

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:** McREE DAIRY EAST

Physical address of dairy:

11812 Avenue 18

Number and Street

Chowchilla

City

Madera

County

93610

Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 06/01/1931Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0023-0140-0012-0000**B. OPERATORS**

McRee, Michael

Operator name: McRee, MichaelTelephone no.: (559) 665-5466(559) 871-8000

Landline

Cellular

11812 Avenue 18

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

This operator is responsible for paying permit fees.**C. OWNERS**

McRee, Michael

Legal owner name: McRee, MichaelTelephone no.: (559) 665-5466(559) 871-8000

Landline

Cellular

11812 Avenue 18

Mailing Address Number and Street

Chowchilla

City

CA

State

93610

Zip Code

This owner is responsible for paying permit fees.

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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	0	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	0	0	0
Average number	0	0	0	0	0	0
Avg live weight (lbs)	0	0	0	0		

Predominant milk cow breed: Other

Average milk production: 1 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 1.00 tons per reporting period

Total nitrogen from manure: 1.00 lbs per reporting period

After ammonia losses (30% loss applied): 0.70 lbs per reporting period

Total phosphorus from manure: 1.00 lbs per reporting period

Total potassium from manure: 1.00 lbs per reporting period

Total salt from manure: 0.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 19,500,000 gallons

Total nitrogen generated: 7,514.51 lbs

Total phosphorus generated: 2,207.14 lbs

Total potassium generated: 21,870.58 lbs

Total salt generated: 51,391.85 lbs

19,500,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 19,500,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
CWD Canal	Surface water
DW-23E	Ground water
PP-23 House	Ground water
PP-23-Barn	Ground 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

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 20	80	80	2	manure	0023-0150-0002-0000 0023-0150-0004-0000 0023-0150-0006-0000
Field 21	18	18	2	both	0023-0080-0012-0000
Field 22	56	56	2	both	0023-0080-0020-0000 0023-0080-0021-0000 0023-0080-0022-0000
Field 23	51	51	4	process wastewater	0023-0140-0002-0000 0023-0140-0012-0000
Totals for areas that were used for application	205	205	10		
Totals for areas that were not used for application					
Land application area totals	205	205	10		

B. CROPS AND HARVESTS

Field 20																				
Field name: <u>Field 20</u>																				
11/22/2022: Wheat, silage, soft dough																				
Crop: <u>Wheat, silage, soft dough</u> Acres planted: <u>80</u> Plant date: <u>11/22/2022</u>																				
<table><tr><th>Harvest date</th><th>Yield</th><th>Reporting basis</th><th>Density (lbs/cu ft)</th><th>Moisture (%)</th><th>N (mg/kg)</th><th>P (mg/kg)</th><th>K (mg/kg)</th><th>Salt (mg/kg)</th><th>TFS (%)</th></tr><tr><td>05/06/2023</td><td>1,184.00 ton</td><td>Dry-weight</td><td></td><td>75.1</td><td>20,500.00</td><td>3,000.00</td><td>25,200.00</td><td></td><td>12.60</td></tr></table>	Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	05/06/2023	1,184.00 ton	Dry-weight		75.1	20,500.00	3,000.00	25,200.00		12.60
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
05/06/2023	1,184.00 ton	Dry-weight		75.1	20,500.00	3,000.00	25,200.00		12.60											
<table><tr><th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr><tr><td>Anticipated harvest content</td><td>18.00</td><td>198.00</td><td>30.60</td><td>149.40</td><td>1,080.00</td></tr><tr><td>Total actual harvest content</td><td>14.80</td><td>151.09</td><td>22.11</td><td>185.73</td><td>928.67</td></tr></table>		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)	Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00	Total actual harvest content	14.80	151.09	22.11	185.73	928.67		
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)															
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00															
Total actual harvest content	14.80	151.09	22.11	185.73	928.67															

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Field 20

05/22/2023: Tomato

Crop: Tomato Acres planted: 80 Plant date: 05/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	4,102.00 ton	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		47.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	156.00	84.00	420.00	2,100.00
Total actual harvest content	51.28	144.16	72.42	324.88	3,228.48

Field 21

Field name: Field 21

11/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 18 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	242.50 ton	Dry-weight		73.2	19,500.00	3,200.00	254,000.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	13.47	140.81	23.11	1,834.16	917.08

05/30/2023: Tomato

Crop: Tomato Acres planted: 18 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	923.00 ton	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		47.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	156.00	84.00	420.00	2,100.00
Total actual harvest content	51.28	144.17	72.42	324.90	3,228.65

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Field 22

Field name: Field 22

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

Crop: Wheat, silage, soft dough Acres planted: 56 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 (%)
05/03/2023	754.00 <i>ton</i>	Dry-weight		73.2	19,500.00	3,200.00	25,400.00		12.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,080.00
Total actual harvest content	13.46	140.73	23.09	183.31	916.54

05/31/2023: Tomato

Crop: Tomato Acres planted: 56 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,872.00 <i>ton</i>	Dry-weight		93.4	21,300.00	10,700.00	48,000.00		47.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	60.00	156.00	84.00	420.00	2,100.00
Total actual harvest content	51.29	144.19	72.44	324.95	3,229.15

Field 23

Field name: Field 23

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Field 23

03/28/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 51 Plant date: 03/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/07/2023	134.00 ton	Dry-weight		10.4	35,360.00	2,400.00	27,000.00		0.00
08/02/2023	134.00 ton	Dry-weight		11.2	35,840.00	2,400.00	29,000.00		0.00
09/12/2023	134.00 ton	Dry-weight		9.0	37,920.00	2,600.00	29,000.00		0.00
11/10/2023	304.00 ton	Dry-weight		67.9	14,200.00	1,100.00	8,400.00		4.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,480.00
Total actual harvest content	13.84	569.40	39.14	433.27	183.69

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NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 20 - 11/22/2022: Wheat, silage, soft dough

Field name: Field 20

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/03/2022	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 Application	Corral solids	180.25	51.93	285.32	3,811.99	400.00 <i>ton</i>
Application event totals		180.25	51.93	285.32	3,811.99	
11/22/2022	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer @ Planting	Liquid commercial fertilizer	15.00	0.00	0.00	0.00	
Application event totals		15.00	0.00	0.00	0.00	
04/12/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-23E	Ground water	0.41	0.00	0.00	166.75	9,240,000.00 <i>gal</i>
Application event totals		0.41	0.00	0.00	166.75	

