

Livingston Dairy Consulting, Inc.

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

DJ Dairy, LLC WDID 5C54NC0023
4390 Ave. 352 Kingsburg, CA 93631

- | | |
|-------------------------------------|------------------------------|
| <input checked="" type="checkbox"/> | Annual Report |
| <input checked="" type="checkbox"/> | Water Analysis Samples |
| <input checked="" type="checkbox"/> | Manure Manifest |
| <input checked="" type="checkbox"/> | Facility / Land Map |
| <input checked="" type="checkbox"/> | CCA Nitrogen Retrofit Report |
| | |
| | |

GEO Tracker Confirmation #

Date:

Facility Info

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

Name of the Facility

Dairy Name: DJ Dairy, LLC WDID 5C54NC0023
Facility Address: 4390 Ave. 352 Kingsburg, CA 93631
Original Operation Date: 4/1/2006
Facility APN's: x045 x050 x012 xxxx, x045 x050 x013 xxxx
RwQCB Basin Plan Designation: Tulare Lake Basin Check if any information has changed

Owner(s)

Owner(s) Name: Cornelis Jan, Bert, Kellin Ann, & Mindy DeJong
Mailing Address: 9231 Ave. 368 Dinuba, CA 93618
Home Phone Number: 559-591-1987
Cell Phone Number: Check if any information has changed

Operator(s)

Operator(s) Name: Bert DeJong
Mailing Address: 9231 Ave. 368 Dinuba, CA 93618
Home Phone Number: 559-591-1987
Cell Phone Number: Check if any information has changed

Herd Information

	Milk Cows	Dry Cows	Bred Heifers (12-24 mo)	Heifers (3-12 mo)	Calves (0-3 mo)
Open Confinement:	1,781	255	939	422	528
Number Under Roof	-	-	-	-	-
Maximum Number	1,781	255	939	422	528
Average Number	1,781	255	939	422	528
Average Live Weight (lbs)	1,400	1,450	950	630	

Average Milk Production: 69

Predominant Milk Cow Breed: Holstein

Manure Generated:

Total manure excreted by the herd:	10,341.50	@ 40% Moisture	ton/yr
Total nitrogen from manure:	1,140,922	/bs	
	92,776	/bs	
	456,726	/bs	
Total salt from manure:	-	/bs	

Process Wastewater Generated:

Process wastewater generated:	26,002,600	gal
Total nitrogen generated:	102,328	/bs
	25,504	/bs
	172,110	/bs
Total salt (TDS) generated:	1,009,707	/bs

After Ammonia (30% loss applied)
798,645 lbs per reporting period

List of Land Application Areas

Field Name	APN	APN Acres	Cropable Acres	Total Harvest	Type of Waste Applied
1	x045 x050 x013 xxxx	56	42	8	N/A
2	x045 x100 x003 xxxx, x045 x050 x012 xxxx	179	48	2	P.W. & D.M.
3	x045 x100 x010 xxxx	179	85	2	P.W. & D.M.
4	x045 x100 x003 xxxx, x045 x050 x012 xxxx	29	29	2	P.W. & D.M.
5	x045 x100 x010 xxxx	87	87	2	P.W. & D.M.
6	x045 x050 x008 xxxx	160	39	2	P.W. & D.M.
7	x045 x050 x008 xxxx	36	36	2	P.W. & D.M.
8	x045 x050 x008 xxxx	76	8	N/A	
9	x045 x100 x017 xxxx, x045 x100 x018 xxxx	440	74	2	P.W. & D.M.
10	x045 x100 x017 xxxx, x045 x100 x018 xxxx	78	8	N/A	
11	x045 x100 x017 xxxx, x045 x100 x018 xxxx	72	2	P.W. & D.M.	
12	x045 x100 x017 xxxx, x045 x100 x018 xxxx	38	8	N/A	
13	x045 x100 x017 xxxx, x045 x100 x018 xxxx	77	2	P.W. & D.M.	
14	x045 x100 x017 xxxx	74	2	P.W. & D.M.	
15	x045 x100 x016 xxxx	160	73	8	N/A
Total Crop Acres				928.00	

List of Land Application Areas

List of Fresh Water Sources

Source Description	Type	Subsurface (Tile) Drainage Sources	Canal	Surface Water
Barn	Ground Water	No		
D3 Dom	Ground Water	No		
D4 Dom	Ground Water	No		
D1	Ground Water	No		
D2 Dom	Ground Water	No		
D6	Ground Water	No		
1A	Ground Water	No		
3A	Ground Water	No		
3B	Ground Water	No		
3C	Ground Water	No		
4B	Ground Water	No		
5B	Ground Water	No		
7A	Ground Water	No		
8B	Ground Water	No		
8C	Ground Water	No		
9A	Ground Water	No		
10A	Ground Water	No		
11A	Ground Water	No		
14A	Ground Water	No		
14B	Ground Water	No		
15A	Ground Water	No		
17A	Ground Water	No		

PLANT TISSUE ANALYSIS (Recorded As Received)										
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:	Date:	Source
1	Alfalfa	-	3.00	0.27	2.10	-	-	-	Book Value	-
2	Wheat, Silage	68.50	0.42	0.10	0.59	-	10.00	6-19H54702	06/19/23	Valley Tech
3	Wheat, Silage	67.80	0.25	0.09	0.42	-	10.50	6-19H54702	06/19/23	Valley Tech
4	Wheat, Silage	67.50	0.37	0.10	0.42	-	13.10	6-19H54702	06/19/23	Valley Tech
5	Wheat, Silage	56.30	0.35	0.14	0.90	-	12.10	6-19H54702	06/19/23	Valley Tech
6	Wheat, Silage	67.10	0.30	0.09	0.37	-	19.10	6-19H54702	06/19/23	Valley Tech
7	Wheat, Silage	59.20	0.47	0.14	0.80	-	12.50	6-19H54702	06/19/23	Valley Tech
8	Alfalfa	-	3.00	0.27	2.10	-	-	Book Value	-	Valley Tech
9	Wheat, Silage	66.70	0.38	0.11	0.49	-	13.50	6-19H54702	06/19/23	Valley Tech
10	Alfalfa	-	3.00	0.27	2.10	-	-	Book Value	-	Valley Tech
11	Wheat, Silage	66.30	0.30	0.09	0.42	-	11.00	6-19H54702	06/19/23	Valley Tech
12	Alfalfa	-	3.00	0.27	2.10	-	-	Book Value	-	Valley Tech
13	Wheat, Silage	71.10	0.39	0.11	0.64	-	13.40	6-19H54702	06/19/23	Valley Tech
14	Wheat, Silage	63.70	0.41	0.11	0.51	-	14.60	6-19H54702	06/19/23	Valley Tech
15	Alfalfa	-	3.00	0.27	2.10	-	-	Book Value	-	Valley Tech
<i>Detectable Lim</i>		Valley Tech	0.10%	0.05%	0.01%	0.01%	0.05%			
<i>Dellavalle</i>			0.001%	0.01%	0.01%	0.003%	0.001%			
<i>Detectable Limits</i>										
<i>Valley Tech</i>			0.10%	0.05%	0.01%	0.01%	0.05%			
<i>Dellavalle</i>			0.001%	0.01%	0.01%	0.003%	0.001%			

**PLANT TISSUE ANALYSIS (Recorded As Received)
(WINTER)**

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)								
Field	Crop	Moist %	N%	TP %	TK%	Salt	TFS	Sample #:
1	Alfalfa	-	-	-	-	-	-	See Winter
2	Corn, Silage	69.70	0.35	0.08	0.38	-	5.81	11-01H71431 11/01/23 Valley Tech
3	Corn, Silage	70.00	0.39	0.08	0.37	-	6.33	11-01H71431 11/01/23 Valley Tech
4	Corn, Silage	70.70	0.38	0.08	0.31	-	6.01	11-01H71431 11/01/23 Valley Tech
5	Corn, Silage	67.50	0.41	0.08	0.31	-	5.70	11-01H71431 11/01/23 Valley Tech
6	Corn, Silage	65.80	0.41	0.09	0.32	-	5.68	11-01H71431 11/01/23 Valley Tech
7	Corn, Silage	65.80	0.46	0.09	0.29	-	5.89	11-01H71431 11/01/23 Valley Tech
8	Alfalfa	-	-	-	-	-	-	See Winter
9	Corn, Silage	63.30	0.44	0.10	0.35	-	5.94	11-01H71431 11/01/23 Valley Tech
10	Alfalfa	-	-	-	-	-	-	See Winter
11	Corn, Silage	66.60	0.43	0.09	0.43	-	6.03	11-01H71431 11/01/23 Valley Tech
12	Alfalfa	-	-	-	-	-	-	See Winter
13	Corn, Silage	67.70	0.38	0.08	0.38	-	6.41	11-01H71431 11/01/23 Valley Tech
14	Corn, Silage	69.10	0.39	0.08	0.40	-	4.26	11-01H71431 11/01/23 Valley Tech
15	Alfalfa	-	-	-	-	-	-	See Winter

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

0.05%
0.001%

(SUMMER) PLANT TISSUE ANALYSIS (Recorded As Received)

