Livingston Dairy Consulting, Inc.

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

M Bar 9 Dairy
8083 Ave. 160, Tipton

[X]	Annual Report
[X]	Water Analysis Samples
[X]	Manure Manifest
[N/A]	Facility / Land Map
[N/A]	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 Bar 9 Dairy
Facility Address: 8083 Ave. 160, Tipton
Original Operation Date: 11/1/2011
Facility APN's: x228 x240 x004 xxxx
RWQCB Basin Plan Designation: Tulare Lake Basin

☐ Check if any information has changed

Owner(s)

Owner(s) Name: KSB LP
Mailing Address: 31974 Cecil Ave., Delano
Home Phone Number: 661-721-1802
Cell Phone Number:

☐ Check if any information has changed

Operator(s)

Operator(s) Name: M Bar 9 Dairy
Mailing Address: 16777 South I Drive, Tulare
Home Phone Number: 559-752-4727
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:	-	153	613	317	3,552
Number Under Roof	988	-	-	-	-
Maximum Number	988	153	613	317	3,552
Average Number	988	153	613	317	3,552
Average Live Weight (lbs)	950	975	660	370	

Average Milk Production: 55

Predominant Milk Cow Breed: Jersey

Manure Generated:

Total manure excreted by the herd:	5,062.69	@40% Moisture	*ton/yr*
Total nitrogen from manure:	402,726		*lbs*
	39,120		*lbs*
	113,208		*lbs*
Total salt from manure:	-		*lbs*

After Ammonia (30% loss applied)

281,908 *lbs per reporting period*

Process Wastewater Generated:

Process wastewater generated:	14,424,800	*gal*
Total nitrogen generated:	45,178	*lbs*
	15,126	*lbs*
	54,912	*lbs*
Total salt (TDS) generated:	428,359	*lbs*

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
1	x228 x240 x017 xxxx	124	101	2	P.W. & D.M.
2	x228 x240 x004 xxxx	80	43	2	P.W. & D.M.
3	x228 x240 x008 xxxx	80	76	2	P.W. & D.M.
Total Crop Acres			220.00		

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources
Dom 1	Ground Water	No
Dom 2	Ground Water	No
Dom 3	Ground Water	No
1	Ground Water	No
2	Ground Water	No
3	Ground Water	No
4	Ground Water	No
Canal	Surface Water	No

(WINTER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	**Crop**	**Moist %**	**N%**	**TP %**	**TK%**	**Salt**	**TFS**	**Sample #:**	**Date:**	**Source**
1	Wheat, Silage	59.90	0.51	0.11	0.58	-	9.72	5-31H51783	05/31/23	Valley Tech
2	Wheat, Silage	60.30	0.49	0.11	0.44	-	8.63	5-31H51783	05/31/23	Valley Tech
3	Wheat, Silage	60.20	0.57	0.12	0.53	-	9.43	5-31H51783	05/31/23	Valley Tech

Detectable Lim	*Valley Tech*	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
	Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*
Detectable Limits						
Valley Tech		*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*
Dellavalle		*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	**Crop**	**Moist %**	**N%**	**TP %**	**TK%**	**Salt**	**TFS**	**Sample #:**	**Date:**	**Source**
1	Corn, Silage	71.10	0.38	0.07	0.50	-	6.80	10-16H70184	12/01/23	Valley Tech
2	Milo	80.50	0.27	0.04	0.27	-	12.20	11-8H72226	11/08/23	Valley Tech
3	Corn, Silage	66.50	0.34	0.09	0.32	-	5.05	11-8H72224	11/08/23	Valley Tech

Detectable Limits						
Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*	*0.05%*	
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*	*0.001%*	

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	Wheat, Silage	11/5/22	5/24/23	5-31H51783	59.90	0.51	0.11	0.58	-	9.72	Dry Weight
2	Wheat, Silage	11/9/22	5/27/23	5-31H51783	60.30	0.49	0.11	0.44	-	8.63	Dry Weight
3	Wheat, Silage	10/22/22	5/27/23	5-31H51783	60.20	0.57	0.12	0.53	-	9.43	Dry Weight

