

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:** White River Dairy

Physical address of dairy:

20400 Ave. 17 1/2 AVE

Number and Street

Madera

City

Madera

County

93637

Zip Code

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

Date facility was originally placed in operation: 10/01/1960Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0028-0140-0010-0000

B. OPERATORS

Hooker, Mark

Operator name: Hooker, MarkTelephone no.: (209) 259-9368

Landline

Cellular

605 Almond CT

Chowchilla

Mailing Address Number and Street

City

CA

93610

State

Zip Code

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

Machado, Corinne

Legal owner name: Machado, CorinneTelephone no.: (559) 674-5580 (559) 363-5581

Landline

Cellular

3754 W Birch RD

Fresno

Mailing Address Number and Street

City

CA

93711

State

Zip Code

Machado, Manuel

Legal owner name: Machado, ManuelTelephone no.: (559) 674-5580 (559) 363-5581

Landline

Cellular

3754 W Birch RD

Fresno

Mailing Address Number and Street

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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	195	144	570	430	0
Number under roof	1,550	0	0	0	0	0
Maximum number	1,550	195	150	575	440	0
Average number	1,550	195	144	570	430	0
Avg live weight (lbs)	1,400	1,500	1,000	775		

Predominant milk cow breed: Holstein

Average milk production: 74 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 51,913.67 tons per reporting period

Total nitrogen from manure: 654,671.91 lbs per reporting period

After ammonia losses (30% loss applied): 458,270.34 lbs per reporting period

Total phosphorus from manure: 107,473.14 lbs per reporting period

Total potassium from manure: 300,912.70 lbs per reporting period

Total salt from manure: 774,657.75 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 21,420,000 gallons

Total nitrogen generated: 110,648.48 lbs

Total phosphorus generated: 28,620.69 lbs

Total potassium generated: 146,594.19 lbs

Total salt generated: 667,516.09 lbs

<u>21,420,000 gallons applied</u>
+ <u>0 gallons exported</u>
- <u>0 gallons imported</u>
<u>= 21,420,000 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
#4 Dairy Barn Well- WRD Dairy	Ground water
#5 Dairy Home	Ground water
#6 Parks Well-WRD Dairy E	Ground water
#7 Jenzens-WRD Calf Ranch	Ground water
#8 Jenzens Deep	Ground water

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Source Description	Type
Canal	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES*No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	Separator solids	1,081.59 ton	Dry-weight	32.6		24,300.00	16,700.00	41,900.00		0.00
11/20/2023	Separator solids	2,864.65 ton	Dry-weight	32.3		25,300.00	19,500.00	43,100.00		0.00
12/09/2023	Separator solids	583.28 ton	As-is	32.6		24,300.00	16,700.00	41,900.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	161,908.43	119,465.23	277,141.89	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	161,908.43	119,465.23	277,141.89	0.00

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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
1	58	58	2	process wastewater	X280-X140-X011-XXXX
2	25	25	2	process wastewater	X280-X140-X011-XXXX
3	20	20	2	process wastewater	X280-X140-0012-XXXX
4	43	43	2	process wastewater	X280-X140-0012-XXXX
5	63	63	2	process wastewater	X280-X140-0012-XXXX
Totals for areas that were used for application	209	209	10		
Totals for areas that were not used for application					
Land application area totals	209	209	10		

B. CROPS AND HARVESTS

1

Field name: 1

11/01/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 55 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/10/2023	900.00 ton	As-is		64.7	7,700.00	2,000.00	13,600.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	120.00	20.40	90.00	0.00
Total actual harvest content	16.36	252.00	65.45	445.09	1,328.56

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1

05/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	1,157.00 ton	As-is		66.4	4,900.00	1,100.00	6,500.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	21.04	206.16	46.28	273.47	961.28

2

Field name: 2

11/07/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 23 Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/17/2023	350.00 ton	As-is		52.3	8,500.00	2,100.00	15,100.00		9.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	120.00	20.40	90.00	0.00
Total actual harvest content	15.22	258.70	63.91	459.57	1,364.63

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 23 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	400.00 ton	As-is		66.4	4,900.00	1,100.00	6,500.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	17.39	170.43	38.26	226.09	794.71

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3

Field name: 3

11/07/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 18 Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/17/2023	300.00 ton	As-is		68.0	9,700.00	1,600.00	12,500.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	120.00	20.40	90.00	0.00
Total actual harvest content	16.67	323.33	53.33	416.67	1,088.00

05/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 05/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	330.00 ton	As-is		62.5	5,600.00	1,000.00	6,600.00		6.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	18.33	205.33	36.67	242.00	935.00

4

Field name: 4

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 38 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/24/2023	500.00 ton	As-is		68.0	9,700.00	1,600.00	12,500.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	120.00	20.40	90.00	0.00
Total actual harvest content	13.16	255.26	42.11	328.95	858.95

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4

05/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 05/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	800.00 <i>ton</i>	As-is		66.1	5,000.00	1,100.00	5,700.00		6.00
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		21.05 210.53 46.32 240.00				856.42			

5

Field name: 5

11/21/2022: Triticale, soft dough

Crop: Triticale, 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 (%)
04/28/2023	800.00 <i>ton</i>	As-is		77.8	7,100.00	1,100.00	8,500.00		12.50
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		12.00 120.00 20.40 90.00				0.00			
Total actual harvest content		14.29 202.86 31.43 242.86				792.86			

07/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 56 Plant date: 07/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/22/2023	1,095.00 <i>ton</i>	As-is		66.1	5,000.00	1,100.00	5,700.00		6.00
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		19.55 195.54 43.02 222.91				795.44			

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/01/2022: Triticale, soft dough

Field name: 1

Crop: Triticale, soft dough Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/06/2022	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	104.91	70.20	137.88	775.41	1,512,000.00 gal
Application event totals		104.91	70.20	137.88	775.41	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	137.31	38.51	169.91	578.95	829,500.00 gal
Application event totals		137.31	38.51	169.91	578.95	
03/06/2023	Surface (irrigation)	No precipitation	Light rain	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	104.29	29.25	129.04	439.71	630,000.00 gal
Application event totals		104.29	29.25	129.04	439.71	

1 - 05/26/2023: Corn, silage

Field name: 1

Crop: Corn, silage Plant date: 05/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	29.36	9,676,800.00 gal
Application event totals		0.00	0.00	0.00	29.36	

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1 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	25.84	8,515,584.00 gal
Application event totals		0.00	0.00	0.00	25.84	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	251.59	47.67	368.08	1,820.00	3,360,000.00 gal
Canal	Surface water	0.00	0.00	0.00	18.79	6,193,152.00 gal
Application event totals		251.59	47.67	368.08	1,838.79	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.58	6,451,200.00 gal
Application event totals		0.00	0.00	0.00	19.58	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	27.41	9,031,680.00 gal
Application event totals		0.00	0.00	0.00	27.41	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	23.49	7,741,440.00 gal
Application event totals		0.00	0.00	0.00	23.49	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.62	5,806,080.00 gal
Application event totals		0.00	0.00	0.00	17.62	

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2 - 11/07/2022: Triticale, soft dough

Field name: 2

Crop: Triticale, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/10/2022	Surface (irrigation)	No precipitation	Steady rain		Light rain
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW Application	Process wastewater	104.53	22.54	137.38	772.60
Application event totals		104.53	22.54	137.38	772.60
02/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW Application	Process wastewater	133.00	37.30	164.58	560.78
Application event totals		133.00	37.30	164.58	560.78
03/10/2023	Surface (irrigation)	No precipitation	Steady rain	Steady rain	Steady rain
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW Application	Process wastewater	116.38	32.64	144.01	490.69
Application event totals		116.38	32.64	144.01	490.69

