



Livingston Dairy Consulting, Inc.

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

M.F. Rosa Dairy WDIDSD165068N01

10090 2nd Avenue Hanford, CA 93230

- 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: M.F. Rosa Dairy WDID5D165068N01
Facility Address: 10090 2nd Avenue Hanford, CA 93230
Original Operation Date: 1/1/1900
Facility APN's: x016 x090 x004 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin Check if any information has changed

Owner(s)

Owner(s) Name: Rolland & Noel Rosa
Mailing Address: 10074 2nd Avenue Hanford, CA 93230
Home Phone Number: 559-582-8825
Cell Phone Number: 559-816-4516 or 559-723-1367 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:		125	-	152	-
Number Under Roof	933	-	-	-	-
Maximum Number	933	125		152	
Average Number	933	125		152	
Average Live Weight (lbs)	1,400	1,450		630	

Average Milk Production: 76

Predominant Milk Cow Breed: Holstein

Manure Generated:

Total manure excreted by the herd:	2,301.50	@40% Moisture	ton/yr
Total nitrogen from manure:	83,805	lbs	
	7,074	lbs	
	43,697	lbs	
Total salt from manure:	-	lbs	

Process Wastewater Generated:

Process wastewater generated:	13,621,800	gal
Total nitrogen generated:	36,817	lbs
	9,740	lbs
	33,661	lbs
Total salt (TDS) generated:	393,847	lbs

After Ammonia (30% loss applied)

58,663 lbs per reporting period

List of Land Application Areas

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources	Canal	Surface Water	No
2 Barn	Ground Water	No			
3 Backup	Ground Water	No			
1	Ground Water	No			
5	Ground Water	No			
7	Ground Water	No			
10 New	Ground Water	No			
12	Ground Water	No			
13	Ground Water	No			
4	Ground Water	No			
6	Ground Water	No			
10 Old	Ground Water	No			
11	Ground Water	No			
14	Ground Water	No			
15	Ground Water	No			
16 New Dom	Ground Water	No			

WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)

(WINTER)		PLANT TISSUE ANALYSIS (Recorded As Received)							Source	
		Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:
1,2,3,4	Alfalfa	7.60	3.19	0.33	2.65	-	13.70	9-14H65433	09/14/23	Valley Tech
5N	Wheat, Silage	52.10	0.57	0.11	0.57	-	8.94	5-23H51006	05/23/23	Valley Tech
5S	W. Fallow	-	-	-	-	-	-	-	-	Fallow
6	Wheat, Silage	55.90	0.55	0.11	0.57	-	9.29	5-23H51006	05/23/23	Valley Tech
7	Wheat, Silage	56.30	0.66	0.10	0.54	-	9.29	6-6H52640	06/06/23	Valley Tech
8,9	Alfalfa	7.00	2.86	0.31	2.48	-	19.10	9-14H65433	09/14/23	Valley Tech
10,11,12	W. Fallow	-	-	-	-	-	-	-	-	Fallow
14	W. Fallow	-	-	-	-	-	-	-	-	Fallow
15	Wheat, Silage	55.70	0.58	0.11	0.50	-	10.40	5-23H51006	05/23/23	Valley Tech

	<i>Detectable Lim Valley Tech</i>	<i>Detectable Lim Deltavalle</i>	<i>Detectable Lim Valley Tech</i>	<i>Detectable Lim Deltavalle</i>
<i>Valley Tech</i>	0.10%	0.05%	0.01%	0.01%
<i>Deltavalle</i>	0.001%	0.01%	0.01%	0.003%

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)

PLANT TISSUE ANALYSIS (Recorded As Received)											
(SUMMER)		Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
1,2,3,4	Alfalfa	-	-	-	-	-	-	-	See Winter	-	-
	S. Fallow	-	-	-	-	-	-	-	Fallow	-	-
5N	Corn, Silage	71.90	0.24	0.08	0.34	-	-	6.06	9-21H66286	10/20/23	Valley Tech
	Corn, Silage	65.70	0.39	0.10	0.41	-	-	5.96	10-10H68665	10/10/23	Valley Tech
6	S. Fallow	-	-	-	-	-	-	-	Fallow	-	-
	Alfalfa	-	-	-	-	-	-	-	See Winter	-	-
7	Corn, Silage	67.10	0.42	0.07	0.39	-	-	5.45	8-7H60644	08/07/23	Valley Tech
	Corn, Silage	65.70	0.40	0.09	0.29	-	-	5.43	8-2H60024	08/02/23	Valley Tech
8,9	Alfalfa	-	-	-	-	-	-	5.34	10-10H68665	10/10/23	Valley Tech
	Corn, Silage	64.40	0.38	0.09	0.37	-	-				
10,11,12	Corn, Silage	67.10	0.42	0.07	0.39	-	-				
	Corn, Silage	65.70	0.40	0.09	0.29	-	-				
14	Alfalfa	-	-	-	-	-	-				
	Corn, Silage	-	-	-	-	-	-				
15	Alfalfa	-	-	-	-	-	-				
	Corn, Silage	-	-	-	-	-	-				

Detectable Limits
Valley Tech
Dellavalle

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
1,2,3,4	Alfalfa	12/1/20	10/1/23	9-14H65433	7.60	3.19	0.33	2.65	-	13.70	Dry Weight
5N	Wheat, Silage	12/15/22	5/20/23	5-23H51006	52.10	0.57	0.11	0.57	-	8.94	Dry Weight
5S	W. Fallow			Fallow	-	-	-	-	-	-	-
6	Wheat, Silage	12/11/22	5/21/23	5-23H51006	55.90	0.55	0.11	0.57	-	9.29	Dry Weight
7	Wheat, Silage	12/13/22	5/23/23	6-6H52640	56.30	0.66	0.10	0.54	-	9.29	Dry Weight
8,9	Alfalfa	3/1/21	10/1/23	9-14H65433	7.00	2.86	0.31	2.48	-	19.10	Dry Weight
10,11,12	W. Fallow			Fallow	-	-	-	-	-	-	-
14	W. Fallow			Fallow	-	-	-	-	-	-	-
15	Wheat, Silage	12/13/22	5/20/23	5-23H51006	55.70	0.58	0.11	0.50	-	10.40	Dry Weight

Detectable Valley Tech
Bellows Falls

0.010%	0.05%	0.01%	0.003%	0.001%	0.0001%
0.010%	0.05%	0.01%	0.003%	0.001%	0.0001%
0.010%	0.05%	0.01%	0.003%	0.001%	0.0001%
0.010%	0.05%	0.01%	0.003%	0.001%	0.0001%
0.010%	0.05%	0.01%	0.003%	0.001%	0.0001%

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
1,2,3,4	Alfalfa			See Winter	-	-	-	-	-	-	-
5N	S. Fallow			Fallow	-	-	-	-	-	-	-
5S	Corn, Silage	6/7/23	9/20/23	9-21H66286	71.90	0.24	0.08	0.34	-	6.06	Dry Weight
6	Corn, Silage	6/21/23	10/5/23	10-10H68665	65.70	0.39	0.10	0.41	-	5.96	Dry Weight
7	S. Fallow			Fallow	-	-	-	-	-	-	-
8,9	Alfalfa			See Winter	-	-	-	-	-	-	-
10,11,12	Corn, Silage	4/18/23	8/3/23	8-7H60544	64.40	0.38	0.09	0.37	-	5.45	Dry Weight
14	Corn, Silage	4/15/23	7/31/23	8-2H60024	67.10	0.42	0.07	0.39	-	5.43	Dry Weight
15	Corn, Silage	6/17/23	10/5/23	10-10H68665	65.70	0.40	0.09	0.29	-	5.34	Dry Weight