Detectable L Valley Tech	*0.10%*	*0.05%*	*0.01%*	*0.01%*		*0.05%*	
Dellavalle	*0.001%*	*0.01%*	*0.01%*	*0.003%*		*0.001%*	

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg//kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
1	Corn, Silage	6/16/23	10/16/23	10-16H70184	71.10	0.38	0.07	0.50	-	6.80	Dry Weight
2	Milo	7/14/23	10/31/23	11-8H72226	80.50	0.27	0.04	0.27	-	12.20	Dry Weight
3	Corn, Silage	7/13/23	11/1/23	11-8H72224	66.50	0.34	0.09	0.32	-	5.05	Dry Weight

Detectable L Valley Tech *0.10%* *0.05%* *0.01%* *0.01%* *0.05%*

Dellavalle *0.001%* *0.01%* *0.01%* *0.003%* *0.001%*

Well / Canal Analysis

General Minerals

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
Dom 1	29.20	1,280	830	-	29.20	-	-	-	-	-	-	-	VI 2340550	1/31/2023	FGL Enviromental
Dom 2	28.50	1,270	800	-	28.50	-	-	-	-	-	-	-	VI 2340550	1/31/2023	FGL Enviromental
Dom 3	29.60	1,250	780	-	29.60	-	-	-	-	-	-	-	VI 2340550	1/31/2023	FGL Enviromental
1	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
2	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
3	59.00	1,250	940	-	59.00	-	-	-	-	-	-	-	VI 2344714	7/20/2023	FGL Enviromental
4	-	-	-	-	-	-	-	-	-	-	-	-	Used Canal		
Canal	0.01	138	37	-	-	-	-	-	-	-	-	-	558TRA144	7/18/2023	Other

Detectable Limits												
Dellavalle	*0.01*	*1*	*10*	*0.2*	*NR*	*0.1*	*0.1*	*0.15*	*3*	*0.9*	*0.03*	*0.03*
FGL Enviromental	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
Valley Tech	*0.1*	*1*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*	*NR*

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
1	58.1	33.10	90.30	499.00	1.22	8.26	11-03S71877	11/03/23	Valley Tech
2	9.9	6.40	9.10	768.00	0.79	1.24	11-03S71877	11/03/23	Valley Tech
3	33.7	12.10	97.70	1,020.00	1.23	4.60	11-03S71877	11/03/23	Valley Tech

Detectable Limits						
Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*0.2*	*0.0015*	*0.0001%*

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
1	-	-	-	-	-	-			-
2	-	-	-	-	-	-			-
3	-	-	-	-	-	-			-

Detectable Limits

Valley Tech	*0.1*	*0.1*				
DellaValle	*0.1*	*0.1*	*1.1*	*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?

___ No

X Yes, Manifest attached (Attachment D)

Total Dry Manure Exported: 4,100

Nutrient Import

No Dry manure nutient imports entered

No Process wastewater nutrient imports entered

Total Process Water Exported:

No Commerical or other nutrient imports entered

Field Name	Type of Manure Applied	As Is / Dry Weight	Source

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	154.0	418.0	54.4	486.0	1.0	-	-	-	-	-	-	-	-	4	2,890
2	170.0	308.0	47.7	376.0	1.0	-	-	-	-	-	-	-	-	4	2,850
3	175.0	194.0	23.5	195.0	1.0	-	0.0	40.5	63.6	0.0	20.4	50.4	3.1	4	2,550
4	144.0	160.0	32.2	36.9	1.0	-	-	-	-	-	-	-	-	-	1,950
Detectable Limits															
Valley Tech	2.0	5.0	0.1	0.2										0.10	10
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	10

				Inorg N	Org N	P2O5	K2O
Qtr	Sample #:	Sample Date:	Source	lbs / Ac In			
1	3-24L44740	3/24/2023	Valley Tech	35.1	59.8	28.3	132.7
2	5-11L49516	5/11/2023	Valley Tech	38.8	31.3	24.8	102.7
3	8-17L62135	8/17/2023	Valley Tech	39.9	4.3	12.2	53.2
4	10-3L67891	10/16/2023	Valley Tech	32.9	3.6	16.7	10.1