Field 20 - 05/22/2023: Tomato

Field name: Field 20

Crop: Tomato

Plant date: 05/22/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	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 Application - Compost	Corral solids	68.13	10.92	31.94	0.00	320.00 <i>ton</i>
Application event totals		68.13	10.92	31.94	0.00	

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Field 20 - 05/22/2023: Tomato

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
09/27/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations		Liquid commercial fertilizer	120.00	0.00	0.00	0.00	
DW-23E		Ground water	1.55	0.00	0.00	623.67	34,560,000.00 <i>gal</i>
CWD Canal		Surface water	0.00	0.00	0.00	46.87	34,560,000.00 <i>gal</i>
Application event totals			121.55	0.00	0.00	670.54	

Field 21 - 11/20/2022: Wheat, silage, soft dough

Field name: Field 21

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
11/03/2022	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 Application		Corral solids	144.20	41.54	228.26	3,049.59	72.00 <i>ton</i>
Application event totals			144.20	41.54	228.26	3,049.59	
12/12/2022	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
Blended Lg and Fresh Water Application		Process wastewater	57.95	16.29	78.78	525.40	1,440,000.00 <i>gal</i>
Application event totals			57.95	16.29	78.78	525.40	
04/15/2023	Subsurface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
DW-23E		Ground water	0.44	0.00	0.00	175.17	2,184,000.00 <i>gal</i>
Application event totals			0.44	0.00	0.00	175.17	

Field 21 - 05/30/2023: Tomato

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Field 21 - 05/30/2023: Tomato

Field name: Field 21

Crop: Tomato

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	31.15	10.04	200.28	55.63	3,000,000.00 <i>gal</i>
Application event totals		31.15	10.04	200.28	55.63	
10/05/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	136.00	0.00	0.00	0.00	
DW-23E	Ground water	1.61	0.00	0.00	646.77	8,064,000.00 <i>gal</i>
CWD Canal	Surface water	0.00	0.00	0.00	48.60	8,064,000.00 <i>gal</i>
Application event totals		137.61	0.00	0.00	695.37	

Field 22 - 11/21/2022: Wheat, silage, soft dough

Field name: Field 22

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		
11/03/2022	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 Application	Corral solids	144.20	41.54	228.26	3,049.59	224.00 <i>ton</i>
Application event totals		144.20	41.54	228.26	3,049.59	
03/20/2023	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
Blended Lg and Fresh Water Application	Process wastewater	46.57	13.09	63.30	422.20	3,600,000.00 <i>gal</i>
Application event totals		46.57	13.09	63.30	422.20	

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Field 22 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
04/16/2023	Subsurface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal		Surface water	0.46	0.00	0.00	185.62	7,200,000.00 <i>gal</i>
Application event totals			0.46	0.00	0.00	185.62	

Field 22 - 05/31/2023: Tomato

Field name: Field 22

Crop: Tomato

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	Tow-Line Sprinkler Lagoon Application	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Blended Lg and Fresh Water Application	Process wastewater	31.04	10.01	199.56	55.43	9,300,000.00 <i>gal</i>
Application event totals		31.04	10.01	199.56	55.43	
10/05/2023	Total Sub-Surface Irrigations	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Uan-32 Fertilizer in Irrigations	Liquid commercial fertilizer	136.00	0.00	0.00	0.00	
CWD Canal	Surface water	0.00	0.00	0.00	94.85	48,960,000.00 <i>gal</i>
Application event totals		136.00	0.00	0.00	94.85	

Field 23 - 03/28/2022: Alfalfa, hay

Field name: Field 23

Crop: Alfalfa, hay

Plant date: 03/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 23 - 03/28/2022: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
12/22/2022	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
Blended Lg and Fresh Water Application			Process wastewater	30.68	8.62	41.71	278.15	2,160,000.00 <i>gal</i>
Application event totals				30.68	8.62	41.71	278.15	
10/01/2023	Total Sub-Surface Irrigations		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD Canal			Surface water	0.00	0.00	0.00	122.52	57,600,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	122.52	

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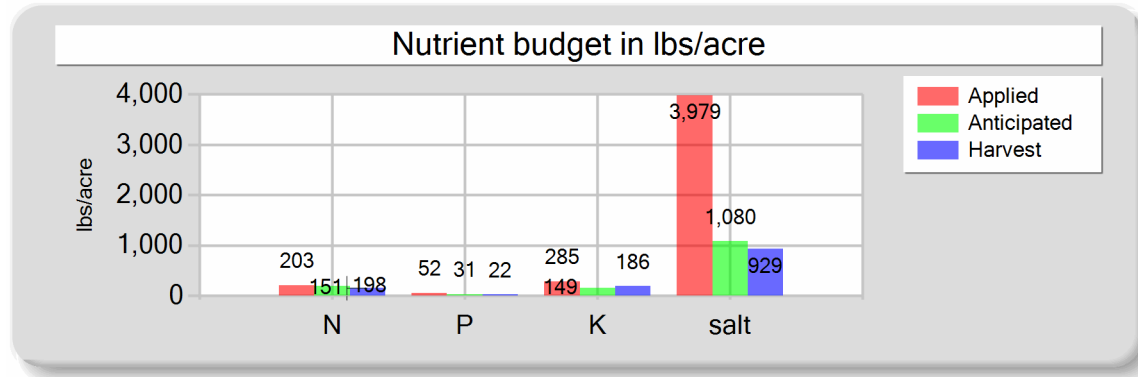
B. NUTRIENT BUDGET

Field 20 - 11/22/2022: Wheat, silage, soft dough

Field name: Field 20

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,240,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	340.28 acre-inches
Commercial fertilizer / Other	15.00	0.00	0.00	0.00	4.25 inches/acre
Dry manure	180.25	51.93	285.32	3,811.99	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.41	0.00	0.00	166.75	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	202.66	51.93	285.32	3,978.74	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00	
Actual crop nutrient removal	151.09	22.11	185.73	928.67	
Nutrient balance	51.57	29.81	99.59	3,050.07	
Applied to removed ratio	1.34	2.35	1.54	4.28	
					Process wastewater applied
					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
					Total harvests for the crop
					1 harvests