2 - 05/15/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 05/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	19.34
Application event totals		0.00	0.00	0.00	19.34

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2 - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	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
WW Application	Process wastewater	88.36	16.74	129.28	639.23	493,500.00 gal
Canal	Surface water	0.00	0.00	0.00	16.12	2,221,560.00 gal
Application event totals		88.36	16.74	129.28	655.35	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	142.74	27.07	209.04	1,033.64	798,000.00 gal
Canal	Surface water	0.00	0.00	0.00	25.79	3,554,496.00 gal
Application event totals		142.74	27.07	209.04	1,059.43	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.20	2,369,664.00 gal
Application event totals		0.00	0.00	0.00	17.20	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	21.49	2,962,080.00 gal
Application event totals		0.00	0.00	0.00	21.49	
07/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.20	2,369,664.00 gal
Application event totals		0.00	0.00	0.00	17.20	
08/19/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.34	2,664,872.00 gal
Application event totals		0.00	0.00	0.00	19.34	

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Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	16.12	2,221,560.00 gal
Application event totals		0.00	0.00	0.00	16.12	

3 - 11/07/2022: Triticale, soft dough

Field name: 3

Crop: Triticale, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/12/2022	Surface (irrigation)	Steady rain	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	124.66	26.88	163.83	921.40	588,000.00 gal
Application event totals		124.66	26.88	163.83	921.40	
02/20/2023	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
WW Application	Process wastewater	169.95	47.67	210.29	716.56	336,000.00 gal
Application event totals		169.95	47.67	210.29	716.56	
03/12/2023	Surface (irrigation)	Steady rain	No precipitation		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	148.71	41.71	184.01	626.99	294,000.00 gal
Application event totals		148.71	41.71	184.01	626.99	

3 - 05/18/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 05/18/2023

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3 - 05/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	32.96	3,554,496.00 gal
Application event totals		0.00	0.00	0.00	32.96	
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	74.47	14.11	108.95	538.73	325,500.00 gal
Canal	Surface water	0.00	0.00	0.00	20.60	2,221,560.00 gal
Application event totals		74.47	14.11	108.95	559.33	
07/06/2023	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
WW Application	Process wastewater	74.47	14.11	108.95	538.73	325,500.00 gal
Canal	Surface water	0.00	0.00	0.00	17.85	1,925,352.00 gal
Application event totals		74.47	14.11	108.95	556.58	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	24.72	2,665,872.00 gal
Application event totals		0.00	0.00	0.00	24.72	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	20.60	2,221,560.00 gal
Application event totals		0.00	0.00	0.00	20.60	

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3 - 05/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	80.14	17.28	105.32	592.33	378,000.00 gal
Canal	Surface water	0.00	0.00	0.00	19.23	2,073,456.00 gal
Application event totals		80.14	17.28	105.32	611.55	
08/21/2023	Surface (irrigation)	No precipitation	Light rain		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	53.43	11.52	70.21	394.89	252,000.00 gal
Canal	Surface water	0.00	0.00	0.00	16.48	1,777,248.00 gal
Application event totals		53.43	11.52	70.21	411.36	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	21.97	2,369,664.00 gal
Application event totals		0.00	0.00	0.00	21.97	

4 - 11/14/2022: Triticale, soft dough

Field name:	4	Plant date:	11/14/2022	
Crop:	Triticale, soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
WW Application	Process wastewater	84.36	18.19	110.87
Application event totals		84.36	18.19	110.87
				623.50 840,000.00 gal

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4 - 11/14/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/23/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	150.94	42.34	186.77	636.42	630,000.00 gal
Application event totals		150.94	42.34	186.77	636.42	
03/15/2023	Surface (irrigation)	No precipitation	Steady rain		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	120.75	33.87	149.42	509.13	504,000.00 gal
Application event totals		120.75	33.87	149.42	509.13	

4 - 05/11/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 05/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	23.42	5,331,744.00 gal
Application event totals		0.00	0.00	0.00	23.42	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	28.62	6,516,576.00 gal
Application event totals		0.00	0.00	0.00	28.62	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	23.42	5,331,744.00 gal
Application event totals		0.00	0.00	0.00	23.42	

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4 - 05/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	24.72	5,627,952.00 gal
Application event totals		0.00	0.00	0.00	24.72	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	210.89	45.47	277.16	1,558.76	2,100,000.00 gal
Canal	Surface water	0.00	0.00	0.00	26.02	5,924,160.00 gal
Application event totals		210.89	45.47	277.16	1,584.78	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		Light rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.21	4,146,912.00 gal
Application event totals		0.00	0.00	0.00	18.21	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	26.02	5,924,160.00 gal
Application event totals		0.00	0.00	0.00	26.02	

5 - 11/21/2022: Triticale, soft dough

Field name: 5

Crop: Triticale, soft dough

Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/20/2022	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
WW Application	Process wastewater	85.86	18.51	112.85	634.64	1,260,000.00 gal
Application event totals		85.86	18.51	112.85	634.64	

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5 - 11/21/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/27/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	109.25	30.64	135.19	460.64	672,000.00 gal
Application event totals		109.25	30.64	135.19	460.64	
03/18/2023	Surface (irrigation)	No precipitation	Light rain		Steady rain	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	81.94	22.98	101.39	345.48	504,000.00 gal
Application event totals		81.94	22.98	101.39	345.48	

5 - 07/04/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 07/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	111.19	21.07	162.68	804.37	1,512,000.00 gal
Canal	Surface water	0.00	0.00	0.00	30.90	10,367,280.00 gal
Application event totals		111.19	21.07	162.68	835.27	
07/20/2023	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
WW Application	Process wastewater	61.77	11.70	90.38	446.87	840,000.00 gal
Canal	Surface water	0.00	0.00	0.00	24.72	8,293,824.00 gal
Application event totals		61.77	11.70	90.38	471.59	

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5 - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	25.16	8,441,928.00 gal
Application event totals		0.00	0.00	0.00	25.16	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	24.72	8,293,824.00 gal
Application event totals		0.00	0.00	0.00	24.72	
08/22/2023	Surface (irrigation)	Light rain	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW Application	Process wastewater	80.14	17.28	105.32	592.33	1,176,000.00 gal
Canal	Surface water	0.00	0.00	0.00	30.46	10,219,176.00 gal
Application event totals		80.14	17.28	105.32	622.78	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	26.48	8,886,240.00 gal
Application event totals		0.00	0.00	0.00	26.48	

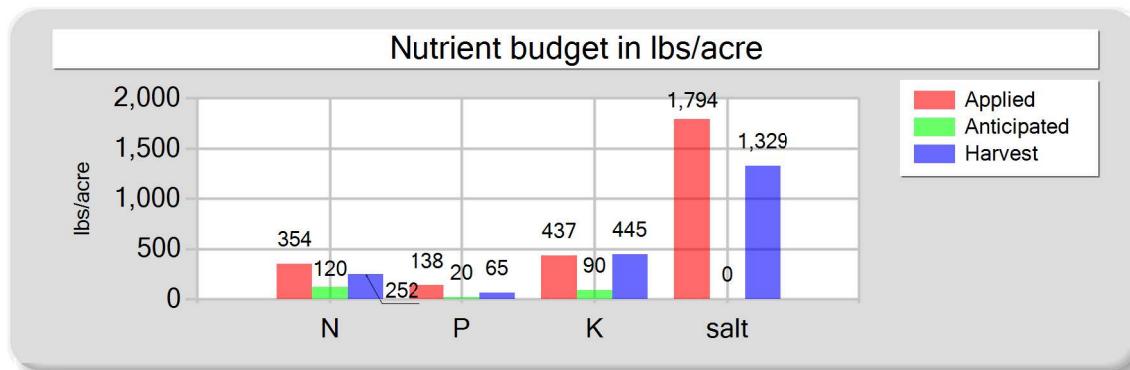
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B. NUTRIENT BUDGET