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type
Manure	5-11M49466	5/11/2023	Dry Weight	Valley Tech	Corral Solids
Manure	10-3M67879	10/13/2023	Dry Weight	Valley Tech	Corral Solids

Dry Manure: (As Recv'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.17	0.35	1.20	-	-	-	-	-	-	-	48.50
Corral	1.21	0.42	1.04	1.56	0.58	0.21	0.33	0.63	-	38.20	49.70
Detectable Limits											
Valley Tech	0.01%	0.02%	0.02%								
Dellavalle	0.01%	0.01%	0.003%	0.001%	0.001%	0.001%	0.001%	0.000%		0.001%	0.001%

Nutrient Applications

Field Name/Number: 1 **Acres:** 101.00

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)
	-	-	-	-	-	-	-	-	-	-	-		-
11/5/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/8/23	Canal	-	-	-	5.51	-	0.0	-	-	28	-		-
2/8/23	Process Water	-	-	-	-	1.61	106.9	19.8	177.1	1,053	-		-
3/19/23	Canal	-	-	-	5.41	-	0.0	-	-	27	-		-
3/19/23	Process Water	-	-	-	-	1.58	104.9	19.4	173.8	1,033	-		-
4/28/23	Canal	-	-	-	5.54	-	0.0	-	-	28	-		-
4/28/23	Process Water	-	-	-	-	1.62	79.2	17.5	137.7	1,044	-		-
5/24/23	W. Harvest	-	-	-	-	-	(217.9)	(48.0)	(248.8)	-	9.72		21.40
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
5/28/23	S. Manure App.	5.94	-	-	-	-	57.6	50.2	123.1	-	-		-
6/1/23	Canal	-	-	-	6.12	-	0.0	-	-	31	-		-
6/16/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
6/18/23	Canal	-	-	-	5.46	-	0.0	-	-	27	-		-
6/18/23	Process Water	-	-	-	-	1.59	78.1	17.2	135.7	1,029	-		-
7/22/23	Canal	-	-	-	5.38	-	0.0	-	-	27	-		-
7/22/23	Process Water	-	-	-	-	1.57	48.6	8.4	69.4	907	-		-
8/16/23	Canal	-	-	-	5.49	-	0.0	-	-	28	-		-
8/16/23	Process Water	-	-	-	-	1.60	49.5	8.5	70.7	925	-		-
9/23/23	Canal	-	-	-	6.30	-	0.0	-	-	32	-		-
10/16/23	S. Harvest	-	-	-	-	-	(180.9)	(33.4)	(240.7)	-	6.80		24.07
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		5.9		0	45.20	9.56	126	60	398	6,219	16.52	0	45.47

Dry Weight
As Received

Field Name/Number: 1 **Acres:** 101

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	524.9	141.1	887.5	6219.2
Nutrients Removed at Harvest	-398.8	-81.4	-489.5	0.0
Nutrient Balance	126.1	59.6	398.0	6219.2

Winter Nitrogen Crop App / Use Ratio: 1.37 **Summer Nitrogen Crop App / Use Ratio:** 1.33

Field Name/Number: 1 **Acres:** 101

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	3.2	Ac In /Ac	211.8	89.9	421.1
	Q2	1.6	Ac In /Ac	79.2	40.0	165.2
Well Water		-	Ac In /Ac	-		
Canal		16.5	Ac In /Ac	0.0		
Atm. Depos.		Yes		7.0		
W. Planting	11/5/22					
W. Harvest	5/24/23	21.4	T/Ac	(217.9)	(110.0)	(298.6)

Summer Crop **Corn, Silage**

Nutrient Summary :		Applied		N		
S. Manure App.		5.9	T/Ac	57.6	115.0	147.7
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	1.6	Ac In /Ac	78.1	39.4	162.9
	Q3	3.2	Ac In /Ac	98.1	38.7	168.1
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-1.97E-14		
Canal		28.7	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	6/16/23					
S. Harvest	10/16/23	24.1	T/Ac	(180.9)	(76.5)	(288.8)