Detectable limits

Valley Tech
Dallas/Ft. Worth

0.001% 0.01% 0.05% 0.10% 0.003% 0.01% 0.05% 0.001%

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
1	Alfalfa	11/1/22	10/1/23	Book Value	-	3.00	0.27	2.10	-	-	Dry Weight
2	Wheat, Silage	11/4/22	5/20/23	6-19H54702	68.50	0.42	0.10	0.59	-	10.00	Dry Weight
3	Wheat, Silage	11/4/22	5/18/23	6-19H54702	67.80	0.25	0.09	0.42	-	10.50	Dry Weight
4	Wheat, Silage	11/1/22	5/17/23	6-19H54702	67.50	0.37	0.10	0.42	-	13.10	Dry Weight
5	Wheat, Silage	11/4/22	5/18/23	6-19H54702	56.30	0.35	0.14	0.90	-	12.10	Dry Weight
6	Wheat, Silage	11/6/22	5/17/23	6-19H54702	67.10	0.30	0.09	0.37	-	19.10	Dry Weight
7	Wheat, Silage	11/6/22	5/17/23	6-19H54702	59.20	0.47	0.14	0.80	-	12.50	Dry Weight
8	Alfalfa	1/1/22	10/1/23	Book Value	-	3.00	0.27	2.10	-	-	Dry Weight
9	Wheat, Silage	10/25/22	5/10/23	6-19H54702	66.70	0.38	0.11	0.49	-	13.50	Dry Weight
10	Alfalfa	1/1/22	10/1/23	Book Value	-	3.00	0.27	2.10	-	-	Dry Weight
11	Wheat, Silage	10/27/22	5/11/23	6-19H54702	66.30	0.30	0.09	0.42	-	11.00	Dry Weight
12	Alfalfa	1/1/23	10/1/23	Book Value	-	3.00	0.27	2.10	-	-	Dry Weight
13	Wheat, Silage	10/28/22	5/11/23	6-19H54702	71.10	0.39	0.11	0.64	-	13.40	Dry Weight
14	Wheat, Silage	10/28/22	5/11/23	6-19H54702	63.70	0.41	0.11	0.51	-	14.60	Dry Weight
15	Alfalfa	1/1/22	10/1/23	Book Value	-	3.00	0.27	2.10	-	-	Dry Weight

*Detectable L Valley Tech
Dellavalle*

0.10%	0.05%	0.01%	0.01%
0.001%	0.01%	0.01%	0.003%

0.05%
0.001%

Winter Crops & Harvest

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
16	Wheat, Silage	10/30/22	5/12/23	6-19H54702	66.10	0.35	0.11	0.63	-	11.60	Dry Weight
17	Trees, Pistachios	1/1/21	11/1/23	Book Value	-	2.81	0.42	3.09	-	-	Dry Weight
18	Trees, Pistachios	1/1/21	11/1/23	Book Value	-	2.81	0.42	3.09	-	-	Dry Weight

Detectable L Valley Tech
Dell available

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
1	Alfalfa			See Winter	-	-	-	-	-	-	-
2	Corn, Silage	6/17/23	9/2/23	11-01H71431	69.70	0.35	0.08	0.38	-	5.81	Dry Weight
3	Corn, Silage	6/18/23	9/3/23	11-01H71431	70.00	0.39	0.08	0.37	-	6.33	Dry Weight
4	Corn, Silage	6/17/23	9/2/23	11-01H71431	70.70	0.38	0.08	0.31	-	6.01	Dry Weight
5	Corn, Silage	6/18/23	9/3/23	11-01H71431	67.50	0.41	0.08	0.31	-	5.70	Dry Weight
6	Corn, Silage	6/16/23	9/3/23	11-01H71431	65.80	0.41	0.09	0.32	-	5.68	Dry Weight
7	Corn, Silage	6/16/23	9/3/23	11-01H71431	65.80	0.46	0.09	0.29	-	5.89	Dry Weight
8	Alfalfa			See Winter	-	-	-	-	-	-	-
9	Corn, Silage	6/10/23	8/29/23	11-01H71431	63.30	0.44	0.10	0.35	-	5.94	Dry Weight
10	Alfalfa			See Winter	-	-	-	-	-	-	-
11	Corn, Silage	6/10/23	8/29/23	11-01H71431	66.60	0.43	0.09	0.43	-	6.03	Dry Weight
12	Alfalfa			See Winter	-	-	-	-	-	-	-
13	Corn, Silage	6/9/23	9/4/23	11-01H71431	67.70	0.38	0.08	0.38	-	6.41	Dry Weight
14	Corn, Silage	6/11/23	8/29/23	11-01H71431	69.10	0.39	0.08	0.40	-	4.26	Dry Weight
15	Alfalfa			See Winter	-	-	-	-	-	-	-

Detectable L Valley Tech
Dellavalley

Field:	Crop	Plant Date	Harvest Date	Lab #	Moisture %	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS	Reporting Basis
16	Corn, Silage	6/9/23	9/4/23	11-1H71431	68.50	0.37	0.08	0.36	-	6.48	Dry Weight
17	Trees, Pistachios			Trees	-	-	-	-	-	-	-
18	Trees, Pistachios			Trees	-	-	-	-	-	-	-

Detectable Valley Tech
Dellavalle

Well / Canal Analysis

Soil Analysis (Winter)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-
8	4.2	-	20.70	217.00	0.74	1.48	04-14S46478	04/14/23	Valley Tech
9	-	-	-	-	-	-	-	-	-
10	6.8	-	19.80	210.00	0.80	2.03	04-14S46478	04/14/23	Valley Tech
11	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-	-	-
15	8.20	-	38.00	281.00	0.76	1.91	04-14S46478	04/14/23	Valley Tech

Detectable Limits

<i>Valley Tech</i>	0.1	0.1	0.1	1.1	0.2	0.0015	0.0001%
<i>DeltaValle</i>	0.1	0.1	0.1				

Soil Analysis (Winter)

Detectable Limits
Valley Tech
DellaValle

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
1	-	-	-	-	-	-	-	-	-
2	13.4	-	2.52	1,690.00	2.13	38.30	06-19554691	06/19/23	Valley Tech
3	20.2	-	2.83	1,660.00	1.29	55.60	06-13553812	06/13/23	Valley Tech
4	22.1	-	3.48	2,100.00	1.20	43.00	06-07552985	06/07/23	Valley Tech
5	22.0	-	2.02	1,520.00	1.30	33.00	06-19554691	06/19/23	Valley Tech
6	9.9	-	2.19	1,540.00	0.89	27.90	06-07552985	06/07/23	Valley Tech
7	6.6	-	2.19	1,260.00	0.80	18.00	06-13553812	06/13/23	Valley Tech
8	-	-	-	-	-	-	-	-	-
9	11.0	-	2.47	1,510.00	1.17	37.00	06-13553812	06/13/23	Valley Tech
10	-	-	-	-	-	-	-	-	-
11	6.90	-	2.17	1,230.00	1.46	34.60	06-13553812	06/13/23	Valley Tech
12	-	-	-	-	-	-	-	-	-
13	19.50	-	3.05	1,870.00	1.83	73.60	06-07552985	06/07/23	Valley Tech
14	21.10	-	2.34	1,640.00	1.93	60.20	06-19554691	06/19/23	Valley Tech
15	-	-	-	-	-	-	-	-	-

Detectable Limits

Valley Tech 0.1
DellaValle 0.1

0.1 0.1
0.2 0.0015
0.0001% 0.0001%

Soil Analysis (Summer)

Fields:	0/1ft. NO3-N (mg/kg)	1/2 ft. NO3-N (mg/kg)	0/1 ft. Sol. P (mg/kg)	0/1 ft. K (mg/kg)	0/1 ft. EC (ds/m)	OM %	Lab #	Date	Source
16	-	-	-	-	-	-	-	-	-
17	5.8	2.90	0.68	502.00	1.31	5.70	06-07552984	06/07/23	Valley Tech
18	4.2	3.40	0.79	643.00	0.51	5.50	06-07552984	06/07/23	Valley Tech

Detectable limits

Wallach

Valley Tech

DellaValle

DellaValle

Nutrient Import & Export

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

No
X

— Yes, Manifest attached (Attachment D)

Nutrient Import

No Dry manure nutrient imports entered

No Process wastewater nutrient imports entered

Total Process Water Exported

Total Dry Manure Exported

1

100

Process Water & Manure Analysis

Process Water		Quarters:		NH4N (mg/L)		TKN (mg/L)		TP (mg/L)		TK (mg/L)		NO3N (mg/L)		NH3N (mg/L)		Ca (mg/L)		Mg (mg/L)		Na (mg/L)		CO3 (mg/L)		HCO3 (mg/L)		SO4 (mg/L)		Cl (mg/L)		EC (ds/m)		TDS (mg/L)	
1	261.0	386.0	50.3	592.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1,780						
2	247.0	289.0	1.2	508.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	4,010							
3	314.0	328.0	44.2	396.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	3,860							
4	318.0	354.0	51.9	406.0	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,740							

Detectable Limits

Valley Tech	2.0	5.0	0.1	0.2
Dellaville	0.2	0.7	0.02	0.2

Qtr	Sample #:	Sample Date:	Source	Inorg N				Org N				P2O5				K2O			
				lbs / Ac In				lbs / Ac In				lbs / Ac In				lbs / Ac In			
1	4-17L46642	4/17/2023	Valley Tech	59.4	-	-	-	28.3	-	-	-	26.1	-	-	-	161.6	-	-	-
2	6-20L54707	6/20/2023	Valley Tech	56.2	-	-	-	9.5	-	-	-	0.6	-	-	-	138.7	-	-	-
3	9-20L66187	9/20/2023	Valley Tech	71.4	-	-	-	3.2	-	-	-	23.0	-	-	-	108.1	-	-	-
4	12-13L74274	12/13/2023	Valley Tech	72.3	-	-	-	8.2	-	-	-	27.0	-	-	-	110.9	-	-	-

Description	Sample #:	Date:	As Is/ Dry Weight	Source	Material Type			
					Corral Solids	Corral Solids	Corral Solids	Corral Solids
Manure	6-20M54716	6/20/2023	Dry Weight	Valley Tech				
Manure	12-13M74265	12/13/2023	Dry Weight	Valley Tech				

Dry Manure: (As Rec'd)	TN %	TP %	TK %	Ca	Mg	Na	S	CL	Salt	TFS	Moisture %
Corral	1.44	0.42	2.54	-	-	-	-	-	-	-	28.60
Corral	1.87	0.48	1.87	-	-	-	-	-	-	-	27.90

Detectable Limits

Valley Tech	0.01%	0.02%	0.02%
Dellaville	0.01%	0.003%	0.001%

0.001%

0.000%

0.001%

0.000%

0.001%

0.000%

0.001%

0.000%

Nutrient Applications

Field Name/Number:

1

Acres:

42.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Molst. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield		
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (lbs/Ac)	TFS	%	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/15/22	Canal	-	-	-	-	5.68	-	-	-	-	-	-	-	-
11/1/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-	-
1/6/23	Canal	-	-	-	5.24	-	-	-	-	-	-	-	-	-
3/4/23	Canal	-	-	-	5.62	-	-	-	-	-	-	-	-	-
5/13/23	Canal	-	-	-	5.37	-	-	-	-	-	-	-	-	-
6/8/23	Canal	-	-	-	5.11	-	-	-	-	-	-	-	-	-
7/10/23	Canal	-	-	-	5.05	-	-	-	-	-	-	-	-	-
8/18/23	Canal	-	-	-	5.30	-	-	-	-	-	-	-	-	-
9/7/23	Canal	-	-	-	5.18	-	-	-	-	-	-	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(480.0)	(43.2)	[336.0]	-	-	-	8.00	
Totals:		0.0		0	42.54	0.00	(480)	(43)	{336}	-	0.00	0	8.00	

Dry Weight
As Received

Field Name/Number: 1Acres: 42

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	-480.0	-43.2	-336.0	0.0
Nutrient Balance	-480.0	-43.2	-336.0	0.0

Winter Nitrogen Crop App / Use Ratio: 0.01 Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 1 Acres: 42

Winter Crop	Alfalfa	Applied	N
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	-	lbs/Ac	-
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water		- Ac In /Ac	-
Canal		42.5 Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	11/1/22		
W. Harvest	10/1/23	8.0 T/Ac	(480.0) (98.9) (403.2)

Summer Crop	Alfalfa	Applied	N
S. Manure App.	-	T/Ac	-
S. Comm Fert App.	-	lbs/Ac	-
Process Water	Q2	- Ac In /Ac	-
	Q3	- Ac In /Ac	-
	Q4	- Ac In /Ac	-
Well Water		- Ac In /Ac	0
Canal		- Ac In /Ac	-
Atm. Depos.	#N/A		#N/A
S. Planting	#N/A		
S. Harvest	#N/A	#N/A T/Ac	#N/A #N/A #N/A

Nutrient Applications

Field Name/Number:

2

Acres:

48.00

Field Name/Number: 2Acres: 48.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	463.5	38.1	670.9	4130.0
Nutrients Removed at Harvest	-354.7	-35.9	-362.3	0.0
Nutrient Balance	108.8	2.1	308.6	4130.0

Winter Nitrogen Crop App / Use Ratio: 1.30Summer Nitrogen Crop App / Use Ratio: 1.30Field Name/Number: 2 Acres: 48

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	5.2	T/Ac	59.8	100.5	317.7
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.0	Ac In /Ac	63.6	27.0
	Q2	1.1	Ac In /Ac	49.8	0.7
Well Water		10.6	Ac In /Ac	26.4	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
W. Planting	11/4/22				
W. Harvest	5/20/23	19.0	T/Ac	(159.2)	(90.5)
					(268.6)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	3.1	Ac In /Ac	162.8	71.6
	Q4	-	Ac In /Ac	-	-
Well Water		34.0	Ac In /Ac	84.8	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/17/23				
S. Harvest	9/2/23	28.3	T/Ac	(195.5)	(98.2)
					(255.2)

Nutrient Applications

Field Name/Number:

3

Acres:

85.00

Field Name/Number: 3Acres: 85.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	349.9	25.4	470.1	4227.4
Nutrients Removed at Harvest	-335.6	-39.0	-328.7	0.0
Nutrient Balance	14.3	-13.7	141.4	4227.4

Winter Nitrogen Crop App / Use Ratio: 1.01 Summer Nitrogen Crop App / Use Ratio: 1.10Field Name/Number: 3 Acres: 85

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.4	Ac In /Ac	87.8	37.3
	Q2	-	Ac In /Ac	-	230.2
Well Water		12.2	Ac In /Ac	9.9	
Canal		-	Ac In /Ac	-	
Atm. Depos.		Yes		7.0	
W. Planting	11/4/22				
W. Harvest	5/18/23	21.0	T/Ac	(104.1)	(89.8)
					(212.6)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	4.2	Ac In /Ac	217.8	95.7
	Q4	-	Ac In /Ac	-	449.4
Well Water		35.8	Ac In /Ac	29.2	
Canal		-	Ac In /Ac	-	
Atm. Depos.		Yes		7.0	
S. Planting	6/18/23				
S. Harvest	9/3/23	29.9	T/Ac	(231.4)	(115.0)
					(262.6)

Nutrient Applications

Field Name/Number:

4

Acres:

29.00

Field Number:													
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data				Yield		
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (lbs/Ac)	TPS	%	Expected Yield (tons/ac)
													Actual Yield (tons/ac)
10/10/22	W. Manure App.	6.90	-	-	-	-	79.2	58.1	350.6	-	-	-	-
10/15/22	4B	-	-	-	6.48	-	16.1	-	-	-	-	-	-
11/1/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
1/6/23	4B	-	-	-	5.31	-	13.2	-	-	-	-	-	-
1/6/23	Process Water	-	-	-	-	1.56	95.9	17.8	209.6	630	-	-	-
4/13/23	4B	-	-	-	6.86	-	17.1	-	-	-	-	-	-
5/17/23	W. Harvest	-	-	-	-	-	(159.6)	(45.2)	(182.2)	-	-	-	21.72
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/24/23	4B	-	-	-	6.35	-	15.8	-	-	-	-	-	-
6/17/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-
7/1/23	4B	-	-	-	6.22	-	15.5	-	-	-	-	-	-
7/11/23	4B	-	-	-	5.05	-	12.6	-	-	-	-	-	-
7/11/23	Process Water	-	-	-	-	1.49	77.6	14.9	133.4	1,300	-	-	-
7/23/23	4B	-	-	-	5.44	-	13.6	-	-	-	-	-	-
7/23/23	Process Water	-	-	-	-	1.60	83.5	16.0	143.6	1,400	-	-	-
8/4/23	4B	-	-	-	6.48	-	16.1	-	-	-	-	-	-
8/18/23	4B	-	-	-	6.09	-	15.2	-	-	-	-	-	-
9/2/23	S. Harvest	-	-	-	-	-	(218.0)	(48.3)	(178.1)	-	-	-	28.40
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals:		6.9		0	54.26	4.65	94	13	477	3,330	0.00	0	50.12

Field Name/Number: 4Acres: 29.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	471.5	46.6	694.9	3330.2
Nutrients Removed at Harvest	-377.6	-40.8	-299.0	0.0
Nutrient Balance	93.9	5.8	395.9	3330.2

Winter Nitrogen Crop App / Use Ratio: 1.33 Summer Nitrogen Crop App / Use Ratio: 1.18Field Name/Number: 4 Acres: 29

Winter Crop	Crop	Applied		N		
W. Manure App.		6.9	T/Ac	79.2	133.1	420.7
W. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q1	1.6	Ac In /Ac	95.9	40.8	251.5
	Q2	-	Ac In /Ac	-	-	-
Well Water		12.2	Ac In /Ac	30.4	-	-
Canal		-	Ac In /Ac	-	-	-
Atm. Depos.		Yes		7.0	-	-
W. Planting	11/1/22	21.7	T/Ac	(159.6)	(103.5)	(218.6)
W. Harvest	5/17/23					

Summer Crop	Crop	Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-	-
	Q3	3.1	Ac In /Ac	161.1	70.8	332.4
	Q4	-	Ac In /Ac	-	-	-
Well Water		35.6	Ac In /Ac	88.8	-	-
Canal		-	Ac In /Ac	-	-	-
Atm. Depos.		Yes		7.0	-	-
S. Planting	6/17/23	28.4	T/Ac	(218.0)	(110.5)	(213.7)
S. Harvest	9/2/23					

Nutrient Applications

Field Name/Number:

5

Acres:

87.00

Field Name/Number: 5Acres: 87.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	484.8	46.6	754.4	5403.8
Nutrients Removed at Harvest	-385.2	-45.7	-453.5	0.0
Nutrient Balance	99.6	0.9	300.9	5403.8

Winter Nitrogen Crop App / Use Ratio: 1.18 Summer Nitrogen Crop App / Use Ratio: 1.34Field Name/Number: 5 Acres: 87

Winter Crop	Wheat, Silage				
Nutrient Summary :	Applied	N			
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.4	Ac In /Ac	86.6	36.8
	Q2	1.4	Ac In /Ac	62.5	0.8
Well Water		11.1	Ac In /Ac	9.0	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
W. Planting	11/4/22				
W. Harvest	5/18/23	20.0	T/Ac	(139.8)	(132.1)
					(434.2)

Summer Crop	Corn, Silage				
Nutrient Summary :	Applied	N			
S. Manure App.	5.2	T/Ac	77.6	112.7	232.7
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	4.1	Ac In /Ac	214.8	94.4
	Q4	-	Ac In /Ac	-	-
Well Water		35.8	Ac In /Ac	29.2	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/18/23				
S. Harvest	9/3/23	30.2	T/Ac	(245.4)	(107.9)
					(221.4)

Nutrient Applications

Field Name/Number:

6

Acres:

39.00

Field Name/Number: 6Acres: 39.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	453.2	19.2	355.3	3223.7
Nutrients Removed at Harvest	-348.6	-37.6	-266.7	0.0
Nutrient Balance	104.6	-18.3	88.5	3223.7

Winter Nitrogen Crop App / Use Ratio: 1.05 Summer Nitrogen Crop App / Use Ratio: 1.37

Field Name/Number: 6 Acres: 39

Winter Crop	Crop	Applied		N		
W. Manure App.		-	T/Ac	-	-	-
W. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q1	1.0	Ac In /Ac	64.4	27.4	168.8
	Q2	-	Ac In /Ac	-	-	-
Well Water		12.0	Ac In /Ac	49.4		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
W. Planting	11/6/22					
W. Harvest	5/17/23	19.0	T/Ac	(115.0)	(80.2)	(166.5)