1 - 11/01/2022: Triticale, soft dough

Field name: 1 Crop: Triticale, soft dough Plant date: 11/01/2022



	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	0.00	0.00	0.00	0.00
Process wastewater	346.51	137.96	436.83	1,794.06
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	353.51	137.96	436.83	1,794.06
Anticipated crop nutrient removal	120.00	20.40	90.00	0.00
Actual crop nutrient removal	252.00	65.45	445.09	1,328.56
Nutrient balance	101.51	72.51	-8.26	465.50
Applied to removed ratio	1.40	2.11	0.98	1.35

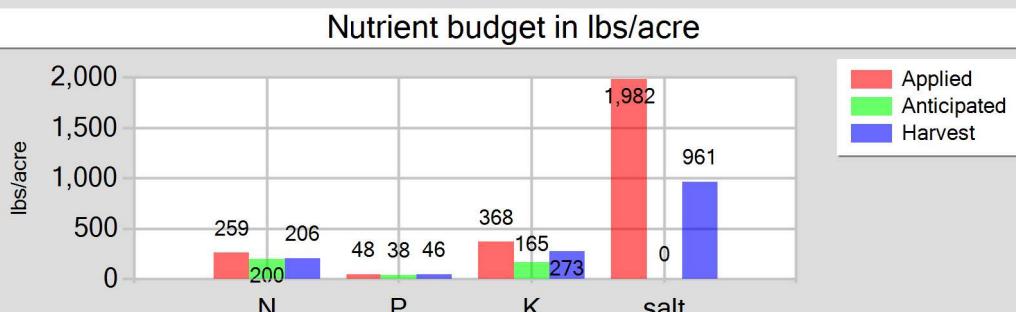
Fresh water applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Process wastewater applied
2,971,500.00 gallons
109.43 acre-inches
1.99 inches/acre
Total harvests for the crop
1 harvests

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1 - 05/26/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 05/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	251.59	47.67	368.08	1,820.00
Fresh water	0.00	0.00	0.00	162.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	258.59	47.67	368.08	1,982.09
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	206.16	46.28	273.47	961.28
Nutrient balance	52.43	1.39	94.61	1,020.81
Applied to removed ratio	1.25	1.03	1.35	2.06

Fresh water applied
53,415,936.00 gallons
1,967.13 acre-inches
35.77 inches/acre

Process wastewater applied
3,360,000.00 gallons
123.74 acre-inches
2.25 inches/acre

Total harvests for the crop
1 harvests

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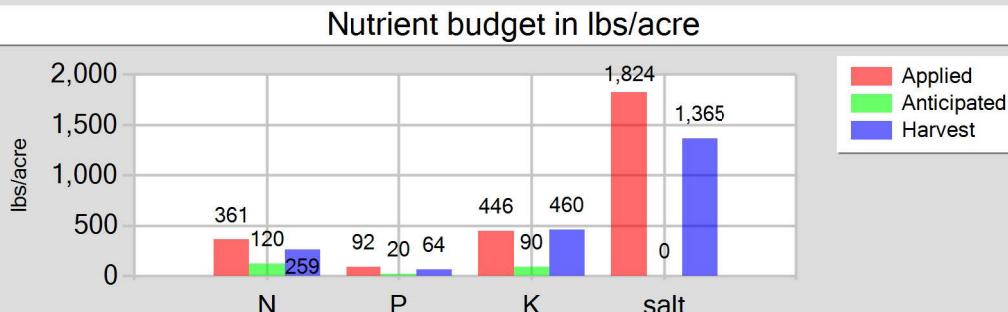
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2 - 11/07/2022: Triticale, soft dough

Field name: 2

Crop: Triticale, soft dough

Plant date: 11/07/2022



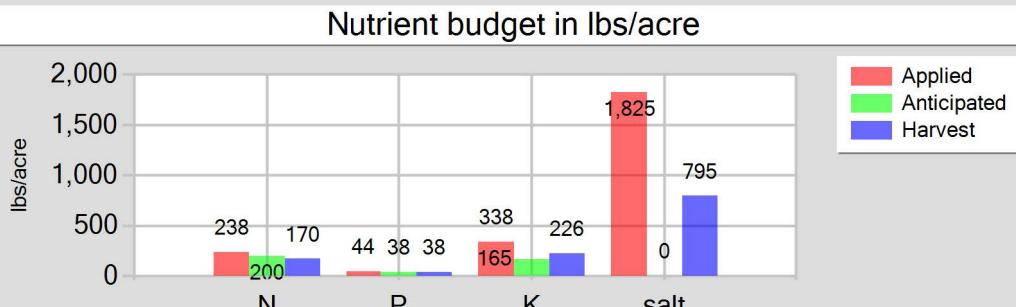
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	353.91	92.48	445.96	1,824.07	Process wastewater applied 1,260,000.00 gallons 46.40 acre-inches 2.02 inches/acre
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	360.91	92.48	445.96	1,824.07	
Anticipated crop nutrient removal	120.00	20.40	90.00	0.00	
Actual crop nutrient removal	258.70	63.91	459.57	1,364.63	
Nutrient balance	102.22	28.57	-13.60	459.44	
Applied to removed ratio	1.40	1.45	0.97	1.34	Total harvests for the crop 1 harvests

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2 - 05/15/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	231.10	43.81	338.32	1,672.87
Fresh water	0.00	0.00	0.00	152.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	238.10	43.81	338.32	1,825.47
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	170.43	38.26	226.09	794.71
Nutrient balance	67.67	5.55	112.23	1,030.76
Applied to removed ratio	1.40	1.15	1.50	2.30

Fresh water applied

21,029,768.00 gallons
774.45 acre-inches
33.67 inches/acre

Process wastewater applied

1,291,500.00 gallons
47.56 acre-inches
2.07 inches/acre

Total harvests for the crop

1 harvests

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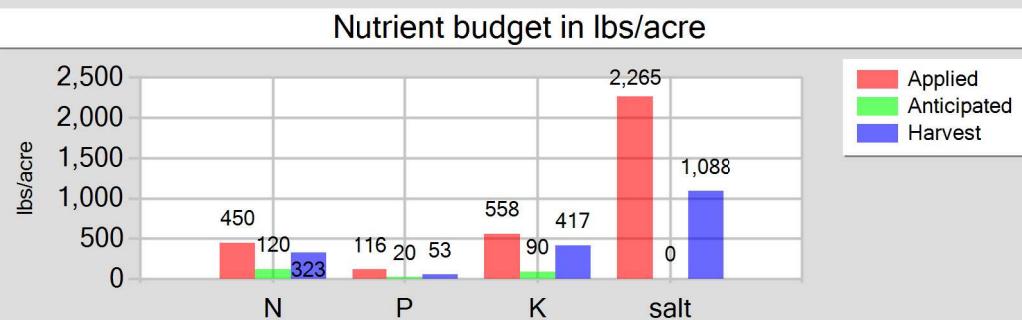
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3 - 11/07/2022: Triticale, soft dough