Detectable Valley Tech
Dellawalle

Well / Canal Analysis

Well Name/Number	NO3-N (mg/L)	EC (umhos/cm)	TDS (mg/L)	NH4-N (mg/L)	TN (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	HCO3 (mg/L)	CO3 (mg/L)	SO4 (mg/L)	Cl (mg/L)	Lab #:	Date:	LAB
2 Barn	21.10	873	580	-	21.10	-	-	-	-	-	-	-	VI 2340545	1/31/2023	FGI Environmental
3 Backup	35.50	892	610	-	35.50	-	-	-	-	-	-	-	VI 2340545	1/31/2023	FGI Environmental
1	23.90	865	600	-	23.90	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
5	3.30	230	150	-	3.30	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
7	14.80	508	330	-	14.80	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
10 New	3.10	484	330	-	3.10	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
12	14.80	940	600	-	14.80	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
13	0.01	338	230	-	0.01	-	-	-	-	-	-	-	VI 2344168	7/7/2023	FGI Environmental
4	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
6	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
10 Old	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
11	-	-	-	-	-	-	-	-	-	-	-	-	Non-Op		
14	22.20	542	340	-	22.20	-	-	-	-	-	-	-	VI 2343654	6/8/2023	FGI Environmental
15	22.30	538	340	-	22.30	-	-	-	-	-	-	-	VI 2343654	6/8/2023	FGI Environmental
16 New Dorm	30.60	1,140	850	-	30.60	-	-	-	-	-	-	-	VI 2340545	1/31/2023	FGI Environmental
Canal	0.02	51	2	-	-	-	-	-	-	-	-	-	BSK	6/1/2023	Other

Soil Analysis (Winter)

Detectable limits

Debt-to-equity ratio	Valley Tech	0.1	0.1
DellaValle	0.1	0.1	0.1

0.2 0.0015 0.0001%

Soil Analysis (Summer)

Detectable Limits
Valley Tech
DellaValle

Nutrient Import & Export

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

NO
X

Yes, Manifest attached (Attachment D)

- Dry manure nutrient imports entered**
- Process wastewater nutrient imports entered**
- Commercial or other nutrient imports entered**

Total Dry Manure Exported

Total Process Water Exported _____

Process Water & Manure Analysis

Process Water		Quarters:		NH4N (mg/L)		TKN (mg/L)		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)	
1	141.0	303.0	32.0	276.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,620					
2	181.0	319.0	37.2	275.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2,760					
3	138.0	170.0	16.1	155.0	1.0	-	-	4.8	40.2	129.0	0.0	21.3	76.7	4.9	4	2,410																	
4	132.0	140.0	22.3	4.1	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,180							

Detectable Limits

Valley Tech	2.0	5.0	0.1	0.2	0.01	0.05	0.4	0.10	0.9	3	0.01	0.03	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dellavalle	0.2	0.7	0.02	0.2	0.01	0.05	0.4	0.10	0.9	3	0.01	0.03	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Qtr	Sample #:	Sample Date:	Source	Inorg N				Org N				P205				K20				lbs / Acre in						
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
1	3-24L44750	3/24/2023	Valley Tech	32.2	36.7	16.6	75.4																			
2	5-11L49521	5/11/2023	Valley Tech	41.3	31.3	19.3	75.1																			
3	8-17L62125	8/17/2023	Valley Tech	31.5	7.3	8.4	42.3																			
4	10-3L67905	10/16/2023	Valley Tech	30.1	1.8	11.6	1.1																			

Description	Sample #:	Date:	Source	As Is/ Dry Weight				Source				Material Type			
				1	2	3	4	1	2	3	4	1	2	3	4
Manure	5-11M49487	5/11/2023	Dry Weight					Valley Tech				Corral Solids			
Manure	10-3M67864	10/13/2023	Dry Weight					Valley Tech				Corral Solids			

Dry Manure: (as Rec'd)	TN %	TP %	TK %	Ca	Mg	Na	S	Cl	Salt	TFS	Moisture %	
Corral	0.49	0.16	0.78	-	-	-	-	-	-	-	-	34.70
Corral	0.60	0.15	1.12	1.22	0.33	0.35	0.24	0.89	-	74.10	-	44.20

Detectable Limits

Valley Tech	0.01%	0.02%	0.003%	0.001%	0.001%	0.000%	0.000%	0.001%	0.001%
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.000%	0.000%	0.001%	0.001%

Nutrient Applications

Field Name/Number:		1,2,3,4								Acres:		52.00	
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
12/1/20	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
2/10/23	1.00	-	-	-	5.74	-	31.1	-	-	468	-	-	-
3/7/23	1.00	-	-	-	5.44	-	29.5	-	-	444	-	-	-
4/2/23	1.00	-	-	-	5.65	-	30.6	-	-	461	-	-	-
5/5/23	1.00	-	-	-	5.18	-	28.1	-	-	423	-	-	-
6/1/23	1.00	-	-	-	5.57	-	30.2	-	-	454	-	-	-
7/11/23	1.00	-	-	-	5.31	-	28.8	-	-	434	-	-	-
8/7/23	1.00	-	-	-	5.48	-	29.7	-	-	447	-	-	-
9/13/23	1.00	-	-	-	5.61	-	30.4	-	-	458	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(809.7)	(84.5)	(673.6)	-	13.70	-	12.70
Totals:		0.0		0	43.97	0.00	(571)	(84)	(674)	3,590	13.70	0	12.70

Dry Weight
As Received

Field Name/Number: 1,2,3,4Acres: 52

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	238.2	0.0	0.0	3589.6
Nutrients Removed at Harvest	-809.7	-84.5	-673.6	0.0
Nutrient Balance	-571.5	-84.5	-673.6	3589.6

Winter Nitrogen Crop App / Use Ratio: 0.30 Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 1,2,3,4 Acres: 52

Winter Crop	Alfalfa	Applied	N	
W. Manure App.	-	T/Ac	-	-
W. Comm Fert App.	-	lbs/Ac	-	-
Process Water	Q1	-	Ac In /Ac	-
	Q2	-	Ac In /Ac	-
Well Water		43.97	Ac In /Ac	238.2
Canal		-	Ac In /Ac	-
Atm. Depos.		Yes		7.0
W. Planting	12/1/20			
W. Harvest	10/1/23	12.7	T/Ac	(809.7) (193.5) (808.3)

Summer Crop	Alfalfa	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		-	Ac In /Ac	-
Atm. Depos.		#N/A		#N/A
S. Planting	#N/A			
S. Harvest	#N/A	#N/A	T/Ac	#N/A #N/A #N/A

Nutrient Applications

Field Name/Number:

5N

Acres:

40.00

Field Name/Number: 5NAcres: 40.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	251.4	29.7	357.5	2743.6
Nutrients Removed at Harvest	-283.9	-25.0	-237.6	0.0
Nutrient Balance	-32.5	4.7	119.9	2743.6

Winter Nitrogen Crop App / Use Ratio: 0.91Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 5N Acres: 40

