Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Curtimade Dairy Inc.

Physical address of dairy:

Number and Street	City	County	Zip Code
18337 Road 24	Tulare	Tulare	93274

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 10/01/1988

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0200-0050-0003-0000 0200-0050-0004-0000 0200-0050-0023-0000 0200-0050-0027-0000

B. OPERATORS

Curti, Ben

Operator name: Curti, Ben

Telephone no.: (559) 992-5866 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
18337 Road 24	Tulare	CA	93274

This operator is responsible for paying permit fees.

C. OWNERS

Curti, Ben

Legal owner name: Curti, Ben

Telephone no.: (559) 992-5866 (Landline) (Cellular)

Mailing Address Number and Street	City	State	Zip Code
18337 Road 24	Tulare	CA	93274

This owner is responsible for paying permit fees.

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	400	1,100	1,150	1,000	0
Number under roof	3,300	0	0	0	0	800
Maximum number	3,300	400	1,100	1,150	1,000	800
Average number	3,300	400	1,100	1,150	1,000	800
Avg live weight (lbs)	1,000	1,100	800	600		

Predominant milk cow breed: Jersey

Average milk production: 55 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 111,615.43 *tons per reporting period*

Total nitrogen from manure: 1,409,303.56 *lbs per reporting period*

After ammonia losses (30% loss applied): 986,512.49 *lbs per reporting period*

Total phosphorus from manure: 225,675.97 *lbs per reporting period*

Total potassium from manure: 599,458.95 *lbs per reporting period*

Total salt from manure: 1,645,785.00 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 80,683,966 *gallons*

Total nitrogen generated: 146,901.35 *lbs*

Total phosphorus generated: 45,646.72 *lbs*

Total potassium generated: 403,646.26 *lbs*

Total salt generated: 2,175,698.07 *lbs*

	80,683,966	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	80,683,966	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
30	Ground water
30A	Ground water
32A	Ground water
33A	Ground water
34A	Ground water

Source Description	Type
34B	Ground water
34C	Ground water
35	Ground water
36	Ground water
39A	Ground water
39C	Ground water
40	Ground water
41A	Ground water
42A	Ground water
43A	Ground water
44	Ground water
Canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/28/2023	Corral solids	562.50 *ton*	As-is	66.7		4,550.00	3,000.00	8,400.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	5,118.75	3,375.00	9,450.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	5,118.75	3,375.00	9,450.00	0.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
30	71	71	2	none	X200-X050-X025-XXXX
31	65	65	0	none	X200-X050-X025-XXXX
32	94	94	1	both	X200-X050-X025-XXXX
33	114	114	1	both	X200-X040-X004-XXXX
34	113	113	0	none	X200-X040-X004-XXXX
36	56	56	0	none	X200-X050-X023-XXXX
37	38	38	1	both	X200-X050-X005-XXXX
38	76	76	1	both	X200-X050-X021-XXXX X200-X050-X022-XXXX
39	74	74	1	both	X200-X050-X014-XXXX
40	127	127	2	both	X200-X030-X003-XXXX
41	72	72	2	both	X225-X050-X020-XXXX
42	76	76	2	both	X225-X050-X020-XXXX
43	76	76	2	both	X225-X050-X020-XXXX
44	73	73	0	none	X200-X050-X012-XXXX X225-X050-X020-XXXX
Totals for areas that were used for application	747	747	13		
Totals for areas that were not used for application	378	378	2		
Land application area totals	1,125	1,125	15		

B. CROPS AND HARVESTS

30

Field name: 30

30

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,420.00 *ton*	As-is		74.2	4,400.00	800.00	6,600.00		16.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	176.00	32.00	264.00	1,651.20

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/19/2023	2,130.00 *ton*	As-is		68.2	4,600.00	900.00	4,900.00		5.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	276.00	54.00	294.00	973.08

31

Field name: 31

11/16/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 65 Plant date: 11/16/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

32

Field name: 32

32

04/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 94 Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	3,290.00 *ton*	As-is		69.1	3,300.00	700.00	4,800.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	231.00	49.00	336.00	1,449.21

33

Field name: 33

04/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 114 Plant date: 04/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	3,876.00 *ton*	As-is		67.3	3,900.00	800.00	4,800.00		7.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	265.20	54.40	326.40	1,623.23

34

Field name: 34

11/18/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 113 Plant date: 11/18/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

36

Field name: 36

11/20/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 56 Plant date: 11/20/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

37

Field name: 37

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/05/2023	1,292.00 *ton*	As-is		69.5	3,900.00	600.00	4,700.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	265.20	40.80	319.60	1,306.62

38

Field name: 38

38

04/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 04/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	2,660.00 *ton*	As-is		69.2	3,200.00	700.00	4,500.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	35.00	224.00	49.00	315.00	1,422.96

39

Field name: 39

04/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 04/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	2,516.00 *ton*	As-is		70.3	3,600.00	800.00	4,700.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	35.00	280.00	52.50	231.00	0.00
Total actual harvest content	34.00	244.80	54.40	319.60	1,494.50

40

Field name: 40

40

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 127 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	2,540.00 *ton*	As-is		65.2	5,325.00	925.00	6,250.00		13.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	213.00	37.00	250.00	1,851.36

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 127 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/19/2023	3,683.00 *ton*	As-is		64.4	4,700.00	1,000.00	4,400.00		4.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.00	272.60	58.00	255.20	980.78

41

Field name: 41

11/17/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 72 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,512.00 *ton*	As-is		72.4	4,800.00	900.00	6,700.00		19.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	21.00	201.60	37.80	281.40	2,237.26

41

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 72 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,304.00 *ton*	As-is		71.2	3,700.00	600.00	4,100.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.00	236.80	38.40	262.40	1,032.19

42

Field name: 42

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,520.00 *ton*	As-is		72.6	4,600.00	800.00	5,900.00		18.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	20.00	184.00	32.00	236.00	1,972.80

06/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/19/2023	2,204.00 *ton*	As-is		60.5	4,700.00	1,100.00	4,800.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.00	272.60	63.80	278.40	1,328.78

43

Field name: 43

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,748.00 *ton*	As-is		67.5	4,900.00	1,050.00	7,850.00		16.65

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	220.00	34.00	166.00	0.00
Total actual harvest content	23.00	225.40	48.30	361.10	2,489.18

06/24/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/24/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/11/2023	2,128.00 *ton*	As-is		64.8	5,100.00	1,000.00	4,600.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.00	285.60	56.00	257.60	1,261.57

44

Field name: 44

11/24/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 73 Plant date: 11/24/2021

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

30 - 11/14/2022: Wheat, silage, soft dough

Field name: 30

Crop: Wheat, silage, soft dough — Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Commercial Fertilizer	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
36	Ground water	49.74	0.00	0.00	867.84	15,940,630.92 *gal*
Application event totals		49.74	0.00	0.00	867.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.75	0.00	0.00	197.81	31,754,179.95 *gal*
Application event totals		0.75	0.00	0.00	197.81	

30 - 06/23/2023: Corn, silage

Field name: 30

Crop: Corn, silage — Plant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Commercial Fertilizer	Liquid commercial fertilizer	150.00	0.00	0.00	0.00	
Canal	Surface water	2.18	0.00	0.00	576.54	92,551,459.53 *gal*
Application event totals		152.18	0.00	0.00	576.54	

30 - 06/23/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Commercial Fertilizer	Liquid commercial fertilizer	150.00	0.00	0.00	0.00	
Application event totals		150.00	0.00	0.00	0.00	

31 - 11/16/2020: Alfalfa, hay

Field name: 31

Crop: Alfalfa, hay

Plant date: 11/16/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.80	0.00	0.00	213.12	31,320,798.12 *gal*
Application event totals		0.80	0.00	0.00	213.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30	Ground water	10.22	0.00	0.00	1,169.79	30,616,959.96 *gal*
30A	Ground water	15.63	0.00	0.00	922.00	34,794,369.78 *gal*
Application event totals		25.85	0.00	0.00	2,091.79	

32 - 04/20/2023: Corn, silage

Field name: 32

Crop: Corn, silage

Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

32 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	168.00	79.80	285.60	0.00	658.00 *ton*
Application event totals		168.00	79.80	285.60	0.00	

03/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	61.86	16.38	137.89	599.53	2,701,304.79 *gal*
Canal	Surface water	1.52	0.00	0.00	402.97	85,643,418.33 *gal*
Application event totals		63.38	16.38	137.89	1,002.50	

05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	60.63	17.03	161.14	836.23	2,645,910.12 *gal*
Application event totals		60.63	17.03	161.14	836.23	

06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.52	0.00	0.00	138.72	29,482,998.48 *gal*
Application event totals		0.52	0.00	0.00	138.72	

33 - 04/26/2023: Corn, silage

Field name: 33

Crop: Corn, silage

Plant date: 04/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/12/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	168.00	79.80	285.60	0.00	798.00 *ton*
Application event totals		168.00	79.80	285.60	0.00	

33 - 04/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	48.92	12.95	109.04	474.08	2,590,515.45 *gal*
Canal	Surface water	1.22	0.00	0.00	323.47	83,375,495.37 *gal*
Application event totals		50.14	12.95	109.04	797.55	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	44.88	12.61	119.29	619.04	2,375,453.79 *gal*
Application event totals		44.88	12.61	119.29	619.04	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
32A	Ground water	8.52	0.00	0.00	683.87	34,220,872.02 *gal*
33A	Ground water	36.43	0.00	0.00	830.33	23,809,932.57 *gal*
Application event totals		44.94	0.00	0.00	1,514.20	

34 - 11/18/2020: Alfalfa, hay

Field name: 34

Crop: Alfalfa, hay

Plant date: 11/18/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	1.05	0.00	0.00	277.30	70,846,524.42 *gal*
Application event totals		1.05	0.00	0.00	277.30	

34 - 11/18/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
34B	Ground water	37.65	0.00	0.00	1,104.71	22,460,909.43 *gal*
34A	Ground water	94.90	0.00	0.00	2,791.98	73,013,433.57 *gal*
Application event totals		132.55	0.00	0.00	3,896.70	

36 - 11/20/2020: Alfalfa, hay

Field name: 36

Crop: Alfalfa, hay

Plant date: 11/20/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	1.33	0.00	0.00	351.44	44,498,212.56 *gal*
Application event totals		1.33	0.00	0.00	351.44	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
36	Ground water	156.57	0.00	0.00	2,525.09	37,257,803.34 *gal*
Application event totals		156.57	0.00	0.00	2,525.09	

37 - 04/17/2023: Corn, silage

Field name: 37

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

37 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/20/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	72.00	34.20	122.40	0.00	114.00 *ton*
Application event totals		72.00	34.20	122.40	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	76.42	20.23	170.35	740.63	1,349,023.14 *gal*
Canal	Surface water	1.73	0.00	0.00	458.79	39,418,195.47 *gal*
Application event totals		78.15	20.23	170.35	1,199.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	137.78	38.70	366.21	1,900.42	2,430,848.46 *gal*
Application event totals		137.78	38.70	366.21	1,900.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
35	Ground water	12.73	0.00	0.00	334.57	5,519,915.94 *gal*
Application event totals		12.73	0.00	0.00	334.57	

38 - 04/24/2023: Corn, silage

Field name: 38

Crop: Corn, silage

Plant date: 04/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.00	57.00	204.00	0.00	380.00 *ton*
Application event totals		120.00	57.00	204.00	0.00	

38 - 04/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	87.27	24.51	231.95	1,203.69	3,079,291.95 *gal*
Canal	Surface water	1.52	0.00	0.00	401.66	69,018,500.31 *gal*
Application event totals		88.78	24.51	231.95	1,605.34	

07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
39A	Ground water	35.57	0.00	0.00	837.86	11,997,833.82 *gal*
39C	Ground water	16.73	0.00	0.00	485.33	11,997,833.82 *gal*
Application event totals		52.30	0.00	0.00	1,323.19	

39 - 04/25/2023: Corn, silage

Field name: 39

Crop: Corn, silage

Plant date: 04/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	120.00	57.00	204.00	0.00	370.00 *ton*
Application event totals		120.00	57.00	204.00	0.00	

04/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	89.63	25.18	238.22	1,236.22	3,079,291.95 *gal*
Canal	Surface water	1.51	0.00	0.00	399.58	66,854,849.67 *gal*
Application event totals		91.13	25.18	238.22	1,635.80	

39 - 04/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
39A	Ground water	36.53	0.00	0.00	860.51	11,997,833.82 *gal*
39C	Ground water	17.18	0.00	0.00	498.44	11,997,833.82 *gal*
Application event totals		53.71	0.00	0.00	1,358.95	

40 - 11/16/2022: Wheat, silage, soft dough

Field name: 40

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	168.00	79.80	285.60	0.00	889.00 *ton*
Application event totals		168.00	79.80	285.60	0.00	

11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	33.76	10.59	113.91	591.02	2,968,502.61 *gal*
40	Ground water	5.39	0.00	0.00	250.48	13,662,932.43 *gal*
44	Ground water	2.03	0.00	0.00	225.49	18,215,070.90 *gal*
Application event totals		41.19	10.59	113.91	1,066.99	

01/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.65	0.00	0.00	171.13	49,138,330.80 *gal*
Application event totals		0.65	0.00	0.00	171.13	

40 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	38.43	15.52	107.69	582.18	3,023,897.28 *gal*
Application event totals		38.43	15.52	107.69	582.18	

40 - 06/28/2023: Corn, silage

Field name: 40

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	45.50	30.00	84.00	0.00	635.00 *ton*
Application event totals		45.50	30.00	84.00	0.00	

06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	73.95	22.92	182.72	1,052.02	4,213,253.43 *gal*
Canal	Surface water	1.23	0.00	0.00	326.86	93,854,863.53 *gal*
Application event totals		75.18	22.92	182.72	1,378.87	

07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	76.44	26.26	243.08	1,385.76	6,914,558.22 *gal*
Application event totals		76.44	26.26	243.08	1,385.76	

40 - 06/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
39A	Ground water	54.72	0.00	0.00	1,288.90	30,841,797.15 *gal*
40	Ground water	53.44	0.00	0.00	1,258.43	27,755,988.18 *gal*
Application event totals		108.16	0.00	0.00	2,547.33	

41 - 11/17/2022: Wheat, silage, soft dough

Field name: 41

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	144.00	68.40	244.80	0.00	432.00 *ton*
Application event totals		144.00	68.40	244.80	0.00	