Field name: 3

Crop: Triticale, soft dough

Plant date: 11/07/2022



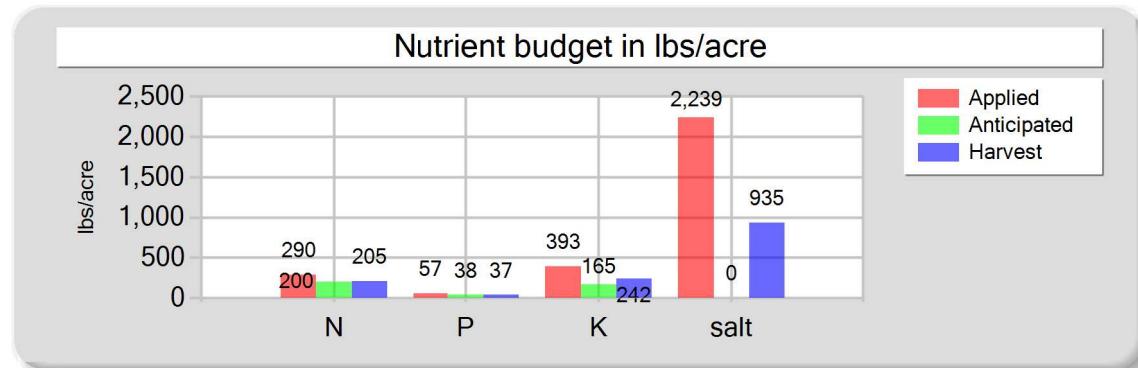
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	443.32	116.25	558.14	2,264.94	Process wastewater applied 1,218,000.00 gallons 44.85 acre-inches 2.49 inches/acre
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	450.32	116.25	558.14	2,264.94	
Anticipated crop nutrient removal	120.00	20.40	90.00	0.00	
Actual crop nutrient removal	323.33	53.33	416.67	1,088.00	
Nutrient balance	126.98	62.92	141.47	1,176.94	
Applied to removed ratio	1.39	2.18	1.34	2.08	Total harvests for the crop 1 harvests

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3 - 05/18/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 05/18/2023



	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	18,809,208.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	692.68 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.48 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	282.51	57.02	393.44	2,064.68	Process wastewater applied
Fresh water	0.00	0.00	0.00	174.40	1,281,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	47.17 acre-inches
Total nutrients applied	289.51	57.02	393.44	2,239.08	2.62 inches/acre
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00	
Actual crop nutrient removal	205.33	36.67	242.00	935.00	Total harvests for the crop
Nutrient balance	84.18	20.35	151.44	1,304.08	1 harvests
Applied to removed ratio	1.41	1.56	1.63	2.39	

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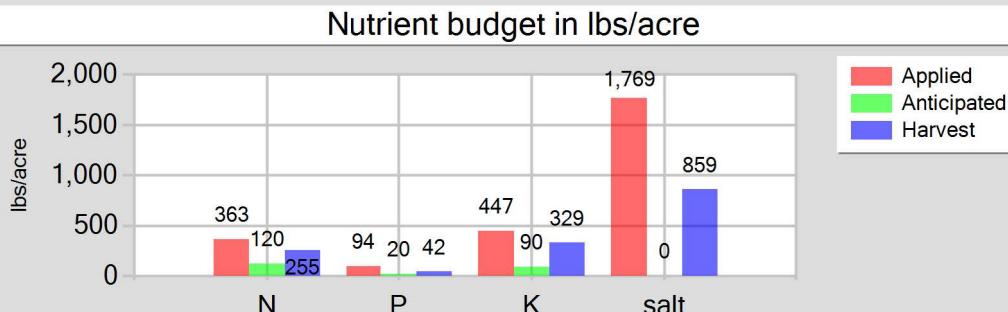
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/14/2022: Triticale, soft dough

Field name: 4

Crop: Triticale, soft dough

Plant date: 11/14/2022



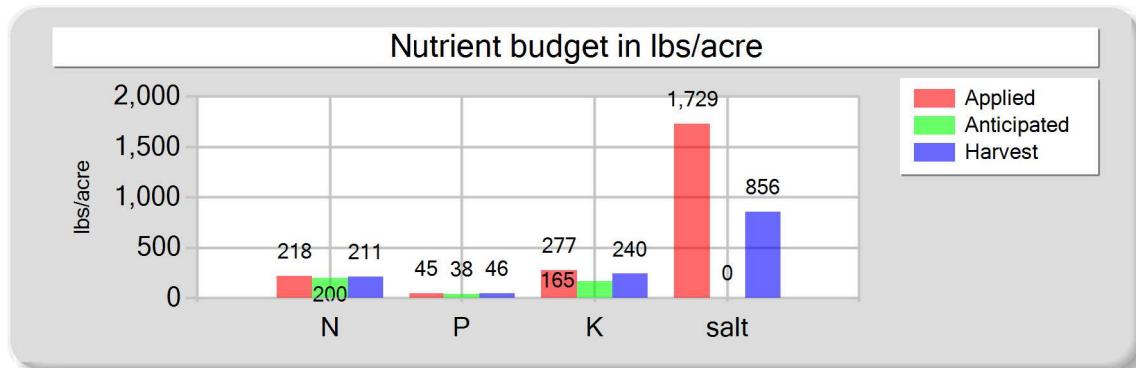
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	356.05	94.39	447.06	1,769.05	Process wastewater applied 1,974,000.00 gallons 72.70 acre-inches 1.91 inches/acre
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	363.05	94.39	447.06	1,769.05	
Anticipated crop nutrient removal	120.00	20.40	90.00	0.00	
Actual crop nutrient removal	255.26	42.11	328.95	858.95	
Nutrient balance	107.79	52.29	118.11	910.10	
Applied to removed ratio	1.42	2.24	1.36	2.06	Total harvests for the crop 1 harvests

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

4 - 05/11/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 05/11/2023



	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	38,803,248.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,428.99 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.61 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	210.89	45.47	277.16	1,558.76	Process wastewater applied
Fresh water	0.00	0.00	0.00	170.43	2,100,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	77.34 acre-inches
Total nutrients applied	217.89	45.47	277.16	1,729.19	2.04 inches/acre
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00	
Actual crop nutrient removal	210.53	46.32	240.00	856.42	Total harvests for the crop
Nutrient balance	7.37	-0.84	37.16	872.77	1 harvests
Applied to removed ratio	1.03	0.98	1.15	2.02	

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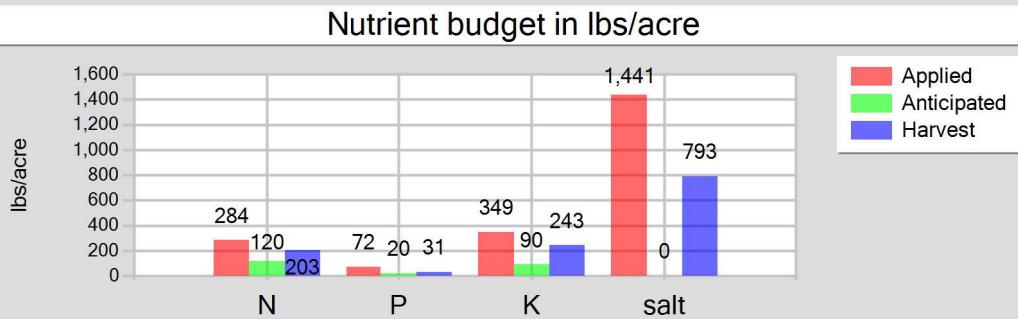
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/21/2022: Triticale, soft dough

Field name: 5

Crop: Triticale, 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	0.00	0.00	0.00	0.00
Process wastewater	277.06	72.14	349.43	1,440.76
Fresh water	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.06	72.14	349.43	1,440.76
Anticipated crop nutrient removal	120.00	20.40	90.00	0.00
Actual crop nutrient removal	202.86	31.43	242.86	792.86
Nutrient balance	81.20	40.71	106.57	647.91
Applied to removed ratio	1.40	2.30	1.44	1.82

Fresh water applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Process wastewater applied
2,436,000.00 gallons
89.71 acre-inches
1.60 inches/acre