Winter Crop	Wheat, Silage	N			
Nutrient Summary :	Applied				
W. Manure App.	12.5 T/Ac	49.0	89.7	233.1	
W. Comm Fert App.	- lbs/Ac	-	-	-	
Process Water	Q1 2.5 Ac In /Ac	122.6	42.2	190.8	
	Q2 1.2 Ac In /Ac	63.1	24.0	93.0	
Well Water	22.4 Ac In /Ac	16.7	-	-	
Canal	- Ac In /Ac	-	-	-	
Atm. Depos.	Yes	7.0	-	-	
W. Planting	12/15/22				
W. Harvest	5/20/23 24.9 T/Ac	(283.9)	(131.1)	(343.5)	

Summer Crop	S. Fallow	N			
Nutrient Summary :	Applied				
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	-	-	-	-
Canal	- Ac In /Ac	-	-	-	-
Atm. Depos.	Yes	7.0	-	-	-
S. Planting	#N/A				
S. Harvest	- #N/A T/Ac	#N/A	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number:

5\$

Acres:

40.00

Field Name/Number: 55Acres: 40.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	151.2	4.1	75.3	2137.2
Nutrients Removed at Harvest	-142.6	-20.3	-167.9	0.0
Nutrient Balance	8.6	-16.1	-92.6	2137.2

Winter Nitrogen Crop App / Use Ratio:

#N/A

Summer Nitrogen Crop App / Use Ratio:

1.11

Field Name/Number:

55

Acres:

40

Winter Crop W. Fallow

Nutrient Summary :		Applied	N
W. Manure App.		-	T/Ac
W. Comm Fert App.		-	lbs/Ac
Process Water	Q1	-	Ac In /Ac
	Q2	-	Ac In /Ac
Well Water		-	Ac In /Ac
Canal		-	Ac In /Ac
Atm. Depos.		Yes	7.0
W. Planting	#N/A		
W. Harvest	1/1/2000	#N/A	T/Ac
			#N/A
			#N/A

Summer Crop Corn, Silage

Nutrient Summary :		Applied	N
S. Manure App.		-	T/Ac
S. Comm Fert App.		-	lbs/Ac
Process Water	Q2	-	Ac In /Ac
	Q3	2.6	Ac In /Ac
	Q4	-	Ac In /Ac
Well Water		35.6	Ac In /Ac
Canal		-	Ac In /Ac
Atm. Depos.		Yes	7.0
S. Planting	6/7/23	29.5	T/Ac
S. Harvest	9/20/23	(142.6)	(106.3)
			(242.7)

Nutrient Applications

Field Name/Number:

6

Aries

80.00

Field Name/Number: 6Acres: 80.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	515.5	17.3	281.0	6432.2
Nutrients Removed at Harvest	-487.3	-47.0	-419.8	0.0
Nutrient Balance	28.2	-29.6	-138.8	6432.2

Winter Nitrogen Crop App / Use Ratio: 1.05

Summer Nitrogen Crop App / Use Ratio: 1.13

Field Name/Number:

6

Acres:

80**Winter Crop** Wheat, Silage

Nutrient Summary :	Applied	N			
W. Manure App.	- T/Ac	-	-	-	-
W. Comm Fert App.	- lbs/Ac	-	-	-	-
Process Water	Q1 2.6 Ac In /Ac	125.9	43.4	195.9	
	Q2 1.3 Ac In /Ac	67.7	25.7	99.7	
Well Water	22.1 Ac In /Ac	74.1			
Canal	- Ac In /Ac	-			
Atm. Depos.	Yes	7.0			
W. Planting	12/11/22				
W. Harvest	5/21/23 24.0 T/Ac	(262.5)	(121.2)	(327.7)	

Summer Crop Corn, Silage

Nutrient Summary :	Applied	N			
S. Manure App.	- T/Ac	-	-	-	-
S. Comm Fert App.	- lbs/Ac	-	-	-	-
Process Water	Q2 - Ac In /Ac	-	-	-	-
	Q3 2.6 Ac In /Ac	126.6	21.9	110.6	
	Q4 - Ac In /Ac	-	-	-	-
Well Water	36.1 Ac In /Ac	121.3			
Canal	- Ac In /Ac	-			
Atm. Depos.	Yes	7.0			
S. Planting	6/21/23				
S. Harvest	10/5/23 28.5 T/Ac	(224.8)	(125.4)	(279.2)	

Nutrient Applications

Field Name/Number:

7

Acres:

125.00

Field Name/Number: 7Acres: 125.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	165.5	0.0	0.0	2080.5
Nutrients Removed at Harvest	-211.8	-13.4	-142.3	0.0
Nutrient Balance	-46.3	-13.4	-142.3	2080.5

Winter Nitrogen Crop App / Use Ratio: 1.19

Summer Nitrogen Crop App / Use Ratio: #N/A

Field Name/Number: 7 Acres: 125

Winter Crop	Wheat, Silage	Applied	N
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	80.0	lbs/Ac	80.0
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water	25.5	Ac In /Ac	165.5
Canal	-	Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	12/13/22		
W. Harvest	5/23/23	15.9 T/Ac	(211.8) (70.2) (205.7)

Summer Crop	S. Fallow	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	-
Canal	-	Ac In /Ac	-
Atm. Depos.	Yes		7.0
S. Planting	#N/A	#N/A T/Ac	#N/A #N/A #N/A
S. Harvest	-		

Nutrient Applications

Field Name/Number:		8.9								Acres:		85.00	
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
3/1/21	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
2/15/23	10 New	-	-	-	5.72	-	4.0	-	-	257	-	-	-
3/11/23	10 New	-	-	-	5.46	-	3.8	-	-	245	-	-	-
4/9/23	10 New	-	-	-	5.55	-	3.9	-	-	249	-	-	-
5/8/23	10 New	-	-	-	5.69	-	4.0	-	-	255	-	-	-
6/8/23	10 New	-	-	-	5.52	-	3.9	-	-	248	-	-	-
7/5/23	10 New	-	-	-	5.58	-	3.9	-	-	250	-	-	-
8/13/23	10 New	-	-	-	5.75	-	4.0	-	-	258	-	-	-
9/2/23	10 New	-	-	-	5.66	-	4.0	-	-	254	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(635.9)	(68.1)	(551.2)	-	13.70	-	11.10
Totals:		0.0		0	44.92	0.00	(604)	(68)	(551)	2,017	13.70	0	11.10

Field Name/Number: 8,9Acres: 85.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	31.6	0.0	0.0	2016.6
Nutrients Removed at Harvest	-635.9	-29.7	-457.6	0.0
Nutrient Balance	-604.3	-29.7	-457.6	2016.6

Winter Nitrogen Crop App / Use Ratio: 0.06

Summer Nitrogen Crop App / Use Ratio: #N/A

Field Name/Number: 8,9Acres: 85

Winter Crop	Alfalfa	Applied	N
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	-	lbs/Ac	-
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water	44.9	Ac In /Ac	31.6
Canal	-	Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	3/1/21		
W. Harvest	10/1/23	11.1 T/Ac	(635.9) (156.0) (661.5)

Summer Crop	Alfalfa	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	-
Canal	-	Ac In /Ac	-
Atm. Depos.	#N/A		#N/A
S. Planting	#N/A		
S. Harvest	#N/A	#N/A T/Ac	#N/A #N/A #N/A

Nutrient Applications

Field Name/Number:

10,11,12

Acres:

110.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TPS	%	Expected Yield (tons/ac)
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	W. Fallow	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/3/23	S. Comm Fert App.	-	-	110	-	-	110.0	-	-	-	-	-	-
4/18/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-
4/30/23	13.00	-	-	-	6.27	-	0.0	-	-	196	-	-	-
5/16/23	13.00	-	-	-	6.37	-	0.0	-	-	199	-	-	-
6/3/23	13.00	-	-	-	6.14	-	0.0	-	-	192	-	-	-
6/21/23	13.00	-	-	-	6.29	-	0.0	-	-	197	-	-	-
7/1/23	13.00	-	-	-	6.25	-	0.0	-	-	195	-	-	-
7/18/23	13.00	-	-	-	6.20	-	0.0	-	-	194	-	-	-
8/3/23	S. Harvest	-	-	-	-	-	(197.2)	(43.8)	(188.0)	-	-	-	25.64
Totals:		0.0		110	37.51	0.00	(87)	(44)	(188)	1,174	0.00	0	25.64

Field Name/Number: 10,11,12Acres: 110.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	110.1	0.0	0.0	1173.9
Nutrients Removed at Harvest	-197.2	-19.1	-156.1	0.0
Nutrient Balance	-87.1	-19.1	-156.1	1173.9

Winter Nitrogen Crop App / Use Ratio: #N/A

Summer Nitrogen Crop App / Use Ratio: 1.15

Field Name/Number: 10,11,12Acres: 110**Winter Crop W. Fallow**

Nutrient Summary :	Applied	N
W. Manure App.	-	T/Ac
W. Comm Fert App.	-	lbs/Ac
Process Water	Q1	Ac In /Ac
	Q2	Ac In /Ac
Well Water		Ac In /Ac
Canal		Ac In /Ac
Atm. Depos.	Yes	7.0
W. Planting	#N/A	
W. Harvest	1/1/2000	#N/A T/Ac #N/A #N/A #N/A

Summer Crop Corn, Silage

Nutrient Summary :	Applied	N
S. Manure App.	-	T/Ac
S. Comm Fert App.	110.0	lbs/Ac
Process Water	Q2	Ac In /Ac
	Q3	Ac In /Ac
	Q4	Ac In /Ac
Well Water	37.5	Ac In /Ac
Canal		Ac In /Ac
Atm. Depos.	Yes	7.0
S. Planting	4/18/23	25.6 T/Ac
S. Harvest	8/3/23	(197.2) (100.3) (225.7)

Nutrient Applications

Field Name/Number:

14

Acres:

80.00

Field Name/Number: 14Acres: 80.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	373.1	15.0	210.4	4170.6
Nutrients Removed at Harvest	-294.5	-21.9	-225.5	0.0
Nutrient Balance	78.5	-7.0	-15.1	4170.6

Winter Nitrogen Crop App / Use Ratio: #N/A

Summer Nitrogen Crop App / Use Ratio: 1.29

Field Name/Number: 14Acres: 80

Winter Crop	W. Fallow	Applied	N
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	-	lbs/Ac	-
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water	-	Ac In /Ac	-
Canal	-	Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	#N/A		
W. Harvest	1/1/2000	#N/A T/Ac	#N/A #N/A #N/A

Summer Crop	Corn, Silage	Applied	N
S. Manure App.	-	T/Ac	-
S. Comm Fert App.	-	lbs/Ac	-
Process Water	Q2	4.1 Ac In /Ac	196.2 78.5 304.2
	Q3	- Ac In /Ac	-
	Q4	- Ac In /Ac	-
Well Water	35.2	Ac In /Ac	176.9
Canal	-	Ac In /Ac	-
Atm. Depos.	Yes		7.0
S. Planting	4/15/23	34.7 T/Ac	(294.5) (115.0) (326.0)
S. Harvest	7/31/23		

Nutrient Applications

Field Name/Number:

15

Acres:

80.00

Field Name/Number: 15Acres: 80.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	617.3	17.5	283.5	6544.6
Nutrients Removed at Harvest	-511.4	-45.8	-341.3	0.0
Nutrient Balance	105.9	-28.3	-57.8	6544.6

Winter Nitrogen Crop App / Use Ratio: 1.13Summer Nitrogen Crop App / Use Ratio: 1.35Field Name/Number: 15Acres: 80

Winter Crop	Wheat, Silage	Applied	N			
W. Manure App.	-	T/Ac	-	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-	-
Process Water	Q1	2.6	Ac In /Ac	127.6	43.9	198.5
	Q2	1.3	Ac In /Ac	67.0	25.5	98.6
Well Water		22.0	Ac In /Ac	111.1		
Canal		-	Ac In /Ac	-		
Atm. Depos.	Yes			7.0		
W. Planting	12/13/22					
W. Harvest	5/20/23	23.8	T/Ac	(276.2)	(120.7)	(285.9)

Summer Crop	Corn, Silage	Applied	N			
S. Manure App.	-	T/Ac	-	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	2.7	Ac In /Ac	128.9	22.3	112.7
	Q4	-	Ac In /Ac	-	-	-
Well Water		36.1	Ac In /Ac	182.7		
Canal		-	Ac In /Ac	-		
Atm. Depos.	Yes			7.0		
S. Planting	6/17/23					
S. Harvest	10/5/23	29.3	T/Ac	(235.2)	(119.7)	(207.4)

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.

 NLR

(Initial)

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

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

Rolland & Noel Rosa

Print Name

Same as owner

Print Name



5/15/24

Date

Signature of Operator of Facility



5/15/24

Date

February 17, 2023

Lab No. : VI 2340545
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 5 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
2 (Barn)	01/31/2023	01/31/2023	VI 2340545-001	DW
3 (Back Up)	01/31/2023	01/31/2023	VI 2340545-002	DW
16 (New Dom)	01/31/2023	01/31/2023	VI 2340545-003	DW

Sampling and Receipt Information:

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

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

Test Summary

EPA 351.2	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
	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.** 
Digital signature by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-02-17

Section: Case Narrative

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

February 17, 2023

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

Description : 2 (Barn)
 Project : W-6 M.F. Rosa

Lab No. : VI 2340545-001
 Customer No. : 4018505

Sampled On : January 31, 2023 at 11:48
 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													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:14	lcr
Nitrate Nitrogen	21.1	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:49	lfs
Nitrogen, Total as Nitrogen	21.1	0.5	mg/L		1		02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:14	lcr
Nitrate + Nitrite as N	21.1	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:49	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:14	lcr
Conductivity	873	1	umhos/cm	1600 ²	1		02/16/2023	14:02	sta		02/16/2023	14:02	sta
Solids, Total Dissolved (TDS)	580	20	mg/L	1000 ²	1		02/02/2023	11:53	ctl	SM 2540 C	02/03/2023	12:53	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

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

Section: Sample Results

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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. 2675

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

February 17, 2023

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

Description : 3 (Back Up)
Project : W-6 M.F. Rosa

Lab No. : VI 2340545-002
Customer No. : 4018505

Sampled On : January 31, 2023 at 11:56
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
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:16	lcr
Nitrate Nitrogen	35.5	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:51	lfs
Nitrogen, Total as Nitrogen	35.5	0.5	mg/L		1		02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:16	lcr
Nitrate + Nitrite as N	35.5	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:51	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:16	lfs
Conductivity	892	1	umhos/cm	1600 ²	1		02/09/2023	14:28	sta		02/12/2023	18:16	lcr
Solids, Total Dissolved (TDS)	610	20	mg/L	1000 ²	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	14:28	sta
DQF Flags Definition:													
U Constituent results were non-detect.													