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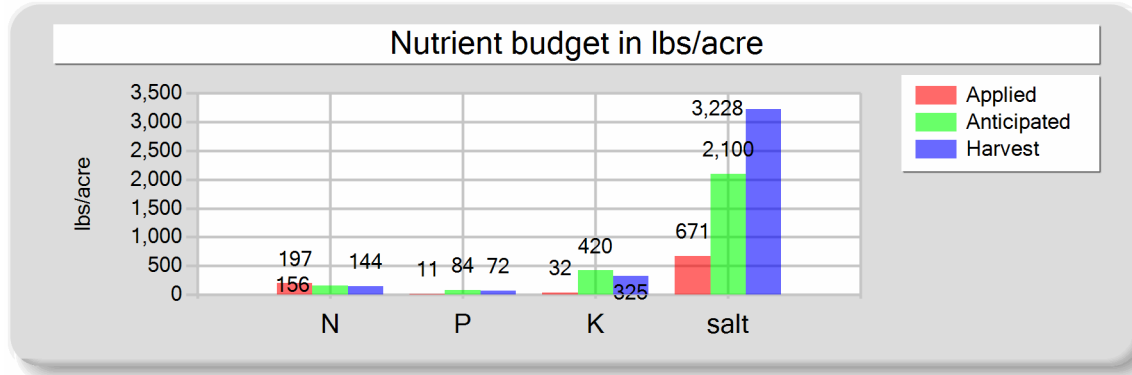
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Field 20 - 05/22/2023: Tomato

Field name: Field 20

Crop: Tomato

Plant date: 05/22/2023



	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	120.00	0.00	0.00	0.00
Dry manure	68.13	10.92	31.94	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	1.55	0.00	0.00	670.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	196.68	10.92	31.94	670.54
Anticipated crop nutrient removal	156.00	84.00	420.00	2,100.00
Actual crop nutrient removal	144.16	72.42	324.88	3,228.48
Nutrient balance	52.52	-61.50	-292.94	-2,557.94
Applied to removed ratio	1.36	0.15	0.10	0.21

Fresh water applied
69,120,000.00 <i>gallons</i>
2,545.45 <i>acre-inches</i>
31.82 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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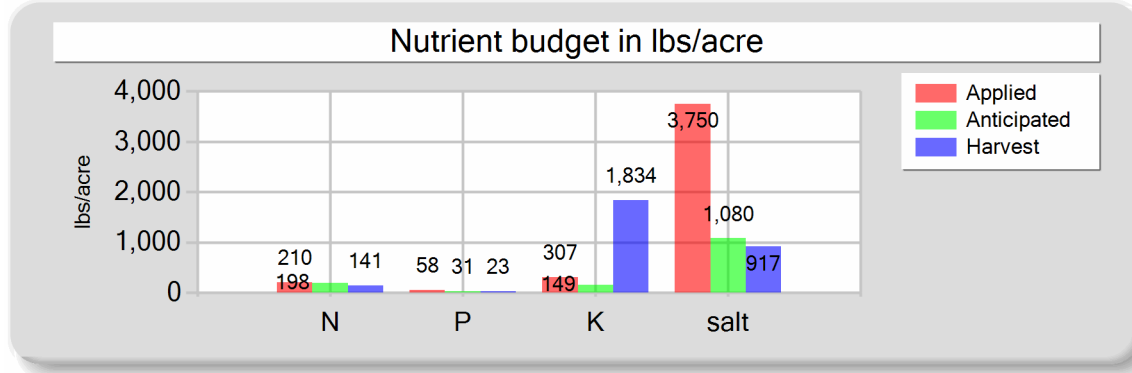
Reporting period 01/01/2023 to 12/31/2023.

Field 21 - 11/20/2022: Wheat, silage, soft dough

Field name: Field 21

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022



	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	144.20	41.54	228.26	3,049.59
Process wastewater	57.95	16.29	78.78	525.40
Fresh water	0.44	0.00	0.00	175.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	209.58	57.83	307.04	3,750.16
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	140.81	23.11	1,834.16	917.08
Nutrient balance	68.77	34.72	-1,527.13	2,833.08
Applied to removed ratio	1.49	2.50	0.17	4.09

Fresh water applied
2,184,000.00 <i>gallons</i>
80.43 <i>acre-inches</i>
4.47 <i>inches/acre</i>

Process wastewater applied
1,440,000.00 <i>gallons</i>
53.03 <i>acre-inches</i>
2.95 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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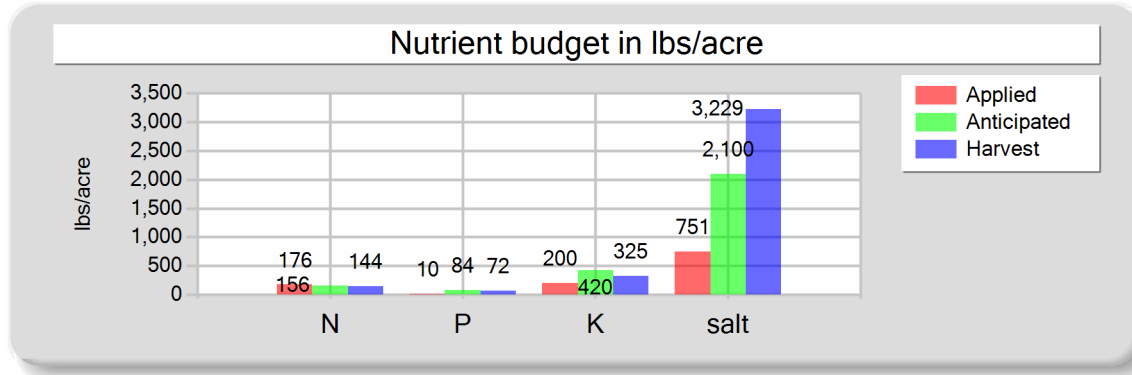
Reporting period 01/01/2023 to 12/31/2023.