11/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	53.12	14.17	156.50	758.70	2,160,392.13 *gal*
41A	Ground water	0.00	0.00	0.00	211.13	11,039,831.88 *gal*
42A	Ground water	10.36	0.00	0.00	349.32	5,519,915.94 *gal*
Application event totals		63.49	14.17	156.50	1,319.14	

01/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.72	0.00	0.00	189.76	30,890,674.80 *gal*
Application event totals		0.72	0.00	0.00	189.76	

41 - 11/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	30.24	12.21	84.74	458.12	1,349,023.14 *gal*
Application event totals		30.24	12.21	84.74	458.12	

41 - 06/26/2023: Corn, silage

Field name: 41

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	27.30	18.00	50.40	0.00	216.00 *ton*
Application event totals		27.30	18.00	50.40	0.00	

06/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	133.76	41.47	330.52	1,903.01	4,320,784.26 *gal*
Canal	Surface water	0.67	0.00	0.00	177.79	28,942,085.82 *gal*
Application event totals		134.43	41.47	330.52	2,080.79	

07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	134.84	46.32	428.76	2,444.32	6,914,558.22 *gal*
41A	Ground water	0.00	0.00	0.00	113.04	48,959,112.75 *gal*
Application event totals		134.84	46.32	428.76	2,557.36	

42 - 11/19/2022: Wheat, silage, soft dough

42 - 11/19/2022: Wheat, silage, soft dough

Field name: 42

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	168.00	79.80	285.60	0.00	532.00 *ton*
Application event totals		168.00	79.80	285.60	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	22.62	6.03	66.64	323.07	971,035.98 *gal*
41A	Ground water	0.00	0.00	0.00	195.64	10,798,702.14 *gal*
42A	Ground water	9.60	0.00	0.00	323.70	5,399,351.07 *gal*
Application event totals		32.22	6.03	66.64	842.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.71	0.00	0.00	188.57	32,402,623.44 *gal*
Application event totals		0.71	0.00	0.00	188.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	36.73	9.73	81.88	356.00	1,296,886.98 *gal*
Application event totals		36.73	9.73	81.88	356.00	

42 - 06/30/2023: Corn, silage

Field name: 42

Crop: Corn, silage

Plant date: 06/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

42 - 06/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	27.30	18.00	50.40	0.00	228.00 *ton*
Application event totals		27.30	18.00	50.40	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	126.72	39.28	313.13	1,802.85	4,320,784.26 *gal*
Canal	Surface water	0.65	0.00	0.00	171.58	29,482,998.48 *gal*
Application event totals		127.37	39.28	313.13	1,974.42	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	161.57	55.51	513.77	2,928.96	8,745,840.84 *gal*
41A	Ground water	0.00	0.00	0.00	116.92	53,455,856.55 *gal*
Application event totals		161.57	55.51	513.77	3,045.89	

43 - 11/21/2022: Wheat, silage, soft dough

Field name: 43

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/12/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	168.00	79.80	285.60	0.00	532.00 *ton*
Application event totals		168.00	79.80	285.60	0.00	

43 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/24/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	56.63	15.11	166.82	808.75	2,430,848.46 *gal*
42A	Ground water	11.05	0.00	0.00	372.35	6,210,720.06 *gal*
43A	Ground water	23.35	0.00	0.00	680.73	9,935,196.99 *gal*
Application event totals		91.02	15.11	166.82	1,861.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.72	0.00	0.00	191.68	32,937,019.08 *gal*
Application event totals		0.72	0.00	0.00	191.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	22.90	9.25	64.19	347.00	1,078,566.81 *gal*
Application event totals		22.90	9.25	64.19	347.00	

43 - 06/24/2023: Corn, silage

Field name: 43

Crop: Corn, silage

Plant date: 06/24/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	27.30	18.00	50.40	0.00	228.00 *ton*
Application event totals		27.30	18.00	50.40	0.00	

43 - 06/24/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	126.72	39.28	313.13	1,802.85	4,320,784.26 *gal*
Canal	Surface water	0.73	0.00	0.00	192.97	33,158,597.76 *gal*
Application event totals		127.45	39.28	313.13	1,995.82	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Process Wastewater	Process wastewater	99.81	34.29	317.37	1,809.32	5,402,609.58 *gal*
41A	Ground water	0.00	0.00	0.00	65.61	29,994,584.55 *gal*
43A	Ground water	59.56	0.00	0.00	1,546.51	24,002,184.66 *gal*
Application event totals		159.37	34.29	317.37	3,421.44	

44 - 11/24/2021: Alfalfa, hay

Field name: 44

Crop: Alfalfa, hay

Plant date: 11/24/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.79	0.00	0.00	209.39	34,559,757.06 *gal*
Application event totals		0.79	0.00	0.00	209.39	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
44	Ground water	17.58	0.00	0.00	2,385.56	73,221,978.21 *gal*
Application event totals		17.58	0.00	0.00	2,385.56	

B. NUTRIENT BUDGET

30 - 11/14/2022: Wheat, silage, soft dough

Field name: 30 Crop: Wheat, silage, soft dough Plant date: 11/14/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	50.49	0.00	0.00	1,065.65
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	207.49	0.00	0.00	1,065.65
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	176.00	32.00	264.00	1,651.20
Nutrient balance	31.49	-32.00	-264.00	-585.55
Applied to removed ratio	1.18	0.00	0.00	0.65

Fresh water applied	
47,694,810.87	*gallons*
1,756.44	*acre-inches*
24.74	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

30 - 06/23/2023: Corn, silage

Field name: 30 Crop: Corn, silage Plant date: 06/23/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	300.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.18	0.00	0.00	576.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.18	0.00	0.00	576.54
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	276.00	54.00	294.00	973.08
Nutrient balance	33.18	-54.00	-294.00	-396.54
Applied to removed ratio	1.12	0.00	0.00	0.59

Fresh water applied	
92,551,459.53	*gallons*
3,408.36	*acre-inches*
48.01	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

31 - 11/16/2020: Alfalfa, hay

Field name: 31 Crop: Alfalfa, hay Plant date: 11/16/2020

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	26.66	0.00	0.00	2,304.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	40.66	0.00	0.00	2,304.91
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	40.66	0.00	0.00	2,304.91
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
96,732,127.86	*gallons*
3,562.32	*acre-inches*
54.80	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

32 - 04/20/2023: Corn, silage

Field name: 32 Crop: Corn, silage Plant date: 04/20/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	168.00	79.80	285.60	0.00
Process wastewater	122.49	33.41	299.03	1,435.76
Fresh water	2.04	0.00	0.00	541.69
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	306.53	113.21	584.63	1,977.45
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	231.00	49.00	336.00	1,449.21
Nutrient balance	75.53	64.21	248.63	528.24
Applied to removed ratio	1.33	2.31	1.74	1.36

Fresh water applied	
115,126,416.81	*gallons*
4,239.71	*acre-inches*
45.10	*inches/acre*

Process wastewater applied	
5,347,214.91	*gallons*
196.92	*acre-inches*
2.09	*inches/acre*

Total harvests for the crop	
1	*harvests*

33 - 04/26/2023: Corn, silage

Field name: 33 Crop: Corn, silage Plant date: 04/26/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	168.00	79.80	285.60	0.00
Process wastewater	93.80	25.56	228.32	1,093.11
Fresh water	46.16	0.00	0.00	1,837.68
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	321.96	105.36	513.92	2,930.79
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	265.20	54.40	326.40	1,623.23
Nutrient balance	56.76	50.96	187.52	1,307.56
Applied to removed ratio	1.21	1.94	1.57	1.81

Fresh water applied	
141,406,299.96	*gallons*
5,207.51	*acre-inches*
45.68	*inches/acre*

Process wastewater applied	
4,965,969.24	*gallons*
182.88	*acre-inches*
1.60	*inches/acre*

Total harvests for the crop	
1	*harvests*

34 - 11/18/2020: Alfalfa, hay

Field name: 34 Crop: Alfalfa, hay Plant date: 11/18/2020

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	133.60	0.00	0.00	4,173.99
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	147.60	0.00	0.00	4,173.99
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	147.60	0.00	0.00	4,173.99
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
166,320,867.42	*gallons*
6,125.03	*acre-inches*
54.20	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

36 - 11/20/2020: Alfalfa, hay

Field name: 36 Crop: Alfalfa, hay Plant date: 11/20/2020

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	157.89	0.00	0.00	2,876.53
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	171.89	0.00	0.00	2,876.53
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	171.89	0.00	0.00	2,876.53
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
81,756,015.90	*gallons*
3,010.80	*acre-inches*
53.76	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

37 - 04/17/2023: Corn, silage

Field name: 37 Crop: Corn, silage Plant date: 04/17/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	72.00	34.20	122.40	0.00
Process wastewater	214.20	58.94	536.55	2,641.06
Fresh water	14.46	0.00	0.00	793.36
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	314.66	93.14	658.95	3,434.42
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	265.20	40.80	319.60	1,306.62
Nutrient balance	49.46	52.34	339.35	2,127.80
Applied to removed ratio	1.19	2.28	2.06	2.63

Fresh water applied	
44,938,111.41	*gallons*
1,654.92	*acre-inches*
43.55	*inches/acre*

Process wastewater applied	
3,779,871.60	*gallons*
139.20	*acre-inches*
3.66	*inches/acre*

Total harvests for the crop	
1	*harvests*

38 - 04/24/2023: Corn, silage

Field name: 38 Crop: Corn, silage Plant date: 04/24/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.00	57.00	204.00	0.00
Process wastewater	87.27	24.51	231.95	1,203.69
Fresh water	53.82	0.00	0.00	1,724.85
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	275.08	81.51	435.95	2,928.53
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	224.00	49.00	315.00	1,422.96
Nutrient balance	51.08	32.51	120.95	1,505.57
Applied to removed ratio	1.23	1.66	1.38	2.06

Fresh water applied	
93,014,167.95	*gallons*
3,425.40	*acre-inches*
45.07	*inches/acre*

Process wastewater applied	
3,079,291.95	*gallons*
113.40	*acre-inches*
1.49	*inches/acre*

Total harvests for the crop	
1	*harvests*

39 - 04/25/2023: Corn, silage

Field name: 39 Crop: Corn, silage Plant date: 04/25/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	120.00	57.00	204.00	0.00
Process wastewater	89.63	25.18	238.22	1,236.22
Fresh water	55.22	0.00	0.00	1,758.53
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	278.85	82.18	442.22	2,994.75
Anticipated crop nutrient removal	280.00	52.50	231.00	0.00
Actual crop nutrient removal	244.80	54.40	319.60	1,494.50
Nutrient balance	34.05	27.78	122.62	1,500.25
Applied to removed ratio	1.14	1.51	1.38	2.00

Fresh water applied	
90,850,517.31	*gallons*
3,345.72	*acre-inches*
45.21	*inches/acre*

Process wastewater applied	
3,079,291.95	*gallons*
113.40	*acre-inches*
1.53	*inches/acre*

Total harvests for the crop	
1	*harvests*

40 - 11/16/2022: Wheat, silage, soft dough

Field name: 40 Crop: Wheat, silage, soft dough Plant date: 11/16/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	168.00	79.80	285.60	0.00
Process wastewater	72.19	26.11	221.61	1,173.20
Fresh water	8.07	0.00	0.00	647.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	255.26	105.91	507.21	1,820.30
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	213.00	37.00	250.00	1,851.36
Nutrient balance	42.26	68.91	257.21	-31.06
Applied to removed ratio	1.20	2.86	2.03	0.98

Fresh water applied	
81,016,334.13	*gallons*
2,983.56	*acre-inches*
23.49	*inches/acre*

Process wastewater applied	
5,992,399.89	*gallons*
220.68	*acre-inches*
1.74	*inches/acre*

Total harvests for the crop	
1	*harvests*

40 - 06/28/2023: Corn, silage

Field name: 40 Crop: Corn, silage Plant date: 06/28/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	45.50	30.00	84.00	0.00
Process wastewater	150.39	49.18	425.79	2,437.78
Fresh water	109.39	0.00	0.00	2,874.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.28	79.18	509.79	5,311.96
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	272.60	58.00	255.20	980.78
Nutrient balance	39.68	21.18	254.59	4,331.18
Applied to removed ratio	1.15	1.37	2.00	5.42

Fresh water applied	
152,452,648.86	*gallons*
5,614.31	*acre-inches*
44.21	*inches/acre*

Process wastewater applied	
11,127,811.65	*gallons*
409.80	*acre-inches*
3.23	*inches/acre*

Total harvests for the crop	
1	*harvests*

41 - 11/17/2022: Wheat, silage, soft dough

Field name: 41 Crop: Wheat, silage, soft dough Plant date: 11/17/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	144.00	68.40	244.80	0.00
Process wastewater	83.36	26.38	241.24	1,216.82
Fresh water	11.08	0.00	0.00	750.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	245.44	94.78	486.04	1,967.02
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	201.60	37.80	281.40	2,237.26
Nutrient balance	43.84	56.98	204.64	-270.24
Applied to removed ratio	1.22	2.51	1.73	0.88

Fresh water applied	
47,450,422.62	*gallons*
1,747.44	*acre-inches*
24.27	*inches/acre*

Process wastewater applied	
3,509,415.27	*gallons*
129.24	*acre-inches*
1.79	*inches/acre*

Total harvests for the crop	
1	*harvests*

41 - 06/26/2023: Corn, silage

Field name: 41 Crop: Corn, silage Plant date: 06/26/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	27.30	18.00	50.40	0.00
Process wastewater	268.60	87.79	759.28	4,347.33
Fresh water	0.67	0.00	0.00	290.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.57	105.79	809.68	4,638.15
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	236.80	38.40	262.40	1,032.19
Nutrient balance	66.77	67.39	547.28	3,605.96
Applied to removed ratio	1.28	2.75	3.09	4.49

Fresh water applied	
77,901,198.57	*gallons*
2,868.84	*acre-inches*
39.84	*inches/acre*

Process wastewater applied	
11,235,342.48	*gallons*
413.76	*acre-inches*
5.75	*inches/acre*

Total harvests for the crop	
1	*harvests*

42 - 11/19/2022: Wheat, silage, soft dough

Field name: 42 Crop: Wheat, silage, soft dough Plant date: 11/19/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	168.00	79.80	285.60	0.00
Process wastewater	59.35	15.76	148.52	679.07
Fresh water	10.32	0.00	0.00	707.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.67	95.56	434.12	1,386.99
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	184.00	32.00	236.00	1,972.80
Nutrient balance	60.67	63.56	198.12	-585.81
Applied to removed ratio	1.33	2.99	1.84	0.70