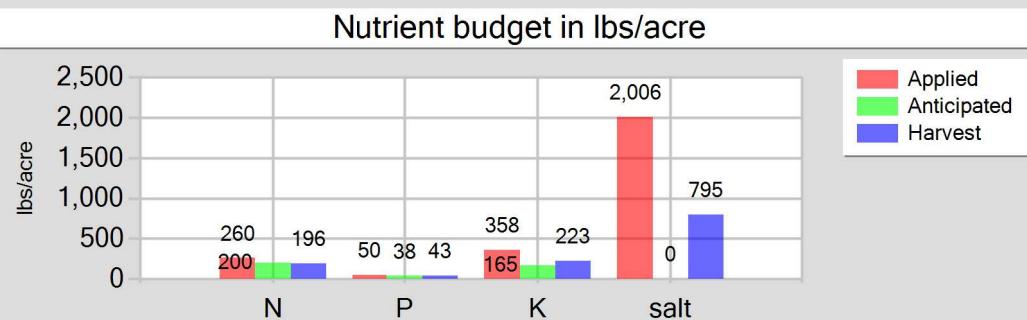
Total harvests for the crop
1 harvests

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

5 - 07/04/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 07/04/2023



	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	54,502,272.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,007.13 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	35.84 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	253.11	50.05	358.38	1,843.58	Process wastewater applied
Fresh water	0.00	0.00	0.00	162.44	3,528,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	129.92 acre-inches
Total nutrients applied	260.11	50.05	358.38	2,006.01	2.32 inches/acre
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00	
Actual crop nutrient removal	195.54	43.02	222.91	795.44	Total harvests for the crop
Nutrient balance	64.57	7.03	135.47	1,210.57	1 harvests
Applied to removed ratio	1.33	1.16	1.61	2.52	

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****COMPOST**Sample and source description: COMPOSTSample date: 08/28/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 32.3 %

	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	25,300.00	19,500.00	43,100.00	19,400.00	8,100.00	5,100.00	5,700.00	10,100.00		
DL	200.00	100.00	300.00	200.00	200.00	300.00	100.00	300.00		

Dairy ManureSample and source description: Dairy ManureSample date: 08/28/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 39.8 %

	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	23,300.00	16,300.00	31,900.00	14,900.00	6,700.00	4,200.00	3,800.00	5,900.00		
DL	200.00	100.00	300.00	200.00	200.00	300.00	100.00	300.00		

GVS 1 Dairy CompostSample and source description: GVS 1 Dairy CompostSample date: 10/01/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 32.6 %

	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	24,300.00	16,700.00	41,900.00	29,400.00	9,700.00	4,300.00	6,000.00	9,700.00		
DL	200.00	100.00	300.00	200.00	200.00	300.00	100.00	300.00		

B. PROCESS WASTEWATER ANALYSES

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

White River Dairy

Sample and source description: White River Dairy

Sample date: 05/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	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	1,090.00	426.00		1.00	306.00	1,350.00								11,700.00	4,600
DL	1.00	0.50		0.10	0.10	0.50								10.00	10

WRD

Sample and source description: WRD

Sample date: 06/29/2023 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	493.00	396.00		0.50	93.50	722.00								7,130.00	3,570
DL	1.00	0.50		0.10	0.10	0.50								10.00	10

WRD Lagoon

Sample and source description: WRD Lagoon

Sample date: 11/09/2023 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	457.00	373.00		0.30	98.60	601.00								6,730.00	3,380
DL	1.00	0.50		0.10	0.10	0.50								10.00	10

C. FRESH WATER ANALYSES

#4 Dairy Barn Well- WRD Dairy

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

#4 Dairy Barn Well- WRD Dairy**WRD Dairy**Sample description: WRD DairySample date: 09/07/2023 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	7.04	0.00	7.00								338.00	240
DL	1.00	0.50	0.10								10.00	10

#6 Parks Well-WRD Dairy E**WRD Dairy East**Sample description: WRD Dairy EastSample date: 09/07/2023 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	10.00	0.00	10.00								394.00	280
DL	1.00	0.50	0.10								10.00	10

#7 Jenzens-WRD Calf Ranch**WRD Calf Ranch**Sample description: WRD Calf RanchSample date: 09/07/2023 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	5.50	0.00	5.50								404.00	125
DL	1.00	0.50	0.10								10.00	10

Canal

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

Canal**MID Canal**Sample description: MID CanalSample date: 08/15/2023 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								23.40	20
DL	1.00		0.10								10.00	10

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

1 - 11/01/2022: Triticale, soft dough

Field 1Sample and source description: Field 1Sample date: 05/04/2023 Source of analysis: Lab analysis Method of reporting: As-isMoisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,700.00	2,000.00	13,600.00		11.50
DL	100.00	200.00	100.00		0.01

1 - 05/26/2023: Corn, silage

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

1 - 05/26/2023: Corn, silage

Field 1 & 2

Sample and source description: Field 1 & 2

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,100.00	6,500.00		6.80
DL	100.00	100.00	100.00		0.01

2 - 11/07/2022: Triticale, soft dough

Field 2

Sample and source description: Field 2

Sample date: 05/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 52.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,500.00	2,100.00	15,100.00		9.40
DL	100.00	100.00	100.00		0.01

2 - 05/15/2023: Corn, silage

Field 1 & 2

Sample and source description: Field 1 & 2

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,900.00	1,100.00	6,500.00		6.80
DL	100.00	100.00	100.00		0.01

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

3 - 11/07/2022: Triticale, soft dough

Field 3 and 4

Sample and source description: Field 3 and 4

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,700.00	1,600.00	12,500.00		10.20
DL	100.00	100.00	100.00		0.01

3 - 05/18/2023: Corn, silage

Field 3

Sample and source description: Field 3

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,000.00	6,600.00		6.80
DL	100.00	100.00	100.00		0.01

4 - 11/14/2022: Triticale, soft dough

Field 3 and 4

Sample and source description: Field 3 and 4

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,700.00	1,600.00	12,500.00		10.20
DL	100.00	100.00	100.00		0.01

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

4 - 05/11/2023: Corn, silage

Field 4 & 5

Sample and source description: Field 4 & 5

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,100.00	5,700.00		6.00
DL	100.00	100.00	100.00		0.01

5 - 11/21/2022: Triticale, soft dough

Field 5

Sample and source description: Field 5

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 77.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,100.00	1,100.00	8,500.00		12.50
DL	100.00	100.00	100.00		0.01

5 - 07/04/2023: Corn, silage

Field 4 & 5

Sample and source description: Field 4 & 5

Sample date: 09/18/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,000.00	1,100.00	5,700.00		6.00
DL	100.00	100.00	100.00		0.01

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F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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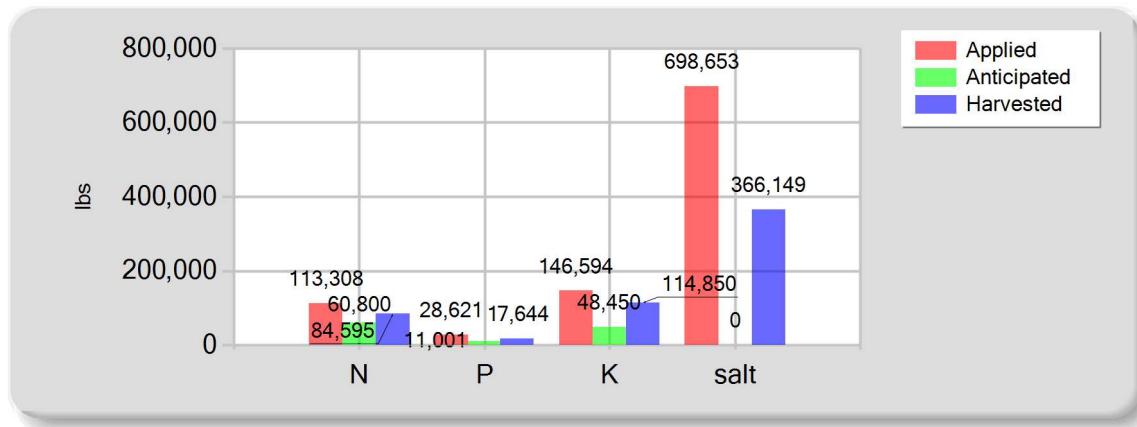
Reporting period 01/01/2023 to 12/31/2023.