Field 21 - 05/30/2023: Tomato

Field name: Field 21

Crop: Tomato

Plant date: 05/30/2023



	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	136.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	31.15	10.04	200.28	55.63
Fresh water	1.61	0.00	0.00	695.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	175.76	10.04	200.28	751.01
Anticipated crop nutrient removal	156.00	84.00	420.00	2,100.00
Actual crop nutrient removal	144.17	72.42	324.90	3,228.65
Nutrient balance	31.59	-62.38	-124.62	-2,477.65
Applied to removed ratio	1.22	0.14	0.62	0.23

Fresh water applied
16,128,000.00 <i>gallons</i>
593.94 <i>acre-inches</i>
33.00 <i>inches/acre</i>

Process wastewater applied
3,000,000.00 <i>gallons</i>
110.48 <i>acre-inches</i>
6.14 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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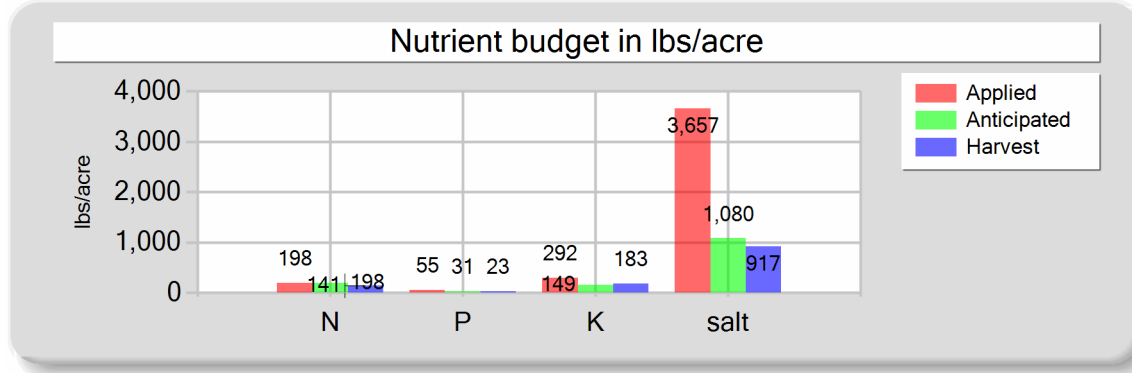
Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 11/21/2022: Wheat, silage, soft dough

Field name: Field 22

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	144.20	41.54	228.26	3,049.59
Process wastewater	46.57	13.09	63.30	422.20
Fresh water	0.46	0.00	0.00	185.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	198.22	54.63	291.56	3,657.41
Anticipated crop nutrient removal	198.00	30.60	149.40	1,080.00
Actual crop nutrient removal	140.73	23.09	183.31	916.54
Nutrient balance	57.49	31.54	108.25	2,740.87
Applied to removed ratio	1.41	2.37	1.59	3.99

Fresh water applied
7,200,000.00 <i>gallons</i>
265.15 <i>acre-inches</i>
4.73 <i>inches/acre</i>

Process wastewater applied
3,600,000.00 <i>gallons</i>
132.58 <i>acre-inches</i>
2.37 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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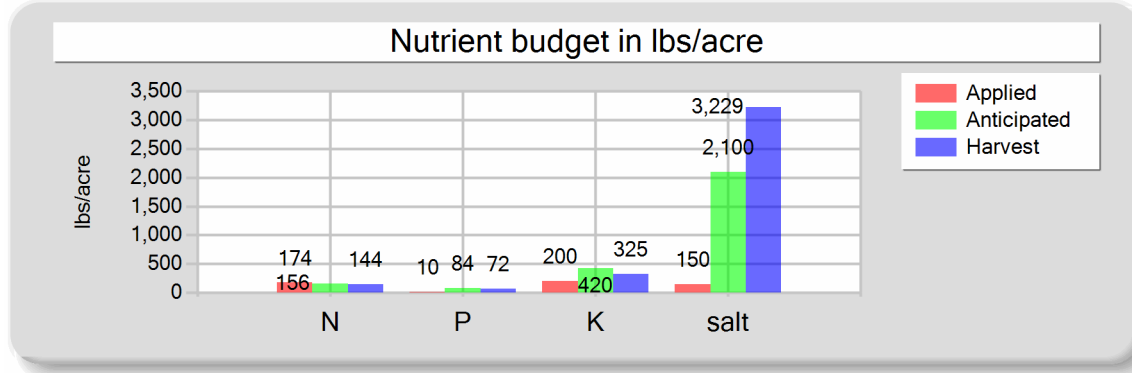
Reporting period 01/01/2023 to 12/31/2023.

Field 22 - 05/31/2023: Tomato

Field name: Field 22

Crop: Tomato

Plant date: 05/31/2023



	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	136.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	31.04	10.01	199.56	55.43
Fresh water	0.00	0.00	0.00	94.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	174.04	10.01	199.56	150.28
Anticipated crop nutrient removal	156.00	84.00	420.00	2,100.00
Actual crop nutrient removal	144.19	72.44	324.95	3,229.15
Nutrient balance	29.85	-62.43	-125.38	-3,078.87
Applied to removed ratio	1.21	0.14	0.61	0.05

Fresh water applied
48,960,000.00 <i>gallons</i>
1,803.03 <i>acre-inches</i>
32.20 <i>inches/acre</i>

Process wastewater applied
9,300,000.00 <i>gallons</i>
342.49 <i>acre-inches</i>
6.12 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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Reporting period 01/01/2023 to 12/31/2023.