Summer Crop	Crop	Applied		N		
S. Manure App.		-	T/Ac	-	-	-
S. Comm Fert App.		-	lbs/Ac	-	-	-
Process Water	Q2	1.0	Ac In /Ac	53.2	23.4	109.8
	Q3	2.2	Ac In /Ac	113.9	50.0	234.9
	Q4	-	Ac In /Ac	-	-	-
Well Water		35.6	Ac In /Ac	146.2		
Canal		-	Ac In /Ac	-		
Atm. Depos.		Yes		7.0		
S. Planting	6/16/23					
S. Harvest	9/3/23	28.7	T/Ac	(233.6)	(116.9)	(219.1)

Nutrient Applications

Field Name/Number:

7

Acres: 36.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/5/22	W. Manure App.	4.17	-	-	-	-	47.8	35.1	211.8	-	-	-	-
10/13/22	7A	-	-	-	6.44	-	26.4	-	-	-	-	-	-
11/6/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
1/2/23	7A	-	-	-	5.52	-	22.7	-	-	-	-	-	-
1/2/23	Process Water	-	-	-	-	1.10	67.8	12.6	148.2	446	-	-	-
4/13/23	7A	-	-	-	5.83	-	23.9	-	-	-	-	-	-
4/13/23	Process Water	-	-	-	-	1.17	53.7	0.3	134.3	1,060	-	-	-
5/17/23	W. Harvest	-	-	-	-	-	(176.7)	(54.3)	(305.4)	-	-	-	19.00
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/24/23	7A	-	-	-	6.75	-	27.7	-	-	-	-	-	-
6/16/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-
7/1/23	7A	-	-	-	5.68	-	23.3	-	-	-	-	-	-
7/1/23	Process Water	-	-	-	-	1.14	59.3	11.4	101.9	994	-	-	-
7/11/23	7A	-	-	-	5.06	-	20.8	-	-	-	-	-	-
7/11/23	Process Water	-	-	-	-	1.01	52.9	10.1	90.9	886	-	-	-
7/23/23	7A	-	-	-	5.37	-	22.0	-	-	-	-	-	-
7/23/23	Process Water	-	-	-	-	1.07	56.1	10.8	96.4	940	-	-	-
8/4/23	7A	-	-	-	6.29	-	25.8	-	-	-	-	-	-
8/18/23	7A	-	-	-	6.60	-	27.1	-	-	-	-	-	-
9/3/23	S. Harvest	-	-	-	-	-	(255.7)	(51.5)	(164.1)	-	-	-	27.90
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals:		4.2		0	53.54	5.49	125	(25)	314	4,325	0.00	0	46.90

Field Name/Number: 7Acres: 36.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	557.2	35.0	650.4	4325.2
Nutrients Removed at Harvest	-432.5	-46.2	-389.8	0.0
Nutrient Balance	124.8	-11.1	260.7	4325.2

Winter Nitrogen Crop App / Use Ratio: 1.26 Summer Nitrogen Crop App / Use Ratio: 1.26

Field Name/Number: 7 Acres: 36**Winter Crop Wheat, Silage**

Nutrient Summary :	Applied	N			
W. Manure App.	4.2 T/Ac	47.8	80.4	254.2	
W. Comm Fert App.	- lbs/Ac	-	-	-	
Process Water	Q1 1.1 Ac In /Ac	67.8	28.8	177.9	
	Q2 1.2 Ac In /Ac	53.7	0.7	161.1	
Well Water	11.4 Ac In /Ac	46.6			
Canal	- Ac In /Ac	-			
Atm. Depos.	Yes	7.0			
W. Planting	11/6/22				
W. Harvest	5/17/23 19.0 T/Ac	(176.7)	(124.3)	(366.5)	

Summer Crop Corn, Silage

Nutrient Summary :	Applied	N			
S. Manure App.	- T/Ac	-	-	-	
S. Comm Fert App.	- lbs/Ac	-	-	-	
Process Water	Q2 - Ac In /Ac	-	-	-	
	Q3 3.2 Ac In /Ac	168.2	73.9	347.1	
	Q4 - Ac In /Ac	-	-	-	
Well Water	35.7 Ac In /Ac	146.7			
Canal	- Ac In /Ac	-			
Atm. Depos.	Yes	7.0			
S. Planting	6/16/23				
S. Harvest	9/3/23 27.9 T/Ac	(255.7)	(118.0)	(196.9)	

Nutrient Applications

Field Name/Number:

8

Acres:

76.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield		
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TPS	%	Expected Yield (tons/ac)	Actual Yield (tons/ac)
1/1/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-	-
2/11/23	Canal	-	-	-	5.58	-	-	-	-	-	-	-	-	-
3/7/23	Canal	-	-	-	5.86	-	-	-	-	-	-	-	-	-
4/9/23	Canal	-	-	-	6.07	-	-	-	-	-	-	-	-	-
5/5/23	Canal	-	-	-	5.76	-	-	-	-	-	-	-	-	-
6/3/23	Canal	-	-	-	5.62	-	-	-	-	-	-	-	-	-
7/14/23	Canal	-	-	-	5.93	-	-	-	-	-	-	-	-	-
8/13/23	Canal	-	-	-	5.79	-	-	-	-	-	-	-	-	-
9/4/23	Canal	-	-	-	5.90	-	-	-	-	-	-	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(480.0)	(43.2)	(336.0)	-	-	-	8.00	
Totals:		0.0		0	46.50	0.00	(480)	(43)	(336)	-	0.00	0	8.00	

Field Name/Number: 8Acres: 76.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	-480.0	-18.9	-278.9	0.0
	-480.0	-18.9	-278.9	0.0

Winter Nitrogen Crop App / Use Ratio: 0.01 Summer Nitrogen Crop App / Use Ratio: #N/A

Field Name/Number: 8 Acres: 76

Winter Crop	Alfalfa	Applied	N
W. Manure App.		- T/Ac	- - -
W. Comm Fert App.		- lbs/Ac	- -
Process Water	Q1	- Ac In /Ac	- - -
	Q2	- Ac In /Ac	- - -
Well Water		- Ac In /Ac	- -
Canal		46.5 Ac In /Ac	- -
Atm. Depos.		Yes	7.0
W. Planting	1/1/22		
W. Harvest	10/1/23	8.0 T/Ac	(480.0) (98.9) (403.2)

Summer Crop	Alfalfa	Applied	N
S. Manure App.		- T/Ac	- - -
S. Comm Fert App.		- lbs/Ac	- -
Process Water	Q2	- Ac In /Ac	- - -
	Q3	- Ac In /Ac	- - -
	Q4	- Ac In /Ac	- - -
Well Water		- Ac In /Ac	- -
Canal		- Ac In /Ac	- -
Atm. Depos.		#N/A	#N/A
S. Planting	#N/A	#N/A	T/Ac
S. Harvest	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number:

9

Acres:

74.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS	%	Expected Yield (tons/ac)
10/1/22	10A	-	-	-	6.03	-	11.6	-	-	-	-	-	-
10/25/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
1/1/23	10A	-	-	-	5.14	-	9.9	-	-	-	-	-	-
1/1/23	Process Water	-	-	-	-	1.28	78.8	14.6	172.3	518	-	-	-
4/8/23	10A	-	-	-	5.31	-	10.2	-	-	-	-	-	-
4/8/23	Process Water	-	-	-	-	1.33	61.1	0.4	153.0	1,208	-	-	-
5/10/23	W. Harvest	-	-	-	-	-	(150.5)	(45.3)	{195.8}	-	-	-	20.00
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/18/23	10A	-	-	-	6.27	-	12.1	-	-	-	-	-	-
6/10/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-
6/27/23	10A	-	-	-	5.08	-	9.8	-	-	-	-	-	-
6/27/23	Process Water	-	-	-	-	1.27	66.2	0.3	146.1	1,153	-	-	-
7/7/23	10A	-	-	-	5.25	-	10.1	-	-	-	-	-	-
7/7/23	Process Water	-	-	-	-	1.31	68.6	13.2	117.9	1,150	-	-	-
7/17/23	10A	-	-	-	5.02	-	9.7	-	-	-	-	-	-
7/17/23	Process Water	-	-	-	-	1.25	65.5	12.6	112.6	1,097	-	-	-
7/28/23	10A	-	-	-	5.19	-	10.0	-	-	-	-	-	-
7/28/23	Process Water	-	-	-	-	1.30	67.8	13.0	116.6	1,136	-	-	-
8/11/23	10A	-	-	-	6.09	-	11.7	-	-	-	-	-	-
8/29/23	S. Harvest	-	-	-	-	-	(260.7)	(56.5)	(206.4)	-	-	-	29.60
Totals:		0.0		0	49.38	7.75	#N/A	-	-	#N/A	0.00	0	49.60

Field Name/Number: 9Acres: 74.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	503.2	23.6	679.4	6262.6
Nutrients Removed at Harvest	-411.2	-44.4	-333.9	0.0
Nutrient Balance	92.0	-20.8	345.5	6262.6

Winter Nitrogen Crop App / Use Ratio: 1.11 Summer Nitrogen Crop App / Use Ratio: 1.30

Field Name/Number: 9 Acres: 74

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.3	Ac In /Ac	78.8	33.5
	Q2	1.3	Ac In /Ac	61.1	0.8
Well Water		10.4	Ac In /Ac	20.1	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
W. Planting	10/25/22				
W. Harvest	5/10/23	20.0	T/Ac	(150.5)	(103.7)
					(235.0)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	1.3	Ac In /Ac	66.2	0.8
	Q3	3.9	Ac In /Ac	201.9	88.7
	Q4	-	Ac In /Ac	-	-
Well Water		32.9	Ac In /Ac	63.4	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/10/23				
S. Harvest	8/29/23	29.6	T/Ac	(260.7)	(129.4)
					(247.7)

Nutrient Applications

Field Name/Number:

10

Acres:

78.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TPS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
1/1/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
2/11/23	Canal	-	-	-	5.78	-	-	-	-	-	-	-	-
3/7/23	Canal	-	-	-	5.44	-	-	-	-	-	-	-	-
4/9/23	Canal	-	-	-	5.57	-	-	-	-	-	-	-	-
5/5/23	Canal	-	-	-	5.47	-	-	-	-	-	-	-	-
6/3/23	Canal	-	-	-	5.85	-	-	-	-	-	-	-	-
7/14/23	Canal	-	-	-	5.61	-	-	-	-	-	-	-	-
8/13/23	Canal	-	-	-	5.51	-	-	-	-	-	-	-	-
9/4/23	Canal	-	-	-	5.54	-	-	-	-	-	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(480.0)	(43.2)	(336.0)	-	-	8.00	
Totals:		0.0		0	44.76	0.00	(480)	(43)	(336)	-	0.00	0	8.00

Field Name/Number: 10Acres: 78.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	-480.0	-18.9	-278.9	0.0
Nutrient Balance	-480.0	-18.9	-278.9	0.0

Winter Nitrogen Crop App / Use Ratio: 0.01 Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 10 Acres: 78

Winter Crop	Alfalfa	Nutrient Summary :		
		Applied	N	
W. Manure App.		-	T/Ac	-
W. Comm Fert App.		-	lbs/Ac	-
Process Water	Q1	-	Ac In /Ac	-
	Q2	-	Ac In /Ac	-
Well Water		-	Ac In /Ac	-
Canal		44.8	Ac In /Ac	-
Atm. Depos.		Yes		7.0
W. Planting	1/1/22			
W. Harvest	10/1/23	8.0	T/Ac	(480.0) (98.9) (403.2)

Summer Crop	Alfalfa	Nutrient Summary :		
		Applied	N	
S. Manure App.		-	T/Ac	-
S. Comm Fert App.		-	lbs/Ac	-
Process Water	Q2	-	Ac In /Ac	-
	Q3	-	Ac In /Ac	-
	Q4	-	Ac In /Ac	-
Well Water		-	Ac In /Ac	-
Canal		-	Ac In /Ac	-
Atm. Depos.		#N/A		#N/A
S. Planting	#N/A	#N/A	T/Ac	#N/A #N/A #N/A
S. Harvest	#N/A	#N/A		

Nutrient Applications

Field Name/Number:

11

Acres:

72.00

Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TPS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
10/5/22	11A	-	-	-	6.63	-	21.6	-	-	-	-	-	-
10/27/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
1/4/23	11A	-	-	-	5.65	-	18.4	-	-	-	-	-	-
1/4/23	Process Water	-	-	-	-	1.41	86.7	16.1	189.4	570	-	-	-
4/11/23	11A	-	-	-	6.75	-	22.0	-	-	-	-	-	-
5/11/23	W. Harvest	-	-	-	-	-	(112.7)	(35.9)	(160.1)	-	-	-	19.00
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
5/20/23	11A	-	-	-	6.44	-	21.0	-	-	-	-	-	-
6/10/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-
6/29/23	11A	-	-	-	5.71	-	18.6	-	-	-	-	-	-
6/29/23	Process Water	-	-	-	-	1.43	74.5	14.3	128.1	1,249	-	-	-
7/9/23	11A	-	-	-	5.40	-	17.6	-	-	-	-	-	-
7/9/23	Process Water	-	-	-	-	1.35	70.5	13.5	121.2	1,181	-	-	-
7/19/23	11A	-	-	-	5.52	-	18.0	-	-	-	-	-	-
7/19/23	Process Water	-	-	-	-	1.38	72.1	13.8	124.0	1,208	-	-	-
7/30/23	11A	-	-	-	6.32	-	20.6	-	-	-	-	-	-
8/13/23	11A	-	-	-	6.57	-	21.4	-	-	-	-	-	-
8/29/23	S. Harvest	-	-	-	-	-	(259.4)	(52.3)	(259.4)	-	-	-	30.10
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals:		0.0		0	54.99	5.57	111	(30)	143	4,208	0.00	0	49.10

Field Name/Number: 11Acres: 72.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	483.2	25.2	467.1	4208.0
Nutrients Removed at Harvest	-372.1	-38.5	-348.2	0.0
Nutrient Balance	111.2	-13.3	118.9	4208.0

Winter Nitrogen Crop App / Use Ratio: 1.19 Summer Nitrogen Crop App / Use Ratio: 1.32Field Name/Number: 11 Acres: 72

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.4	Ac In /Ac	86.7	36.9
	Q2	-	Ac In /Ac	-	227.3
Well Water		12.4	Ac In /Ac	40.5	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
W. Planting	10/27/22				
W. Harvest	5/11/23	19.0	T/Ac	(112.7)	(82.1)
					(192.1)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	1.4	Ac In /Ac	74.5	32.7
	Q3	2.7	Ac In /Ac	142.6	62.7
	Q4	-	Ac In /Ac	-	294.2
Well Water		36.0	Ac In /Ac	117.4	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/10/23				
S. Harvest	8/29/23	30.1	T/Ac	(259.4)	(119.7)
					(311.3)

Nutrient Applications

Field Name/Number:

12

Acres:

38.00

Field Name/Number: 12Acres: 38.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	-480.0	-18.9	-278.9	0.0
Nutrient Balance	-480.0	-18.9	-278.9	0.0

Winter Nitrogen Crop App / Use Ratio: 0.01 Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 12 Acres: 38

Winter Crop	Alfalfa	Nutrient Summary :			
		Applied	N		
W. Manure App.		- T/Ac	-	-	-
W. Comm Fert App.		- lbs/Ac	-	-	-
Process Water	Q1	- Ac In /Ac	-	-	-
	Q2	- Ac In /Ac	-	-	-
Well Water		- Ac In /Ac	-	-	-
Canal		42.3 Ac In /Ac	-	-	-
Atm. Depos.		Yes	7.0		
W. Planting	1/1/23				
W. Harvest	10/1/23	8.0 T/Ac	(480.0)	(98.9)	(403.2)

Summer Crop	Alfalfa	Nutrient Summary :			
		Applied	N		
S. Manure App.		- T/Ac	-	-	-
S. Comm Fert App.		- lbs/Ac	-	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water		- Ac In /Ac	-	-	-
Canal		- Ac In /Ac	-	-	-
Atm. Depos.		#N/A	#N/A		
S. Planting	#N/A	#N/A	T/Ac	#N/A	#N/A
S. Harvest	#N/A	#N/A		#N/A	#N/A

Nutrient Applications

Field Name/Number:

13

Acres:

77.00

Field Name/Number: 13Acres: 77.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K (lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	485.8	43.1	915.1	6365.8
Nutrient Balance	-389.6	-40.2	-414.2	0.0
	96.2	2.9	500.8	6365.8

Winter Nitrogen Crop App / Use Ratio: 1.29 Summer Nitrogen Crop App / Use Ratio: 1.27Field Name/Number: 13 Acres: 77

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	5.2	T/Ac	59.6	100.2	316.9
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.4	Ac In /Ac	83.7	35.6
	Q2	1.3	Ac In /Ac	61.4	0.8
Well Water		10.8	Ac In /Ac	2.0	219.5
Canal		-	Ac In /Ac	-	184.4
Atm. Depos.	Yes			7.0	
W. Planting	10/28/22				
W. Harvest	5/11/23	21.0	T/Ac	(165.1)	(105.6)
					(324.8)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	1.3	Ac In /Ac	70.4	0.8
	Q3	3.9	Ac In /Ac	201.5	88.6
	Q4	-	Ac In /Ac	-	415.7
Well Water		33.5	Ac In /Ac	6.1	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/9/23				
S. Harvest	9/4/23	29.7	T/Ac	(224.5)	(105.4)
					(274.0)

Nutrient Applications

Field Name/Number:

14

Agresi

74.00

Field Name/Number: 14Acres: 74.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	430.1	24.5	576.7	5276.4
Nutrient Balance	-376.4	-38.6	-350.4	0.0
	53.7	-14.1	226.3	5276.4

Winter Nitrogen Crop App / Use Ratio: 1.07 Summer Nitrogen Crop App / Use Ratio: 1.21Field Name/Number: 14 Acres: 74

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.3	Ac In /Ac	82.5	35.1
	Q2	1.3	Ac In /Ac	60.5	0.8
Well Water		10.6	Ac In /Ac	15.7	216.4
Canal		-	Ac In /Ac	-	181.5
Atm. Depos.		Yes		7.0	
W. Planting	10/28/22				
W. Harvest	5/11/23	19.0	T/Ac	(154.5)	(97.9)
					(231.7)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	4.0	Ac In /Ac	211.2	92.8
	Q4	-	Ac In /Ac	-	-
Well Water		34.8	Ac In /Ac	51.2	435.8
Canal		-	Ac In /Ac	-	
Atm. Depos.		Yes		7.0	
S. Planting	6/11/23				
S. Harvest	8/29/23	28.5	T/Ac	(221.9)	(104.9)
					(274.8)

Nutrient Applications

Field Name/Number:		15								Acres:		73.00	
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Yield	
							N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	Expected Yield (tons/ac)	Actual Yield (tons/ac)
1/1/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-
2/11/23	Canal	-	-	-	5.08	-	-	-	-	-	-	-	-
3/7/23	Canal	-	-	-	5.41	-	-	-	-	-	-	-	-
4/9/23	Canal	-	-	-	5.23	-	-	-	-	-	-	-	-
5/5/23	Canal	-	-	-	5.27	-	-	-	-	-	-	-	-
6/3/23	Canal	-	-	-	5.48	-	-	-	-	-	-	-	-
7/14/23	Canal	-	-	-	5.16	-	-	-	-	-	-	-	-
8/13/23	Canal	-	-	-	5.19	-	-	-	-	-	-	-	-
9/4/23	Canal	-	-	-	5.34	-	-	-	-	-	-	-	-
10/1/23	W. Harvest	-	-	-	-	-	(480.0)	(43.2)	(336.0)	-	-	8.00	
Totals:		0.0		0	42.16	0.00	(480)	(43)	(336)	-	0.00	0	8.00