Fresh water applied	
48,600,676.65	*gallons*
1,789.80	*acre-inches*
23.55	*inches/acre*

Process wastewater applied	
2,267,922.96	*gallons*
83.52	*acre-inches*
1.10	*inches/acre*

Total harvests for the crop	
1	*harvests*

42 - 06/30/2023: Corn, silage

Field name: 42 Crop: Corn, silage Plant date: 06/30/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	27.30	18.00	50.40	0.00
Process wastewater	288.29	94.79	826.90	4,731.81
Fresh water	0.65	0.00	0.00	288.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	323.24	112.79	877.30	5,020.31
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	272.60	63.80	278.40	1,328.78
Nutrient balance	50.64	48.99	598.90	3,691.53
Applied to removed ratio	1.19	1.77	3.15	3.78

Fresh water applied	
82,938,855.03	*gallons*
3,054.36	*acre-inches*
40.19	*inches/acre*

Process wastewater applied	
13,066,625.10	*gallons*
481.20	*acre-inches*
6.33	*inches/acre*

Total harvests for the crop	
1	*harvests*

43 - 11/21/2022: Wheat, silage, soft dough

Field name: 43 Crop: Wheat, silage, soft dough Plant date: 11/21/2022

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	168.00	79.80	285.60	0.00
Process wastewater	79.53	24.36	231.01	1,155.75
Fresh water	35.12	0.00	0.00	1,244.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.65	104.16	516.61	2,400.50
Anticipated crop nutrient removal	220.00	34.00	166.00	0.00
Actual crop nutrient removal	225.40	48.30	361.10	2,489.18
Nutrient balance	64.25	55.86	155.51	-88.68
Applied to removed ratio	1.29	2.16	1.43	0.96

Fresh water applied	
49,082,936.13	*gallons*
1,807.56	*acre-inches*
23.78	*inches/acre*

Process wastewater applied	
3,509,415.27	*gallons*
129.24	*acre-inches*
1.70	*inches/acre*

Total harvests for the crop	
1	*harvests*

43 - 06/24/2023: Corn, silage

Field name: 43 Crop: Corn, silage Plant date: 06/24/2023

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	27.30	18.00	50.40	0.00
Process wastewater	226.53	73.57	630.50	3,612.17
Fresh water	60.29	0.00	0.00	1,805.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	321.12	91.57	680.90	5,417.26
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	285.60	56.00	257.60	1,261.57
Nutrient balance	35.52	35.57	423.30	4,155.69
Applied to removed ratio	1.12	1.64	2.64	4.29

Fresh water applied	
87,155,366.97	*gallons*
3,209.64	*acre-inches*
42.23	*inches/acre*

Process wastewater applied	
9,723,393.84	*gallons*
358.08	*acre-inches*
4.71	*inches/acre*

Total harvests for the crop	
1	*harvests*

44 - 11/24/2021: Alfalfa, hay

Field name: 44 Crop: Alfalfa, hay Plant date: 11/24/2021

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	18.37	0.00	0.00	2,594.94
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	32.37	0.00	0.00	2,594.94
Anticipated crop nutrient removal	720.00	64.80	504.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	32.37	0.00	0.00	2,594.94
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
107,781,735.27	*gallons*
3,969.23	*acre-inches*
54.37	*inches/acre*

Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

22I1151

Sample and source description: 22I1151

Sample date: 09/15/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	5,700.00	20,400.00							0.00
DL	100.00	100.00	30.00							0.01

23D1064

Sample and source description: 23D1064

Sample date: 04/20/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,550.00	3,000.00	8,400.00							0.00
DL	100.00	100.00	30.00							0.01

23K0072

Sample and source description: 23K0072

Sample date: 11/01/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	9,400.00	29,100.00							0.00
DL	100.00	100.00	30.00							0.01

B. PROCESS WASTEWATER ANALYSES

22J1313 Pump 6

Sample and source description: 22J1313 Pump 6

Sample date: 10/20/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	211.50	135.00	0.00	0.65	56.60	625.00								6,440.00	3,030
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

22J1313 Pump 7

Sample and source description: 22J1313 Pump 7

Sample date: 10/20/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	172.50	129.00	0.00	0.60	54.30	584.00								6,110.00	3,030
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23B0709 Pump 6

Sample and source description: 23B0709 Pump 6

Sample date: 02/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	257.50	139.50	0.00	0.45	68.30	575.00								5,930.00	2,500
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23B0709 Pump 7

Sample and source description: 23B0709 Pump 7

Sample date: 02/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	193.00	138.50	0.00	0.40	78.10	542.00								5,850.00	2,930
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23D1065 Pump 6

Sample and source description: 23D1065 Pump 6

Sample date: 04/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	258.00	179.00	0.00	0.10	72.50	686.00								7,420.00	3,560
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23D1065 Pump 7

Sample and source description: 23D1065 Pump 7

Sample date: 04/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	267.00	150.50	0.00	0.10	82.80	660.00								7,120.00	3,800
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23G2098 Pump 6

Sample and source description: 23G2098 Pump 6

Sample date: 07/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	258.00	174.00	0.00	0.55	51.50	693.00								7,040.00	3,480
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23G2098 Pump 7

Sample and source description: 23G2098 Pump 7

Sample date: 07/27/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	168.00	163.00	0.00	0.25	57.80	535.00								6,350.00	3,050
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23K0057 Pump 6

Sample and source description: 23K0057 Pump 6

Sample date: 11/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	230.50	167.00	0.00	0.25	81.50	654.00								6,380.00	3,830
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

23K0057 Pump 7

Sample and source description: 23K0057 Pump 7

Sample date: 11/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	213.50	173.00	0.00	0.20	70.50	547.00								6,500.00	3,570
DL	0.70	0.20	0.01	0.01	0.02	0.20								1.00	10

C. FRESH WATER ANALYSES

30

22F1564

Sample description: 22F1564

Sample date: 06/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	3.30	28.60	2.40	74.00	116.00	0.00	71.60	25.90	495.00	310
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

30

23G1572

Sample description: 23G1572

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	2.60								496.00	
DL		0.20	0.01								1.00	

30A

22F1564

Sample description: 22F1564

Sample date: 06/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	3.00	11.50	0.50	52.00	76.70	0.00	27.00	14.00	294.00	197
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

23G1572

Sample description: 23G1572

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	3.50								344.00	
DL		0.20	0.01								1.00	

32A

32A

22F1563

Sample description: 22F1563

Sample date: 06/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	4.20								467.00	
DL		0.20	0.01								1.00	

23G1572

Sample description: 23G1572

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	3.40								455.00	
DL		0.20	0.01								1.00	

33A

22G0265

Sample description: 22G0265

Sample date: 06/30/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	22.00								768.00	
DL		0.20	0.01								1.00	

33A

23G1572

Sample description: 23G1572

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	20.90								794.00	
DL		0.20	0.01								1.00	

34A

22G0265

Sample description: 22G0265

Sample date: 06/30/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	16.90								831.00	
DL		0.20	0.01								1.00	

23H0629

Sample description: 23H0629

Sample date: 08/03/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	17.60								863.00	
DL		0.20	0.01								1.00	

34B

34B

22H0672

Sample description: 22H0672

Sample date: 08/04/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	22.20								1,060.00	
DL		0.20	0.01								1.00	

23G1572

Sample description: 23G1572

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	22.70								1,110.00	
DL		0.20	0.01								1.00	

35

22F1563

Sample description: 22F1563

Sample date: 06/16/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	8.90								437.00	
DL		0.20	0.01								1.00	

35

23H0629

Sample description: 23H0629

Sample date: 08/03/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	10.50								460.00	
DL		0.20	0.01								1.00	

36

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.55	26.00								772.00	
DL		0.20	0.01								1.00	

23G2097

Sample description: 23G2097

Sample date: 07/27/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	28.20								758.00	
DL		0.20	0.01								1.00	

39A

39A

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	25.80								950.00	
DL		0.20	0.01								1.00	

23G1573

Sample description: 23G1573

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	27.00								1,060.00	
DL		0.20	0.01								1.00	

39C

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	29.70								1,080.00	
DL		0.20	0.01								1.00	

39C

23G2097

Sample description: 23G2097

Sample date: 07/27/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	12.70								614.00	
DL		0.20	0.01								1.00	

40

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	6.00								465.00	
DL		0.20	0.01								1.00	

23G1573

Sample description: 23G1573

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	29.30								1,150.00	
DL		0.20	0.01								1.00	

41A

41A

22B0908

Sample description: 22B0908

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00	3.20	0.40	47.00	74.20	0.00	19.60	9.50	230.00	165
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

23G1573

Sample description: 23G1573

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								33.20	
DL		0.20	0.01								0.01	

42A

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	16.20								910.00	
DL		0.20	0.01								1.00	

43A

43A

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	21.40								1,040.00	
DL		0.20	0.01								1.00	

23G2097

Sample description: 23G2097

Sample date: 07/27/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	22.60								978.00	
DL		0.20	0.01								1.00	

44

22B0905

Sample description: 22B0905

Sample date: 02/17/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	1.70								314.00	
DL		0.20	0.01								1.00	

44

23G1571

Sample description: 23G1571

Sample date: 07/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	2.10	25.90	1.10	68.00	130.00	0.00	52.60	14.50	430.00	285
DL		0.20	0.01	0.10	0.10	0.03	3.00	0.90	0.03	0.03	1.00	10

Canal

22G1354

Sample description: 22G1354

Sample date: 07/18/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.00								80.00	46
DL		0.20	0.01								1.00	10

23E1020

Sample description: 23E1020

Sample date: 05/10/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.20								70.00	53
DL		0.20	0.01								1.00	10

D. SOIL ANALYSES

30

30

23J1748

Sample and source description: 23J1748

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			50.00				
DL			1.10				

32

23H1128

Sample and source description: 23H1128

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			30.00				
DL			1.10				

33

23H1128

Sample and source description: 23H1128

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			8.00				
DL			1.10				

37

37

23I0671

Sample and source description: 23I0671

Sample date: 09/08/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			50.00				
DL			1.10				

38

23H1128

Sample and source description: 23H1128

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			40.00				
DL			1.10				

39

23H1128

Sample and source description: 23H1128

Sample date: 08/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			35.00				
DL			1.10				

40

40

23J1748

Sample and source description: 23J1748

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			36.50				
DL			1.10				

41

23J1748

Sample and source description: 23J1748

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			47.00				
DL			1.10				

42

23J1748

Sample and source description: 23J1748

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			34.00				
DL			1.10				

43

43

23J1748

Sample and source description: 23J1748

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			22.00				
DL			1.10				

E. PLANT TISSUE ANALYSES

30 - 11/14/2022: Wheat, silage, soft dough

23H2032

Sample and source description: 23H2032

Sample date: 08/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 74.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,400.00	800.00	6,600.00		16.00
DL	0.10	0.10	0.10		0.01

30 - 06/23/2023: Corn, silage

23J1473

Sample and source description: 23J1473

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	900.00	4,900.00		5.10
DL	0.10	0.10	0.10		0.01

32 - 04/20/2023: Corn, silage

23H1478

Sample and source description: 23H1478

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,300.00	700.00	4,800.00		6.70
DL	0.10	0.10	0.10		0.01

33 - 04/26/2023: Corn, silage

23H1478

Sample and source description: 23H1478

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	800.00	4,800.00		7.30
DL	0.10	0.10	0.10		0.01

37 - 04/17/2023: Corn, silage

23K1112

Sample and source description: 23K1112

Sample date: 11/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	600.00	4,700.00		6.30
DL	0.10	0.10	0.10		0.01

38 - 04/24/2023: Corn, silage

23H1478

Sample and source description: 23H1478

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,200.00	700.00	4,500.00		6.60
DL	0.10	0.10	0.10		0.01

39 - 04/25/2023: Corn, silage

23H1478

Sample and source description: 23H1478

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	800.00	4,700.00		7.40
DL	0.10	0.10	0.10		0.01

40 - 11/16/2022: Wheat, silage, soft dough

23H1477

Sample and source description: 23H1477

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,325.00	925.00	6,250.00		13.30
DL	0.10	0.10	0.10		0.01

40 - 06/28/2023: Corn, silage

23J1473

Sample and source description: 23J1473

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,000.00	4,400.00		4.75
DL	0.10	0.10	0.10		0.01

41 - 11/17/2022: Wheat, silage, soft dough

23H2032

Sample and source description: 23H2032

Sample date: 08/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,800.00	900.00	6,700.00		19.30
DL	0.10	0.10	0.10		0.01

41 - 06/26/2023: Corn, silage

23K1112

Sample and source description: 23K1112

Sample date: 11/21/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	600.00	4,100.00		5.60
DL	0.10	0.10	0.10		0.01

42 - 11/19/2022: Wheat, silage, soft dough

23H2032

Sample and source description: 23H2032

Sample date: 08/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	800.00	5,900.00		18.00
DL	0.10	0.10	0.10		0.01

42 - 06/30/2023: Corn, silage

23J1473

Sample and source description: 23J1473

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,100.00	4,800.00		5.80
DL	0.10	0.10	0.10		0.01

43 - 11/21/2022: Wheat, silage, soft dough

23H1477

Sample and source description: 23H1477

Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,050.00	7,850.00		16.65
DL	0.10	0.10	0.10		0.01

43 - 06/24/2023: Corn, silage

23J1473

Sample and source description: 23J1473

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	4,600.00		6.40
DL	0.10	0.10	0.10		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	31,950.00	0.00	0.00	0.00
Dry manure	124,813.70	61,479.00	213,921.60	0.00
Process wastewater	146,901.35	45,646.72	403,646.26	2,175,698.07
Fresh water	68,779.71	0.00	0.00	2,470,045.19
Atmospheric deposition	15,750.00	0.00	0.00	0.00
Total nutrients applied	388,194.75	107,125.72	617,567.86	4,645,743.26
Anticipated crop nutrient removal	526,040.00	74,021.60	399,812.00	0.00
Actual crop nutrient removal	296,029.20	58,972.60	357,576.40	1,907,046.01
Nutrient balance	92,165.55	48,153.12	259,991.46	2,738,697.25
Applied to removed ratio	1.31	1.82	1.73	2.44

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following 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 stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?	Yes
Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes
Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period?	No

ADDITIONAL NOTES

A. NOTES

1. As stated in the Annual Report, and required by the General Order, the dairies onsite Nutrient Management Plan has been updated and completed by a certified agronomist. The dairy conducts its nutrient budgeting based on this certified plan, and only uses the Annual Report as a complimentary guide. Submission of the nutrient budget in this annual report is done solely to satisfy the requirements of the General Orders monitoring and reporting section.