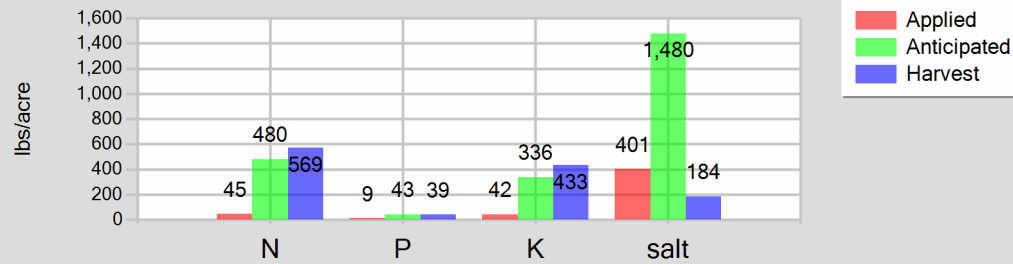
Field 23 - 03/28/2022: Alfalfa, hay

Field name: Field 23

Crop: Alfalfa, hay

Plant date: 03/28/2022

Nutrient budget in lbs/acre



	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	30.68	8.62	41.71	278.15
Fresh water	0.00	0.00	0.00	122.52
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	44.68	8.62	41.71	400.68
Anticipated crop nutrient removal	480.00	43.20	336.00	1,480.00
Actual crop nutrient removal	569.40	39.14	433.27	183.69
Nutrient balance	-524.73	-30.52	-391.57	216.99
Applied to removed ratio	0.08	0.22	0.10	2.18

Fresh water applied
57,600,000.00 gallons
2,121.21 acre-inches
41.59 inches/acre
Process wastewater applied
2,160,000.00 gallons
79.55 acre-inches
1.56 inches/acre
Total harvests for the crop
4 harvests

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Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT ANALYSES

A. MANURE ANALYSES

Corral solids - 2022

Sample and source description: Corral solids - 2022

Sample date: 10/25/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 23.3 %

	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	23,500.00	6,770.00	37,200.00							49.70
DL	1,000.00	1,000.00	1,000.00							0.10

Compost/Separator Solids

Sample and source description: Compost/Separator Solids

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 39.6 %

	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	14,100.00	2,260.00	6,610.00							0.00
DL	1,000.00	1,000.00	1,000.00							0.10

B. PROCESS WASTEWATER ANALYSES

Pond-D-4

Sample and source description: Pond-D-4

Sample date: 11/17/2022 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	86.80	44.80	0.00	0.00	24.40	118.00								1,230.00	787
DL	0.50	0.50	0.50	0.50	5.00	2.00								1.00	10

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Pond-D-1

Sample and source description: Pond-D-1

Sample date: 03/16/2023 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	22.40	11.20	0.00	0.00	7.22	144.00								667.00	40
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-D-2

Sample and source description: Pond-D-2

Sample date: 06/08/2023 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	8.40	0.00	0.00	0.00	3.70	25.90								335.00	214
DL	0.50	0.50	0.50	0.50	0.50	10.00								1.00	10

Pond-D-6

Sample and source description: Pond-D-6

Sample date: 08/23/2023 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	22.40	2.80	0.00	0.00	0.79	6.50								418.00	267
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

Pond-D-4

Sample and source description: Pond-D-4

Sample date: 11/07/2023 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	22.40	8.40	0.00	0.00	5.58	31.20								397.00	160
DL	0.50	0.50	0.50	0.50	0.50	2.00								1.00	10

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C. FRESH WATER ANALYSES

CWD Canal

CWD Canal

Sample description: CWD Canal

Sample date: 08/23/2023 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	0.00								100.00	13
DL	0.50	0.50	0.50								1.00	10

DW-23E

DW-23E

Sample description: DW-23E

Sample date: 08/29/2023 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	0.43	0.00	0.43								270.00	173
DL	0.40	0.50	0.40								1.00	10

PP-23 House

Domestic Well

Sample description: Domestic Well

Sample date: 08/29/2023 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	27.20	0.00	27.20								1,210.00	774
DL	0.50	0.50	0.50								1.00	10

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PP-23-Barn

PP-23-Barn

Sample description: PP-23-Barn

Sample date: 08/29/2023 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	1.09	0.00	1.09								269.00	172
DL	0.50	0.50	0.50								1.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 20 - 11/22/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,500.00	3,000.00	25,200.00		12.60
DL	1,000.00	1,000.00	1,000.00		0.10

Field 20 - 05/22/2023: Tomato

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Field 20 - 05/22/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		47.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 21 - 11/20/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,500.00	3,200.00	254,000.00		12.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 21 - 05/30/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		47.70
DL	1,000.00	1,000.00	1,000.00		0.10

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Field 22 - 11/21/2022: Wheat, silage, soft dough

Winter Forage

Sample and source description: Winter Forage

Sample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,500.00	3,200.00	25,400.00		12.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 22 - 05/31/2023: Tomato

Tomatoes-Processing

Sample and source description: Tomatoes-Processing

Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 93.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	10,700.00	48,000.00		47.70
DL	1,000.00	1,000.00	1,000.00		0.10

Field 23 - 03/28/2022: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 06/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,800.00	2,500.00	30,000.00		0.00
DL	1,000.00	1,000.00	1,000.00		0.10

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Reporting period 01/01/2023 to 12/31/2023.

Field 23 - 03/28/2022: Alfalfa, hay

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,360.00	2,400.00	27,000.00		0.00
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 08/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,840.00	2,400.00	29,000.00		0.00
DL	1,000.00	1,000.00	1,000.00		0.10

Alfalfa Hay

Sample and source description: Alfalfa Hay

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,920.00	2,600.00	29,000.00		0.00
DL	1,000.00	1,000.00	1,000.00		0.10

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Field 23 - 03/28/2022: Alfalfa, hay