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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	110,648.48	28,620.69	146,594.19	667,516.09
Fresh water	0.00	0.00	0.00	31,136.94
Atmospheric deposition	2,660.00	0.00	0.00	0.00
Total nutrients applied	113,308.48	28,620.69	146,594.19	698,653.03
Anticipated crop nutrient removal	60,800.00	11,001.00	48,450.00	0.00
Actual crop nutrient removal	84,594.60	17,644.40	114,850.00	366,148.87
Nutrient balance	28,713.88	10,976.29	31,744.19	332,504.16
Applied to removed ratio	1.34	1.62	1.28	1.91

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

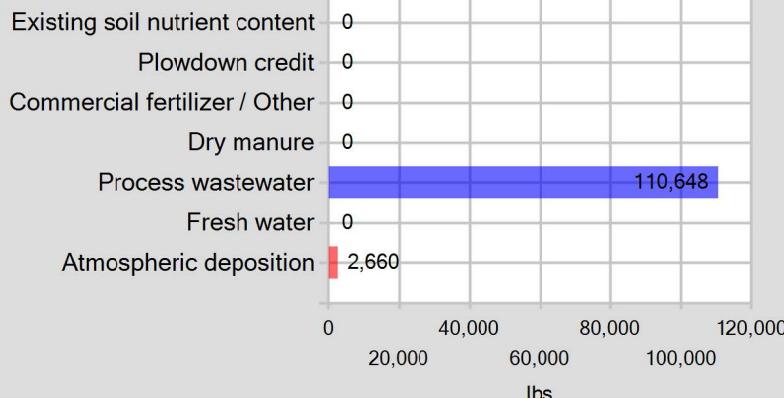


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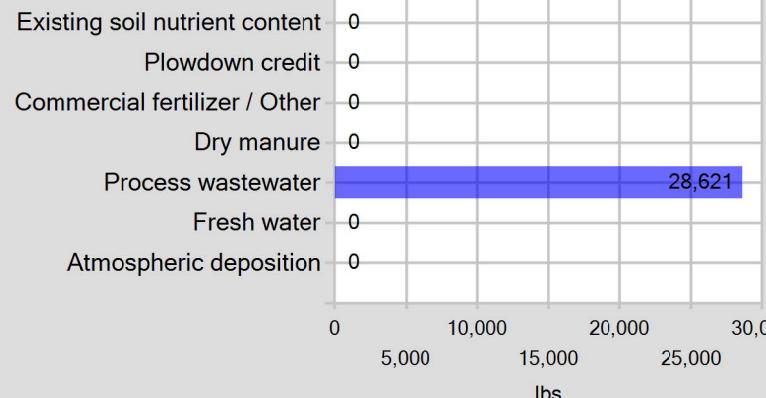
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

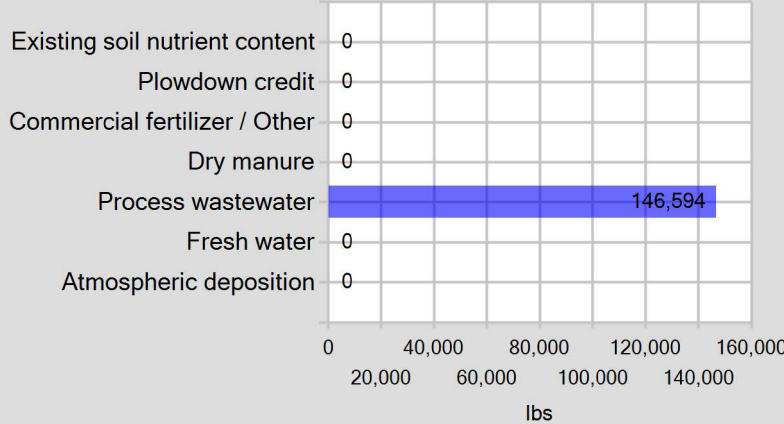
Pounds of nitrogen applied



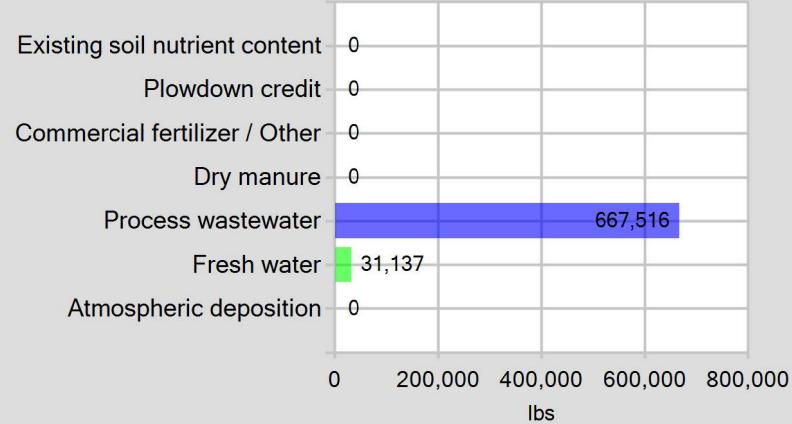
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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 _____

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

ADDITIONAL NOTES

A. NOTES

Wells 1-3 are no longer part of the dairy as the acreage they were on (Former Machado Farms Fields 1&2) were sold in 2023. Well #8 is currently non-operational until electric service can be reestablished with PGE for that location. The dairy house well was mistakenly missed in 2023 but will be sampled in 2024.

No well was available for freshwater irrigations during the 2023 winter forage season, however, a new irrigation well has been installed and will be included in the 2024 Annual Report.

With the current operator transitioning to the facility mid-2022 winter forage crop, 2023 marked their first full year managing the crop season. The operators are still in a learning curve and are working to continue to evaluate and improve their field and nutrient management in an effort to address ratios that are over 1.4.

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CERTIFICATION

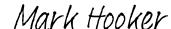
A. OWNER AND/OR OPERATOR CERTIFICATION

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.



Manuel Machado (Jun 22, 2024 07:59 PDT)

SIGNATURE OF OWNER OF FACILITY



Mark Hooker (Jun 23, 2024 16:21 PDT)

SIGNATURE OF OPERATOR OF FACILITY

Manuel Machado

PRINT OR TYPE NAME

06/22/2024

DATE

Mark Hooker

PRINT OR TYPE NAME

06/23/2024

DATE

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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.



Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I0493-01	WRD Dairy	Well Water	Greg Hooker		09/07/2023 8:15
23I0493-02	WRD Calf Ranch	Well Water	Greg Hooker		09/07/2023 8:00
23I0493-03	WRD Dairy East	Well Water	Greg Hooker		09/07/2023 8:30
23I0493-04	1	Well Water	Greg Hooker		09/07/2023 9:00
23I0493-05	12	Well Water	Greg Hooker		09/07/2023 9:00
23I0493-06	16	Well Water	Greg Hooker		09/07/2023 9:15
23I0493-07	52	Well Water	Greg Hooker		09/07/2023 9:15
23I0493-08	101	Well Water	Greg Hooker		09/07/2023 9:30
23I0493-09	103	Well Water	Greg Hooker		09/07/2023 9:30
23I0493-10	Dairy N	Well Water	Greg Hooker		09/07/2023 10:00
23I0493-11	Dairy S	Well Water	Greg Hooker		09/07/2023 10:00

samples not included in
this report as not part
of this dairy

Default Cooler Temperature on Receipt °C: 3.7
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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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Sample Results

Sample: WRD Dairy
23I0493-01 (Water)

Sampled: 9/7/2023 8:15

Sampled By: Greg Hooker

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.34	mmhos/cm	0.01	1		09/08/23 12:00	SM 2510 B		BEI0229
Electrical Conductivity umhos	338	umhos/cm	10.0	1		09/08/23 12:00	SM 2510 B		BEI0229
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 08:15	Field		BEI0182
Nitrate Nitrogen as NO3N	7.0	mg/L	0.1	1	10	09/07/23 19:01	EPA 300.0		BEI0162
pH	7.8	units	1.0	1		09/08/23 12:00	SM 4500-H+	H	BEI0229
Total Filterable Solids (TDS)	240	mg/L	10.0	1		09/15/23 09:07	SM 2540 C		BEI0386
Temperature	25.0	°C	0.0	1		09/08/23 12:00	SM 2510 B		BEI0229
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/11/23 10:20	SM 4500-NH3 C		BEI0222
Total Nitrogen	7.04	mg/L	1.00	1		09/11/23 10:20	SM 4500-NH3 C		BEI0222

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Sample Results
(Continued)

**Sample: WRD Calf Ranch
23I0493-02 (Water)**

Sampled: 9/7/2023 8:00

Sampled By: Greg Hooker

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.40	mmhos/cm	0.01	1		09/08/23 12:01	SM 2510 B		BEI0229
Electrical Conductivity umhos	404	umhos/cm	10.0	1		09/08/23 12:01	SM 2510 B		BEI0229
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 08:00	Field		BEI0182
Nitrate Nitrogen as NO3N	5.5	mg/L	0.1	1	10	09/07/23 19:21	EPA 300.0		BEI0162
pH	7.6	units	1.0	1		09/08/23 12:01	SM 4500-H+	H	BEI0229
Total Filterable Solids (TDS)	125	mg/L	10.0	1		09/15/23 09:07	SM 2540 C		BEI0386
Temperature	25.0	°C	0.0	1		09/08/23 12:01	SM 2510 B		BEI0229
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/11/23 10:22	SM 4500-NH3 C		BEI0222
Total Nitrogen	5.50	mg/L	1.00	1		09/11/23 10:22	SM 4500-NH3 C		BEI0222

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Sample Results

(Continued)

**Sample: WRD Dairy East
23I0493-03 (Water)**

Sampled: 9/7/2023 8:30

Sampled By: Greg Hooker

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.39	mmhos/cm	0.01	1		09/08/23 12:03	SM 2510 B		BEI0229
Electrical Conductivity umhos	394	umhos/cm	10.0	1		09/08/23 12:03	SM 2510 B		BEI0229
Ammonia (as N)	ND	mg/L	0.00	1		09/07/23 08:30	Field		BEI0182
Nitrate Nitrogen as NO3N	10.0	mg/L	0.1	1	10	09/07/23 19:40	EPA 300.0		BEI0162
pH	7.8	units	1.0	1		09/08/23 12:03	SM 4500-H+	H	BEI0229
Total Filterable Solids (TDS)	280	mg/L	10.0	1		09/15/23 09:07	SM 2540 C		BEI0386
Temperature	25.0	°C	0.0	1		09/08/23 12:03	SM 2510 B		BEI0229
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/11/23 10:24	SM 4500-NH3 C		BEI0222
Total Nitrogen	10.0	mg/L	1.00	1		09/11/23 10:24	SM 4500-NH3 C		BEI0222

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0162									
Blank (BEI0162-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/7/2023				
Blank (BEI0162-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 9/7/2023				
Blank (BEI0162-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 9/7/2023 Analyzed: 9/8/2023				
LCS (BEI0162-BS1)									
Nitrate Nitrogen as NO3N	5.6	0.1	mg/L	5.000	112	90-110			
LCS (BEI0162-BS2)									
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	106	90-110			
Duplicate (BEI0162-DUP1)									
Nitrate Nitrogen as NO3N	0.1	0.1	mg/L	0.1			1.56	10	
Duplicate (BEI0162-DUP2)									
Nitrate Nitrogen as NO3N	29.0	0.1	mg/L	29.3			0.765	10	
Matrix Spike (BEI0162-MS1)									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	0.1	98.7	90-110		
Matrix Spike (BEI0162-MS2)									
Nitrate Nitrogen as NO3N	34.3	0.1	mg/L	5.000	29.3	101	90-110		
Reference (BEI0162-SRM1)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.7	90-110		
Reference (BEI0162-SRM2)									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Reference (BEI0162-SRM3)									
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		

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9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0222									
Blank (BEI0222-BLK1)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
Blank (BEI0222-BLK2)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
Blank (BEI0222-BLK3)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L									
Total Nitrogen									
ND 1.00 mg/L									
LCS (BEI0222-BS1)									
Kjeldahl Nitrogen (TKN), Total									
5.90 1.00 mg/L 5.709 103 90-110									
LCS (BEI0222-BS2)									
Kjeldahl Nitrogen (TKN), Total									
5.31 1.00 mg/L 5.709 93.0 90-110									
Duplicate (BEI0222-DUP1)									
Source: 23I0493-05									
Kjeldahl Nitrogen (TKN), Total									
ND 1.40 mg/L ND 10									
Duplicate (BEI0222-DUP2)									
Source: 23I0502-01									
Kjeldahl Nitrogen (TKN), Total									
ND 1.40 mg/L ND 10									
Matrix Spike (BEI0222-MS1)									
Source: 23I0493-05									
Kjeldahl Nitrogen (TKN), Total									
5.99 1.40 mg/L 7.992 ND 74.9 90-110									
Matrix Spike (BEI0222-MS2)									
Source: 23I0502-01									
Kjeldahl Nitrogen (TKN), Total									
6.60 1.40 mg/L 7.992 ND 82.5 90-110									
Reference (BEI0222-SRM1)									
Prepared: 9/8/2023 Analyzed: 9/11/2023									
Kjeldahl Nitrogen (TKN), Total									
23.2 mg/L 23.80 97.4 90-110									

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0229									
Blank (BEI0229-BLK1)									
pH	5.2	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEI0229-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.2	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEI0229-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.3	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEI0229-DUP1)									
		Source: 23I0193-01							
pH	7.8	1.0	units		7.7		0.515		10
Electrical Conductivity	0.18	0.01	mmhos/cm		0.18		3.27		10
Electrical Conductivity umhos	178	10.0	umhos/cm		184		3.27		10
Duplicate (BEI0229-DUP2)									
		Source: 23I0498-02							
pH	7.9	1.0	units		7.9		0.126		10
Electrical Conductivity	0.80	0.01	mmhos/cm		0.81		0.236		10
Electrical Conductivity umhos	803	10.0	umhos/cm		805		0.236		10
Reference (BEI0229-SRM1)									
Electrical Conductivity	511		umhos/cm		538.0	95.0	90-110		
Reference (BEI0229-SRM2)									
pH	5.8		units		5.820	100	28178-101.7		
Reference (BEI0229-SRM3)									
Electrical Conductivity	958		umhos/cm		1000	95.8	90-110		
Electrical Conductivity umhos	958		umhos/cm		1000	95.8	90-110		
Reference (BEI0229-SRM4)									
Electrical Conductivity	959		umhos/cm		1000	95.9	90-110		
Electrical Conductivity umhos	959		umhos/cm		1000	95.9	90-110		
Reference (BEI0229-SRM5)									
Electrical Conductivity	972		umhos/cm		1000	97.2	90-110		