2. All graphs in the annual report display an amount of applied and removed salt. There are many ways inputs and exports of salt can accounted for. The Merced County website does not account for all of them. The graphs convey a partial / incomplete portrayal of salts (depending on how salts are defined, measured, and evaluated).

3. The General Order requires the submission of all land applications in the "calendar year" of the reporting period. This has been submitted. However, land applications that occur post harvest of the Fall forage of the previous calendar year are intended for the use of the Spring forage of the following calendar year (reporting period) as crop cycles do not work on calendar year dates. When such land applications occur in the previous calendar year, previous years analytical data representing the applications have been inputted to represent nutrients intended for the reporting periods Spring crop. As such, any land application that occurs post harvest of the Fall forage in the reporting period that is intended for the Spring forage of the following calendar year will not be inputted until the following years Annual Report so that the Merced County reporting program software does not mistakenly apply these applications to the incorrect crops as there is no way to accurately differentiate and display this situation in the Annual Report software.

4. All wastewater land applications were summarized by quarter using the corresponding wastewater quarterly sample to represent nutrient amounts applied. One application date per quarter per crop has been selected to represent all applications of wastewater for that crop during that quarter. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper quarterly sample has been selected to represent nutrients applied during that specific quarter. Day specific records are kept on site and available upon request.

All fresh water land applications during the report period have been summarized into one application per source per crop. One application date has been selected to represent the reporting period for that crop. The Annual Reports' nutrient budget is accurate to the Merced County website standards as the proper source sample has been selected to represent nutrients applied during the reporting period. Day specific records are kept on site and available upon request.

5.The Annual Report program lists the possibility of the report being incomplete. The report is complete. There were no samples of alfalfa hay taken during the reporting period as no waste was applied to the crop.

6. Due to high volumes of available canal water, most, if not all wells remained idle during the growing season. Therefore little to no well samples exist. They will be sampled again when operable.

ANNUAL REPORT VALIDATION INFORMATION

A. VALIDATION ERRORS

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Harvest Events

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Stuart Hall	Stuart Hall
PRINT OR TYPE NAME	PRINT OR TYPE NAME
11/29/23	11/29/23
DATE	DATE

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment
Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

Manure/Process Wastewater Tracking Manifests
Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents
Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring
Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring
Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

DELLAVALLE™
LABORATORY INC

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E1020-01	Tulare Canal	Ag Water	Moises Barajas		05/10/2023 12:16

Default Cooler Temperature on Receipt °C: -0.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

DELLAVALLE™
LABORATORY INC

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Sample Results

Sample: Tulare Canal
23E1020-01 (Water)

Sampled: 5/10/2023 12:16
Sampled By: Moises Barajas

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.07**	mmhos/cm	0.01	1		05/11/23 14:09	SM 2510 B		BEE0443
Electrical Conductivity umhos	**70.0**	umhos/cm	10.0	1		05/11/23 14:09	SM 2510 B		BEE0443
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	05/11/23 17:09	EPA 300.0		BEE0425
pH	**8.1**	units	1.0	1		05/11/23 14:09	SM 4500-H+	H	BEE0443
Total Filterable Solids (TDS)	**52.9**	mg/L	10.0	1		06/02/23 12:10	SM 2540 C		BEE0466
Temperature	**25.0**	°C	0.0	1		05/11/23 14:09	SM 2510 B		BEE0443

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DELLAVALLE™
LABORATORY INC

Sola Consulting Inc
PO Box 190
Tipton, CA 93272

Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0425										
Blank (BEE0425-BLK1)					Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEE0425-BLK2)					Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEE0425-BLK3)					Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEE0425-BS1)					Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000		108	90-110		
LCS (BEE0425-BS2)					Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		103	90-110		
Duplicate (BEE0425-DUP1)		**Source: 23E1023-01**			Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	0.6		0.1	mg/L		0.6			1.74	10
Duplicate (BEE0425-DUP2)		**Source: 23E1026-03**			Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	27.9		0.1	mg/L		27.9			0.222	10
Matrix Spike (BEE0425-MS1)		**Source: 23E1023-01**			Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	5.7		0.1	mg/L	5.000	0.6	101	90-110		
Matrix Spike (BEE0425-MS2)		**Source: 23E1026-03**			Prepared: 5/11/2023 Analyzed: 5/12/2023					
Nitrate Nitrogen as NO3N	32.6		0.1	mg/L	5.000	27.9	92.5	90-110		
Reference (BEE0425-SRM1)					Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		
Reference (BEE0425-SRM2)					Prepared & Analyzed: 5/11/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		

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Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0443										
Blank (BEE0443-BLK1)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.5		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEE0443-BLK2)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEE0443-BLK3)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.7		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEE0443-DUP1)		**Source: 23E0842-01**			Prepared & Analyzed: 5/11/2023					
pH	4.3		1.0	units		4.3			0.00	10
Electrical Conductivity	1.70		0.01	mmhos/cm		1.70			0.0588	10
Electrical Conductivity umhos	1700		10.0	umhos/cm		1700			0.0588	10
Duplicate (BEE0443-DUP2)		**Source: 23E1024-01**			Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	0.07		0.01	mmhos/cm		0.07			0.578	10
pH	8.1		1.0	units		8.2			0.737	10
Electrical Conductivity umhos	69.0		10.0	umhos/cm		69.4			0.578	10
Reference (BEE0443-SRM2)					Prepared & Analyzed: 5/11/2023					
pH	7.8			units	7.790		100	.7163-101.28		
Reference (BEE0443-SRM3)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEE0443-SRM4)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEE0443-SRM5)					Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEE0443-SRM6)					Prepared & Analyzed: 5/11/2023					

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Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0443 (Continued)										
Reference (BEE0443-SRM6)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEE0443-SRM7)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		99.8	97.5-102.5		
Reference (BEE0443-SRM8)					Prepared & Analyzed: 5/11/2023					
pH	4.0			units	4.000		99.8	97.5-102.5		

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Account# 00-0020655
Account Manager: Ben Nydam
Submitted By: Vince Sola

Received: 05/11/2023 8:59
Reported: 06/02/2023 13:29

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0466										
Blank (BEE0466-BLK1)					Prepared: 5/11/2023 Analyzed: 6/2/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEE0466-BS1)					Prepared: 5/11/2023 Analyzed: 6/2/2023					
Total Filterable Solids (TDS)	21.2		10.0	mg/L	2000		1.06	0-200		
Duplicate (BEE0466-DUP1)		**Source: 23E1078-01**			Prepared: 5/11/2023 Analyzed: 6/2/2023					
Total Filterable Solids (TDS)	1260		10.0	mg/L		1240			1.60	5
Duplicate (BEE0466-DUP2)		**Source: 23E1082-01**			Prepared: 5/11/2023 Analyzed: 6/2/2023					
Total Filterable Solids (TDS)	4850		10.0	mg/L		4750			2.08	5
Reference (BEE0466-SRM1)					Prepared: 5/11/2023 Analyzed: 6/2/2023					
Total Filterable Solids (TDS)	310			mg/L	325.0		95.4	90-110		

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05/11/23 08:59 23E1020

JG

DELLAVALLE LABORATORY, INC.

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

WATER WORK REQUEST

Acct No. (For Login Not Billing) Cons.

Bill To: 20655 | 8

Purchase Order No. | Results Needed By

Client: **Sola Consulting**

Canal: Tulare Irrigation District

Requested by: Vince Sola

No. of Samples: 1 | No. Bottles:

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

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

(X) DCW1: (EC, NO3-N, TDS)
(1) l L plastic, unpreserved (white)

Copy to	Email	Acct #
Vince Sola	solaconsultinging@gmail.com	N/A
Curti Family Farms	curtifamilyoffice@gmail.com	15771
Curti Family Inc	curtifamilyoffice@gmail.com	13258
Curtimade	bencurtifarms@yahoo.com	15775
Mancebo #1	onepasstillage@yahoo.com	19286

Copy to	Email	Acct #
Mancebo #2	onepasstillage@yahoo.com	19287
Rio Blanco	Lisa/jeff/rafael@mayflowerco.com (PDF results - No mail)	13323
S&S	Mon.Scheenstra@gmail.com steve.scheenstra@gmail.com	15850

Date sampled: 5-10-23

Sampled by: Maria Bernal

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

DESCRIPTION OF SAMPLES		Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1. Tulare Canal	Sampled From:	5-10-23	12:16pm		-0.6
2.	Sampled From:				

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Maria Bernal	DLI	5-10-23 12:16PM	2:02PM 5-10-23
Second				
Third				
Fourth	Jasmet	DLI	5/11/23 8:59	

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 6/30/2023
Location: Laboratory

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

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

Invoicing Information:

Client	Acct #	Invoicing	
Curti Family Farms	15771	$18.00	Price List
Curti Family Inc	13258	$18.00	Price List
Curtimade	15775	$18.00	Qrtly
Mancebo Holsteins #1	19286	$18.00	Qrtly
Mancebo Holsteins #2	19287	$18.00	Qrtly
Rio Blanco Dairy	13323	$18.00	Qrtly
S&S Dairy	15850	$18.00	Qrtly

Signature

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

ctf: update 2020

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☐ Other ☒ Hanford

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☐ ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

05/11/23 08:59 23E1020

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1571-01	Well #44 (Faucet @ Well)	Ag Water	Steven Sisney		07/20/2023 10:36

Default Cooler Temperature on Receipt °C: 5.1
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Sample Results

Sample: Well #44 (Faucet @ Well)
23G1571-01 (Water)

Sampled: 7/20/2023 10:36
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**130**	mg/L	10.0	1		07/27/23 14:18	SM 2320 B		BEG0753
Calcium	**25.9**	mg/L	0.1	1		07/31/23 15:28	EPA 200.7		BEG0740
Chloride	**14.5**	mg/L	0.2	1	250	07/22/23 00:19	EPA 300.0		BEG0805
Carbonate as CaCO3	ND	mg/L	1	1		07/27/23 14:18	SM 2320 B		BEG0753
Electrical Conductivity	**0.43**	mmhos/cm	0.01	1		07/27/23 14:18	SM 2510 B		BEG0753
Electrical Conductivity umhos	**430**	umhos/cm	10.0	1		07/27/23 14:18	SM 2510 B		BEG0753
Bicarbonate as CaCO3	**130**	mg/L	5.00	1		07/27/23 14:18	SM 2320 B		BEG0753
Potassium	**0.593**	mg/L	0.500	1		07/31/23 15:28	EPA 200.7		BEG0740
Magnesium	**1.1**	mg/L	0.1	1		07/31/23 15:28	EPA 200.7		BEG0740
Sodium	**68**	mg/L	1	1		07/31/23 15:28	EPA 200.7		BEG0740
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 10:36	Field		BEG0800
Nitrate Nitrogen as NO3N	**2.1**	mg/L	0.1	1	10	07/22/23 00:19	EPA 300.0		BEG0805
Hydroxide as CaCO3	ND	mg/L	1.00	1		07/27/23 14:18	SM 2320 B		BEG0753
pH	**8.0**	units	1.0	1		07/27/23 14:18	SM 4500-H+	H	BEG0753
Sulfate (SO4)	**52.6**	mg/L	0.5	1	250	07/22/23 00:19	EPA 300.0		BEG0805
Total Filterable Solids (TDS)	**285**	mg/L	10.0	1		07/28/23 15:53	SM 2540 C		BEG0941

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Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0740										
Blank (BEG0740-BLK1)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	ND		1	mg/L						
Calcium	ND		0.1	mg/L						
Potassium	ND		0.500	mg/L						
Magnesium	ND		0.1	mg/L						
Blank (BEG0740-BLK2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	ND		1	mg/L						
Calcium	ND		0.1	mg/L						
Potassium	ND		0.500	mg/L						
Magnesium	ND		0.1	mg/L						
LCS (BEG0740-BS1)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Potassium	39.6		0.500	mg/L	35.71		111	90-110		
Sodium	39		1	mg/L	35.71		110	90-110		
Calcium	39.9		0.1	mg/L	35.71		112	90-110		
Magnesium	41.0		0.1	mg/L	35.71		115	90-110		
LCS (BEG0740-BS2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	39		1	mg/L	35.71		110	90-110		
Potassium	39.8		0.500	mg/L	35.71		111	90-110		
Calcium	39.9		0.1	mg/L	35.71		112	90-110		
Magnesium	41.4		0.1	mg/L	35.71		116	90-110		
Duplicate (BEG0740-DUP1)		**Source: 23G1571-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Calcium	27.4		0.1	mg/L		25.9			5.51	15
Sodium	73		1	mg/L		68			7.22	15
Potassium	0.614		0.500	mg/L		0.593			3.47	15
Magnesium	1.2		0.1	mg/L		1.1			5.62	15
Matrix Spike (BEG0740-MS1)		**Source: 23G1571-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Calcium	64.8		0.1	mg/L	35.71	25.9	109	90-110		
Sodium	109		1	mg/L	35.71	68	116	90-110		
Potassium	39.2		0.500	mg/L	35.71	0.593	108	90-110		
Magnesium	40.4		0.1	mg/L	35.71	1.1	110	90-110		
Matrix Spike (BEG0740-MS2)		**Source: 23G1963-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	64		1	mg/L	35.71	25	109	90-110		
Potassium	41.4		0.500	mg/L	35.71	2.28	110	90-110		
Calcium	60.3		0.1	mg/L	35.71	23.4	103	90-110		
Magnesium	45.2		0.1	mg/L	35.71	6.9	107	90-110		
Reference (BEG0740-SRM2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	98			mg/L	91.50		107	90-110		

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DELLAVALLE™ LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0740 (Continued)										
Reference (BEG0740-SRM2)					Prepared: 7/27/2023	Analyzed: 7/31/2023				
Potassium	23.8			mg/L	21.90		109	90-110		
Reference (BEG0740-SRM3)					Prepared: 7/27/2023	Analyzed: 7/31/2023				
Calcium	82.1			mg/L	79.00		104	90-110		
Magnesium	32.4			mg/L	30.60		106	90-110		