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

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

Section: Sample Results

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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

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February 17, 2023

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

Description : 16 (New Dom)
Project : W-6 M.F. Rosa

Lab No. : VI 2340545-003

Customer No.: 4018505

Sampled On : January 31, 2023 at 12:06

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													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:19	lcr
Nitrate Nitrogen	30.6	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:54	lfs
Nitrogen, Total as Nitrogen	30.6	0.5	mg/L		1		02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:19	lcr
Nitrate + Nitrite as N	30.6	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	15:54	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	02/08/2023	08:32	sta	EPA 351.2	02/12/2023	18:19	lcr
Conductivity	1140	1	umhos/cm	1600 ²	1		02/09/2023	14:28	sta		02/09/2023	14:28	sta
Solids, Total Dissolved (TDS)	850	20	mg/L	1000 ²	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	12:08	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

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

February 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340545

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	02/09/2023:201372STA (VI 2340831-003)	Blank Dup	umhos/cm umhos/cm		ND 1%	<1 5	
	2510B	02/16/2023:201743STA (VI 2340545-001)	Blank Dup	umhos/cm umhos/cm		ND 0.7%	<1 5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL (SP 2301488-001) (SP 2301488-001)	Blank LCS Dup Dup Blank LCS Dup Dup	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	990.8 990.8	103 % 2.2% 0.4% ND 101 % 0.4% 0.5%	<20 90-110 5 5 <20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	02/08/2023:201373STA (STK2331177-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 93.4% 94.5% 84.4% 7.7% 87.8% 92.4% 5.1%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	02/01/2023:201107LFS (VI 2340568-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 93.8% 90.4% 90.2% 0.1%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	02/01/2023:201107LFS (VI 2340568-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609	ND 93.8% 90.4% 90.2% 0.1%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

**Special****CHAIN OF CUSTODY**AGRICULTURAL
Analytical Chemists

Client: Livingston Dairy Consulting, Inc.		42086:03/01/2022		TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information			
Address: Livingston Dairy Consulting, Inc 1635 E. Prosperity Suite B Tulare, CA 93274							
Phone: (559)687-1440	Fax:						
Contact Person: Noreen Livingston							
Project Name: W-6	M. F. Rosa						
Purchase Order Number:							
Quote Number:	VI 20210208-01						
Sampler(s)	MF/1cc						
Sampling Fee:		Pickup Fee:					
Compositor Setup Date:	/ /	Time:	/				
Lab Number:	VI 2340545	4-18505					
Samp Num	Location Description	Date Sampled	Time Sampled				
1	2 (barn)	1/3/23	11:48	G	1		
2	3 (field up)	1/3/23	11:56	G	1		
3	4 (new down)	1/3/23	12:00	G	1		
4				G	1		
5				G	1		
6				G	1		
7				G	1		
8				G	1		
9				G	1		
10				G	1		
Remarks:		Relinquished Hand Col	Date: 1/3/23 1:33	Time: 1:33	Date: 1/3/23 1:40	Time: 1:40	
Received By:		Date: 1/3/23	Time: 1:33	Date: 1/3/23	Time: 1:40	Date: 1/3/23	Time: 1:40

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
Phone: (805) 392-2000
Env Fax: (805) 525-4172 / Ag Fax: (805) 392-2063

Office & Laboratory
2500 Stagecoach Road
Shoctic, CA 95215
Phone: (209) 942-0182
Fax: (209) 942-0423

Office & Laboratory
563 E. Lindo
Chico, CA 95926
Phone: (530) 343-5818
Fax: (530) 343-3807

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
Phone: (559) 734-9473
Fax: (559) 734-8435

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 # 01 STC

2. Were samples received in a chilled condition? Temps 20 14.3 / / /

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 | |
| 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 | |
| 9. Verify sample date, time and sampler name | Yes | No | |

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): QM

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 20 / / / / /
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: 558722593 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 | |
| 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?
[Exception: Oil & Grease, VOA and CrVI verified in lab] | Yes | No | N/A FGL |
| 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): MIX

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:

(4018505)

Livingston Dairy Consulting, Inc.

VI 2340545

da0 02/01/2023 12:11:50

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



0123456789

July 7, 2023

Lab No. : VI 2343654
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 | (2 pages) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
14	06/08/2023	06/08/2023	VI 2343654-001	AGW
15	06/08/2023	06/08/2023	VI 2343654-002	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** 
 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-07-10

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)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

July 7, 2023

Lab No. : VI 2343654-001

Customer No. : 4018505

Sampled On : June 8, 2023 at 08:01

Sampled By : Marlene Ferreira

Received On : June 8, 2023 at 14:34

Matrix : Ag Water

Description : 14
Project : W-6 M.F. Rosa Dairy

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	06/20/2023	07:26	sta	EPA 351.2	06/22/2023	15:58	lcr
Nitrate Nitrogen	22.2	0.4	mg/L		1		06/09/2023	13:00	lfs	SM 4500-NO3 F	06/09/2023	14:18	lfs
Nitrogen, Total as Nitrogen	22.2	0.5	mg/L		1	1	06/20/2023	07:26	sta	Calc.	06/22/2023	15:58	lcr
Nitrate + Nitrite as N	22.2	0.4	mg/L		1		06/09/2023	13:00	lfs	SM 4500-NO3 F	06/09/2023	14:18	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	06/20/2023	07:26	sta	EPA 351.2	06/22/2023	15:58	lcr
Conductivity	542	1	umhos/cm		1		06/20/2023	15:13	amm	SM 4500-H+B	06/20/2023	16:49	amm
Solids, Total Dissolved (TDS)	340	20	mg/L		1		06/13/2023	11:35	ctl	SM 2540 C	06/14/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

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

July 7, 2023

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

Description : 15
Project : W-6 M.F. Rosa Dairy

Lab No. : VI 2343654-002

Customer No. : 4018505

Sampled On : June 8, 2023 at 08:07

Sampled By : Marlene Ferreira

Received On : June 8, 2023 at 14:34

Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	06/20/2023	07:26	sta	EPA 351.2	06/22/2023	16:00	lcr
Nitrate Nitrogen	22.3	0.4	mg/L		1		06/09/2023	13:00	lfs	SM 4500-NO3 F	06/09/2023	14:21	lfs
Nitrogen, Total as Nitrogen	22.3	0.5	mg/L		1	I	06/20/2023	07:26	sta	Calc.	06/22/2023	16:00	lcr
Nitrate + Nitrite as N	22.3	0.4	mg/L		1		06/09/2023	13:00	lfs	SM 4500-NO3 F	06/09/2023	14:21	lcr
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	06/20/2023	07:26	sta	EPA 351.2	06/22/2023	16:00	lfs
Conductivity	538	1	umhos/cm		1		06/20/2023	15:13	amm	SM 4500-H+B	06/20/2023	19:33	amm
Solids, Total Dissolved (TDS)	340	20	mg/L		1		06/13/2023	11:35	ctl	SM 2540 C	06/14/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.
I The MS/MSD did not meet QC criteria.

