Use Ratio: 0.94

Summer Nitrogen Crop App / Use Ratio: 0.02

Field Name/Number: 8T-9 Acres: 10

Winter Crop	Wheat, Silage				
Nutrient Summary :	Applied		N		
W. Manure App.	12.0	T/Ac	89.3	170.4	532.7
W. Comm Fert App.	-	Ibs/Ac	-	-	-
Process Water	Q1	2.4 Ac In /Ac	143.9	74.4	362.9
	Q2	1.2 Ac In /Ac	55.3	22.7	86.3
Well Water		- Ac In /Ac	-	-	-
Canal		24.1 Ac In /Ac	0.1	-	-
Atm. Depos.	Yes		7.0	-	-
W. Planting	11/16/22				
W. Harvest	6/1/23	23.0 T/Ac	(315.9)	(187.9)	(645.0)

Summer Crop	Alfalfa				
Nutrient Summary :	Applied		N		
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	Ibs/Ac	-	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water		- Ac In /Ac	-	-	-
Canal		29.2 Ac In /Ac	0.1	-	-
Atm. Depos.	Yes		7.0	-	-
S. Planting	6/15/23				
S. Harvest	11/20/23	8.0 T/Ac	(467.2)	(106.0)	(543.3)

Nutrient Applications

Field Name/Number:

8T-13

Acres:

75.00

Field Name/Number: 8T-13 Acres: 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	468.7	86.4	988.8	3972.7
Nutrients Removed at Harvest	-545.4	-60.4	-546.5	0.0
Nutrient Balance	-76.7	26.0	442.3	3972.7

Winter Nitrogen Crop App / Use Ratio: 0.94 Summer Nitrogen Crop App / Use Ratio: 1.24

Field Name/Number: 8T-13 Acres: 75

Winter Crop	Wheat, Silage				
Nutrient Summary :	Applied		N		
W. Manure App.	13.3	T/Ac	99.2	189.4	591.9
W. Comm Fert App.	-	Ibs/Ac	-	-	-
Process Water	Q1	2.2	Ac In /Ac	132.1	68.3
	Q2	1.1	Ac In /Ac	50.6	20.8
Well Water		-	Ac In /Ac	-	-
Canal		22.3	Ac In /Ac	-	-
Atm. Depos.	Yes			7.0	
W. Planting	10/12/23				
W. Harvest	5/26/23	22.9	T/Ac	(308.7)	(193.7)
					(588.7)

Summer Crop	Corn, Silage				
Nutrient Summary :	Applied		N		
S. Manure App.	10.0	T/Ac	66.8	119.9	245.4
S. Comm Fert App.	-	Ibs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	3.4	Ac In /Ac	119.9	55.1
	Q4	-	Ac In /Ac	-	-
Well Water		-	Ac In /Ac	99.2	
Canal		34.9	Ac In /Ac	0.1	
Atm. Depos.	Yes			7.0	
S. Planting	6/17/23				
S. Harvest	10/8/23	27.8	T/Ac	(236.7)	(123.2)
					(201.4)

Nutrient Applications

Field Name/Number:

8T-14

Acres:

75.00

Field Name/Number: 8T-14Acres: 75.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	481.8	63.5	817.8	3967.9
Nutrients Removed at Harvest	-547.5	-63.4	-635.5	0.0
Nutrient Balance	-65.6	0.1	182.3	3967.9

Winter Nitrogen Crop App / Use Ratio: 0.92

Summer Nitrogen Crop App / Use Ratio: 1.22

Field Name/Number: 8T-14 Acres: 75

Winter Crop	Wheat, Silage				
Nutrient Summary :	Applied		N		
W. Manure App.	13.3	T/Ac	99.2	189.4	591.9
W. Comm Fert App.	-	Ibs/Ac	-	-	-
Process Water	Q1	2.2	Ac In /Ac	131.2	67.9
	Q2	1.1	Ac In /Ac	50.6	20.8
Well Water		-	Ac In /Ac	-	-
Canal		22.3	Ac In /Ac	0.1	-
Atm. Depos.		Yes		7.0	-
W. Planting	10/11/22				
W. Harvest	5/30/23	25.3	T/Ac	(311.8)	(202.5)
					(721.7)