Alfalfa Haylage

Sample and source description: Alfalfa Haylage

Sample date: 11/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	1,100.00	8,400.00		4.80
DL	1,000.00	1,000.00	1,000.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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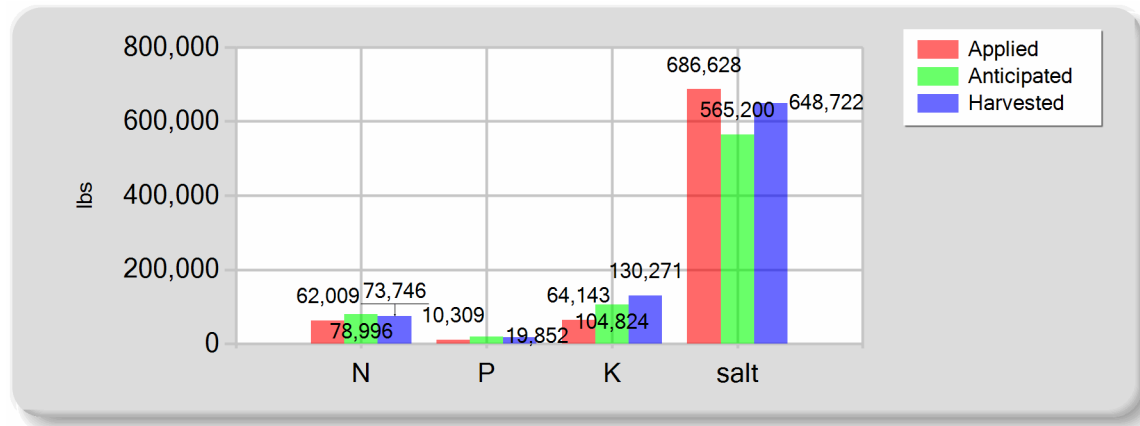
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

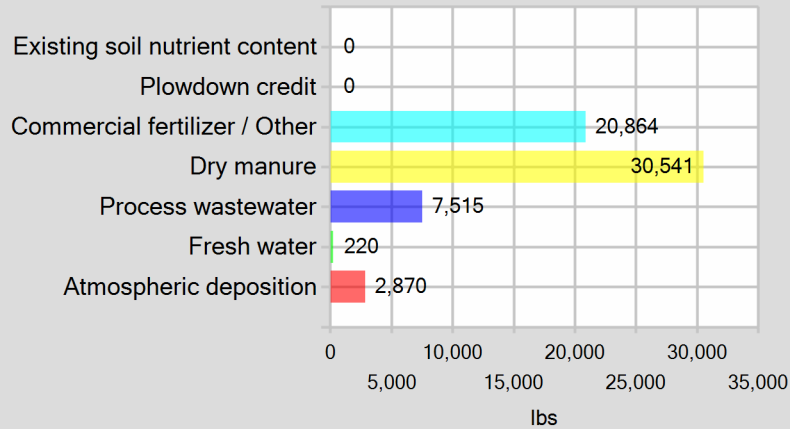
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	20,864.00	0.00	0.00	0.00
Dry manure	30,540.60	8,101.71	42,272.26	530,629.01
Process wastewater	7,514.51	2,207.14	21,870.58	51,391.85
Fresh water	219.78	0.00	0.00	104,607.05
Atmospheric deposition	2,870.00	0.00	0.00	0.00
Total nutrients applied	62,008.88	10,308.85	64,142.84	686,627.90
Anticipated crop nutrient removal	78,996.00	19,851.60	104,823.60	565,200.00
Actual crop nutrient removal	73,745.67	16,628.06	130,271.22	648,722.15
Nutrient balance	-11,736.78	-6,319.21	-66,128.38	37,905.75
Applied to removed ratio	0.84	0.62	0.49	1.06

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

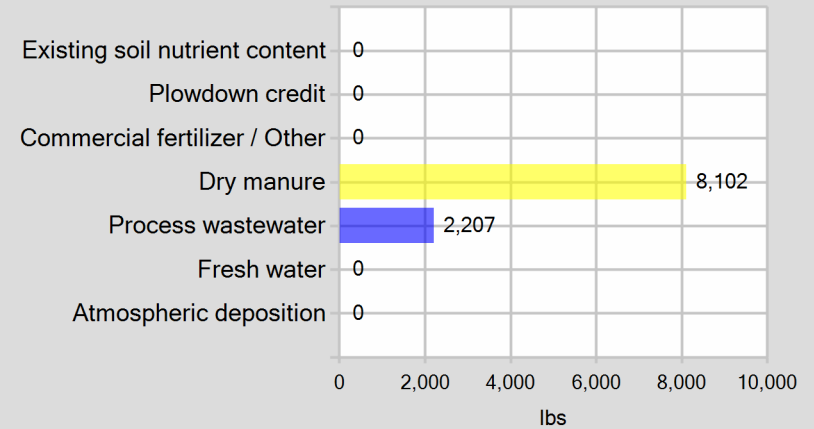


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

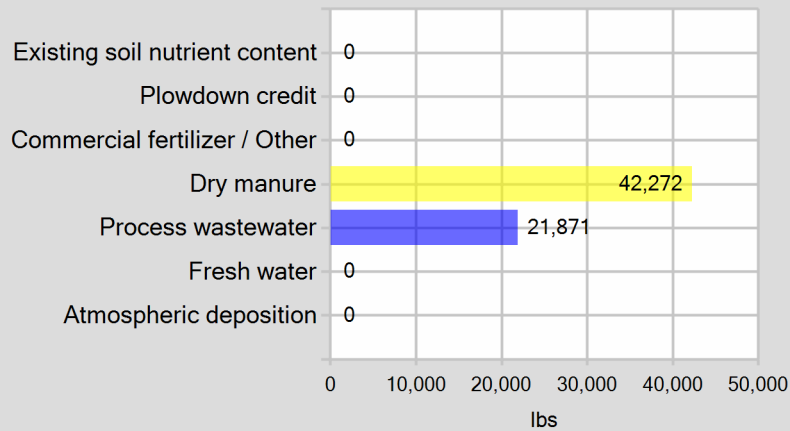
Pounds of nitrogen applied



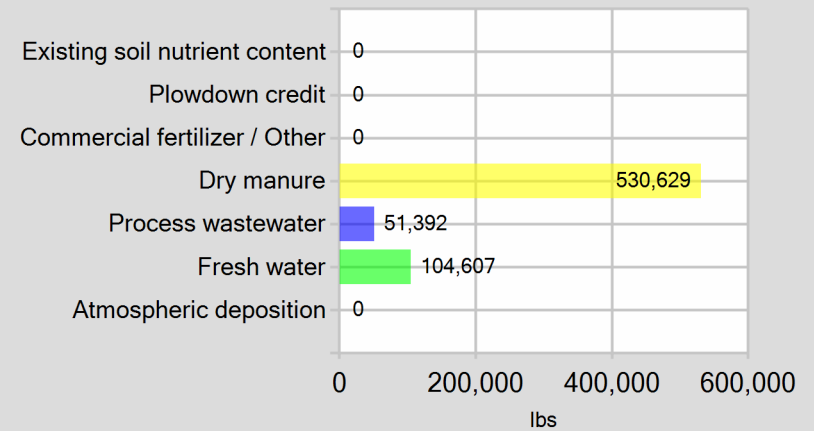
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

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

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

ADDITIONAL NOTES

A. NOTES

McRee East Dairy:

No Milk cows or support stock present at facility during the 2023 year.