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

July 7, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2343654

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(STK2337975-002) (SP 2309644-001)	Dup Dup	umhos/cm umhos/cm		0.1% 0.2%	5 5	
Solids, Total Dissolved	2540CE	06/13/2023:206468CTL	Blank LCS (VI 2343660-003) (VI 2343660-003)	mg/L mg/L mg/L mg/L	993.7	ND 101% 0.1% 1.87%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	06/20/2023:206750STA	Blank LCS MS (VI 2343654-001)	mg/L mg/L mg/L mg/L	12.00	ND 96.8% 40.6% 55.9%	<0.5 73-124 54-136 54-136	435
			MSRPD MS (VI 2343654-002)	mg/L mg/L mg/L	12.00	31.3% 28.5% 31.3%	≤27 54-136 54-136	435
			MSRPD	mg/L	12.00	9.2%	≤27 54-136	435
Nitrate + Nitrite as N	4500NO3F	06/09/2023:206353LFS	Blank LCS MS (VI 2343661-001)	mg/L mg/L mg/L mg/L	11.22	ND 99.2% 97.5% 101%	<0.4 80-120 66-125 66-125	
			MSRPD	mg/L	5.609	3.5%	≤30.4 66-125	
Nitrate Nitrogen	4500NO3F	06/09/2023:206353LFS	Blank LCS MS (VI 2343661-001)	mg/L mg/L mg/L mg/L	11.22	ND 99.2% 97.5% 101%	<0.4 80-120 66-125 66-125	
			MSRPD	mg/L	5.609	3.5%	≤30.4 66-125	

Definition

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

Explanation

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

CHAIN OF CUSTODY

www.fglinc.com

Special



Analytical Chemists



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

Phone: (559) 687-1440 Fax:

Contact Person: Noreen Livingston

Project Name: W-6 M.F. Ross Dairy

Purchase Order Number:

Quote Number: VI 20210208-01

Sampler(s): Martene

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: _____ / _____ / _____ Time: _____ / _____

Lab Number: VI 20243654 4-18505

Samp Num

Location Description

Date Sampled

Time Sampled

Method of Sampling: Composite(C) Grab(G)

Type of Sample

Portable(P) Non-Portable(NP) Ag Water(AGW)

1 14 6/18 8:00AM G Ag Water(AGW)

1 15 6/18 8:00AM G Ag Water(AGW)

1 16 6/18 8:00AM G Ag Water(AGW)

1 17 6/18 8:00AM G Ag Water(AGW)

1 18 6/18 8:00AM G Ag Water(AGW)

1 19 6/18 8:00AM G Ag Water(AGW)

1 20 6/18 8:00AM G Ag Water(AGW)

1 21 6/18 8:00AM G Ag Water(AGW)

1 22 6/18 8:00AM G Ag Water(AGW)

1 23 6/18 8:00AM G Ag Water(AGW)

1 24 6/18 8:00AM G Ag Water(AGW)

1 25 6/18 8:00AM G Ag Water(AGW)

1 26 6/18 8:00AM G Ag Water(AGW)

1 27 6/18 8:00AM G Ag Water(AGW)

1 28 6/18 8:00AM G Ag Water(AGW)

1 29 6/18 8:00AM G Ag Water(AGW)

1 30 6/18 8:00AM G Ag Water(AGW)

1 31 6/18 8:00AM G Ag Water(AGW)

2 14 6/18 8:00AM G Ag Water(AGW)

2 15 6/18 8:00AM G Ag Water(AGW)

2 16 6/18 8:00AM G Ag Water(AGW)

2 17 6/18 8:00AM G Ag Water(AGW)

2 18 6/18 8:00AM G Ag Water(AGW)

2 19 6/18 8:00AM G Ag Water(AGW)

2 20 6/18 8:00AM G Ag Water(AGW)

2 21 6/18 8:00AM G Ag Water(AGW)

2 22 6/18 8:00AM G Ag Water(AGW)

2 23 6/18 8:00AM G Ag Water(AGW)

2 24 6/18 8:00AM G Ag Water(AGW)

2 25 6/18 8:00AM G Ag Water(AGW)

2 26 6/18 8:00AM G Ag Water(AGW)

2 27 6/18 8:00AM G Ag Water(AGW)

2 28 6/18 8:00AM G Ag Water(AGW)

2 29 6/18 8:00AM G Ag Water(AGW)

2 30 6/18 8:00AM G Ag Water(AGW)

3 14 6/18 8:00AM G Ag Water(AGW)

3 15 6/18 8:00AM G Ag Water(AGW)

3 16 6/18 8:00AM G Ag Water(AGW)

3 17 6/18 8:00AM G Ag Water(AGW)

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3 24 6/18 8:00AM G Ag Water(AGW)

3 25 6/18 8:00AM G Ag Water(AGW)

3 26 6/18 8:00AM G Ag Water(AGW)

3 27 6/18 8:00AM G Ag Water(AGW)

3 28 6/18 8:00AM G Ag Water(AGW)

3 29 6/18 8:00AM G Ag Water(AGW)

3 30 6/18 8:00AM G Ag Water(AGW)

4 14 6/18 8:00AM G Ag Water(AGW)

4 15 6/18 8:00AM G Ag Water(AGW)

4 16 6/18 8:00AM G Ag Water(AGW)

4 17 6/18 8:00AM G Ag Water(AGW)

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4 19 6/18 8:00AM G Ag Water(AGW)

4 20 6/18 8:00AM G Ag Water(AGW)

4 21 6/18 8:00AM G Ag Water(AGW)

4 22 6/18 8:00AM G Ag Water(AGW)

4 23 6/18 8:00AM G Ag Water(AGW)

4 24 6/18 8:00AM G Ag Water(AGW)

4 25 6/18 8:00AM G Ag Water(AGW)

4 26 6/18 8:00AM G Ag Water(AGW)

4 27 6/18 8:00AM G Ag Water(AGW)

4 28 6/18 8:00AM G Ag Water(AGW)

4 29 6/18 8:00AM G Ag Water(AGW)

4 30 6/18 8:00AM G Ag Water(AGW)

5 14 6/18 8:00AM G Ag Water(AGW)

5 15 6/18 8:00AM G Ag Water(AGW)

5 16 6/18 8:00AM G Ag Water(AGW)

5 17 6/18 8:00AM G Ag Water(AGW)

5 18 6/18 8:00AM G Ag Water(AGW)

5 19 6/18 8:00AM G Ag Water(AGW)

5 20 6/18 8:00AM G Ag Water(AGW)

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5 22 6/18 8:00AM G Ag Water(AGW)

5 23 6/18 8:00AM G Ag Water(AGW)

5 24 6/18 8:00AM G Ag Water(AGW)

5 25 6/18 8:00AM G Ag Water(AGW)

5 26 6/18 8:00AM G Ag Water(AGW)

5 27 6/18 8:00AM G Ag Water(AGW)

5 28 6/18 8:00AM G Ag Water(AGW)

5 29 6/18 8:00AM G Ag Water(AGW)

5 30 6/18 8:00AM G Ag Water(AGW)

6 14 6/18 8:00AM G Ag Water(AGW)

6 15 6/18 8:00AM G Ag Water(AGW)

6 16 6/18 8:00AM G Ag Water(AGW)

6 17 6/18 8:00AM G Ag Water(AGW)

6 18 6/18 8:00AM G Ag Water(AGW)

6 19 6/18 8:00AM G Ag Water(AGW)

6 20 6/18 8:00AM G Ag Water(AGW)

6 21 6/18 8:00AM G Ag Water(AGW)