Nutrient Applications

Field Name/Number: 2 **Acres:** 43.00

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)
	-	-	-	-	-	-	-	-	-	-	-		-
11/9/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/14/23	Canal	-	-	-	5.55	-	0.0	-	-	28	-		-
2/14/23	Process Water	-	-	-	-	1.62	107.6	20.0	178.3	1,060	-		-
3/15/23	Canal	-	-	-	5.30	-	0.0	-	-	27	-		-
3/15/23	Process Water	-	-	-	-	1.55	102.8	19.1	170.4	1,013	-		-
4/26/23	Canal	-	-	-	6.35	-	0.0	-	-	32	-		-
5/27/23	W. Harvest	-	-	-	-	-	(208.7)	(45.8)	(186.7)	-	9.72		21.37
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/1/23	Canal	-	-	-	6.47	-	0.0	-	-	33	-		-
7/14/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/16/23	Canal	-	-	-	5.43	-	0.0	-	-	27	-		-
7/16/23	Process Water	-	-	-	-	1.58	49.0	8.4	70.0	915	-		-
8/11/23	Canal	-	-	-	5.24	-	0.0	-	-	26	-		-
8/11/23	Process Water	-	-	-	-	1.53	47.3	8.1	67.6	884	-		-
9/2/23	Canal	-	-	-	5.49	-	0.0	-	-	28	-		-
9/2/23	Process Water	-	-	-	-	1.60	49.5	8.5	70.7	925	-		-
9/24/23	Canal	-	-	-	6.29	-	0.0	-	-	32	-		-
10/14/23	Canal	-	-	-	6.41	-	0.0	-	-	32	-		-
10/31/23	S. Harvest	-	-	-	-	-	(128.9)	(18.4)	(128.9)	-	6.80		23.60
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	52.53	7.88	19	(0)	241	5,062	16.52	0	44.98

Field Name/Number: 2 **Acres:** 43.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	356.4	28.0	462.3	5061.7
Nutrients Removed at Harvest	-337.6	-28.0	-261.9	0.0
Nutrient Balance	18.8	0.0	200.4	5061.7

Winter Nitrogen Crop App / Use Ratio: 1.04 **Summer Nitrogen Crop App / Use Ratio:** 1.19

Field Name/Number: 2 **Acres:** 43

Winter Crop **Wheat, Silage**

Nutrient Summary :		**Applied**		**N**		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	3.2	Ac In /Ac	210.4	89.4	418.4
	Q2	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	-		
Canal		17.2	Ac In /Ac	0.0		
Atm. Depos.		Yes		7.0		
W. Planting	11/9/22					
W. Harvest	5/27/23	21.4	T/Ac	(208.7)	(104.9)	(224.0)

Summer Crop **Milo**

Nutrient Summary :		**Applied**		**N**		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	4.7	Ac In /Ac	145.8	57.5	249.9
	Q4	-	Ac In /Ac	-	-	-
Well Water		-	Ac In /Ac	(0.0)		
Canal		35.3	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	7/14/23					
S. Harvest	10/31/23	23.6	T/Ac	(128.9)	(42.2)	(154.7)