Field Name/Number: 15Acres: 73.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	-480.0	-18.9	-278.9	0.0
	-480.0	-18.9	-278.9	0.0

Winter Nitrogen Crop App / Use Ratio: 0.01 Summer Nitrogen Crop App / Use Ratio: #N/A

Field Name/Number: 15 Acres: 73

Winter Crop	Alfalfa	Nutrient Summary : Applied N			
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	- Ac In /Ac	-	-	-
	Q2	- Ac In /Ac	-	-	-
Well Water		- Ac In /Ac	-	-	-
Canal		42.2 Ac In /Ac	-	-	-
Atm. Depos.	Yes		7.0		
W. Planting	1/1/22				
W. Harvest	10/1/23	8.0 T/Ac	(480.0)	(98.9)	(403.2)

Summer Crop	Alfalfa	Nutrient Summary : Applied N			
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	- Ac In /Ac	-	-	-
	Q3	- Ac In /Ac	-	-	-
	Q4	- Ac In /Ac	-	-	-
Well Water		- Ac In /Ac	-	-	-
Canal		- Ac In /Ac	-	-	-
Atm. Depos.	#N/A		#N/A		
S. Planting	#N/A				
S. Harvest	#N/A	#N/A T/Ac	#N/A	#N/A	#N/A

Nutrient Applications

Field Name/Number:

16

Acres:

73.00

Event / Activity / Treatment												Acres.		Yield	
Date	Event / Source	Dry Manure Applied (tons/ac)	Moist. %	Chem Fert total lbs	Fresh Water Applied (ac-in/ac)	Lagoon Water Applied (ac-in/ac)	Lab Sample Data					Expected Yield (tons/ac)	Actual Yield (tons/ac)		
-	-	-	-	-	-	-	N (lbs/Ac)	Total P (lbs/Ac)	Total K (lbs/Ac)	Salt (Lbs/Ac)	TFS %	-	-		
10/6/22	15A	-	-	-	6.36	-	1.2	-	-	-	-	-	-		
10/30/22	W. Planting	-	-	-	-	-	-	-	-	-	-	-	-		
1/6/23	15A	-	-	-	5.39	-	1.0	-	-	-	-	-	-		
1/6/23	Process Water	-	-	-	-	1.35	82.7	15.4	180.7	543	-	-	-		
4/17/23	15A	-	-	-	5.21	-	0.9	-	-	-	-	-	-		
4/17/23	Process Water	-	-	-	-	1.30	59.9	0.4	149.9	1,183	-	-	-		
5/12/23	W. Harvest	-	-	-	-	-	(145.2)	(47.0)	(263.4)	-	11.60	-	21.00		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5/22/23	15A	-	-	-	6.54	-	1.2	-	-	-	-	-	-		
6/9/23	S. Planting	-	-	-	-	-	-	-	-	-	-	-	-		
7/1/23	15A	-	-	-	5.51	-	1.0	-	-	-	-	-	-		
7/1/23	Process Water	-	-	-	-	1.38	71.9	13.8	123.6	1,205	-	-	-		
7/11/23	15A	-	-	-	5.33	-	1.0	-	-	-	-	-	-		
7/11/23	Process Water	-	-	-	-	1.33	69.5	13.3	119.5	1,165	-	-	-		
7/21/23	15A	-	-	-	5.14	-	0.9	-	-	-	-	-	-		
7/21/23	Process Water	-	-	-	-	1.29	67.2	12.9	115.5	1,126	-	-	-		
8/1/23	15A	-	-	-	5.45	-	1.0	-	-	-	-	-	-		
8/1/23	Process Water	-	-	-	-	1.36	71.1	13.6	122.3	1,192	-	-	-		
8/15/23	15A	-	-	-	6.23	-	1.1	-	-	-	-	-	-		
9/4/23	S. Harvest	-	-	-	-	-	(223.3)	(47.7)	(219.5)	-	6.48	-	30.30		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Totals:		0.0		0	51.15	8.01	63	(25)	329	6,414	18.08	0	51.30		

Dry Weight
As Received

Field Name/Number: 16Acres: 73

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	431.6	69.4	811.5	6414.2
Nutrients Removed at Harvest	-368.6	-94.7	-482.9	0.0
Nutrient Balance	63.0	-25.3	328.6	6414.2

Winter Nitrogen Crop App / Use Ratio: 1.04 Summer Nitrogen Crop App / Use Ratio: 1.31Field Name/Number: 16 Acres: 73

Winter Crop	Wheat, Silage		N		
Nutrient Summary :	Applied				
W. Manure App.	-	T/Ac	-	-	-
W. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q1	1.3	Ac In /Ac	82.7	35.2
	Q2	1.3	Ac In /Ac	59.9	0.8
Well Water		10.59	Ac In /Ac	1.9	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
W. Planting	10/30/22				
W. Harvest	5/12/23	21.0	T/Ac	(145.2)	(107.6)
					(316.1)

Summer Crop	Corn, Silage		N		
Nutrient Summary :	Applied				
S. Manure App.	-	T/Ac	-	-	-
S. Comm Fert App.	-	lbs/Ac	-	-	-
Process Water	Q2	-	Ac In /Ac	-	-
	Q3	5.4	Ac In /Ac	279.7	122.9
	Q4	-	Ac In /Ac	-	-
Well Water		34.2	Ac In /Ac	6.2012811	
Canal		-	Ac In /Ac	-	
Atm. Depos.	Yes			7.0	
S. Planting	6/9/23				
S. Harvest	9/4/23	30.3	T/Ac	(223.3)	(109.3)
					(263.4)

Nutrient Applications

Field Name/Number:

17

Acres:

80.00

Field Name/Number: 17Acres: 80.00

	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Applied	0.0	0.0	0.0	0.0
Nutrients Removed at Harvest	-98.4	-6.4	-89.8	0.0
Nutrient Balance	-98.4	-6.4	-89.8	0.0

Winter Nitrogen Crop App / Use Ratio: 0.07 Summer Nitrogen Crop App / Use Ratio: #N/AField Name/Number: 17 Acres: 80

Winter Crop	Trees, Pistachios		N
Nutrient Summary :	Applied		
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	-	lbs/Ac	-
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water		- Ac In /Ac	-
Canal		34.4 Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	1/1/21		
W. Harvest	11/1/23	1.8 T/Ac	(98.4) (33.7) (129.8)

Summer Crop	Trees, Pistachios		N
Nutrient Summary :	Applied		
S. Manure App.	-	T/Ac	-
S. Comm Fert App.	-	lbs/Ac	-
Process Water	Q2	- Ac In /Ac	-
	Q3	- Ac In /Ac	-
	Q4	- Ac In /Ac	-
Well Water		- Ac In /Ac	-
Canal		- Ac In /Ac	-
Atm. Depos.	#N/A		#N/A
S. Planting	#N/A		
S. Harvest	#N/A	T/Ac	#N/A #N/A #N/A

Nutrient Applications

Field Name/Number:

18

Acres:

80.00

Field Name/Number: 18

Acres: 80.00

Nutrients Applied	Total N (lbs/ac)	Total P (lbs/ac)	Total K Lbs/ac)	Total Salts (lbs/ac)
Nutrients Removed at Harvest	0.0	0.0	0.0	0.0
Nutrient Balance	-98.4	-6.4	-89.8	0.0
	-98.4	-6.4	-89.8	0.0

Winter Nitrogen Crop App / Use Ratio: 0.07

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

Field Name/Number: 18 Acres: 80

Winter Crop Nutrient Summary :	Trees, Pistachios	Applied	N
W. Manure App.	-	T/Ac	-
W. Comm Fert App.	-	Ibs/Ac	-
Process Water	Q1	- Ac In /Ac	-
	Q2	- Ac In /Ac	-
Well Water		- Ac In /Ac	-
Canal		34.7 Ac In /Ac	-
Atm. Depos.	Yes		7.0
W. Planting	1/1/21		
W. Harvest	11/1/23	1.8 T/Ac	(98.4) (33.7) (129.8)

Summer Crop Nutrient Summary :	Trees, Pistachios	Applied	N
S. Manure App.	-	T/Ac	-
S. Comm Fert App.	-	Ibs/Ac	-
Process Water	Q2	- Ac In /Ac	-
	Q3	- Ac In /Ac	-
	Q4	- Ac In /Ac	-
Well Water		- Ac In /Ac	-
Canal		- Ac In /Ac	-
Atm. Depos.	#N/A		#N/A
S. Planting	#N/A		
S. Harvest	#N/A	#N/A T/Ac	#N/A #N/A #N/A

Notes

Field 17 & 18 are brand new fields - did not sample well, purchased at the end of 2023

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

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

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

130.5 (Initial)

Exception Reporting

Manure , Process Water and Other Dairy Waste Discharges:

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

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

Storm Water Discharges:

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

No, storm water discharges occurred during the reporting period

Land Application Area To Surface Water Discharges:

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

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

Nutrient Management Plan (NMP) & Written Agreement Statement

Nutrient Management Plan Statement:

Was the facility NMP updated in the reporting period?

Yes _____

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

Yes _____

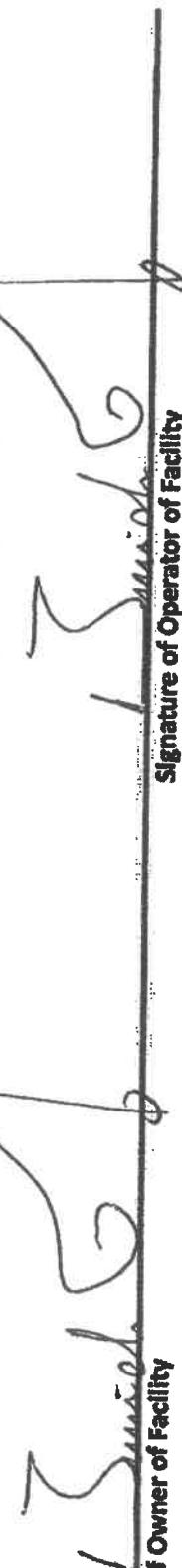
Written Agreements:

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

No _____

Owner and/or Operator Certification

*I certify under penalty of law that all information submitted as part of this document is accurate and true. Certification signatures by a California Registered Professional have been supplied as needed in Part II. I have personally examined and am familiar with the information submitted in Parts I and II of this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Signature of Owner of Facility

Cornelis Jan, Bert, Kellin Ann, & Mindy Delong

Print Name

Bert Delong
Print Name



Signature of Operator of Facility

4/11/2024
Date

DELLAVALLE™ LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/15/2023 16:22

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0756-01	1A	Ag Water	Mitch		09/11/2023 0:00
23I0756-02	3C	Ag Water	Mitch		09/11/2023 0:00
23I0756-03	9A	Ag Water	Mitch		09/11/2023 0:00

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.