6 22 6/18 8:00AM G Ag Water(AGW)

6 23 6/18 8:00AM G Ag Water(AGW)

6 24 6/18 8:00AM G Ag Water(AGW)

6 25 6/18 8:00AM G Ag Water(AGW)

6 26 6/18 8:00AM G Ag Water(AGW)

6 27 6/18 8:00AM G Ag Water(AGW)

6 28 6/18 8:00AM G Ag Water(AGW)

6 29 6/18 8:00AM G Ag Water(AGW)

6 30 6/18 8:00AM G Ag Water(AGW)

7 14 6/18 8:00AM G Ag Water(AGW)

7 15 6/18 8:00AM G Ag Water(AGW)

7 16 6/18 8:00AM G Ag Water(AGW)

7 17 6/18 8:00AM G Ag Water(AGW)

7 18 6/18 8:00AM G Ag Water(AGW)

7 19 6/18 8:00AM G Ag Water(AGW)

7 20 6/18 8:00AM G Ag Water(AGW)

7 21 6/18 8:00AM G Ag Water(AGW)

7 22 6/18 8:00AM G Ag Water(AGW)

7 23 6/18 8:00AM G Ag Water(AGW)

7 24 6/18 8:00AM G Ag Water(AGW)

7 25 6/18 8:00AM G Ag Water(AGW)

7 26 6/18 8:00AM G Ag Water(AGW)

7 27 6/18 8:00AM G Ag Water(AGW)

7 28 6/18 8:00AM G Ag Water(AGW)

7 29 6/18 8:00AM G Ag Water(AGW)

7 30 6/18 8:00AM G Ag Water(AGW)

8 14 6/18 8:00AM G Ag Water(AGW)

8 15 6/18 8:00AM G Ag Water(AGW)

8 16 6/18 8:00AM G Ag Water(AGW)

8 17 6/18 8:00AM G Ag Water(AGW)

8 18 6/18 8:00AM G Ag Water(AGW)

8 19 6/18 8:00AM G Ag Water(AGW)

8 20 6/18 8:00AM G Ag Water(AGW)

8 21 6/18 8:00AM G Ag Water(AGW)

8 22 6/18 8:00AM G Ag Water(AGW)

8 23 6/18 8:00AM G Ag Water(AGW)

8 24 6/18 8:00AM G Ag Water(AGW)

8 25 6/18 8:00AM G Ag Water(AGW)

8 26 6/18 8:00AM G Ag Water(AGW)

8 27 6/18 8:00AM G Ag Water(AGW)

8 28 6/18 8:00AM G Ag Water(AGW)

8 29 6/18 8:00AM G Ag Water(AGW)

8 30 6/18 8:00AM G Ag Water(AGW)

9 14 6/18 8:00AM G Ag Water(AGW)

9 15 6/18 8:00AM G Ag Water(AGW)

9 16 6/18 8:00AM G Ag Water(AGW)

9 17 6/18 8:00AM G Ag Water(AGW)

9 18 6/18 8:00AM G Ag Water(AGW)

9 19 6/18 8:00AM G Ag Water(AGW)

9 20 6/18 8:00AM G Ag Water(AGW)

9 21 6/18 8:00AM G Ag Water(AGW)

9 22 6/18 8:00AM G Ag Water(AGW)

9 23 6/18 8:00AM G Ag Water(AGW)

9 24 6/18 8:00AM G Ag Water(AGW)

9 25 6/18 8:00AM G Ag Water(AGW)

9 26 6/18 8:00AM G Ag Water(AGW)

9 27 6/18 8:00AM G Ag Water(AGW)

9 28 6/18 8:00AM G Ag Water(AGW)

9 29 6/18 8:00AM G Ag Water(AGW)

9 30 6/18 8:00AM G Ag Water(AGW)

10 14 6/18 8:00AM G Ag Water(AGW)

10 15 6/18 8:00AM G Ag Water(AGW)

10 16 6/18 8:00AM G Ag Water(AGW)

10 17 6/18 8:00AM G Ag Water(AGW)

10 18 6/18 8:00AM G Ag Water(AGW)

10 19 6/18 8:00AM G Ag Water(AGW)

10 20 6/18 8:00AM G Ag Water(AGW)

10 21 6/18 8:00AM G Ag Water(AGW)

10 22 6/18 8:00AM G Ag Water(AGW)

10 23 6/18 8:00AM G Ag Water(AGW)

10 24 6/18 8:00AM G Ag Water(AGW)

10 25 6/18 8:00AM G Ag Water(AGW)

10 26 6/18 8:00AM G Ag Water(AGW)

10 27 6/18 8:00AM G Ag Water(AGW)

10 28 6/18 8:00AM G Ag Water(AGW)

10 29 6/18 8:00AM G Ag Water(AGW)

10 30 6/18 8:00AM G Ag Water(AGW)

Remarks: *Mark J. A.*

Date: *6/18/23*

Time: *14:34*

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: 1C / 16.9 / / /

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 | |
| 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 | |
| 9. Verify sample date, time and sampler name | Yes | No | |

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): MDL

Sample Receipt at SP:

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

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: 559556833

836

- | | | | |
|---|-----|----|-----|
| 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 | |
| 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?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | Yes | No | N/A | FGL |
| 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 | | |

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

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

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: _____

(4018505)

Problem:

Resolution:

Livingston Dairy Consulting, Inc.

VI 2343654

cda 06/08/2023 16:48:21

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



11 2343654

July 31, 2023

Lab No. : VI 2344168
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 9 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(6 pages)	: 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 #1	07/07/2023	07/07/2023	VI 2344168-001	AGW
Well #5	07/07/2023	07/07/2023	VI 2344168-002	AGW
Well #7	07/07/2023	07/07/2023	VI 2344168-003	AGW
10 New	07/07/2023	07/07/2023	VI 2344168-004	AGW
12	07/07/2023	07/07/2023	VI 2344168-005	AGW
13	07/07/2023	07/07/2023	VI 2344168-006	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

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

Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-08-01

Section: Case Narrative

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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

July 31, 2023

Lab No. : VI 2344168-001

Customer No.: 4018505

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

Sampled On : July 7, 2023 at 06:22

Sampled By : Noreen / Marlene

Received On : July 7, 2023 at 11:39

Matrix : Ag Water

Description : Well #1
 Project : W-6 M.F. Rosa

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:03	lcr
Nitrate Nitrogen	23.9	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:34	lfs
Nitrogen, Total as Nitrogen	23.9	0.5	mg/L		1		07/25/2023	10:41	sta	Calc.	07/28/2023	19:03	lcr
Nitrate + Nitrite as N	23.9	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:34	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:03	lcr
Conductivity	865	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	15:49	amm
Solids, Total Dissolved (TDS)	600	20	mg/L		1	I	07/11/2023	10:45	ctl	SM 2540 C	07/12/2023	12:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

July 31, 2023

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

Lab No. : VI 2344168-002
 Customer No. : 4018505

Sampled On : July 7, 2023 at 06:27
 Sampled By : Noreen / Marlene
 Received On : July 7, 2023 at 11:39
 Matrix : Ag Water