Nutrient Applications

Field Name/Number: 3 **Acres:** 76.00

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)
	-	-	-	-	-	-	-	-	-	-	-		-
10/22/22	W. Planting	-	-	-	-	-	-	-	-	-	-		-
2/14/23	Canal	-	-	-	5.23	-	0.0	-	-	26	-		-
2/14/23	Process Water	-	-	-	-	1.53	101.5	18.8	168.1	1,000	-		-
3/15/23	Canal	-	-	-	5.37	-	0.0	-	-	27	-		-
3/15/23	Process Water	-	-	-	-	1.57	104.2	19.3	172.6	1,027	-		-
4/26/23	Canal	-	-	-	5.27	-	0.0	-	-	27	-		-
4/26/23	Process Water	-	-	-	-	1.54	75.3	16.6	131.0	993	-		-
5/15/23	Canal	-	-	-	6.24	-	0.0	-	-	31	-		-
5/27/23	W. Harvest	-	-	-	-	-	(245.4)	(52.8)	(226.6)	-	9.72		21.41
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
7/1/23	Canal	-	-	-	6.35	-	0.0	-	-	32	-		-
7/13/23	S. Planting	-	-	-	-	-	-	-	-	-	-		-
7/16/23	Canal	-	-	-	5.55	-	0.0	-	-	28	-		-
7/16/23	Process Water	-	-	-	-	1.62	50.1	8.6	71.5	935	-		-
8/11/23	Canal	-	-	-	5.48	-	0.0	-	-	28	-		-
8/11/23	Process Water	-	-	-	-	1.60	49.4	8.5	70.6	923	-		-
9/2/23	Canal	-	-	-	6.45	-	0.0	-	-	32	-		-
9/24/23	Canal	-	-	-	6.31	-	0.0	-	-	32	-		-
10/14/23	3.00	-	-	-	6.13	-	82.0	-	-	784	-		-
11/1/23	S. Harvest	-	-	-	-	-	(159.7)	(44.3)	(151.8)	-	6.80		23.61
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-		-
Totals:		0.0		0	58.39	7.85	58	(25)	235	5,925	16.52	0	45.01

Field Name/Number: 3 **Acres:** 76.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	462.6	31.4	509.5	5925.3
Nutrients Removed at Harvest	-405.1	-42.4	-314.2	0.0
Nutrient Balance	57.5	-11.0	195.4	5925.3

Winter Nitrogen Crop App / Use Ratio: 1.17 **Summer Nitrogen Crop App / Use Ratio:** 1.18

Field Name/Number: 3 **Acres:** 76

Winter Crop **Wheat, Silage**

Nutrient Summary :		Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-		
Process Water	Q1	3.1	Ac In /Ac	205.7	87.4	408.9
	Q2	1.5	Ac In /Ac	75.3	38.0	157.1
Well Water		-	Ac In /Ac	-		
Canal		22.1	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
W. Planting	10/22/22					
W. Harvest	5/27/23	21.4	T/Ac	(245.4)	(121.0)	(272.0)

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	3.2	Ac In /Ac	99.5	39.2	170.5
	Q4	-	Ac In /Ac	-	-	-
Well Water		6.1	Ac In /Ac	82.0		
Canal		30.1	Ac In /Ac	0.1		
Atm. Depos.		Yes		7.0		
S. Planting	7/13/23					
S. Harvest	11/1/23	23.6	T/Ac	(159.7)	(101.4)	(182.2)

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)

Exception Reporting

Manure , Process Water and Other Dalry 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 durging 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 faciltiy NMP updated in the reporting period? No

Was the facility's NMP developed and approved by a certified nutrient management specialist? No

Written Agreements:

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

KSB LP

Print Name

M Bar 9 Dairy

Print Name

May 13, 2024

Date

3/13/24

Date

Livingston Dairy Consulting, Inc.

FIELD ACTIVITY REPORT

Facility Name: M Bar 9
8083 Ave. 160, 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:

Date	Well Name	Time	PH	Temp	Ammonium
1-31	Dom 1	10:38	6.5	65	Ø
1-31	Dom 2	10:42	6.7	68	Ø
1-31	Dom 3	10:48	7.0	67	Ø
7/20	#3	6:46	7	65	Ø

Sample Preservation Method: (Circle one) Ice Chest Refrigerator Ice Pack

M BAR9

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

February 17, 2023

Lab No. : VI 2340550
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
DOM 1	01/31/2023	01/31/2023	VI 2340550-001	DW
DOM 3	01/31/2023	01/31/2023	VI 2340550-002	DW
DOM 2	01/31/2023	01/31/2023	VI 2340550-003	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

	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
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)