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LABORATORY INC

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Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0753										
Blank (BEG0753-BLK1)					Prepared & Analyzed: 7/27/2023					
Hydroxide as CaCO3	ND		1.00	mg/L						
pH	5.4		1.0	units						
Carbonate as CaCO3	ND		1	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Blank (BEG0753-BLK2)					Prepared & Analyzed: 7/27/2023					
pH	5.5		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Hydroxide as CaCO3	ND		1.00	mg/L						
Alkalinity as CaCO3	ND		10.0	mg/L						
Carbonate as CaCO3	ND		1	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Blank (BEG0753-BLK3)					Prepared & Analyzed: 7/27/2023					
Carbonate as CaCO3	ND		1	mg/L						
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Hydroxide as CaCO3	ND		1.00	mg/L						
pH	5.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Duplicate (BEG0753-DUP1)		**Source: 23G1551-03**			Prepared: 7/20/2023 Analyzed: 7/27/2023					
Electrical Conductivity	0.77		0.01	mmhos/cm		0.77			0.0258	10
Alkalinity as CaCO3	99.2		10.0	mg/L		96.6			2.68	10
pH	8.3		1.0	units		8.3			0.00	10
Carbonate as CaCO3	ND		1	mg/L		ND				10
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
Electrical Conductivity umhos	774		10.0	umhos/cm		774			0.0259	10
Duplicate (BEG0753-DUP2)		**Source: 23G1574-03**			Prepared: 7/20/2023 Analyzed: 7/27/2023					
Alkalinity as CaCO3	8.71		10.0	mg/L		9.09			4.27	10
Carbonate as CaCO3	ND		1	mg/L		ND				10
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			0.625	10
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
pH	6.6		1.0	units		6.6			0.150	10
Electrical Conductivity umhos	31.9		10.0	umhos/cm		32.1			0.625	10
Reference (BEG0753-SRM1)					Prepared: 7/20/2023 Analyzed: 7/27/2023					

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DELLAVALLE™ LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0753 (Continued)										
Reference (BEG0753-SRM1)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
Electrical Conductivity	544			umhos/cm	538.0		101	90-110		
Alkalinity as CaCO3	41.5			mg/L	40.60		102	90-110		
Reference (BEG0753-SRM2)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
Electrical Conductivity	546			umhos/cm	538.0		102	90-110		
Alkalinity as CaCO3	41.6			mg/L	40.60		102	90-110		
Reference (BEG0753-SRM3)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
Electrical Conductivity	551			umhos/cm	538.0		102	90-110		
Alkalinity as CaCO3	39.7			mg/L	40.60		97.8	90-110		
Reference (BEG0753-SRM4)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEG0753-SRM5)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEG0753-SRM6)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEG0753-SRM7)					Prepared: 7/20/2023	Analyzed: 7/27/2023				
pH	7.8			units	7.790		100	.7163-101.28		

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0805										
Blank (BEG0805-BLK1)					Prepared & Analyzed: 7/21/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BEG0805-BLK2)					Prepared & Analyzed: 7/21/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BEG0805-BLK3)					Prepared & Analyzed: 7/22/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
LCS (BEG0805-BS1)					Prepared & Analyzed: 7/21/2023					
Chloride	4.9		0.2	mg/L	5.000		97.8	90-110		
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		101	90-110		
Sulfate (SO4)	4.7		0.5	mg/L	5.000		94.2	90-110		
LCS (BEG0805-BS2)					Prepared & Analyzed: 7/22/2023					
Chloride	4.9		0.2	mg/L	5.000		98.2	90-110		
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Sulfate (SO4)	4.7		0.5	mg/L	5.000		94.9	90-110		
Duplicate (BEG0805-DUP1)		**Source: 23G0146-01**			Prepared & Analyzed: 7/21/2023					
Chloride	22.8		0.2	mg/L		22.9			0.398	10
Nitrate Nitrogen as NO3N	2.4		0.1	mg/L		2.5			0.572	10
Sulfate (SO4)	98.7		0.5	mg/L		98.8			0.151	10
Duplicate (BEG0805-DUP2)		**Source: 23G1571-01**			Prepared & Analyzed: 7/22/2023					
Chloride	14.6		0.2	mg/L		14.5			0.755	10
Nitrate Nitrogen as NO3N	2.1		0.1	mg/L		2.1			0.800	10
Sulfate (SO4)	53.0		0.5	mg/L		52.6			0.767	10
Matrix Spike (BEG0805-MS1)		**Source: 23G0146-01**			Prepared & Analyzed: 7/21/2023					
Chloride	27.7		0.2	mg/L	5.000	22.9	95.4	90-110		
Nitrate Nitrogen as NO3N	7.6		0.1	mg/L	5.000	2.5	103	90-110		
Sulfate (SO4)	103		0.5	mg/L	5.000	98.8	81.9	90-110		
Matrix Spike (BEG0805-MS2)		**Source: 23G1571-01**			Prepared & Analyzed: 7/22/2023					
Chloride	19.5		0.2	mg/L	5.000	14.5	99.3	90-110		
Nitrate Nitrogen as NO3N	7.3		0.1	mg/L	5.000	2.1	103	90-110		
Sulfate (SO4)	57.4		0.5	mg/L	5.000	52.6	96.4	90-110		

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
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Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0805 (Continued)										
Reference (BEG0805-SRM1)					Prepared & Analyzed: 7/21/2023					
Chloride	12.6			mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9			mg/L	10.00		99.3	90-110		
Reference (BEG0805-SRM2)					Prepared & Analyzed: 7/21/2023					
Chloride	12.7			mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9			mg/L	10.00		99.0	90-110		
Reference (BEG0805-SRM3)					Prepared & Analyzed: 7/22/2023					
Chloride	12.7			mg/L	12.50		101	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	9.9			mg/L	10.00		99.3	90-110		

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LABORATORY INC

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18337 Rd 24
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Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/01/2023 12:22

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0941										
Blank (BEG0941-BLK1)					Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEG0941-BS1)					Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	37.5		10.0	mg/L	2000		1.88	0-200		
Duplicate (BEG0941-DUP1)		**Source: 23G1523-01**			Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	2830		10.0	mg/L		2750			2.87	10
Duplicate (BEG0941-DUP2)		**Source: 23G1819-02**			Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	313		10.0	mg/L		337			7.18	10
Reference (BEG0941-SRM1)					Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	353			mg/L	325.0		109	90-110		
Reference (BEG0941-SRM2)					Prepared: 7/25/2023	Analyzed: 7/28/2023				
Total Filterable Solids (TDS)	530			mg/L	495.0		107	90-110		

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07/21/23 07:13 23G1571

MM

DELLAVALLE LABORATORY, INC.

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

WATER WORK REQUEST

Bill To: Acct No. 15775 Cons. 08

Purchase Order No. Results Needed By

Client: Curtimade Dairy Inc.
Address: 18337 Road 24
City, State, Zip: Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled: 7-20-23

Sampled by: STEVE SIGNEX

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: No. Bottles: 1

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other

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

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

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

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

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

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

☐ Other

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	DW-4	Sampled From:				
2.	Well #34C	Sampled From:				
3.	Well #44	Sampled From: FAUCET @ WELL	7-20-23	1036	0	5.1
4.		Sampled From:				
5.		Sampled From:				
6.		Sampled From:				
7.		Sampled From:				
8.		Sampled From:				
9.		Sampled From:				
10.		Sampled From:				

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DLI		7-20-23 1200
Second	MM	DLI	7/21 7:13	
Third				
Fourth				

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

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___

Shipping
$ ___ In
$ ___ Out
Date ___

Signature

Sample received in cooler with ice?
| | Yes | | No

ctl update 2020

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

07/21/23 07:13 23G1571

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refrigerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1572-01	DW-41 (Faucet Well)	Ag Water	Steven Sisney		07/20/2023 11:00
23G1572-02	DW Shop (Faucet Well)	Ag Water	Steven Sisney		07/20/2023 10:03
23G1572-03	Well #30 (Faucet & Pipestand)	Ag Water	Steven Sisney		07/20/2023 9:16
23G1572-04	Well #30A (Pipestand)	Ag Water	Steven Sisney		07/20/2023 9:25
23G1572-05	Well #32A (Faucet Well)	Ag Water	Steven Sisney		07/20/2023 9:47
23G1572-06	Well #33A (Faucet Well)	Ag Water	Steven Sisney		07/20/2023 9:54
23G1572-07	Well #34B (Faucet & Pipestand)	Ag Water	Steven Sisney		07/20/2023 10:22

Default Cooler
Temperature on Receipt °C: 5.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results

Sample: DW-41 (Faucet Well)
23G1572-01 (Water)

Sampled: 7/20/2023 11:00
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.25**	mmhos/cm	0.01	1		07/28/23 11:02	SM 2510 B		BEG0840
Electrical Conductivity umhos	**1250**	umhos/cm	10.0	1		07/28/23 11:02	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 11:00	Field		BEG0802
Nitrate Nitrogen as NO3N	**27.9**	mg/L	0.1	1	10	07/21/23 19:56	EPA 300.0		BEG0806
pH	**7.4**	units	1.0	1		07/28/23 11:02	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:02	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: DW Shop (Faucet Well)
23G1572-02 (Water)

Sampled: 7/20/2023 10:03
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.95**	mmhos/cm	0.01	1		07/28/23 11:03	SM 2510 B		BEG0840
Electrical Conductivity umhos	**947**	umhos/cm	10.0	1		07/28/23 11:03	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 10:03	Field		BEG0802
Nitrate Nitrogen as NO3N	**16.5**	mg/L	0.1	1	10	07/21/23 20:17	EPA 300.0		BEG0806
pH	**7.4**	units	1.0	1		07/28/23 11:03	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:03	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: Well #30 (Faucet & Pipestand)
23G1572-03 (Water)

Sampled: 7/20/2023 9:16
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.50**	mmhos/cm	0.01	1		07/28/23 11:04	SM 2510 B		BEG0840
Electrical Conductivity umhos	**496**	umhos/cm	10.0	1		07/28/23 11:04	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 09:16	Field		BEG0802
Nitrate Nitrogen as NO3N	**2.6**	mg/L	0.1	1	10	07/21/23 20:38	EPA 300.0		BEG0806
pH	**7.9**	units	1.0	1		07/28/23 11:04	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:04	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: Well #30A (Pipestand)
23G1572-04 (Water)

Sampled: 7/20/2023 9:25
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.34**	mmhos/cm	0.01	1		07/28/23 11:12	SM 2510 B		BEG0840
Electrical Conductivity umhos	**344**	umhos/cm	10.0	1		07/28/23 11:12	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 09:25	Field		BEG0802
Nitrate Nitrogen as NO3N	**3.5**	mg/L	0.1	1	10	07/21/23 20:59	EPA 300.0		BEG0806
pH	**7.9**	units	1.0	1		07/28/23 11:12	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:12	SM 2510 B		BEG0840

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LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: Well #32A (Faucet Well)
23G1572-05 (Water)

Sampled: 7/20/2023 9:47
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.46**	mmhos/cm	0.01	1		07/28/23 11:13	SM 2510 B		BEG0840
Electrical Conductivity umhos	**455**	umhos/cm	10.0	1		07/28/23 11:13	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 09:47	Field		BEG0802
Nitrate Nitrogen as NO3N	**3.4**	mg/L	0.1	1	10	07/21/23 21:19	EPA 300.0		BEG0806
pH	**7.9**	units	1.0	1		07/28/23 11:13	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:13	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: Well #33A (Faucet Well)
23G1572-06 (Water)

Sampled: 7/20/2023 9:54
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.79**	mmhos/cm	0.01	1		07/28/23 11:14	SM 2510 B		BEG0840
Electrical Conductivity umhos	**794**	umhos/cm	10.0	1		07/28/23 11:14	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 09:54	Field		BEG0802
Nitrate Nitrogen as NO3N	**20.9**	mg/L	0.1	1	10	07/21/23 21:40	EPA 300.0		BEG0806
pH	**7.8**	units	1.0	1		07/28/23 11:14	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:14	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Sample Results
(Continued)

Sample: Well #34B (Faucet & Pipestand)
23G1572-07 (Water)

Sampled: 7/20/2023 10:22
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.11**	mmhos/cm	0.01	1		07/28/23 11:16	SM 2510 B		BEG0840
Electrical Conductivity umhos	**1110**	umhos/cm	10.0	1		07/28/23 11:16	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 10:22	Field		BEG0802
Nitrate Nitrogen as NO3N	**22.7**	mg/L	0.1	1	10	07/21/23 22:01	EPA 300.0		BEG0806
pH	**7.5**	units	1.0	1		07/28/23 11:16	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:16	SM 2510 B		BEG0840

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0806										
Blank (BEG0806-BLK1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG0806-BLK2)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEG0806-BS1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEG0806-DUP1)		**Source: 23G1572-04**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	3.6		0.1	mg/L		3.5			3.02	10
Matrix Spike (BEG0806-MS1)		**Source: 23G1572-04**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	8.6		0.1	mg/L	5.000	3.5	102	90-110		
Reference (BEG0806-SRM1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.1	90-110		
Reference (BEG0806-SRM2)					Prepared: 7/21/2023 Analyzed: 7/22/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.6	90-110		

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LABORATORY INC

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840										
Blank (BEG0840-BLK1)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.2		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEG0840-BLK2)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEG0840-BLK3)					Prepared & Analyzed: 7/28/2023					
pH	5.5		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEG0840-DUP1)		**Source: 23G1572-03**			Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	0.49		0.01	mmhos/cm		0.50			0.424	10
pH	7.9		1.0	units		7.9			0.127	10
Electrical Conductivity umhos	494		10.0	umhos/cm		496			0.424	10
Duplicate (BEG0840-DUP2)		**Source: 23G1765-01**			Prepared & Analyzed: 7/28/2023					
pH	6.9		1.0	units		7.1			1.71	10
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			0.637	10
Electrical Conductivity umhos	31.3		10.0	umhos/cm		31.5			0.637	10
Duplicate (BEG0840-DUP3)					Prepared: 7/28/2023 Analyzed: 7/31/2023					
pH	ND		1.0	units						10
Electrical Conductivity	ND		0.01	mmhos/cm						10
Electrical Conductivity umhos	ND		10.0	umhos/cm						10
Reference (BEG0840-SRM1)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	551			umhos/cm	538.0		102	90-110		
Reference (BEG0840-SRM2)					Prepared & Analyzed: 7/28/2023					
pH	7.8			units	7.790		101	.7163-101.28		
Reference (BEG0840-SRM3)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 07/31/2023 12:05

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840 (Continued)										
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEG0840-SRM5)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEG0840-SRM6)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM7)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM8)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		

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07/21/23 07:13 23G1572

MM

DELLAVALLE LABORATORY, INC.