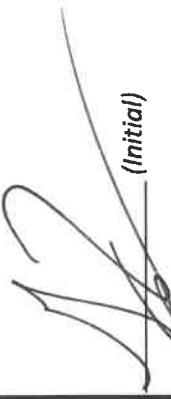
Summer Crop	Corn, Silage				
Nutrient Summary :	Applied		N		
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	80.0	Ibs/Ac	80.0	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	3.4	Ac In /Ac	120.6	55.2
	Q4	-	Ac In /Ac	-	-
Well Water		-	Ac In /Ac	80.0	-
Canal		35.2	Ac In /Ac	0.1	-
Atm. Depos.		Yes		7.0	-
S. Planting	6/15/23				
S. Harvest	10/7/23	27.4	T/Ac	(235.7)	(130.1)
					(197.0)

Notes

Without allowance for the significant amount of rainfall during the winter months of 2022/2023, the irrigation logs on each field page of the annual report, reflect canal and/or well used only during that time frame. The facility did not irrigate during the "Significant Storm Events".

It is inaccurate to present "salt" application without acknowledging that there is substantial uptake and utilization of "salts" by crops. If it is possible to calculate "salt" application, it is also possible to calculate "salt" utilization. That calculation should be included in this report. To calculate "salt" utilization is a lengthy process and cannot be done with the constituents required in the Revised General Order sampling requirements.

The signature(s) affixed to this report does not affirmatively refer to those references to "salt" that we know to be incorrect.



(Initial)

A handwritten signature consisting of a stylized 'J' and 'B' connected by a horizontal line, followed by the word '(Initial)' written vertically next to it.

Exception Reporting

Manure , Process Water and Other Dairy Waste Discharges:

The following is a summary of all manure and process water 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.

No, manure or process water discharges occurred during the reporting period

Storm Water Discharges:

The follow is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No, storm water discharges occurred during the reporting period

Land Application Area To Surface Water Discharges:

The following is a summary of all discharges from the land application area surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No, land application area to surface water discharges occurred during the reporting period

Nutrient Management Plan (NMP) & Written Agreement Statement

Nutrient Management Plan Statement:

Was the facility NMP updated in the reporting period?

Yes _____

Was the facility's NMP developed and approved by a certified nutrient management specialist?

Yes _____

Written Agreements:

Are there any written agreements with third parties to receive manure or process water that are new or were revised within the reporting period?

No _____

Owner and/or Operator Certification

*I certify under penalty of law that all information submitted as part of this document is accurate and true. Certification signatures by a California Registered Professional have been supplied as needed in Part II. I have personally examined and am familiar with the information submitted in Parts I and II of 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.



Signature of Owner of Facility

Signature of Operator of Facility

Gary & Victoria Fernandes

Print Name

Same as Owner

Print Name

Date

March 9, 2023

Lab No. : VI 2340558
Customer No. : 4018505

Livingston Dairy Consulting, Inc
 1635 E. Prosperity Suite B
 Tulare, CA 93274

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dairy Well	01/31/2023	01/31/2023	VI 2340558-001	DW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.**

Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-03-09

Section: Case Narrative

Page 1 of 4

Page 1 of 4

Corporate Offices & Laboratory
 853 Corporation Street
 Santa Paula, CA 93060
 TEL: (805)392-2000
 Env FAX: (805)625-4172 / 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)734-9473
 FAX: (559)734-8435
 CA ELAP Certification No. 2810

March 9, 2023

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Description : Dairy Well
Project : W-4 Legen Dairy West