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: 2023-02-17

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February 17, 2023

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

Description : DOM 1
Project : W-6 M Bar 9

Lab No. : VI 2340550-001
Customer No. : 4018505

Sampled On : January 31, 2023 at 10:38
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	Ul	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:31	lcr
Nitrate Nitrogen	29.2	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:07	lfs
Nitrogen, Total as Nitrogen	29.2	0.5	mg/L		1	l	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:31	lcr
Nitrate + Nitrite as N	29.2	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:07	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	Ul	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:31	lcr
Conductivity	1280	1	umhos/cm	1600[2]	1		02/16/2023	14:02	sta		02/16/2023	14:02	sta
Solids, Total Dissolved (TDS)	830	20	mg/L	1000[2]	1		02/02/2023	11:53	ctl	SM 2540 C	02/03/2023	12:48	ctl

DQF Flags Definition:
U Constituent results were non-detect.
l 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.

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February 17, 2023

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

Description : DOM 3
Project : W-6 M Bar 9

Lab No. : VI 2340550-002
Customer No. : 4018505

Sampled On : January 31, 2023 at 10:48
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	UI	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:52	lcr
Nitrate Nitrogen	29.6	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:09	lfs
Nitrogen, Total as Nitrogen	29.6	0.5	mg/L		1	I	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:52	lcr
Nitrate + Nitrite as N	29.6	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:09	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:52	lcr
Conductivity	1250	1	umhos/cm	1600[2]	1		02/16/2023	14:02	sta		02/16/2023	14:02	sta
Solids, Total Dissolved (TDS)	780	20	mg/L	1000[2]	1		02/02/2023	13:49	ctl	SM 2540 C	02/03/2023	12:30	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
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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February 17, 2023

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

Description : DOM 2
Project : W-6 M Bar 9

Lab No. : VI 2340550-003
Customer No. : 4018505

Sampled On : January 31, 2023 at 10:42
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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:54	lcr
Nitrate Nitrogen	28.5	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:11	lfs
Nitrogen, Total as Nitrogen	28.5	0.5	mg/L		1	I	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:54	lcr
Nitrate + Nitrite as N	28.5	0.4	mg/L	10	1		02/01/2023	13:00	lfs	SM 4500-NO3 F	02/01/2023	16:11	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	02/10/2023	09:50	sta	EPA 351.2	02/12/2023	19:54	lcr
Conductivity	1270	1	umhos/cm	1600[2]	1		02/16/2023	14:02	sta		02/16/2023	14:02	sta
Solids, Total Dissolved (TDS)	800	20	mg/L	1000[2]	1		02/02/2023	11:53	ctl	SM 2540 C	02/03/2023	12:34	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
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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February 17, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2340550
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2510B	02/16/2023:201743STA	Blank	umhos/cm		ND	<1	
		(VI 2340545-001)	Dup	umhos/cm		0.7%	5	
Solids, Total Dissolved	2540CE	02/02/2023:201179CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	103 %	90-110	
		(SP 2301488-001)	Dup	mg/L		2.2%	5	
		(SP 2301488-001)	Dup	mg/L		0.4%	5	
			Blank	mg/L		ND	<20	
			LCS	mg/L	990.8	101 %	90-110	
		(VI 2340550-002)	Dup	mg/L		0.4%	5	
		(VI 2340550-002)	Dup	mg/L		0.5%	5	
Nitrogen, Total Kjeldahl	351.2	02/10/2023:201482STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	93.0%	73-124	
			MS	mg/L	12.00	75.3%	54-136	
		(VI 2340549-001)	MSD	mg/L	12.00	79.7%	54-136	
			MSRPD	mg/L	12.00	5.7%	≤27	
			MS	mg/L	12.00	26.9%	<Â¼	
		(VI 2340550-001)	MSD	mg/L	12.00	42.9%	54-136	435
			MSRPD	mg/L	12.00	46.4%	≤27	435
Nitrate + Nitrite as N	4500NO3F	02/01/2023:201107LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.8%	80-120	
			MS	mg/L	5.609	90.4%	66-125	
		(VI 2340568-001)	MSD	mg/L	5.609	90.2%	66-125	
			MSRPD	mg/L	5.609	0.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	02/01/2023:201107LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.8%	80-120	
			MS	mg/L	5.609	90.4%	66-125	
		(VI 2340568-001)	MSD	mg/L	5.609	90.2%	66-125	
			MSRPD	mg/L	5.609	0.1%	≤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 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.