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



DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/15/2023 16:22

Sample Results

Sample: 1A
23I0756-01 (Water)

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO3	134	mg/L	10.0	1		09/12/23 15:55	SM 2320 B		BEI0310
Calcium	51.6	mg/L	0.1	1		09/14/23 10:09	EPA 200.7		BEI0332
Chloride	99.3	mg/L	0.2	1	250	09/11/23 20:25	EPA 300.0		BEI0284
Carbonate as CaCO3	ND	mg/L	1	1		09/12/23 15:55	SM 2320 B		BEI0310
Electrical Conductivity	0.72	mmhos/cm	0.01	1		09/12/23 15:55	SM 2510 B		BEI0310
Electrical Conductivity umhos	717	umhos/cm	10.0	1		09/12/23 15:55	SM 2510 B		BEI0310
Bicarbonate as CaCO3	134	mg/L	5.00	1		09/12/23 15:55	SM 2320 B		BEI0310
Potassium	2.36	mg/L	0.500	1		09/14/23 10:09	EPA 200.7		BEI0332
Magnesium	13.6	mg/L	0.1	1		09/14/23 10:09	EPA 200.7		BEI0332
Sodium	77	mg/L	1	1		09/14/23 10:09	EPA 200.7		BEI0332
Ammonia (as N)	*	mg/L	0.00	1		09/11/23 00:00	Field		BEI0569
Nitrate Nitrogen as NO3N	8.5	mg/L	0.1	1	10	09/11/23 20:25	EPA 300.0		BEI0284
Hydroxide as CaCO3	ND	mg/L	1.00	1		09/12/23 15:55	SM 2320 B		BEI0310
pH	7.8	units	1.0	1		09/12/23 15:55	SM 4500-H+	H	BEI0310
Sulfate (SO4)	37.3	mg/L	0.5	1	250	09/11/23 20:25	EPA 300.0		BEI0284
Total Filterable Solids (TDS)	440	mg/L	10.0	1		09/14/23 15:49	SM 2540 C		BEI0271

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DELLAVALLE™

LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/15/2023 16:22

Sample Results (Continued)

Sample: 3C
23I0756-02 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	183	mg/L	10.0	1		09/12/23 15:59	SM 2320 B		BEI0310
Calcium	37.2	mg/L	0.1	1		09/14/23 10:10	EPA 200.7		BEI0332
Chloride	81.3	mg/L	0.2	1	250	09/11/23 20:45	EPA 300.0		BEI0284
Carbonate as CaCO ₃	ND	mg/L	1	1		09/12/23 15:59	SM 2320 B		BEI0310
Electrical Conductivity	0.73	mmhos/cm	0.01	1		09/12/23 15:59	SM 2510 B		BEI0310
Electrical Conductivity umhos	728	umhos/cm	10.0	1		09/12/23 15:59	SM 2510 B		BEI0310
Bicarbonate as CaCO ₃	183	mg/L	5.00	1		09/12/23 15:59	SM 2320 B		BEI0310
Potassium	1.62	mg/L	0.500	1		09/14/23 10:10	EPA 200.7		BEI0332
Magnesium	8.8	mg/L	0.1	1		09/14/23 10:10	EPA 200.7		BEI0332
Sodium	114	mg/L	1	1		09/14/23 10:10	EPA 200.7		BEI0332
Ammonia (as N)	*	mg/L	0.00	1		09/11/23 00:00	Field		BEI0332
Nitrate Nitrogen as NO ₃ N	6.5	mg/L	0.1	1	10	09/11/23 20:45	EPA 300.0		BEI0569
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/12/23 15:59	SM 2320 B		BEI0284
pH	7.8	units	1.0	1		09/12/23 15:59	SM 4500-H+	H	BEI0310
Sulfate (SO ₄)	44.2	mg/L	0.5	1	250	09/11/23 20:45	EPA 300.0		BEI0284
Total Filterable Solids (TDS)	490	mg/L	10.0	1		09/14/23 15:49	SM 2540 C		BEI0271

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DELLAVALLE™

LABORATORY INC

DJ Dairy
 9231 Avenue 368
 Dinuba, CA 93618

Account# 00-0015859
 Account Manager: Ben Nydam
 Submitted By: Bert DeJong

Received: 09/11/2023 14:30
 Reported: 09/15/2023 16:22

Sample Results (Continued)

Sample: 9A
23I0756-03 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Alkalinity as CaCO ₃	447	mg/L	10.0	1		09/12/23 16:04	SM 2320 B		BEI0310
Calcium	122	mg/L	0.1	1		09/14/23 10:12	EPA 200.7		BEI0332
Chloride	248	mg/L	0.2	1	250	09/11/23 21:05	EPA 300.0		BEI0284
Carbonate as CaCO ₃	ND	mg/L	1	1		09/12/23 16:04	SM 2320 B		BEI0310
Electrical Conductivity	1.96	mmhos/cm	0.01	1		09/12/23 16:04	SM 2510 B		BEI0310
Electrical Conductivity umhos	1960	umhos/cm	10.0	1		09/12/23 16:04	SM 2510 B		BEI0310
Bicarbonate as CaCO ₃	447	mg/L	5.00	1		09/12/23 16:04	SM 2320 B		BEI0310
Potassium	5.12	mg/L	0.500	1		09/14/23 10:12	EPA 200.7		BEI0332
Magnesium	52.4	mg/L	0.1	1		09/14/23 10:12	EPA 200.7		BEI0332
Sodium	248	mg/L	1	1		09/14/23 10:12	EPA 200.7		BEI0332
Ammonia (as N)	*	mg/L	0.00	1		09/11/23 00:00	Field		BEI0569
Nitrate Nitrogen as NO ₃ N	31.1	mg/L	0.1	1	10	09/11/23 21:05	EPA 300.0		BEI0284
Hydroxide as CaCO ₃	ND	mg/L	1.00	1		09/12/23 16:04	SM 2320 B		BEI0310
pH	7.4	units	1.0	1		09/12/23 16:04	SM 4500-H+	H	BEI0310
Sulfate (SO ₄)	129	mg/L	0.5	1	250	09/11/23 21:05	EPA 300.0		BEI0284
Total Filterable Solids (TDS)	1290	mg/L	10.0	1		09/14/23 15:49	SM 2540 C		BEI0271

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2810756

09/11/23 14:30

2310756

WATER WORK REQUEST

Act No.	15859	Con.	08
---------	-------	------	----

Purchase Order No. _____ Results Needed By _____

Client: DJ Dairy
 Address: 9231 Avenue 368
 City, State, Zip: Dimuba, CA 93618
 Email: nooreen@livingstdairyconsulting.com,
 marlene@livingstdairyconsulting.com,
 Copy to: datatech@livingstdairyconsulting.com

Requested by/Cell: Bert DeJong 805-8202

Facility: _____

Date sampled 9/11/2023

Sampled by Mitch

 QA/QC Document Copy of Chain RWQCB
 DESCRIPTION OF SAMPLES

1. 1A Sampled From: _____
2. 3C Sampled From: _____
3. 9A Sampled From: _____
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	BT	DLI	9/11/23 1:08	9/11/23 2:12
Second				
Third				
Fourth	BT	DLI	9/11/23 14:30	

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, my attorney's fees. It is understood that payment is required to be made with samples unless terms have been previously arranged. Terms are no 30 days. Delinquent accounts will be charged a delinquent charge fee of 3% per month initially 2.5% or \$500 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the request or services of DellaValle Laboratory, Inc., it will be submitted to arbitration under the Rules and Procedures of Commercial Alternative to Litigation, Inc. (CAL). If the dispute is not resolved in arbitration, commercial attorney's fees of DellaValle Laboratory

Invoicing Information:**Invoicing**

			Shipping	
Sampling Hrs	Miles	Consulting	\$	In
			\$	Out
Amnt Paid	Rec By	Check No.	Date	

Signature _____

Sample received in cooler with ice?