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

WATER WORK REQUEST

Bill To: Acct No. 15775 Cons. 08

Purchase Order No. Results Needed By

Client: **Curtimade Dairy Inc.**
Address: 18337 Road 24
City, State, Zip: Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled: 7-20-23

Sampled by: STEVE SISNEY

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples: 7 No. Bottles: 7

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other

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

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

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

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

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

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

☐ Other

DESCRIPTION OF SAMPLES

			Sampled From	Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
	1.	DW-2					
	2.	DW-3					
✓	3.	DW-41	FAUCET @ WELL	7-20-23	1100	⊖	5.8
✓	4.	DW Shop	FAUCET @ WELL	7-20-23	1003	⊖	6.0
✓	5.	Well #30	FAUCET @ PIPESTAND	7-20-23	0916	⊖	5.2
✓	6.	Well #30A	PIPESTAND	7-20-23	0925	⊖	5.7
✓	7.	Well #32A	FAUCET @ WELL	7-20-23	0947	⊖	5.7
✓	8.	Well #33A	" "	7-20-23	0954	⊖	5.3
	9.	Well #34A	OFF				
✓	10.	Well #34B	FAUCET @ PIPESTAND	7-20-23	1022	⊖	5.9

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	STEVE	DLL		7-20-23 1200
Second	MM	DLL	7/21 7:13	
Third				
Fourth				

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___

Shipping
$ ___ In
$ ___ Out
Date ___

Signature ___

Sample received in cooler with ice?
| | Yes | | No

ctl:update 2020

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

07/21/23 07:13 23G1572

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refrigerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	✓	✓	✓	✓	✓	✓	✓			
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/08/2023 15:40

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1573-01	Well 39A (Facuet @ Well)	Ag Water	Steven Sisney		07/20/2023 11:02
23G1573-02	Well #40 (Faucet @ Standpipe)	Ag Water	Steven Sisney		07/20/2023 10:11
23G1573-03	Well #41A (Standpipe)	Ag Water	Steven Sisney		07/20/2023 10:46

Default Cooler Temperature on Receipt °C: 5.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/08/2023 15:40

Sample Results

Sample: Well 39A (Facuet @ Well)
23G1573-01 (Water)

Sampled: 7/20/2023 11:02
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.06**	mmhos/cm	0.01	1		07/28/23 11:17	SM 2510 B		BEG0840
Electrical Conductivity umhos	**1060**	umhos/cm	10.0	1		07/28/23 11:17	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.500	1		08/03/23 13:58	SM 4500-NH3 H		BEH0066
Ammonia (as N)	**0.250**	mg/L	0.00	1		07/20/23 11:02	Field		BEG0803
Nitrate Nitrogen as NO3N	**27.0**	mg/L	0.1	1	10	07/21/23 21:46	EPA 300.0		BEG0804
pH	**7.6**	units	1.0	1		07/28/23 11:17	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:17	SM 2510 B		BEG0840

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Ranch: 18337 Road 24 Tulare

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Reported: 08/08/2023 15:40

Sample Results
(Continued)

Sample: Well #40 (Faucet @ Standpipe)
23G1573-02 (Water)

Sampled: 7/20/2023 10:11
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.15**	mmhos/cm	0.01	1		07/28/23 11:18	SM 2510 B		BEG0840
Electrical Conductivity umhos	**1150**	umhos/cm	10.0	1		07/28/23 11:18	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 10:11	Field		BEG0803
Nitrate Nitrogen as NO3N	**29.3**	mg/L	0.1	1	10	07/21/23 22:06	EPA 300.0		BEG0804
pH	**7.6**	units	1.0	1		07/28/23 11:18	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:18	SM 2510 B		BEG0840

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LABORATORY INC

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/08/2023 15:40

Sample Results
(Continued)

Sample: Well #41A (Standpipe)
23G1573-03 (Water)

Sampled: 7/20/2023 10:46
Sampled By: Steven Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.03**	mmhos/cm	0.01	1		07/28/23 11:19	SM 2510 B		BEG0840
Electrical Conductivity umhos	**33.2**	umhos/cm	10.0	1		07/28/23 11:19	SM 2510 B		BEG0840
Ammonia (as N)	ND	mg/L	0.00	1		07/20/23 10:46	Field		BEG0803
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	07/21/23 22:25	EPA 300.0		BEG0804
pH	**7.5**	units	1.0	1		07/28/23 11:19	SM 4500-H+	H	BEG0840
Temperature	**25.0**	°C	0.0	1		07/28/23 11:19	SM 2510 B		BEG0840

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
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Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/08/2023 15:40

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0804										
Blank (BEG0804-BLK1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG0804-BLK2)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG0804-BLK3)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEG0804-BS1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		98.8	90-110		
LCS (BEG0804-BS2)					Prepared & Analyzed: 7/22/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.8	90-110		
Duplicate (BEG0804-DUP1)		**Source: 23G1516-02**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	0.4		0.1	mg/L		0.4			0.00	10
Duplicate (BEG0804-DUP2)		**Source: 23G1520-02**			Prepared & Analyzed: 7/22/2023					
Nitrate Nitrogen as NO3N	23.8		0.1	mg/L		23.6			0.775	10
Matrix Spike (BEG0804-MS1)		**Source: 23G1516-02**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	5.4		0.1	mg/L	5.000	0.4	101	90-110		
Matrix Spike (BEG0804-MS2)		**Source: 23G1520-02**			Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	29.0		0.1	mg/L	5.000	23.6	107	90-110		
Reference (BEG0804-SRM1)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.0	90-110		
Reference (BEG0804-SRM2)					Prepared & Analyzed: 7/21/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.5	90-110		
Reference (BEG0804-SRM3)					Prepared & Analyzed: 7/22/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.6	90-110		

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Ranch: 18337 Road 24 Tulare

Received: 07/21/2023 7:13
Reported: 08/08/2023 15:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840										
Blank (BEG0840-BLK1)					Prepared & Analyzed: 7/28/2023					
pH	5.2		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEG0840-BLK2)					Prepared & Analyzed: 7/28/2023					
pH	5.4		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEG0840-BLK3)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.5		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEG0840-DUP1)		**Source: 23G1572-03**			Prepared & Analyzed: 7/28/2023					
pH	7.9		1.0	units		7.9			0.127	10
Electrical Conductivity	0.49		0.01	mmhos/cm		0.50			0.424	10
Electrical Conductivity umhos	494		10.0	umhos/cm		496			0.424	10
Duplicate (BEG0840-DUP2)		**Source: 23G1765-01**			Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	0.03		0.01	mmhos/cm		0.03			0.637	10
pH	6.9		1.0	units		7.1			1.71	10
Electrical Conductivity umhos	31.3		10.0	umhos/cm		31.5			0.637	10
Duplicate (BEG0840-DUP3)					Prepared: 7/28/2023 Analyzed: 7/31/2023					
pH	ND		1.0	units						10
Electrical Conductivity	ND		0.01	mmhos/cm						10
Electrical Conductivity umhos	ND		10.0	umhos/cm						10
Reference (BEG0840-SRM1)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	551			umhos/cm	538.0		102	90-110		
Reference (BEG0840-SRM2)					Prepared & Analyzed: 7/28/2023					
pH	7.8			units	7.790		101	.7163-101.28		
Reference (BEG0840-SRM3)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					

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Ranch: 18337 Road 24 Tulare

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Reported: 08/08/2023 15:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0840 (Continued)										
Reference (BEG0840-SRM4)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEG0840-SRM5)					Prepared & Analyzed: 7/28/2023					
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEG0840-SRM6)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM7)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BEG0840-SRM8)					Prepared & Analyzed: 7/28/2023					
pH	4.1			units	4.000		102	97.5-102.5		

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Received: 07/21/2023 7:13
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0066										
Blank (BEH0066-BLK1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L						
Blank (BEH0066-BLK2)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L						
LCS (BEH0066-BS1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	9.68		0.500	mg/L	9.990		96.9	90-110		
LCS (BEH0066-BS2)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	9.66		0.500	mg/L	9.990		96.7	90-110		
Duplicate (BEH0066-DUP1)		**Source: 23G2095-02**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L		ND				10
Duplicate (BEH0066-DUP2)		**Source: 23H0325-01**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L		0.558				10
Matrix Spike (BEH0066-MS1)		**Source: 23G2095-02**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	10.9		0.500	mg/L	9.990	ND	110	90-110		
Matrix Spike (BEH0066-MS2)		**Source: 23H0325-01**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	12.6		0.500	mg/L	9.990	0.558	120	90-110		
Reference (BEH0066-SRM1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	5.01			mg/L	5.470		91.5	90-110		

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07/21/23 07:13 23G1573

MM

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6[illegible] 800 228-9896 • Fax 559 268-8174

7.21.23

WATER WORK REQUEST

Acct No. Cons.
Bill To: 15775 08

Purchase Order No. Results Needed By

No. of Samples 3 No. Bottles 3/4

Water Type:
- [x] Ag Water
- [ ] Supply Water
- [ ] Drinking
- [ ] Ground Water
- [ ] Other
- [ ] Wastewater
- [ ] Mon. Well

Client: **Curtimade Dairy Inc.**
Address: 18337 Road 24
City, State, Zip: Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled: 7-20-23

Sampled by: STEVE SISNEX

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

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

- [x] DWW1: (EC, pH, NO_3-N, NH_4-N Field Test) *(1) l L plastic, unpreserved (white)*
- [ ] DWW2: (DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS) *(1) l L plastic, unpreserved (white)*
- [ ] DCW1: (EC, NO_3-N, TDS) *(1) l L plastic, unpreserved (white)*
- [ ] DPW1: (EC, pH, NO_3-N, NH_4-N, TKN, TDS, TP, TK) *(1) l L plastic, unpreserved (white)*
- [ ] DPW2: (DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl) *(1) l L plastic, unpreserved (white)*
- [ ] Other

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	Well #35	Sampled From:				
2.	Well #36	Sampled From:				
3.	Well #39A	Sampled From: FAUCET @ WELL	7-20-23	1102	0.25	5.6
4.	Well #39C	Sampled From:				
5.	Well #40	Sampled From: FAUCET @ STAND PIPE	7-20-23	1011	0	4.9
6.	Well #41A	Sampled From: STAND PIPE	7-20-23	1046	0	5.3
7.	Well #42A	Sampled From: OFF				
8.	Well #43A	Sampled From: OFF				
9.		Sampled From:				
10.		Sampled From:				

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	SISO	DLI		7-20-23 1200
Second	MM	DLI	7/21 7:13	
Third				
Fourth				

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

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ____ Miles ____ Consulting ____

Shipping
$ _____ In
$ _____ Out

Amt Paid ____ Rec By ____ Check No. ____ Date ____

Signature _____

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

cft update 2020

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

07/21/23 07:13 23G1573

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refrigerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic	1									
	* pH Value	<2									
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1	1							
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										

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Curtimade Dairy Inc
18337 Rd 24
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Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G2097-01	DW-2 (Faucet @ Milk Barn)	Ag Water			07/27/2023 12:24
23G2097-02	DW-3 (Faucet @ Well)	Ag Water			07/27/2023 12:13
23G2097-03	Well #36 (Faucet @ Standpipe)	Ag Water			07/27/2023 12:03
23G2097-04	Well #39C (Faucet @ Standpipe)	Ag Water			07/27/2023 11:53
23G2097-05	Well #43A (Faucet @ Standpipe)	Ag Water			07/27/2023 11:42

Default Cooler Temperature on Receipt °C: -0.4

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Sample Results

Sample: DW-2 (Faucet @ Milk Barn)
23G2097-01 (Water)

Sampled: 7/27/2023 12:24
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.76**	mmhos/cm	0.01	1		07/31/23 15:21	SM 2510 B		BEG1123
Electrical Conductivity umhos	**762**	umhos/cm	10.0	1		07/31/23 15:21	SM 2510 B		BEG1123
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 12:24	Field		BEG1096
Nitrate Nitrogen as NO3N	**15.5**	mg/L	0.1	1	10	07/28/23 16:10	EPA 300.0		BEG1103
pH	**7.3**	units	1.0	1		07/31/23 15:21	SM 4500-H+	H	BEG1123
Temperature	**25.0**	°C	0.0	1		07/31/23 15:21	SM 2510 B		BEG1123

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Sample Results
(Continued)

Sample: DW-3 (Faucet @ Well)
23G2097-02 (Water)

Sampled: 7/27/2023 12:13
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.90**	mmhos/cm	0.01	1		07/31/23 15:22	SM 2510 B		BEG1123
Electrical Conductivity umhos	**900**	umhos/cm	10.0	1		07/31/23 15:22	SM 2510 B		BEG1123
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 12:13	Field		BEG1096
Nitrate Nitrogen as NO3N	**31.2**	mg/L	0.1	1	10	07/28/23 23:57	EPA 300.0		BEG1103
pH	**7.6**	units	1.0	1		07/31/23 15:22	SM 4500-H+	H	BEG1123
Temperature	**25.0**	°C	0.0	1		07/31/23 15:22	SM 2510 B		BEG1123

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Sample Results
(Continued)

Sample: Well #36 (Faucet @ Standpipe)
23G2097-03 (Water)

Sampled: 7/27/2023 12:03
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.76**	mmhos/cm	0.01	1		07/31/23 15:29	SM 2510 B		BEG1123
Electrical Conductivity umhos	**758**	umhos/cm	10.0	1		07/31/23 15:29	SM 2510 B		BEG1123
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 12:03	Field		BEG1096
Nitrate Nitrogen as NO3N	**28.2**	mg/L	0.1	1	10	07/29/23 00:17	EPA 300.0		BEG1103
pH	**7.8**	units	1.0	1		07/31/23 15:29	SM 4500-H+	H	BEG1123
Temperature	**25.0**	°C	0.0	1		07/31/23 15:29	SM 2510 B		BEG1123

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Sample Results
(Continued)

Sample: Well #39C (Faucet @ Standpipe)
23G2097-04 (Water)

Sampled: 7/27/2023 11:53
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.61**	mmhos/cm	0.01	1		07/31/23 15:30	SM 2510 B		BEG1123
Electrical Conductivity umhos	**614**	umhos/cm	10.0	1		07/31/23 15:30	SM 2510 B		BEG1123
Ammonia (as N)	ND	mg/L	0.500	1		08/03/23 14:04	SM 4500-NH3 H		BEH0066
Ammonia (as N)	**0.250**	mg/L	0.00	1		07/27/23 11:53	Field		BEG1096
Nitrate Nitrogen as NO3N	**12.7**	mg/L	0.1	1	10	07/29/23 00:37	EPA 300.0		BEG1103
pH	**7.8**	units	1.0	1		07/31/23 15:30	SM 4500-H+	H	BEG1123
Temperature	**25.0**	°C	0.0	1		07/31/23 15:30	SM 2510 B		BEG1123