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0229 (Continued)									
Reference (BEI0229-SRM5)									
Electrical Conductivity umhos	972		umhos/cm	1000	97.2	90-110			
Reference (BEI0229-SRM6)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0229-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEI0229-SRM8)									
pH	4.0		units	4.000	101	97.5-102.5			

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Diamond H Dairy
9730 Ave 18 1/2
Chowchilla, CA 93610

Account# 00-0015888
Account Manager: Ben Nydam
Submitted By: Greg Hooker
Ranch: Diamond H Dairy

Received: 09/07/2023 14:19
Reported: 09/15/2023 10:51

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEI0386									
Blank (BEI0386-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 9/12/2023 Analyzed: 9/15/2023				
LCS (BEI0386-BS1)									
Total Filterable Solids (TDS)	30.0	10.0	mg/L	2000	Prepared: 9/12/2023 Analyzed: 9/15/2023	1.50	0-200		
Duplicate (BEI0386-DUP1)									
Total Filterable Solids (TDS)	620	10.0	mg/L		Prepared: 9/12/2023 Analyzed: 9/15/2023	600		3.28	10
Duplicate (BEI0386-DUP2)									
Total Filterable Solids (TDS)	1100	10.0	mg/L	1120	Prepared: 9/12/2023 Analyzed: 9/15/2023			1.80	10
Reference (BEI0386-SRM1)									
Total Filterable Solids (TDS)	307		mg/L	325.0	Prepared: 9/12/2023 Analyzed: 9/15/2023	94.4	90-110		

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09/07/23 14:19

2310493

Purchase Order No	15888	08
Bill To:	Acct #	Cons #

Results Need By

Name: Diamond H Dairy
 Address: 9730 Avenue 18 1/2
 City: Chowchilla State: CA Zip: 93610
 Telephone: (209) 595-4548 Fax: (559) 665-5465
 Cell/Email: ghooker@aol.com
 COPY TO: Agri-Valley Consulting; P & P

REQUESTED BY: Greg Hooker
 PROJECT: Diamond H Dairy
 CROP:

[X] Copy of Chain [X] QA/QC Documents

Sampled By:

Greg Hooker

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. Samples: 11 No of Bottles: 8/11

KS 9-7-23

Water Type: Drinking Water Wastewater
 Ag Water Groundwater Monitoring Well

Other:

Analysis and Bottles Required: (Please indicate Analysis)(X) DWW1: EC, NO₃-N, TDS, TKN, TN *NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DCW1: EC, NO₃-N, TKN, TN, TDS, *NH₄-N Field Test

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW1: EC, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW2: DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl

(1-1 Liter Plastic, Unpreserved) White Per Sample

() Other

If Field NH₄-N detected Run NH₄-N, UnNH₃-N****NEED FIELD TEMP & FIELD pH FOR UnNH₄-N**

	Description of Samples	Field pH	Field Temp	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	WRD Dairy			9/7	8:15AM	3.7	<0
2	WRD Calfranch			9/7	8 Am	4.4	<1
3	WRD Dairy East			9/7	8:30 Am	2.0	<1
4				9/7	9 Am	1.2	<1
5	12			9/7	9 Am	2.8	<1
6	16			9/7	9:15 Am	2.8	<1
7	52			9/7	9:15 Am	2.8	<1
8	101			9/7	9:30 Am	1.9	<1

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Greg Hooker	Diamond H		
Second				
Third				
Fourth	KS	DS	9-7-23 14:19	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged.

Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

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

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)

[] Yes [] No

Shipping Information: Fed Ex UPS GSO Picked-Up Walk In DLI Sampler

Ontrac PMS USPS Other

Shipping Container: Ice Chest None Box

Refrigerant: Wet Ice: Blue Ice: None:

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: White River Dairy

Name of Dairy Facility: White River Dairy

Facility Address:

20400 Ave. 17 1/2 AVE Number and Street	Madera City	Madera County	93637 Zip Code
--	----------------	------------------	-------------------

Contact Person Name and Phone Number:	<u>Mark Hooker</u> Name	(209) 259-9368 Phone Number
---------------------------------------	----------------------------	--------------------------------

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Green Valley Soils

Address of Hauling Company/Person:

3754 W Birch AVE Number and Street	Madera City	CA State	93711 Zip Code
---------------------------------------	----------------	-------------	-------------------

Contact Person:	<u>Ryan Machado</u> Name	(559) 474-2377 Phone Number
-----------------	-----------------------------	--------------------------------

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Broker

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

Green Valley Soils Name	(559) 474-2377 Phone Number
----------------------------	--------------------------------

3754 W Birch AVE Address	Fresno City	CA State	93711 Zip Code
-----------------------------	----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

3757 W Birch AVE Address	Fresno City	93711 Zip Code
-----------------------------	----------------	-------------------

Street and nearest cross street (if no address)	Fresno County
---	------------------

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 10/09/2023

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,081.59 tons

Manure Solids Content: 67.4 %

Method used to determine amount of manure:

Total Loads Multiplied by Average Load Weight

CERTIFICATION

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

Mark Hooker

Mark Hooker (Jun 21, 2024 10:34 PDT)

Operator Signature

06/21/2024

Date

Ryan machado

Hauler Signature

06/21/2024

Date

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: White River Dairy

Name of Dairy Facility: White River Dairy

Facility Address:

20400 Ave. 17 1/2 AVE Number and Street	Madera City	Madera County	93637 Zip Code
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Contact Person Name and Phone Number:	<u>Mark Hooker</u> Name	(209) 259-9363 Phone Number
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MANURE HAULER INFORMATION

Name of Hauling Company/Person: Green Valley Soils

Address of Hauling Company/Person:

3754 W Birch AVE Number and Street	Madera City	CA State	93711 Zip Code
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Contact Person:	<u>Ryan Machado</u> Name	(559) 474-2377 Phone Number
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DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Broker

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

Green Valley Soils Name	(559) 474-2377 Phone Number
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3754 W Birch AVE Address	Fresno City	CA State	93711 Zip Code
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Destination Address or Assessor's Parcel Number:

17527 Road 21 Address	Madera City	93637 Zip Code
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Street and nearest cross street (if no address)	Madera County
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Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 11/20/2023

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 2,864.65 tons

Manure Solids Content: 67.7 %

Method used to determine amount of manure:

Total Loads Hauled by Average Load Weight

CERTIFICATION

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

Mark Hooker

06/21/2024

Operator Signature

Date

Ryan Machado

06/21/2024

Hauler Signature

Date

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: White River Dairy

Name of Dairy Facility: White River Dairy

Facility Address:

20400 Ave. 17 1/2 AVE Number and Street	Madera City	Madera County	93637 Zip Code
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Contact Person Name and Phone Number:	<u>Mark Hooker</u> Name	(209) 259-9363 Phone Number
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MANURE HAULER INFORMATION

Name of Hauling Company/Person: Green Valley Soils

Address of Hauling Company/Person:

3754 W Birch AVE Number and Street	Madera City	CA State	93711 Zip Code
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Contact Person:	<u>Ryan Machado</u> Name	(559) 474-2377 Phone Number
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DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Broker

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

Green Valley Soils Name	(559) 474-2377 Phone Number
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3754 W Birch AVE Address	Fresno City	CA State	93711 Zip Code
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Destination Address or Assessor's Parcel Number:

17527 Road 21 Address	Madera City	93637 Zip Code
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Street and nearest cross street (if no address)	Madera County
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Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 12/09/2023

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 583.28 tons

Manure Solids Content: 67.4 %

Method used to determine amount of manure:

Total Loads Hauled by Average Load Weight

CERTIFICATION

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

Mark Hooker

Mark Hooker (Jun 21, 2024 10:34 PDT)

Operator Signature

06/21/2024

Date

Ryan Machado

Hauler Signature

06/21/2024

Date