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FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

Special

CHAIN OF CUSTODY
www.fglinc.com

Laboratory Copy (1 of 3)

42086:03/01/2022

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 Bar 9

Purchase Order Number:

Quote Number: **VI 20210208-01**

Sampler(s) Marlene & Kaylin

Sampling Fee: _____ Pickup Fee: _____

Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 2340550 **4-18505**

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Sampling-W-6 - Total N - Split Bottle ***VI Lab to Split for Total N*** 8oz(P)-H2SO4
1	DOM 1	1/31	10:38AM	G	DW	P			1	1
2	DOM 3	1/31	10:48AM	G	DW	P			1	1
3	Dom 2	1/31	10:42	G	DW	P			1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
	1/31/23	1:33		1/31/23	1403		1/31/23	1720
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
	1/31/23	1:33		1/31/23	1403			

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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 # GTC
2. Were samples received in a chilled condition? Temps: 0.1 / 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	
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): MX

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 2c / ____ / ____ / ____ / ____
   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		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MX

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 cc contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2340550
da0 02/01/2023 12:12:11
VI_2340550

M Ba- 9

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

August 16, 2023

Lab No. : **VI 2344714**
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 3 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
#3	07/20/2023	07/20/2023	VI 2344714-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-08-17

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Page 1 of 3

M Bar 9

FGL ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

August 16, 2023

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

Description : #3
Project : W-6 M Bar 9

Lab No. : VI 2344714-001
Customer No. : 4018505

Sampled On : July 20, 2023 at 06:46
Sampled By : Marlene / Noreen
Received On : July 20, 2023 at 10:32
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/10/2023	14:22	sta	EPA 351.2	08/12/2023	15:54	lcr
Nitrate Nitrogen	59.0	4*	mg/L		10		07/21/2023	13:00	lfs	SM 4500-NO3 F	07/21/2023	20:27	lfs
Nitrogen, Total as Nitrogen	59	4	mg/L		1		08/10/2023	14:22	sta	Calc.	08/12/2023	15:54	lcr
Nitrate + Nitrite as N	59.0	4*	mg/L		10		07/21/2023	13:00	lfs	SM 4500-NO3 F	07/21/2023	20:27	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/10/2023	14:22	sta	EPA 351.2	08/12/2023	15:54	lcr
Conductivity	1250	1	umhos/cm		1		07/31/2023	17:05	amm	SM 4500-H+B	07/31/2023	20:19	amm
Solids, Total Dissolved (TDS)	940	20	mg/L		1		07/25/2023	12:30	ctl	SM 2540 C	07/26/2023	11:30	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

Page 2 of 3

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August 16, 2023

Livingston Dairy Consulting, Inc.

Lab No. : VI 2344714
Customer No. : 4018505

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344710-008)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	07/25/2023:208161CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	97.0%	90-110	
		(VI 2344710-002)	Dup	mg/L		1.67%	5	
		(VI 2344710-002)	Dup	mg/L		0.8%	5	
Nitrogen, Total Kjeldahl	351.2	08/10/2023:208886STA	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	88.3%	73-124	
			MS	mg/L	12.00	91.6%	54-136	
		(VI 2344744-001)	MSD	mg/L	12.00	92.6%	54-136	
			MSRPD	mg/L		1.1%	≤27	
			MS	mg/L	12.00	88.1%	54-136	
		(VI 2344744-003)	MSD	mg/L	12.00	88.0%	54-136	
			MSRPD	mg/L		0.1%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/21/2023:208010LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	95.6%	80-120	
			MS	mg/L	5.609	95.1%	66-125	
		(CH 2375625-001)	MSD	mg/L	5.609	98.1%	66-125	
			MSRPD	mg/L		3.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/21/2023:208010LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	95.6%	80-120	
			MS	mg/L	5.609	95.1%	66-125	
		(CH 2375625-001)	MSD	mg/L	5.609	98.1%	66-125	
			MSRPD	mg/L		3.1%	≤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 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.