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LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Sample Results
(Continued)

Sample: Well #43A (Faucet @ Standpipe)
23G2097-05 (Water)

Sampled: 7/27/2023 11:42
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.98**	mmhos/cm	0.01	1		07/31/23 15:32	SM 2510 B		BEG1123
Electrical Conductivity umhos	**978**	umhos/cm	10.0	1		07/31/23 15:32	SM 2510 B		BEG1123
Ammonia (as N)	ND	mg/L	0.500	1		08/03/23 14:05	SM 4500-NH3 H		BEH0066
Ammonia (as N)	**0.250**	mg/L	0.00	1		07/27/23 11:42	Field		BEG1096
Nitrate Nitrogen as NO3N	**22.6**	mg/L	0.1	1	10	07/29/23 00:56	EPA 300.0		BEG1103
pH	**7.7**	units	1.0	1		07/31/23 15:32	SM 4500-H+	H	BEG1123
Temperature	**25.0**	°C	0.0	1		07/31/23 15:32	SM 2510 B		BEG1123

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1103										
Blank (BEG1103-BLK1)					Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG1103-BLK2)					Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEG1103-BLK3)					Prepared: 7/28/2023 Analyzed: 7/29/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEG1103-BS1)					Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		101	90-110		
LCS (BEG1103-BS2)					Prepared: 7/28/2023 Analyzed: 7/29/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEG1103-DUP1)		**Source: 23G2097-01**			Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	15.6		0.1	mg/L		15.5			0.418	10
Duplicate (BEG1103-DUP2)		**Source: 23G2097-03**			Prepared: 7/28/2023 Analyzed: 7/29/2023					
Nitrate Nitrogen as NO3N	28.3		0.1	mg/L		28.2			0.471	10
Matrix Spike (BEG1103-MS1)		**Source: 23G2097-01**			Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	21.0		0.1	mg/L	5.000	15.5	109	90-110		
Matrix Spike (BEG1103-MS2)		**Source: 23G2097-03**			Prepared: 7/28/2023 Analyzed: 7/29/2023					
Nitrate Nitrogen as NO3N	33.4		0.1	mg/L	5.000	28.2	104	90-110		
Reference (BEG1103-SRM1)					Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Reference (BEG1103-SRM2)					Prepared & Analyzed: 7/28/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEG1103-SRM3)					Prepared: 7/28/2023 Analyzed: 7/29/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		

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Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1123										
Blank (BEG1123-BLK1)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	5.7		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEG1123-BLK2)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEG1123-BLK3)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	5.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEG1123-DUP1)		**Source: 23G2091-02**			Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	0.26		0.01	mmhos/cm		0.26			1.08	10
pH	7.7		1.0	units		7.6			1.31	10
Electrical Conductivity umhos	258		10.0	umhos/cm		261			1.08	10
Duplicate (BEG1123-DUP2)		**Source: 23G2097-05**			Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	0.98		0.01	mmhos/cm		0.98			0.194	10
pH	7.8		1.0	units		7.7			0.516	10
Electrical Conductivity umhos	980		10.0	umhos/cm		978			0.194	10
Reference (BEG1123-SRM1)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	508			umhos/cm	538.0		94.5	90-110		
Reference (BEG1123-SRM2)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	7.8			units	7.790		100	.7163-101.28		
Reference (BEG1123-SRM3)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	945			umhos/cm	1000		94.5	90-110		
Electrical Conductivity umhos	945			umhos/cm	1000		94.5	90-110		
Reference (BEG1123-SRM4)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	942			umhos/cm	1000		94.2	90-110		
Electrical Conductivity umhos	942			umhos/cm	1000		94.2	90-110		
Reference (BEG1123-SRM5)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	952			umhos/cm	1000		95.2	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1123 (Continued)										
Reference (BEG1123-SRM5)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity umhos	952			umhos/cm	1000		95.2	90-110		
Reference (BEG1123-SRM6)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEG1123-SRM7)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEG1123-SRM8)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/08/2023 16:28

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0066										
Blank (BEH0066-BLK1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L						
Blank (BEH0066-BLK2)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L						
LCS (BEH0066-BS1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	9.68		0.500	mg/L	9.990		96.9	90-110		
LCS (BEH0066-BS2)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	9.66		0.500	mg/L	9.990		96.7	90-110		
Duplicate (BEH0066-DUP1)		**Source: 23G2095-02**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L		ND				10
Duplicate (BEH0066-DUP2)		**Source: 23H0325-01**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	ND		0.500	mg/L		0.558				10
Matrix Spike (BEH0066-MS1)		**Source: 23G2095-02**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	10.9		0.500	mg/L	9.990	ND	110	90-110		
Matrix Spike (BEH0066-MS2)		**Source: 23H0325-01**			Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	12.6		0.500	mg/L	9.990	0.558	120	90-110		
Reference (BEH0066-SRM1)					Prepared: 8/2/2023	Analyzed: 8/3/2023				
Ammonia (as N)	5.01			mg/L	5.470		91.5	90-110		

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07/28/23 07:00 23G2097

WATER WORK REQUEST

Bill To: Acct No. 15775 Cons. 08

Purchase Order No. Results Needed By

Client: Curtimade Dairy Inc.
Address: 18337 Road 24
City, State, Zip: Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled

Sampled by

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

DELLAVALLE LABORATORY, INC.

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

No. of Samples 5 No. Bottles 5

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other

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

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

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

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

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

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

☐ Other

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	DW-2	Sampled From: FAUCET @ MILK BARN	7-27-23	1224	0	-0.4
2.	DW-3	Sampled From: FAUCET @ WELL	7-27-23	1213	0	-0.6
3.	Well #34A	Sampled From: OFF				
4.	Well #35	Sampled From: OFF				
5.	Well #36	Sampled From: FAUCET @ STANDPIPE	7-27-23	1203	0	-0.8
6.	Well #39C	Sampled From: FAUCET @ STANDPIPE	7-27-23	1153	0.25	-0.8
7.	Well #42A	Sampled From: OFF				
8.	Well #43A	Sampled From: FAUCET @ STANDPIPE	7-27-23	1142	0.25	-0.3
9.		Sampled From:				
10.		Sampled From:				

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DL		7-27-23 1328
Second				
Third	[illegible]	DLI	7-28 0800	
Fourth				

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

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ____ Miles ____ Consulting ____
Amt Paid ____ Rec By ____ Check No. ____

Shipping
$ ____ In
$ ____ Out
Date ____

Signature

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

ctt update 2020

07/28/23 07:00 23G2097

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refrigerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☐ Box ☐ None ☐ **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic				1	1					
Plastics	* pH Value				<2	<2					
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1	1	1	1					
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	Other:										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 07/28/2023 7:00
Reported: 08/07/2023 09:29

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G2099-01	DW-4 (Faucet @ M Tank W. Barn)	Ag Water			07/27/2023 12:33

Default Cooler Temperature on Receipt °C: -0.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Reported: 08/07/2023 09:29

Sample Results

Sample: DW-4 (Faucet @ M Tank W. Barn)
23G2099-01 (Water)

Sampled: 7/27/2023 12:33
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	**189**	mg/L	10.0	1		07/31/23 14:51	SM 2320 B		BEG1124
Calcium	**70.9**	mg/L	0.1	1		07/31/23 15:54	EPA 200.7		BEG0740
Chloride	**33.6**	mg/L	0.2	1	250	07/28/23 22:49	EPA 300.0		BEG1101
Carbonate as CaCO3	ND	mg/L	1	1		07/31/23 14:51	SM 2320 B		BEG1124
Electrical Conductivity	**0.78**	mmhos/cm	0.01	1		07/31/23 14:51	SM 2510 B		BEG1124
Electrical Conductivity umhos	**777**	umhos/cm	10.0	1		07/31/23 14:51	SM 2510 B		BEG1124
Bicarbonate as CaCO3	**189**	mg/L	5.00	1		07/31/23 14:51	SM 2320 B		BEG1124
Potassium	**0.830**	mg/L	0.500	1		07/31/23 15:54	EPA 200.7		BEG0740
Magnesium	**2.3**	mg/L	0.1	1		07/31/23 15:54	EPA 200.7		BEG0740
Sodium	**115**	mg/L	1	1		07/31/23 15:54	EPA 200.7		BEG0740
Ammonia (as N)	ND	mg/L	0.00	1		07/27/23 12:33	Field		BEG1097
Nitrate Nitrogen as NO3N	**26.0**	mg/L	0.1	1	10	07/28/23 22:49	EPA 300.0		BEG1101
Hydroxide as CaCO3	ND	mg/L	1.00	1		07/31/23 14:51	SM 2320 B		BEG1124
pH	**7.9**	units	1.0	1		07/31/23 14:51	SM 4500-H+	H	BEG1124
Sulfate (SO4)	**80.2**	mg/L	0.5	1	250	07/28/23 22:49	EPA 300.0		BEG1101
Total Filterable Solids (TDS)	**538**	mg/L	10.0	1		08/03/23 14:40	SM 2540 C		BEG1156

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Reported: 08/07/2023 09:29

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0740										
Blank (BEG0740-BLK1)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Potassium	ND		0.500	mg/L						
Sodium	ND		1	mg/L						
Calcium	ND		0.1	mg/L						
Magnesium	ND		0.1	mg/L						
Blank (BEG0740-BLK2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	ND		1	mg/L						
Potassium	ND		0.500	mg/L						
Calcium	ND		0.1	mg/L						
Magnesium	ND		0.1	mg/L						
LCS (BEG0740-BS1)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	39		1	mg/L	35.71		110	90-110		
Calcium	39.9		0.1	mg/L	35.71		112	90-110		
Potassium	39.6		0.500	mg/L	35.71		111	90-110		
Magnesium	41.0		0.1	mg/L	35.71		115	90-110		
LCS (BEG0740-BS2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	39		1	mg/L	35.71		110	90-110		
Potassium	39.8		0.500	mg/L	35.71		111	90-110		
Calcium	39.9		0.1	mg/L	35.71		112	90-110		
Magnesium	41.4		0.1	mg/L	35.71		116	90-110		
Duplicate (BEG0740-DUP1)		**Source: 23G1571-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	73		1	mg/L		68			7.22	15
Calcium	27.4		0.1	mg/L		25.9			5.51	15
Potassium	0.614		0.500	mg/L		0.593			3.47	15
Magnesium	1.2		0.1	mg/L		1.1			5.62	15
Matrix Spike (BEG0740-MS1)		**Source: 23G1571-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Calcium	64.8		0.1	mg/L	35.71	25.9	109	90-110		
Sodium	109		1	mg/L	35.71	68	116	90-110		
Potassium	39.2		0.500	mg/L	35.71	0.593	108	90-110		
Magnesium	40.4		0.1	mg/L	35.71	1.1	110	90-110		
Matrix Spike (BEG0740-MS2)		**Source: 23G1963-01**			Prepared: 7/27/2023 Analyzed: 7/31/2023					
Calcium	60.3		0.1	mg/L	35.71	23.4	103	90-110		
Potassium	41.4		0.500	mg/L	35.71	2.28	110	90-110		
Sodium	64		1	mg/L	35.71	25	109	90-110		
Magnesium	45.2		0.1	mg/L	35.71	6.9	107	90-110		
Reference (BEG0740-SRM2)					Prepared: 7/27/2023 Analyzed: 7/31/2023					
Sodium	98			mg/L	91.50		107	90-110		

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Received: 07/28/2023 7:00
Reported: 08/07/2023 09:29

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0740 (Continued)										
Reference (BEG0740-SRM2)					Prepared: 7/27/2023	Analyzed: 7/31/2023				
Potassium	23.8			mg/L	21.90		109	90-110		
Reference (BEG0740-SRM3)					Prepared: 7/27/2023	Analyzed: 7/31/2023				
Calcium	82.1			mg/L	79.00		104	90-110		
Magnesium	32.4			mg/L	30.60		106	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1101										
Blank (BEG1101-BLK1)					Prepared & Analyzed: 7/28/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BEG1101-BLK2)					Prepared & Analyzed: 7/28/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
Blank (BEG1101-BLK3)					Prepared & Analyzed: 7/29/2023					
Chloride	ND		0.2	mg/L						
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Sulfate (SO4)	ND		0.5	mg/L						
LCS (BEG1101-BS1)					Prepared & Analyzed: 7/28/2023					
Chloride	5.0		0.2	mg/L	5.000		99.3	90-110		
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Sulfate (SO4)	4.8		0.5	mg/L	5.000		95.2	90-110		
LCS (BEG1101-BS2)					Prepared & Analyzed: 7/29/2023					
Chloride	5.1		0.2	mg/L	5.000		101	90-110		
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		104	90-110		
Sulfate (SO4)	4.8		0.5	mg/L	5.000		97.0	90-110		
Duplicate (BEG1101-DUP1)		**Source: 23G2013-02**			Prepared & Analyzed: 7/28/2023					
Chloride	20.2		0.2	mg/L		20.3			0.478	10
Nitrate Nitrogen as NO3N	6.3		0.1	mg/L		6.3			0.429	10
Sulfate (SO4)	37.5		0.5	mg/L		37.6			0.293	10
Duplicate (BEG1101-DUP2)		**Source: 23G2090-05**			Prepared & Analyzed: 7/29/2023					
Chloride	18.6		0.2	mg/L		18.6			0.435	10
Nitrate Nitrogen as NO3N	0.03		0.1	mg/L		0.03			2.99	10
Sulfate (SO4)	7.3		0.5	mg/L		7.3			0.628	10
Matrix Spike (BEG1101-MS1)		**Source: 23G2013-02**			Prepared & Analyzed: 7/28/2023					
Chloride	24.8		0.2	mg/L	5.000	20.3	89.6	90-110		
Nitrate Nitrogen as NO3N	11.3		0.1	mg/L	5.000	6.3	101	90-110		
Sulfate (SO4)	42.0		0.5	mg/L	5.000	37.6	88.2	90-110		
Matrix Spike (BEG1101-MS2)		**Source: 23G2090-05**			Prepared & Analyzed: 7/29/2023					
Chloride	23.3		0.2	mg/L	5.000	18.6	95.4	90-110		
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000	0.03	104	90-110		
Sulfate (SO4)	12.6		0.5	mg/L	5.000	7.3	106	90-110		