Lab No. : VI 2340558-001

Customer No.: 4018505

Sampled On : January 31, 2023 at 09:12

Sampled By : Marlene / Kaylin

Received On : January 31, 2023 at 14:03

Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation		Sample Analysis				
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Alkalinity (as CaCO ₃)	80	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	17:06	amm
Bicarbonate	50	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	17:06	amm
Carbonate	20	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	17:06	amm
Hydroxide	20	10	mg/L		1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	17:06	amm
Chloride	7	1	mg/L	500 ²	1	b	02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	17:38	ldm
Nitrate Nitrogen	ND	0.1	mg/L	10	1	U	02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	17:38	ldm
Conductivity	203	1	µmhos/cm	1600 ²	1		02/05/2023	15:54	amm	SM 4500-H+B	02/05/2023	17:06	amm
Sulfate	7.3	0.5	mg/L	500 ²	1		02/01/2023	10:30	ldm	EPA 300.0	02/01/2023	17:38	ldm
Solids, Total Dissolved (TDS)	160	20	mg/L	1000 ²	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	12:19	ctl
Calcium	2	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:56	ac
Magnesium	ND	1	mg/L		1	JL	02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:56	ac
Sodium	45	1	mg/L		1		02/23/2023	06:49	ejc	EPA 200.7	02/27/2023	18:56	ac

DQF Flags Definition:

b The Blank was positive for constituent but less than the PQL

U Constituent results were non-detect.

J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.

1 The MS/MSD did not meet QC criteria.

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

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

Section: Sample Results

Page 2 of 4

Page 2 of 4

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

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

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

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

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

March 9, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340558

Customer No. : 4018505

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	02/23/2023:202002EJC	Blank	mg/L		ND	<1	
		(CC 2380566-001)	LCS	mg/L	12.00	101 %	85-115	
			MS	mg/L	12.00	-71.2 %	<¼	
			MSD	mg/L	12.00	50.4 %	<¼	
		(CC 2380566-002)	MSRPD	mg/L	0.8000	15.7%	≤20.0	
			MS	mg/L	12.00	-81.6 %	<¼	
			MSD	mg/L	12.00	-76.0 %	<¼	
Magnesium	200.7	02/23/2023:202002EJC	MSRPD	mg/L	0.8000	0.8%	≤20.0	
			Blank	mg/L		ND	<1	
		(CC 2380566-001)	LCS	mg/L	12.00	99.5 %	85-115	
			MS	mg/L	12.00	13.9 %	75-125	435
			MSD	mg/L	12.00	71.5 %	75-125	435
		(CC 2380566-002)	MSRPD	mg/L	0.8000	15.5%	≤20	
			MS	mg/L	12.00	-4.1 %	75-125	435
			MSD	mg/L	12.00	-11.4 %	75-125	435
Sodium	200.7	02/23/2023:202002EJC	MSRPD	mg/L	0.8000	1.9%	≤20	
			Blank	mg/L		ND	<1	
		(CC 2380566-001)	LCS	mg/L	12.00	98.4 %	85-115	
			MS	mg/L	12.00	-162 %	<¼	
			MSD	mg/L	12.00	1540 %	<¼	
		(CC 2380566-002)	MSRPD	mg/L	0.8000	15.8%	≤20.0	
			MS	mg/L	12.00	-2490 %	<¼	
			MSD	mg/L	12.00	-3160 %	<¼	
			MSRPD	mg/L	0.8000	7.6%	≤20.0	

Definition

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

Explanation

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

March 9, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340558

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO ₃)	2320B	02/05/2023:201253AMM	ND	mg/L		2.32%	10	435
Bicarbonate	2320B	(VI 2340442-002)	Dup	mg/L		2.23%	10	
E. C.	2320B	(VI 2340442-002)	Dup	umhos/cm		0.4%	5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	101 %	90-110	
			Dup	mg/L		0.4%	5	
			Dup	mg/L		0.5%	5	
Chloride	300.0	02/01/2023:201132LDM	Blank	mg/L		1	<1	
			LCS	mg/L	25.00	96.7 %	90-110	
			MS	mg/L	50.00	102 %	85-121	
			(VI 2340463-001)	MSD	50.00	92.1 %	85-121	
				MSRPD	10.00	9.6%	≤19	
				MS	50.00	91.4 %	85-121	
			(SP 2301318-002)	MSD	50.00	99.2 %	85-121	
				MSRPD	10.00	6.6%	≤19	
Nitrate Nitrogen	300.0	02/01/2023:201132LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.5 %	90-110	
			MS	mg/L	40.00	101 %	85-119	
			(VI 2340463-001)	MSD	40.00	91.6 %	85-119	
				MSRPD	10.00	8.1%	≤19	
				MS	40.00	93.9 %	85-119	
			(SP 2301318-002)	MSD	40.00	102 %	85-119	
				MSRPD	10.00	7.0%	≤19	
Sulfate	300.0	02/01/2023:201132LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	98.2 %	90-110	
			MS	mg/L	100.0	103 %	82-124	
			(VI 2340463-001)	MSD	100.0	93.1 %	82-124	
				MSRPD	10.00	9.4%	≤23	
				MS	100.0	94.8 %	82-124	
			(SP 2301318-002)	MSD	100.0	103 %	82-124	
				MSRPD	10.00	8.1%	≤23	