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.

Michael McRee

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Michael McRee	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
Jul 1, 2024	
DATE	DATE

Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

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

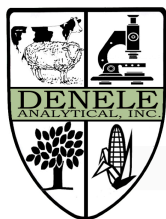
Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

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.

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/23/23 2:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/25/23

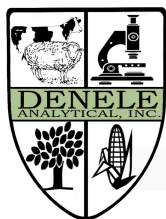
Irrigation/ Ground Water (H1)
SOURCE: Canal Water

NOTES: Temperature was above qualifying at 24.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
C.W.D. Canal	T3235036D	Electrical Conductivity (EC)	EPA 120.1 and	< 0.100	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	12.9	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	101	95.1 (T3235024B)	95.9 (T3235024B)	0.815
Electrical Conductivity (EC)	97.1			4.81
Nitrate Nitrogen (NO3-N)	104			7.24

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

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Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/23/23 2:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/25/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 25.6c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-1W	T3235036E	Electrical Conductivity (EC)	EPA 120.1 and	0.334	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	3.25	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	214	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	101	95.1 (T3235024B)	95.9 (T3235024B)	0.815
Electrical Conductivity (EC)	97.1			4.81
Nitrate Nitrogen (NO3-N)	104			7.24

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DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380

PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Client: McREE TRIANGLE M DAIRY
Mailing address: 11812 Avenue 18, Chowchila CA 93610

(not facility address)

Phone#: 559-871-8000

Sampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*

H6 EC, TN, TDS

H7 Combination of H1 & H6

H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb

Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS

H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS

H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,
BOD 5, TSS, Total & Fecal Coliforms

E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,
Total & Fecal Coliforms

E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms

E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash

M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received

F18+ % Moisture, Ash, TN, P, K, DM and as received

(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)

K6 0-1ft EC, NO3, Soluble P, K, Organic Matter

K7 Combination of K3 & K4

K8 Combination of K3 & K5

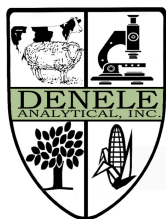
H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-23-23	1135	POND - D-3		26.4C		X			
2										
3	8-23-23	1145	POND - A-3		26.2C		X			
4										
5	8-23-23	1155	LG - 1 - 3		26.2C		X			
6										
7	8-23-23	1205	C.W.D. CANAL		24.6C		X			
8										
9	8-23-23	1215	DW - 1W		25.6C		X			
10										

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		8-23-23 1430	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	8-23-23 2:30			T3235036

Required to be submitted to any agency? (YES / NO)



Denele Analytical, Inc.

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Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower

Consultant:

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 18.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-23 House	T3241015F	Electrical Conductivity (EC)	EPA 120.1 and	1.21	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	27.2	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	774	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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**DENELE ANALYTICAL, INC.**

865 S. KILROY

TURLOCK, CA 95380

PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Client: McREE TRIANGLE M DAIRYMailing address: 11812 Avenue 18, Chowchilla CA 93610

(not facility address)

Phone#: 559-871-8000Sampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:**IRRIGATION/GROUND WATER**

H1 EC*, NO3-N, NH4-N*

H6 EC, TN, TDS

H7 Combination of H1 & H6

H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
Carb, SO4, Cl, TDS**PROCESS WASTE WATER**

H3 EC*, NH4-N, TKN, TP, K, TDS

H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS

H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATERE1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,
BOD 5, TSS, Total & Fecal ColiformsE2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,
Total & Fecal Coliforms

E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms

E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash

M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received

F18+ % Moisture, Ash, TN, P, K, DM and as received

(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)

K6 0-1ft EC, NO3, Soluble P, K, Organic Matter

K7 Combination of K3 & K4

K8 Combination of K3 & K5

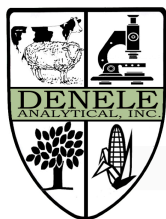
H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-29-23	0915	DW-33N		18.0'		X			
2	↓	0920	DW-32		17.6'		X			
3	↓	0950	H-16		18.4'		X			
4	8-29-23	1000	H-14		18.4'		X			
5	↓	↓	PP-m5 Barn		18.2'		X			
6	↓	↓	PP-23 Hoose		18.2'		X			
7										
8										
9										
10										

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		8-29-23 1330	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	8-29-23 1:30			T3241015

Required to be submitted to any agency? (YES / NO)

**Denele Analytical, Inc.**

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www.denelelabs.com

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Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 8/29/23 1:30 PM
SUBMITTED BY: Dan
ANALYZED DATE: 8/30/23

Irrigation/ Ground Water (H1)
SOURCE: Irrigation Water

NOTES: Temperature was above qualifying at 19.0c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
PP-ME Barn	T3241014D	Electrical Conductivity (EC)	EPA 120.1 and	0.269	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.09	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	172	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	98.4	94.0 (T3241014A)	92.2 (T3241014A)	1.93
Electrical Conductivity (EC)	99.6			0.636
Nitrate Nitrogen (NO3-N)	99.1	102 (T3240032B)	89.6 (T3240032B)	12.6

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DENELE ANALYTICAL, INC.
865 S. KILROY
TURLOCK, CA 95380
PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCE

Authorized Copy Released To:

hlcdan@yahoo.com

Client: McREE TRIANGLE M DAIRY

Mailing address: 11812 Avenue 18, Chowchila CA 93610

(not facility address)

Phone#: 559-871-8000

Sampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:

IRRIGATION/GROUND WATER

H1 EC*, NO3-N, NH4-N*
H6 EC, TN, TDS
H7 Combination of H1 & H6
H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb
Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS
H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS
H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl
H8 Combination of H3 & H5
H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,
BOD 5, TSS, Total & Fecal Coliforms
E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,
Total & Fecal Coliforms
E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms
E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture
M3 TN TP, K, % Moisture
M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash
M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received
F18+ % Moisture, Ash, TN, P, K, DM and as received
(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus
K4 1ft NO3, Organic Matter
K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)
K6 0-1ft EC, NO3, Soluble P, K, Organic Matter
K7 Combination of K3 & K4
K8 Combination of K3 & K5

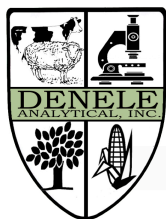
H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	8-29-23	0750	PP-8		19.2		H1			
2		0800	PP-5		19.2		X			
3		0820	DW-23E	DOMESTIC USE	18.8		X			
4		0825	PP-MG BARN		19.0		X			
5		0835	PP-27		18.8		X			
6		0845	DW-38N		19.0		X			
7		0850	PP-38		19.6		X			
8		0855	DW-36		19.0		X			
9		0900	DW-35N		18.8		X			
10	8-29-23	0910	DW-33S		19.4		X			

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		8-29-23 1330	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	8-29-23 1:30			T3241014

Required to be submitted to any agency? (YES / NO)

**Denele Analytical, Inc.**

865 South Kilroy Avenue Turlock, CA 95380
Phone (209) 634-9055 - Fax (209) 634-9057
www.denelelabs.com

40 N. East Street, Woodland, CA 95776
Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

McRee Tri-M
11812 Avenue 18
Chowchilla, CA 93610

Grower**Consultant:**

Heartland Consulting
P.O. Box 3679
Merced, CA 95344

PURCHASE ORDER:

RECEIVED DATE: 11/30/23 2:05 PM
SUBMITTED BY: Dan
ANALYZED DATE: 12/5/23

Irrigation/ Ground Water (H1)
SOURCE: Well Water

NOTES: Temperature was above qualifying at 20.2c

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
DW-IW	T3334013B	Electrical Conductivity (EC)	EPA 120.1 and	0.284	mmhos/cm
		Nitrate Nitrogen (NO3-N)	EPA 353.2	2.02	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Soluble Salts (SALT-SOL)	Calculation	182	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
Ammonia Nitrogen (NH3-N)	95.6			
Electrical Conductivity (EC)	97.0			0.106
Nitrate Nitrogen (NO3-N)	95.0	101 (T3334011D)	100 (T3334011D)	0.756

The warranty of Denele Analytical is limited to the accuracy of the analyses of the samples as received. Denele Analytical assumes no responsibility for which the customer uses our test results, nor liability for any other warranties, express or implied. These terms and conditions shall supercede any conflicting terms and conditions submitted on customer purchase orders or other forms submitted for work.

**DENELE ANALYTICAL, INC.**

865 S. KILROY

TURLOCK, CA 95380

PH# 209-634-9055 FAX# 209-634-9057

DAIRY COMPLIANCEClient: McREE TRIANGLE M DAIRYMailing address: 11812 Avenue 18, Chowchilla CA 93610

(not facility address)

Phone#: 559-871-8000

Authorized Copy Released To:

hlcdan@yahoo.comSampled By: Daniel Roos

Project ID: _____

ANALYSIS TO BE COMPLETED:**IRRIGATION/GROUND WATER**

H1 EC*, NO3-N, NH4-N*

H6 EC, TN, TDS

H7 Combination of H1 & H6

H14 EC, NO3-N, NH4-N, Ca, Mg, Na, Bicarb

Carb, SO4, Cl, TDS

PROCESS WASTE WATER

H3 EC*, NH4-N, TKN, TP, K, TDS

H4 EC*, NO3-N, NH4-N, TKN, TP, K, TDS

H5 Ca, Mg, Na, Bicarb, Carb, SO4, Cl

H8 Combination of H3 & H5

H9 Combination of H4 & H5

TILE DRAIN

H2 EC*, NO3-N, TP, NH4-N*, TDS

* Required Field Measurement

____ (Check here if performed)

DISCHARGE WATER

E1 EC*, Temp*, pH*, NO3-N, NH4-N, TKN, TP, K, TDS, Dissolved Oxygen*,

BOD 5, TSS, Total & Fecal Coliforms

E2 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Dissolved Oxygen*,

Total & Fecal Coliforms

E3 EC*, Temp*, pH*, NO3-N, NH4-N*, TP, Total & Fecal Coliforms

E4 EC*, Temp*, pH*, NO3-N, NH4-N*, Turbidity, TP, Total & Fecal Coliform

MANURE

M1 % Moisture

M3 TN TP, K, % Moisture

M4 Ca, Mg, Na, Bicarb, Carb, SO4, Cl, Ash

M7 Combination of M3 & M4

PLANT TISSUE

F18 % Moisture, Ash, TN, P, K, DM and as received

F18+ % Moisture, Ash, TN, P, K, DM and as received

(Package also includes NIR DCAD)

F19+ % Moisture, TN (Package includes complete plant tissue analysis)

SOIL

K3 Soluble Phosphorus

K4 1ft NO3, Organic Matter

K5 Pre-Plant (2ft NO3), Fall (1-2ft NO3), Fall (2-3ft NO3)

K6 0-1ft EC, NO3, Soluble P, K, Organic Matter

K7 Combination of K3 & K4

K8 Combination of K3 & K5

H1	H3	M3	F18	OTHER

	Date Collected	Time Collected	Sample ID	Description	Temp	Well Purge	Analysis			
1	11-30-23	1130	DW-25		20.0c		X			
2	11-30-23	1150	DW-1W		20.2		X			
3										
4										
5										
6										
7										
8										
9										
10										

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time	(LABORATORY USE ONLY)	
1st		HeartLand Consulting		11-30-23 1405	Logged In By:	LABORATORY NUMBER
2nd		DENELE ANALYTICAL, INC.	11-30-23 2:05			3334013

Required to be submitted to any agency? (YES / NO)






2023 AR McREE EAST DAIRY

Final Audit Report

2024-07-02

Created:	2024-06-29
By:	Daniel Roos (hlcdan@yahoo.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAeJgpH603vgCAmPcl1C-52NdBUZ-wFGOU

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