[] Yes [] No

cal update 2020

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 _____

No. Bottles _____

Water Type: Drinking Wastewater Ag Water Ground Water Mon. Well Supply Water Other**Analysis and Bottles Required: (Please Indicate Analysis)**

DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1L plastic, unpreserved (white)

DWW2: (DWW1 Plus SO₄, CO₂, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1L plastic, unpreserved (white)

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

DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1L plastic, unpreserved (white)

DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₂, SO₄, Cl)
 (1) 1L plastic, unpreserved (white)

Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
9/11/2023	—	N/A	0.3
9/11/2023	—	N/A	0.3
9/11/2023	—	N/A	-0.2

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

} G.C
9-11-23



Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in ice chest					
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ were:					<input type="checkbox"/> Received Preserved		<input type="checkbox"/> 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 ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BCD) (Purple) Plastic									
	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 ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BCD) (Purple) Plastic									
	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPAS31)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ (EPAS47)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
Special	1 L AG unpreserved (White)									
	1L AG H ₂ SO ₄ (Yellow)									
	1L AG Na ₂ S ₂ O ₃ (Green)									
	1L AG HCl (Blue)									
	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

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0757-01	Barn	Ag Water	Mitch		09/11/2023 0:00
23I0757-02	4B	Ag Water	Mitch		09/11/2023 0:00
23I0757-03	5B	Ag Water	Mitch		09/11/2023 0:00
23I0757-04	7A	Ag Water	Mitch		09/11/2023 0:00
23I0757-05	8B	Ag Water	Mitch		09/11/2023 0:00
23I0757-06	8C	Ag Water	Mitch		09/11/2023 0:00
23I0757-07	10A	Ag Water	Mitch		09/11/2023 0:00
23I0757-08	11A	Ag Water	Mitch		09/11/2023 0:00
23I0757-09	14B	Ag Water	Mitch		09/11/2023 0:00
23I0757-10	15A	Ag Water	Mitch		09/11/2023 0:00

Default Cooler Temperature on Receipt °C: -0.2
 Containers Intact
 COC/Labels Agree
 Received On Ice

Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results

Sample: Barn

Sampled: 9/11/2023 0:00

23I0757-01 (Water)

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.90	mmhos/cm	0.01	1		09/12/23 14:10	SM 2510 B		BEI0309
Electrical Conductivity umhos	898	umhos/cm	10.0	1		09/12/23 14:10	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	9.8	mg/L	0.1	1	10	09/11/23 21:25	EPA 300.0		BEI0284
pH	7.8	units	1.0	1		09/12/23 14:10	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:10	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 4B Sampled: 9/11/2023 0:00
23I0757-02 (Water) Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.94	mmhos/cm	0.01	1		09/12/23 14:11	SM 2510 B		BEI0309
Electrical Conductivity umhos	938	umhos/cm	10.0	1		09/12/23 14:11	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	11.0	mg/L	0.1	1	10	09/11/23 21:45	EPA 300.0		BEI0284
pH	7.8	units	1.0	1		09/12/23 14:11	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:11	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 5B

Sampled: 9/11/2023 0:00

23I0757-03 (Water)

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.70	mmhos/cm	0.01	1		09/12/23 14:12	SM 2510 B		BEI0309
Electrical Conductivity umhos	699	umhos/cm	10.0	1		09/12/23 14:12	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	3.6	mg/L	0.1	1	10	09/11/23 22:05	EPA 300.0		BEI0284
pH	8.2	units	1.0	1		09/12/23 14:12	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:12	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 7A

Sampled: 9/11/2023 0:00

23I0757-04 (Water)

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.52	mmhos/cm	0.01	1		09/12/23 14:13	SM 2510 B		BEI0309
Electrical Conductivity umhos	1520	umhos/cm	10.0	1		09/12/23 14:13	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	18.1	mg/L	0.1	1	10	09/11/23 22:26	EPA 300.0		BEI0284
pH	7.7	units	1.0	1		09/12/23 14:13	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:13	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 8B

23I0757-05 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.94	mmhos/cm	0.01	1		09/12/23 14:15	SM 2510 B		BEI0309
Electrical Conductivity umhos	1940	umhos/cm	10.0	1		09/12/23 14:15	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	24.3	mg/L	0.1	1	10	09/11/23 22:46	EPA 300.0		BEI0284
pH	7.5	units	1.0	1		09/12/23 14:15	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:15	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
 9231 Avenue 368
 Dinuba, CA 93618

Account# 00-0015859
 Account Manager: Ben Nydam
 Submitted By: Bert DeJong

Received: 09/11/2023 14:30
 Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 8C

Sampled: 9/11/2023 0:00

23I0757-06 (Water)

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.84	mmhos/cm	0.01	1		09/12/23 14:16	SM 2510 B		BEI0309
Electrical Conductivity umhos	838	umhos/cm	10.0	1		09/12/23 14:16	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	6.9	mg/L	0.1	1	10	09/11/23 23:06	EPA 300.0		BEI0284
pH	8.1	units	1.0	1		09/12/23 14:16	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:16	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
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Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 10A
23I0757-07 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.95	mmhos/cm	0.01	1		09/12/23 14:18	SM 2510 B		BEI0309
Electrical Conductivity umhos	949	umhos/cm	10.0	1		09/12/23 14:18	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	8.5	mg/L	0.1	1	10	09/11/23 23:26	EPA 300.0		BEI0284
pH	7.8	units	1.0	1		09/12/23 14:18	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:18	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 11A

23I0757-08 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.52	mmhos/cm	0.01	1		09/12/23 14:19	SM 2510 B		BEI0309
Electrical Conductivity umhos	1520	umhos/cm	10.0	1		09/12/23 14:19	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	14.4	mg/L	0.1	1	10	09/12/23 02:09	EPA 300.0		BEI0284
pH	7.7	units	1.0	1		09/12/23 14:19	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:19	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
9231 Avenue 368
Dinuba, CA 93618

Account# 00-0015859
Account Manager: Ben Nydam
Submitted By: Bert DeJong

Received: 09/11/2023 14:30
Reported: 09/14/2023 09:12

Sample: 14B
23I0757-09 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	1.20	mmhos/cm	0.01	1		09/12/23 14:20	SM 2510 B		BEI0309
Electrical Conductivity umhos	1200	umhos/cm	10.0	1		09/12/23 14:20	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	6.5	mg/L	0.1	1	10	09/12/23 02:29	EPA 300.0		BEI0284
pH	8.0	units	1.0	1		09/12/23 14:20	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:20	SM 2510 B		BEI0309

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LABORATORY INC

DJ Dairy
 9231 Avenue 368
 Dinuba, CA 93618

Account# 00-0015859
 Account Manager: Ben Nydam
 Submitted By: Bert DeJong

Received: 09/11/2023 14:30
 Reported: 09/14/2023 09:12

Sample Results (Continued)

Sample: 15A

23I0757-10 (Water)

Sampled: 9/11/2023 0:00

Sampled By: Mitch

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.51	mmhos/cm	0.01	1		09/12/23 14:21	SM 2510 B		BEI0309
Electrical Conductivity umhos	507	umhos/cm	10.0	1		09/12/23 14:21	SM 2510 B		BEI0309
Ammonia (as N)	ND	mg/L	0.00	1		09/11/23 00:00	Field		BEI0306
Nitrate Nitrogen as NO3N	0.8	mg/L	0.1	1	10	09/12/23 02:49	EPA 300.0		BEI0284
pH	8.6	units	1.0	1		09/12/23 14:21	SM 4500-H+	H	BEI0309
Temperature	25.0	°C	0.0	1		09/12/23 14:21	SM 2510 B		BEI0309

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09/11/23 14:30

2310757

✓ 757

WATER WORK REQUEST

Bill To: Acct No. Cons.

Purchase Order No. _____ Results Needed By _____

Client: **DJ Dairy**
 Address: 9231 Avenue 368
 City, State, Zip: Dinuba, CA 93618
 Email: noreen@livingstdairyconsulting.com,
 marlene@livingstdairyconsulting.com,
 datatech@livingstdairyconsulting.com
 Copy to: _____

Requested by/Cell: Bert DeJong 805-8202

Facility: _____

Date sampled: 9/11/2023

Sampled by: Mitch

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

1.	Barn	Sampled From:
2.	4B	Sampled From:
3.	5B	Sampled From:
4.	7A	Sampled From:
5.	8B	Sampled From:
6.	8C	Sampled From:
7.	9A <i>Not Read</i>	Sampled From:
8.	10A	Sampled From:
9.	11A	Sampled From:
10.	14B	Sampled From:

DELLAVILLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavillelab.com 559.268.8174 • Fax 559.268.9896

No. Bottles **10**No. of Samples **10**

Water Type:	<input type="checkbox"/> Drinking	<input type="checkbox"/> Wastewater
	<input checked="" type="checkbox"/> Ag Water	<input type="checkbox"/> Ground Water
	<input type="checkbox"/> Supply Water	<input type="checkbox"/> Mon. Well
	<input type="checkbox"/> Other	

Analysis and Bottles Required: (Please Indicate Analysis)

- DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1L plastic, unpreserved (white)
- DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1L plastic, unpreserved (white)
- DCW1: (EC, NO₃-N, TDS)
 (1) 1L plastic, unpreserved (white)
- DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1L plastic, unpreserved (white)
- DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1L plastic, unpreserved (white)

 Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/l)	Received Temp °C
9/11/2023		N/A	-0.2
9/11/2023		N/A	0.4
9/11/2023		N/A	-0.5
9/11/2023		N/A	-0.5
9/11/2023		N/A	0.6
9/11/2023		N/A	-0.6
9/11/2023		N/A	0.6
9/11/2023		N/A	-0.6
9/11/2023		N/A	0.5
9/11/2023		N/A	-1.7

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Ctt	DLC	9/11/23 1:08	9/11/23 2:15
Second				
Third				
Fourth	9/11	DLC	9/11 1:13:30	

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 attorney's 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 late charge of 1% per month (monthly 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 service of Dellaville Laboratory, Inc., it will be submitted to mediation under the Rules of Procedure. The dispute will be submitted to binding arbitration through Cal Under Its Rules and Procedures. The parties will equally bear the costs of mediation arbitration. If, however, the mediator deems that no arbitration, reasonable attorney's fees of Dellaville Laboratory.

Invoicing Information:**Invoicing**

Sampling Hrs	Miles	Consulting	Shipping
\$			In
\$			Out
Amt Paid	Rec By	Check No.	Date

Signature _____

Sample received in cooler with ice?

[] Yes [] No

cell update 2020

IR Thermometer SN: 200560723

Correction Factor: 0°C

Calibration Due: 9/26/2023

Location: Laboratory

DJ Dairy LLC



2023

Google Earth

Livingston Dairy Consulting, Inc.

1635 E. Prosperity Ave. Ste. B
Tulare, CA 93274
559-687-1440

Sunday, April 21, 2024

Re: 2023 NMP
DJ Dairy, LLC WDID 5C54NC0023
4390 Ave. 352 Kingsburg, CA 93631

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

*2023 Whole Farm Nitrogen Balance

The whole farm nitrogen balance for the crop year 2022 was **0.79**
Nitrogen Summary will show the balances for each field and for the whole farm.

*Ranges for the Whole Farm Nitrogen Balance

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

*Nutrient Management Plan/ Nutrient Budget Certification

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


Butch Brazil
Certified Crop Advisor #35629

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