Definition

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

Explanation

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



FGI ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.sglinc.com

Laboratory Copy (1 of 3)

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 16.1 / 4.3 / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. VOAs checked for Headspace? Yes No N/A
6. Were sample custody seals intact? Yes No N/A
7. If required, was sample split for pH analysis? Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes No N/A
9. Verify sample date, time and sampler name. Yes No N/A

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): DR

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 26 / / / / /

Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers: 558722543 590
584

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. Were sample custody seals intact? Yes No N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No N/A

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): MJC

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem:

Resolution:

2. Person Contacted: _____ Phone Number: _____

Initiated By: _____

Problem:

Resolution:

(Please use the back of this sheet for additional co contacts)

(4018505)
Livingston Dairy Consulting, Inc.

VI 2340558

da0 02/01/2023 12:12:47



UT 2340558

July 18, 2023

Lab No. : VI 2344110
Customer No. : 4018505

Livingston Dairy Consulting, Inc
1635 E. Prosperity Suite B
Tulare, CA 93274

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Well #9	07/06/2023	07/06/2023	VI 2344110-001	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 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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

KD: KEH

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-07-19

July 18, 2023

Livingston Dairy Consulting, Inc
 1635 E. Prosperity Suite B
 Tulare, CA 93274

Description : Well #9
 Project : W-4 Legen Dairy West

Lab No. : VI.2344110-001

Customer No.: 4018505

Sampled On : July 6, 2023 at 10:21

Sampled By : Marlene Ferreira

Received On : July 6, 2023 at 10:55

Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation		Sample Analysis		
							Date	Time	Who	Method	Date
Dairy Analysis											
Alkalinity (as CaCO ₃)	80	10	mg/L		1		07/10/2023	13:15	amm	SM 4500-H+B	07/11/2023
Bicarbonate	70	10	mg/L		1		07/10/2023	13:15	amm	SM 4500-H+B	07/11/2023
Carbonate	10	10	mg/L		1		07/10/2023	13:15	amm	SM 4500-H+B	07/11/2023
Hydroxide	10	10	mg/L		1		07/10/2023	13:15	amm	SM 4500-H+B	07/11/2023
Chloride	9	1	mg/L		1		07/07/2023	16:18	ldm	EPA 300.0	07/08/2023
Nitrate Nitrogen	0.1	0.1	mg/L		1		07/07/2023	16:18	ldm	EPA 300.0	07/08/2023
Conductivity	221	1	umhos/cm		1		07/10/2023	13:15	amm	SM 4500-H+B	07/11/2023
Sulfate	11.2	0.5	mg/L		1		07/07/2023	16:18	ldm	EPA 300.0	07/08/2023
Solids, Total Dissolved (TDS)	180	20	mg/L		1		07/11/2023	10:45	ctl	SM 2540 C	07/12/2023
Calcium	2	1	mg/L		1		07/12/2023	06:01	ejc	EPA 200.7	07/12/2023
Magnesium	ND	1	mg/L		1	J	07/12/2023	06:01	ejc	EPA 200.7	07/12/2023
Sodium	47	1	mg/L		1		07/12/2023	06:01	ejc	EPA 200.7	07/12/2023

DQF Flags Definition:

J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.