Description : Well #5
 Project : W-6 M.F. Rosa

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:06	lcr
Nitrate Nitrogen	3.3	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:36	lfs
Nitrogen, Total as Nitrogen	3.3	0.5	mg/L		1		07/25/2023	10:41	sta	Calc.	07/28/2023	19:06	lcr
Nitrate + Nitrite as N	3.3	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:06	lcr
Conductivity	230	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	18:47	amm
Solids, Total Dissolved (TDS)	150	20	mg/L		1		07/12/2023	11:45	ctl	SM 2540 C	07/13/2023	11:15	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

Section: Sample Results

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Corporate Offices & Laboratory

853 Corporation Street
 Santa Paula, CA 93060
 TEL: (805)392-2000
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 CA ELAP Certification No. 2670

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 TEL: (559)734-9473
 FAX: (559)734-8435
 CA ELAP Certification No. 2810

July 31, 2023

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

Lab No. : VI 2344168-003

Customer No. : 4018505

Sampled On : July 7, 2023 at 06:32

Sampled By : Noreen / Marlene

Received On : July 7, 2023 at 11:39

Matrix : Ag Water

Description : Well #7
 Project : W-6 M.F. Rosa

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:18	lcr
Nitrate Nitrogen	14.8	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:38	lfs
Nitrogen, Total as Nitrogen	14.8	0.5	mg/L		1		07/25/2023	10:41	sta	Calc.	07/28/2023	19:18	lcr
Nitrate + Nitrite as N	14.8	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:38	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:18	lcr
Conductivity	508	1	umhos/cm		1		07/18/2023	14:57	amm	SM 4500-H+B	07/18/2023	21:21	amm
Solids, Total Dissolved (TDS)	330	20	mg/L		1		07/12/2023	10:55	ctl	SM 2540 C	07/13/2023	11:15	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

July 31, 2023

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

Description : 10 New
Project : W-6 M.F. Rosa

Lab No. : VI 2344168-004

Customer No. : 4018505

Sampled On : July 7, 2023 at 07:17

Sampled By : Noreen / Marlene

Received On : July 7, 2023 at 11:39

Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:20	lcr
Nitrate Nitrogen	3.1	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:41	lfs
Nitrogen, Total as Nitrogen	3.1	0.5	mg/L		1		07/25/2023	10:41	sta	Calc.	07/28/2023	19:20	lcr
Nitrate + Nitrite as N	3.1	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:41	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:20	lfs
Conductivity	484	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	19:01	amm
Solids, Total Dissolved (TDS)	330	20	mg/L		1	I	07/11/2023	10:45	ctl	SM 2540 C	07/12/2023	12:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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July 31, 2023

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

Description : 12
Project : W-6 M.F. Rosa

Lab No. : VI 2344168-005

Customer No. : 4018505

Sampled On : July 7, 2023 at 07:22

Sampled By : Noreen / Marlene

Received On : July 7, 2023 at 11:39

Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:22	lcr
Nitrate Nitrogen	14.8	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:43	lfs
Nitrogen, Total as Nitrogen	14.8	0.5	mg/L		1		07/25/2023	10:41	sta	Calc.	07/28/2023	19:22	lcr
Nitrate + Nitrite as N	14.8	0.4	mg/L		1		07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:43	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:22	lcr
Conductivity	940	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	19:13	amm
Solids, Total Dissolved (TDS)	600	20	mg/L		1	I	07/11/2023	10:45	ctl	SM 2540 C	07/12/2023	12:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

July 31, 2023

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

Lab No. : VI 2344168-006
Customer No.: 4018505

Sampled On : July 7, 2023 at 07:27
Sampled By : Noreen / Marlene
Received On : July 7, 2023 at 11:39
Matrix : Ag Water

Description : 13
Project : W-6 M.F. Rosa

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:25	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:46	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	Calc.	07/28/2023	19:25	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	07/14/2023	11:00	lfs	SM 4500-NO3 F	07/14/2023	12:46	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/25/2023	10:41	sta	EPA 351.2	07/28/2023	19:25	lcr
Conductivity	338	1	umhos/cm		1		07/12/2023	14:47	amm	SM 4500-H+B	07/12/2023	19:22	amm
Solids, Total Dissolved (TDS)	230	20	mg/L		1	I	07/11/2023	10:45	ctl	SM 2540 C	07/12/2023	12:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

July 31, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344168

Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(SP 2311379-001) (VI 2344111-007) (VI 2344170-001)	Dup	umhos/cm		0.2%	5	
			Dup	umhos/cm		0.6%	5	
			Dup	umhos/cm		0.2%	5	
Solids, Total Dissolved	2320B	(VI 2344169-001)	Dup	umhos/cm		0.2%	5	
	2540CE	07/11/2023:207527CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	98.8%	90-110	
		(VI 2344180-001)	Dup	mg/L		7.98%	5	440
		(VI 2344180-001)	Dup	mg/L		0.1%	5	
	2540CE	07/12/2023:207626CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	98.9%	90-110	
		(SP 2311661-001)	Dup	mg/L		0.8%	5	
		(SP 2311661-001)	Dup	mg/L		1.82%	5	
			Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	98.9%	90-110	
		(SP 2311707-003)	Dup	mg/L		3.37%	5	
		(SP 2311707-003)	Dup	mg/L		0.2%	5	
Nitrogen, Total Kjeldahl	351.2	07/25/2023:208151STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	96.1%	73-124	
			MS	mg/L	12.00	95.7%	54-136	
		(SP 2311637-004)	MSD	mg/L	12.00	94.8%	54-136	
			MSRPD	mg/L		0.8%	≤27	
			MS	mg/L	12.00	79.9%	54-136	
		(STK2338896-006)	MSD	mg/L	12.00	81.9%	54-136	
			MSRPD	mg/L		2.5%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/14/2023:207745LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	93.6%	66-125	
		(CH 2375111-001)	MSD	mg/L	5.609	95.4%	66-125	
			MSRPD	mg/L		1.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/14/2023:207745LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	93.6%	66-125	
		(CH 2375111-001)	MSD	mg/L	5.609	95.4%	66-125	
			MSRPD	mg/L		1.1%	≤30.4	

Definition

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

Explanation

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

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

- Number of ice chests/packages received: 1 Shipping tracking # OTC
- Were samples received in a chilled condition? Temps: 20.1 / 5.9 / / /
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.
- Do the number of bottles received agree with the COC? Yes No N/A
- Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
- VOAs checked for Headspace? Yes No N/A
- Were sample custody seals intact? Yes No N/A
- If required, was sample split for pH analysis? Yes No N/A
- Were all analyses within holding times at time of receipt? Yes No N/A
- 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): SRO

Sample Receipt at SP:

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

559726594 / 85

- Do the number of bottles received agree with the COC? Yes No N/A
- Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
- 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:

- Were all requested analyses understood and acceptable? Yes No
- Did bottle labels correspond with the client's ID's? Yes No
- Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
- VOAs checked for Headspace? Yes No N/A
- Have rush or project due dates been checked and accepted? Yes No N/A
- 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): CDA

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: _____

Problem:

Resolution:

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

(4018505)
Livingston Dairy Consulting, Inc.

VI 2344168

mdc 07/07/2023 12:56:51



U1 2344168

2344168

2023 KINGS RIVER WATERSHED CANAL RESULTS

LEMOORE WEIR



Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Name: M.F. Rosa Dairy
10090 2nd Ave., Hanford
Kings 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 Analysis Plan for more detailed descriptions.

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

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 21, 2024

Re: 2023 NMP

M.F. Rosa Dairy WDID5D165068N01
10090 2nd Avenue Hanford, CA 93230

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 **0.73**
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.

