

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:** Robert Vander Eyk Dairy

Physical address of dairy:

9441 Avenue 104

Number and Street

Pixley

City

Tulare

County

93272

Zip Code

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

Date facility was originally placed in operation: 01/01/2005Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X293-X160-X030-XXXX**B. OPERATORS**

Vander Eyk, Robert

Operator name: Vander Eyk, RobertTelephone no.: (559) 757-7104(559) 909-3195

Landline

Cellular

P.O. Box 539

Mailing Address Number and Street

Tipton

City

CA

State

93272

Zip Code

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

Vander Eyk, Robert

Legal owner name: Vander Eyk, RobertTelephone no.: (559) 757-7104(559) 909-3195

Landline

Cellular

P.O. Box 539

Mailing Address Number and Street

Tipton

City

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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	249	1,450	861	0	0
Number under roof	2,671	0	0	0	0	0
Maximum number	2,702	258	1,475	876	0	0
Average number	2,671	249	1,450	861	0	0
Avg live weight (lbs)	1,400	1,450	1,000	700		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 97,678.50 tons per reporting period

Total nitrogen from manure: 1,189,348.46 lbs per reporting period

After ammonia losses (30% loss applied): 832,543.92 lbs per reporting period

Total phosphorus from manure: 199,901.21 lbs per reporting period

Total potassium from manure: 524,386.06 lbs per reporting period

Total salt from manure: 1,314,897.90 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 80,699,196 gallons

Total nitrogen generated: 245,771.73 lbs

Total phosphorus generated: 30,069.37 lbs

Total potassium generated: 477,185.27 lbs

Total salt generated: 2,066,839.12 lbs

80,699,196 gallons applied + 0 gallons exported - 0 gallons imported = 80,699,196 gallons generated
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D. FRESH WATER SOURCES

Source Description	Type
A-1	Ground water
A-2	Ground water
A-4	Ground water
A-5	Ground water
A-6	Ground water

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Source Description	Type
A-7	Ground water
D-1	Ground water
D-2	Ground water
Pixley ID	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 (%)
11/19/2023	Corral solids	7,794.00 <i>ton</i>	Dry-weight	19.2		27,200.00	6,900.00	20,000.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	342,586.83	86,906.22	251,902.08	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	342,586.83	86,906.22	251,902.08	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
F-1	77	77	2	process wastewater	X293-X160-X022-XXXX X293-X160-X031-XXXX
F-10	38	38	2	both	X293-X140-X017-XXXX
F-2	74	74	2	process wastewater	X293-X160-X022-XXXX
F-3	19	19	2	process wastewater	X293-X160-X030-XXXX
F-5	75	75	2	process wastewater	X293-X160-X021-XXXX X293-X160-X023-XXXX
F-6	77	77	2	process wastewater	X293-X160-X021-XXXX
F-7	76	76	2	process wastewater	X293-X160-X023-XXXX
F-8	11	11	2	process wastewater	X293-X160-X030-XXXX
F-9	73	73	2	both	X293-X140-X023-XXXX
Totals for areas that were used for application	520	520	18		
Totals for areas that were not used for application					
Land application area totals	520	520	18		

B. CROPS AND HARVESTS

F-1

Field name: F-1

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 77 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,714.00 ton	Dry-weight		68.5	18,800.00	4,200.00	23,800.00		8.81

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.26	263.64	58.90	333.76	1,235.48

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F-1

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 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 (%)
09/15/2023	1,909.00 ton	Dry-weight		70.2	13,800.00	2,000.00	16,000.00		6.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	24.79	203.91	29.55	236.42	911.69

F-10

Field name: F-10

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 (%)
05/02/2023	904.00 ton	Dry-weight		73.6	14,200.00	3,100.00	10,900.00		9.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	23.79	178.36	38.94	136.91	1,163.13

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 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 (%)
09/26/2023	1,026.00 ton	Dry-weight		71.1	11,500.00	2,900.00	13,600.00		6.16

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	27.00	179.47	45.26	212.24	961.33

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F-2

Field name: F-2

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 74 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,658.00 ton	Dry-weight		64.4	13,400.00	3,800.00	15,500.00		7.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.41	213.77	60.62	247.27	1,229.95

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	1,869.00 ton	Dry-weight		63.7	11,000.00	2,400.00	12,800.00		5.08

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	25.26	201.70	44.01	234.71	931.49

F-3

Field name: F-3

11/15/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 19 Plant date: 11/15/2022

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	464.00 ton	Dry-weight		68.1	14,700.00	3,600.00	15,700.00		8.26

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	24.42	229.04	56.09	244.62	1,286.96