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

July 18, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344110

Customer No. : 4018505

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Calcium	200.7	07/12/2023:207602EJC	Blank	mg/L		ND	<1	
		(SP 2311703-001)	LCS	mg/L	12.00	104%	85-115	
			MS	mg/L	12.00	89.3%	75-125	
			MSD	mg/L	12.00	107%	75-125	
			MSRPD	mg/L		7.0%	≤20.0	
Magnesium	200.7	07/12/2023:207602EJC	Blank	mg/L		ND	<1	
		(SP 2311663-001)	LCS	mg/L	12.00	108%	85-115	
			MS	mg/L	12.00	193%	<¼	406
			MSD	mg/L	12.00	72.2%	<1/4	
			MSRPD	mg/L		8.2%	≤20	
		(SP 2311703-001)	MS	mg/L	12.00	103%	75-125	
			MSD	mg/L	12.00	106%	75-125	
Sodium	200.7	07/12/2023:207602EJC	MSRPD	mg/L		2.4%	≤20	
		(SP 2311703-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	103%	85-115	
			MS	mg/L	12.00	42.7%	<¼	406
			MSD	mg/L	12.00	132%	<1/4	
			MSRPD	mg/L		12.0%	≤20.0	

Definition

- Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
- LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of 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.

Explanation

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

July 18, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344110

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO ₃)	2320B	07/10/2023:207451AMM	ND	mg/L		0.7%	10	406
Bicarbonate	2320B	(VI 2344053-001)	Dup	mg/L		0.7%	10	
E. C.	2320B	(VI 2344053-001)	Dup	umhos/cm		0.8%	5	
Solids, Total Dissolved	2540CE	07/11/2023:207527CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	100%	90-110	
			Dup	mg/L		1.23%	5	
			Dup	mg/L		0.5%	5	
Chloride	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	101 %	90-110	
			MS	mg/L	50.00	100 %	85-121	
			(VI 2344110-001)	MSD	mg/L	50.00	98.2 %	85-121
				MSRPD	mg/L	10.00	1.9%	≤19
				MS	mg/L	50.00	100 %	85-121
				(VI 2344098-001)	MSD	50.00	98.6 %	85-121
					MSRPD	mg/L	10.00	1.6% ≤19
Nitrate Nitrogen	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	101 %	90-110	
			MS	mg/L	40.00	103 %	85-119	
			(VI 2344110-001)	MSD	mg/L	40.00	100 %	85-119
				MSRPD	mg/L	10.00	2.3% ≤19	
				MS	mg/L	40.00	103 %	85-119
				(VI 2344098-001)	MSD	40.00	101 %	85-119
					MSRPD	mg/L	10.00	1.9% ≤19
Sulfate	300.0	07/07/2023:207466LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	102 %	90-110	
			MS	mg/L	100.0	102 %	82-124	
			(VI 2344110-001)	MSD	mg/L	100.0	99.8 %	82-124
				MSRPD	mg/L	10.00	2.1% ≤23	
				MS	mg/L	100.0	103 %	82-124
				(VI 2344098-001)	MSD	100.0	101 %	82-124
					MSRPD	mg/L	10.00	1.7% ≤23

Definition

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

Explanation

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



URAL

ACCOLADE

AUG

Antithrombin III

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 3)