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42086:04/01/2023

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Address: Livingston Dairy Consulting, Inc
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Tulare, CA 93274

Phone: (559)687-1440 Fax:
Contact Person: Noreen Livingston
Project Name: **W-6** M Bar 9
Purchase Order Number:
Quote Number: **VI 20210208-01**
Sampler(s) Marlene & Noreen

Sampling Fee: _____ Pickup Fee: _____
Compositor Setup Date: ___/___/___ Time: ___/___

Lab Number: **VI** 2344714 **4-18505**

TEST DESCRIPTION - See Reverse side for Container, Preservative and Sampling information

Samp Num	Location Description	Date Sampled	Time Sampled	Method of Sampling: Composite(C) Grab(G)	Type of Sample **SEE REVERSE SIDE**	Potable(P) Non-Potable(NP) Ag Water(AgW)	Bacti Type: Other(O) System(SYS) Source(SR) Waste(W)	Bacti Reason: Routine(ROUT) Repeat(RPT) Replace(RPL) Other(O) Special(SPL)	Dairy Analysis-W-6-Conductivity,NO3-N,Total N,TDS 16oz(P)	Bottles/Containers Split Fee 8oz(P)-H2SO4
1	#3	7/20	6:46 PM	G	AgW	NP			1	1
2				G					1	1
3				G					1	1
4				G					1	1
5				G					1	1
6				G					1	1
7				G					1	1
8				G					1	1
9				G					1	1
10				G					1	1

Remarks:

Relinquished	Date:	Time:	Relinquished	Date:	Time:	Relinquished	Date:	Time:
Marlene Ferreira	7/20/23	10:32	SRO	7/20/23	1730	GLS	7/21/23	1120
Received By:	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**	**Received By:**	**Date:**	**Time:**
SRO	7/20/23	1032	GLS	7/20/23	1730	MC	/	/

ROI 8.5°C

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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: R01 / 8.5°C / _____ / _____ / _____
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): SRO

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: 559803345 3297
3542 3359

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		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDC

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 con
contacts)

(4018505)
Livingston Dairy Consulting, Inc.
VI 2344714
iv 07/20/2023 14:27:12

2023 Canal Results

558TRA144 - Tule River at Road 144

Core & Assessment Constituents

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				cfs	0	0	0	220	280	Due to Record Flood Conditions, No Surface Water Analysis in March 2023	180	150	250	400
EC ✓	BSK	700			umhos/cm				151.2	115.3		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	10	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	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				96h				100	100		100	100	100	87.5
Toxicity, water flea	ABC				48h				100	100		100	100	100	100
Toxicity, algae	ABC				48h				100	100		100	100	100	100
2,4-D Acids &Salts	BSK														

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: Frank Mendonsa

Name of Dairy Facility: M Bar 9 Dairy

Facility Address: 8083 Ave. 160 (Number and Street) Tipton (City) 93272 (Zip Code)

Contact Person Name: Frank Mendonsa (Name) 559-752-4727 (Phone Number)

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: _____

Address of Hauling Company /Person: _____ (Number and Street) _____ (City) _____ (Zip Code)

Contact Person: _____ (Name) _____ (Phone Number)

Destination Information:

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

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

Big Sky Ranch (Name) _____ (Number and Street) _____ (City) _____ (Zip Code) _____ (Phone Number)

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

_____ (Number and Street) _____ (City) _____ (Zip Code) 200-200-006 & 001 (Assessor's Parcel Number)

Dates Hauled: _____

Amount Hauled:

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

- Manure: 4100 (Tons) or Cubic Yards (indicate which units used)
- Manure Moisture % : _____
- Method used to determine amount of manure: _____

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

- Process Wastewater: _____ Gallons
- Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

_____ Yes _____ No

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

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

Certification:

I declare under the penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Operator's Signature: _____ Date: 3/13/24

Hauler's Signature: _____ Date: _____