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Ranch: 18337 Road 24 Tulare

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1101 (Continued)										
Reference (BEG1101-SRM1)					Prepared & Analyzed: 7/28/2023					
Chloride	12.7			mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Sulfate (SO4)	10.0			mg/L	10.00		99.7	90-110		
Reference (BEG1101-SRM2)					Prepared & Analyzed: 7/28/2023					
Chloride	12.8			mg/L	12.50		102	90-110		
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Sulfate (SO4)	10.0			mg/L	10.00		100	90-110		
Reference (BEG1101-SRM3)					Prepared & Analyzed: 7/29/2023					
Chloride	12.9			mg/L	12.50		103	90-110		
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Sulfate (SO4)	10.1			mg/L	10.00		101	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1124										
Blank (BEG1124-BLK1)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Carbonate as CaCO3	ND		1	mg/L						
Hydroxide as CaCO3	ND		1.00	mg/L						
pH	5.2		1.0	units						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEG1124-BLK2)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Carbonate as CaCO3	ND		1	mg/L						
Hydroxide as CaCO3	ND		1.00	mg/L						
Alkalinity as CaCO3	ND		10.0	mg/L						
pH	5.4		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEG1124-BLK3)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Carbonate as CaCO3	ND		1	mg/L						
pH	5.5		1.0	units						
Hydroxide as CaCO3	ND		1.00	mg/L						
Alkalinity as CaCO3	ND		10.0	mg/L						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Bicarbonate as CaCO3	ND		5.00	mg/L						
Duplicate (BEG1124-DUP1)		**Source: 23G1878-01**			Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	1.30		0.01	mmhos/cm		1.30			0.407	10
pH	8.3		1.0	units		8.2			0.485	10
Carbonate as CaCO3	ND		1	mg/L		ND				10
Alkalinity as CaCO3	688		10.0	mg/L		667			3.10	10
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
Electrical Conductivity umhos	1300		10.0	umhos/cm		1300			0.407	10
Duplicate (BEG1124-DUP2)		**Source: 23G2013-01**			Prepared: 7/28/2023	Analyzed: 7/31/2023				
Hydroxide as CaCO3	ND		1.00	mg/L		ND				10
pH	7.9		1.0	units		7.6			4.00	10
Electrical Conductivity	0.44		0.01	mmhos/cm		0.45			2.01	10
Alkalinity as CaCO3	106		10.0	mg/L		108			1.38	10
Carbonate as CaCO3	ND		1	mg/L		ND				10
Electrical Conductivity umhos	442		10.0	umhos/cm		452			2.01	10
Reference (BEG1124-SRM1)					Prepared: 7/28/2023	Analyzed: 7/31/2023				

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1124 (Continued)										
Reference (BEG1124-SRM1)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	528			umhos/cm	538.0		98.2	90-110		
Alkalinity as CaCO3	39.7			mg/L	40.60		97.8	90-110		
Reference (BEG1124-SRM2)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Alkalinity as CaCO3	40.2			mg/L	40.60		99.0	90-110		
Electrical Conductivity	526			umhos/cm	538.0		97.7	90-110		
Reference (BEG1124-SRM3)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
Electrical Conductivity	518			umhos/cm	538.0		96.3	90-110		
Alkalinity as CaCO3	40.3			mg/L	40.60		99.2	90-110		
Reference (BEG1124-SRM4)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		99.5	97.5-102.5		
Reference (BEG1124-SRM5)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEG1124-SRM6)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	4.0			units	4.000		99.5	97.5-102.5		
Reference (BEG1124-SRM7)					Prepared: 7/28/2023	Analyzed: 7/31/2023				
pH	5.8			units	5.820		100	28178-101.7		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG1156										
Blank (BEG1156-BLK1)					Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEG1156-BS1)					Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	25.0		10.0	mg/L	2000		1.25	0-200		
Duplicate (BEG1156-DUP1)		**Source: 23G2085-03**			Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	935		10.0	mg/L		895			4.37	10
Duplicate (BEG1156-DUP2)		**Source: 23G2098-01**			Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	3700		10.0	mg/L		3480			6.27	10
Reference (BEG1156-SRM1)					Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	333			mg/L	325.0		103	90-110		
Reference (BEG1156-SRM2)					Prepared: 7/31/2023	Analyzed: 8/3/2023				
Total Filterable Solids (TDS)	483			mg/L	495.0		97.6	90-110		

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07/28/23 07:00 23G2099

DELLAVALLE LABORATORY, INC.

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

WATER WORK REQUEST

Bill To: Acct No. 15775 Cons. 08

Purchase Order No. Results Needed By

Client: **Curtimade Dairy Inc.**
Address: 18337 Road 24
City, State, Zip: Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled

Sampled by

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

No. of Samples 1 No. Bottles 1

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other

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

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

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

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

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

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

☐ Other

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	~~Well #34C~~	Sampled From: NOT CONNECTED				
2.	DW-4	Sampled From: FAUCET @ TANK W. BARN	1233	7-27-23	0	-0.3
3.		Sampled From:				
4.		Sampled From:				
5.		Sampled From:				
6.		Sampled From:				
7.		Sampled From:				
8.		Sampled From:				
9.		Sampled From:				
10.		Sampled From:				

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	P21		7-27-23 1528
Second				
Third				
Fourth	[illegible]	[illegible]	7/28 0700	

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

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ___ Miles ___ Consulting ___

Shipping
$ ___ In
$ ___ Out

Amt Paid ___ Rec By ___ Check No. ___ Date ___

Signature

Sample received in cooler with ice?
| | Yes | | No

ctt update 2020

07/28/23 07:00 23G2099

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refrigerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☐ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										

DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H0629-01	Well #35 (Faucet @ Standpipe)	Ag Water	Steve Sisney		08/03/2023 7:49
23H0629-02	Well #34A (Faucet @ Standpipe)	Ag Water	Steve Sisney		08/03/2023 7:27

Default Cooler Temperature on Receipt °C: -0.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Sample Results

Sample: Well #35 (Faucet @ Standpipe)
23H0629-01 (Water)

Sampled: 8/3/2023 7:49
Sampled By: Steve Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.46**	mmhos/cm	0.01	1		08/04/23 16:00	SM 2510 B		BEH0248
Electrical Conductivity umhos	**460**	umhos/cm	10.0	1		08/04/23 16:00	SM 2510 B		BEH0248
Ammonia (as N)	ND	mg/L	0.500	1		08/08/23 16:42	SM 4500-NH3 H		BEH0348
Ammonia (as N)	**0.250**	mg/L	0.00	1		08/03/23 07:49	Field		BEH0230
Nitrate Nitrogen as NO3N	**10.5**	mg/L	0.1	1	10	08/05/23 02:01	EPA 300.0		BEH0236
pH	**8.2**	units	1.0	1		08/04/23 16:00	SM 4500-H+	H	BEH0248
Temperature	**25.0**	°C	0.0	1		08/04/23 16:00	SM 2510 B		BEH0248

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LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Sample Results
(Continued)

Sample: Well #34A (Faucet @ Standpipe)
23H0629-02 (Water)

Sampled: 8/3/2023 7:27
Sampled By: Steve Sisney

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.86**	mmhos/cm	0.01	1		08/04/23 16:01	SM 2510 B		BEH0248
Electrical Conductivity umhos	**863**	umhos/cm	10.0	1		08/04/23 16:01	SM 2510 B		BEH0248
Ammonia (as N)	ND	mg/L	0.00	1		08/03/23 07:27	Field		BEH0230
Nitrate Nitrogen as NO3N	**17.6**	mg/L	0.1	1	10	08/05/23 02:20	EPA 300.0		BEH0236
pH	**7.9**	units	1.0	1		08/04/23 16:01	SM 4500-H+	H	BEH0248
Temperature	**25.0**	°C	0.0	1		08/04/23 16:01	SM 2510 B		BEH0248

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DELLAVALLE™
LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0236										
Blank (BEH0236-BLK1)					Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0236-BLK2)					Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH0236-BLK3)					Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH0236-BS1)					Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEH0236-BS2)					Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
Duplicate (BEH0236-DUP1)		**Source: 23H0614-05**			Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	0.7		0.1	mg/L		0.7			0.670	10
Duplicate (BEH0236-DUP2)		**Source: 23H0614-07**			Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	0.06		0.1	mg/L		0.06			1.77	10
Matrix Spike (BEH0236-MS1)		**Source: 23H0614-05**			Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L	5.000	0.7	95.4	90-110		
Matrix Spike (BEH0236-MS2)		**Source: 23H0614-07**			Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000	0.06	98.7	90-110		
Reference (BEH0236-SRM1)					Prepared & Analyzed: 8/4/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		99.9	90-110		
Reference (BEH0236-SRM2)					Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Reference (BEH0236-SRM3)					Prepared & Analyzed: 8/5/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		

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DELLAVALLE™ LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0248										
Blank (BEH0248-BLK1)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.3		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEH0248-BLK2)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.6		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEH0248-BLK3)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.0		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEH0248-DUP1)		**Source: 23H0619-03**			Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	0.93		0.01	mmhos/cm		0.93			0.322	10
pH	7.9		1.0	units		7.9			0.507	10
Electrical Conductivity umhos	931		10.0	umhos/cm		934			0.322	10
Duplicate (BEH0248-DUP2)		**Source: 23H0631-01**			Prepared & Analyzed: 8/4/2023					
pH	7.6		1.0	units		7.5			0.793	10
Electrical Conductivity	3.34		0.01	mmhos/cm		3.36			0.511	10
Electrical Conductivity umhos	3340		10.0	umhos/cm		3360			0.511	10
Reference (BEH0248-SRM1)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	553			umhos/cm	538.0		103	90-110		
Reference (BEH0248-SRM2)					Prepared & Analyzed: 8/4/2023					
pH	7.9			units	7.790		101	.7163-101.28		
Reference (BEH0248-SRM3)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEH0248-SRM4)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEH0248-SRM5)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		

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18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0248 (Continued)										
Reference (BEH0248-SRM5)					Prepared & Analyzed: 8/4/2023					
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEH0248-SRM6)					Prepared & Analyzed: 8/4/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEH0248-SRM7)					Prepared & Analyzed: 8/4/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEH0248-SRM8)					Prepared & Analyzed: 8/4/2023					
pH	4.0			units	4.000		100	97.5-102.5		

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LABORATORY INC

Curtimade Dairy Inc
18337 Rd 24
Tulare, CA 93274

Account# 00-0015775
Account Manager: Ben Nydam
Submitted By: John Martin
Ranch: 18337 Road 24 Tulare

Received: 08/04/2023 7:15
Reported: 08/14/2023 11:24

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0348										
Blank (BEH0348-BLK1)					Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	ND		0.500	mg/L						
Blank (BEH0348-BLK2)					Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	ND		0.500	mg/L						
LCS (BEH0348-BS1)					Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	9.59		0.500	mg/L	9.990		96.0	90-110		
LCS (BEH0348-BS2)					Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	9.87		0.500	mg/L	9.990		98.8	90-110		
Duplicate (BEH0348-DUP1)		**Source: 23H0620-02**			Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	4.55		0.500	mg/L		4.32			5.28	10
Duplicate (BEH0348-DUP2)		**Source: 23H0751-01**			Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	6.64		0.500	mg/L		6.62			0.205	10
Matrix Spike (BEH0348-MS1)		**Source: 23H0620-02**			Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	14.4		0.500	mg/L	9.990	4.32	101	90-110		
Matrix Spike (BEH0348-MS2)		**Source: 23H0751-01**			Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	18.7		0.500	mg/L	9.990	6.62	121	90-110		
Reference (BEH0348-SRM1)					Prepared & Analyzed: 8/8/2023					
Ammonia (as N)	4.24			mg/L	5.470		77.6	90-110		

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13H0629

08/04/23 07:15 23H0629

DELLAVALLE LABORATORY, INC.

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

Bill To: Acct No. 15775 Cons. 08

No. of Samples 2 No. Bottles 3

Purchase Order No. Results Needed By

Water Type: ☐ Drinking ☐ Wastewater ☑ Ag Water ☐ Ground Water ☐ Mon. Well ☐ Supply Water ☐ Other

Client **Curtimade Dairy Inc.**
Address 18337 Road 24
City, State, Zip Tulare, CA 93274
Email: bencurtifarms@yahoo.com

Copy to: solaconsultinginc@gmail.com; farmallmman@aol.com

Requested by/Cell: John Martin 804-6477

Facility: 18337 Road 24 Tulare

Date sampled 8-3-23

Sampled by STEVE SISNEY

☑ QA/QC Document ☑ Copy of Chain ☐ RWQCB

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

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

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

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

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

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

☐ Other

DESCRIPTION OF SAMPLES

			Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
1.	Well #35	Sampled From: FAUCET @ STANDPIPE	8-3-23	0749	0.25	-0.4
2.	Well #34A	Sampled From: FAUCET @ STANDPIPE	8-3-23	0727	0	0.4
3.	Well #42A	Sampled From:				
4.		Sampled From:				
5.		Sampled From:				
6.		Sampled From:				
7.		Sampled From:				
8.		Sampled From:				
9.		Sampled From:				
10.		Sampled From:				

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

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[illegible]	DLI		8-3-23 1215
Second				
Third				
Fourth	[illegible]	DLI	8/4 0715	

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

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

Invoicing Information:
Sola Qrtly 2023
Sampling Hrs ___ Miles ___ Consulting ___
Amt Paid ___ Rec By ___ Check No. ___

Shipping
$ ___ In
$ ___ Out
Date ___

Signature ___

Sample received in cooler with ice?
| | Yes | | No

ctl update 2020

08/04/23 07:15 23H0629

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refrigerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☐ Box ☐ None ☐ **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1	1								
Plastics	* pH Value	2	2								
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1								
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

Manure Tracking Manifest

Operator Information:

Name of Operator: Stuart Hall

Name of Dairy Facility: Custom Made Dairy

Facility Address: 18337 Road 24 Tulare CA 93274
Number and Street City Zip Code

Contact Person Name and Phone Number:

Manure Hauler Information:

Name of Hauling Company/Person: Circle T Farms Inc

Address of Hauling Company/Person: 20920 Hwy 43 Corcoran, CA 93212
Number and Street City Zip Code

Contact Person Name and Phone Number: Fred Holt (559) 240-4707

Destination Information:

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

Contact Information of Composting Facility, Broker, Farmer, or Other (as identified above):
Ben Curt House
Name Number and Street City Zip Code Phone Number

Manure Destination Address or Assessor's Parcel Number:
Zumwalt + Enterprise 164-010-008, 164-010-009
Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: 7/28/23

Amount Hauled:

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

Manure: 562.5 (Tons) or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 80%

Manure Density (if amount reported in cubic yards):

Method used to determine amount of manure: 45 loads at approximately 12.5 tons

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: [signature] Date: 9/18/23

Hauler's Signature: Shandee Holt Date: 8/3/23