Client: Livingston Dairy Consulting, Inc.		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information	
Address: Livingston Dairy Consulting, Inc 1635 E. Prosperity Suite B Tulare, CA 93274		42085:03/01/2022	
Phone:	(559)687-1440	Fax:	
Contact Person:	Noreen Livingston		
Project Name:	W4 LegendDairy West		
Purchase Order Number:	VI 20210208-01		
Quote Number:	VI 20210208-01		
Sampler(s)	Martine		
Sampling Fee:		Pickup Fee:	
Compositor Setup Date:	/ /	Time:	/
Lab Number:	VI 2344110	4-18505	
Samp Num	Location Description	Date Sampled	Time Sampled
1	Well #9	7/16 10:21AM	G April 19
2		G	1
3		G	1
4		G	1
5		G	1
6		G	1
7		G	1
8		G	1
9		G	1
10		G	1
Method of Sampling:		Composite(C) Grab(G)	
Type of Sample		**SEE REVERSE SIDE**	
Batch Reason: Routine(ROUT) Repeat(RPT) Replace(RPL)			
Batch Type: Other(O) System(SYS) Source(SR) Waste(W)			
Potable(P) Non-Potable(NP) Ag Water(AGW)			
Daily Analysis-W4-All.			
(CaCO ₃ ,Cl,Conductivity,NO ₃ -N,TDS,SO ₄ ,Ca,Na,Mg 16oz(P))			
Received By: <i>Blynn</i> Date: Time: Received By: Date: Time:			
Relinquished Date: Time: Relinquished Date: Time: Relinquished Date: Time:			
<i>Martine farre</i> 7/16/23 1055 Blynn 7/16/23 1055 SRO 7/6/23 1055 GLS 7/6/23 1730			
<i>Office & Laboratory</i> 7/7/23			
853 Corporate Offices & Laboratory 201 88 Santa Paula, CA 93060			
2500 Stagecoach Road Santa Paula, CA 93060			
Phone: (805) 392-2000			
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063			
<i>Office & Laboratory</i> 7/7/23			
563 E. Lindo 44 Chico, CA 95926			
3442 Empresa Drive, Suite D San Luis Obispo, CA 93401			
Phone: (805) 783-2940			
Fax: (805) 783-3807			
<i>Office & Laboratory</i> 7/7/23			
9415 W. Goshen Avenue Visalia, CA 93291			
Phone: (559) 783-9473			
Fax: (559) 724-9475			

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC
2. Were samples received in a chilled condition? Temps: 20.1 / 8.6 / / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.
3. Do the number of bottles received agree with the COC? Yes Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes Yes No
5. VOAs checked for Headspace? Yes Yes No N/A
6. Were sample custody seals intact? Yes Yes No N/A
7. If required, was sample split for pH analysis? Yes Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes Yes No N/A
9. Verify sample date, time and sampler name Yes Yes No N/A

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): SRC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 34 / / / / /
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 549719161 181
165 174

3. Do the number of bottles received agree with the COC? Yes Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes Yes No
5. Were sample custody seals intact? Yes Yes No N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes Yes No
2. Did bottle labels correspond with the client's ID's? Yes Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): MPC

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem:
Resolution:
2. Person Contacted: _____
Initiated By: _____ (4018505)
Problem:
Resolution:

(Please use the back of this sheet for additional contacts)

Livingston Dairy Consulting, Inc.
VI 2344110

iv 07/07/2023 10:15:22

VI 2344110

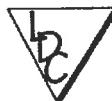
2023 Canal Results

558TRA144 - Tule River at Road 144

Constituent	Field/Lab	WQTL	MDL	PQL	Units	Oct-22	Nov-22	Dec-22	1/17/23	2/13/23	March-23	4/17/23	5/15/23	6/19/23	7/18/23
Flow	Field	Field			cfs	0	0	0	220	280		180	150	250	400
EC	BSK	700			umhos/cm				151.2	155.3		134.4	128.3	131	138.4
pH	BSK	6.5-8.3			pH				7.59	6.5		7.1	6.8	6.4	8.53
Temperature	BSK				Celsius				10	11.3		15.9	21.4	20.3	19.6
Dissolved Oxygen	BSK	Min. 7.0			mg/L				10.87	12.7		9.49	**	14.37	8
TDS	BSK	450	4.4	1.0	mg/L				30	50		110	96	33	37
Turbidity	BSK		0.1	NTU					56	15		11	6.4	15	21
Nitrate + Nitrite as N	BSK	10	0.028	0.2	mg/L				1.3	0.24		0.022	0.61	0.077	ND
Orthophosphate-P	BSK	0.0051	0.6	mg/L					1.9	0.019		0.021	0.038	0.011	0.015
Ammonia-N	BSK	1.5	0.05	0.5	mg/L				ND	ND		ND	ND	ND	ND
Unionized Ammonia	BSK				mg/L				ND	ND		ND	ND	ND	ND
TKN	BSK	0.267	0.5	mg/L					0.17	0.43		ND	0.16	ND	0.16
Phosphorus	BSK	8.1	50	ug/L					1.8	0.044		0.091	0.048	0.034	0.02
Arsenic	BSK	10	0.041	0.2	ug/L				2.2	1.7		1.6	1.3	1.1	1.1
Boron	BSK	700	4.5	10	ug/L				30	23		22	17	8.1	5
Cadmium	BSK	5	0.025	0.2	ug/L				ND	ND		ND	ND	ND	ND
Copper	BSK	1300	0.36	0.5	ug/L				3.3	5		2.8	2.4	2.7	4.8
Lead	BSK	15	0.034	0.2	ug/L				1.4	0.63		0.83	0.48	0.45	0.55
Nickel	BSK	100	0.2	0.5	ug/L				1.5	0.79		1.5	0.86	0.75	0.85
Selenium	BSK	50	0.29	1	ug/L				1.1	0.33		0.77	0.62	ND	0.32
Zinc	BSK	0.68	20	ug/L					7.1	3.9		6.1	7.4	2.9	5.1
Molybdenum	BSK	10	0.15	0.5	ug/L				1.5	1.2		1.2	0.98	0.68	0.59
Hardness	BSK	1	1	1	mg/L				58	22		50	40	12	8
TSS	BSK	na	10	mg/L					30	32		36	12	22	32
TOC	BSK	0.085	0.5	mg/L					3.1	3.2		3.6	2.6	2.2	1.8
E. coli	BSK	235	1.1	MPN					130	4.5		49	240	130	79
Fecal Coliform	BSK	400	1.1	MPN					130	4.5		49	240	130	79
Toxicity, minnow	ABC								100	100		100	100	100	87.5
Toxicity, water flea	ABC								100	100		100	100	100	100
Toxicity, algae	ABC								100	100		100	100	100	100
2,4-D Acids & Salts	BSK														

Core & Assessment Constituents

Due to Record Flood Conditions, No Surface Water Analysis in March 2023



Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Name: LegenDairy West
8509 Ave, 152 Tipton
Tulare County

2023

Sample Collection Equipment: Bottle Container

Sample Container: (Circle one)

Bottle Container: 8 fl oz 16 fl oz 32 fl oz

Sample Collection Location: (Circle one)

Discharge Pipe Spigot/Faucet

Sample Collection Method: (Circle one) * All Samples are labeled with the facility name, date, contents, location and description ** Please see the Sample and Anylsis Plan for more detailed descriptions.

Well: Sample taken at the Discharge Pipe, Spigot or Faucet using a sample container provided by laboratory

Sample Type:

Sample Preservation Method: (Circle one)

Ice Chest

Refrigerator

Ice Pack



Livingston Dairy Consulting, Inc.

1635 E. Prosperity Ave. Ste. B

Tulare, CA 93274

559-687-1440

Sunday, April 14, 2024

Re: 2023 NMP
LegenDairy West
8509 Ave. 152, Tipton, CA 93272

Enclosed is the 2023/2024 Nutrient Budget for your facility to comply with the California Regional Water Quality Control Board General Order No. R5-2007-0035.

*2023 Whole Farm Nitrogen Balance

The whole farm nitrogen balance for the crop year 2022 was **0.62**
Nitrogen Summary will show the balances for each field and for the whole farm.

*Ranges for the Whole Farm Nitrogen Balance

<u>Factor</u>	<u>Status</u>	<u>Evaluation</u>
> 1.65	Excessive	Too much nitrogen applied
1.4 - 1.65	Slightly High	Nitrogen is satisfactory to slightly high
0.9 - 1.4	Normal	Normal to slightly low
< 0.9	Low	Low nitrogen status, additional nitrogen needed

*Nutrient Management Plan/ Nutrient Budget Certification

This Nutrient Budget was prepared by a Certified Crop Advisor as required by the California Regional Water Quality Control Board.



Butch Brazil

Certified Crop Advisor #35629

This Nutrient Management Plan / Nutrient Budget is based on samples collected and analyzed by a third party laboratory. This Certified Crop Advisor was not involved in oversight of outside laboratory sample collection, transportation, or analyses. Interpretation of the data is based on submitted information. Where data was incomplete, book values and / or historical data was used. The third party laboratory or Certified Crop Advisor was not involved with the agronomic growth of the crops and the Nutrient Budget is based on information provided by the owner.