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F-3

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	481.00 ton	Dry-weight		69.1	13,200.00	3,000.00	25,000.00		7.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	25.32	206.52	46.94	391.13	1,246.92

F-5

Field name: F-5

11/15/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 75 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,675.00 ton	Dry-weight		64.9	13,100.00	3,600.00	18,800.00		7.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.33	205.38	56.44	294.75	1,210.34

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	2,024.00 ton	Dry-weight		64.9	11,700.00	1,900.00	12,800.00		6.52

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	26.99	221.65	35.99	242.49	1,235.19

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F-6

Field name: F-6

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 77 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,733.00 ton	Dry-weight		73.5	19,800.00	4,500.00	21,600.00		9.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.51	236.18	53.68	257.65	1,189.27

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,125.00 ton	Dry-weight		67.1	14,100.00	1,700.00	18,000.00		6.07

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	27.60	256.04	30.87	326.86	1,102.26

F-7

Field name: F-7

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 76 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,713.00 ton	Dry-weight		62.7	14,600.00	2,900.00	9,700.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.54	245.49	48.76	163.10	1,177.01

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F-7

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/18/2023	2,079.00 ton	Dry-weight		68.8	11,700.00	2,400.00	7,600.00		4.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	27.36	199.72	40.97	129.73	774.96

F-8

Field name: F-8

11/16/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 11 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	256.00 ton	Dry-weight		72.5	15,100.00	3,700.00	13,900.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	23.27	193.28	47.36	177.92	1,420.80

06/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 11 Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	285.00 ton	Dry-weight		68.1	13,300.00	2,900.00	17,700.00		6.43

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	25.91	219.85	47.94	292.58	1,062.88

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F-9

Field name: F-9

11/17/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 73 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,669.00 <i>ton</i>	Dry-weight		63.6	12,000.00	2,900.00	9,600.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,826.00
Total actual harvest content	22.86	199.73	48.27	159.79	1,264.96

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 73 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,822.00 <i>ton</i>	Dry-weight		64.8	8,200.00	2,400.00	11,600.00		5.78

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	24.96	144.08	42.17	203.82	1,015.61

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NUTRIENT BUDGET

A. LAND APPLICATIONS

F-1 - 11/14/2022: Triticale, soft dough

Field name: F-1

Crop: Triticale, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	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
Lagoon	Process wastewater	104.79	12.47	172.02	1,774.59	2,511,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	21.74	10,032,100.00 <i>gal</i>
Application event totals		104.79	12.47	172.02	1,796.34	
01/16/2023	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
Lagoon	Process wastewater	91.58	9.87	164.69	974.91	2,183,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	20.92	9,650,410.00 <i>gal</i>
Application event totals		91.58	9.87	164.69	995.83	
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.40	10.39	206.23	558.31	1,996,740.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	18.43	8,502,210.00 <i>gal</i>
Application event totals		84.40	10.39	206.23	576.74	

F-1 - 05/30/2023: Corn, silage

Field name: F-1

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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F-1 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/13/2023	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
Lagoon	Process wastewater	84.39	10.39	206.20	558.24	1,996,500.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.84	10,997,700.00 <i>gal</i>
Application event totals		84.39	10.39	206.20	582.08	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	26.39	12,174,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.39	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.62	9.06	179.89	487.01	1,741,744.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.08	11,107,800.00 <i>gal</i>
Application event totals		73.62	9.06	179.89	511.09	
07/02/2023	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
Lagoon	Process wastewater	80.15	9.86	195.86	530.23	1,896,310.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.44	11,277,400.00 <i>gal</i>
Application event totals		80.15	9.86	195.86	554.67	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	33.70	0.69	19.04	91.12	2,879,440.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.57	10,874,400.00 <i>gal</i>
Application event totals		33.70	0.69	19.04	114.69	

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F-1 - 05/30/2023: 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
Pixley ID	Surface water	0.00	0.00	0.00	23.82	10,988,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.82	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	25.75	11,878,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.75	

F-10 - 11/14/2022: Triticale, soft dough

Field name: F-10

Crop: Triticale, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/29/2022	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
Pixley ID	Surface water	0.00	0.00	0.00	24.02	5,468,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.02	
10/28/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	210.28	95.90	341.70	0.00	304.00 <i>ton</i>
Application event totals		210.28	95.90	341.70	0.00	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	21.98	5,004,710.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.98	

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F-10 - 11/14/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/04/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	212.81	4,404,880.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	212.81	

F-10 - 05/30/2023: Corn, silage

Field name: F-10

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/10/2023	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
Lagoon			Process wastewater	200.61	32.28	88.39	432.73	350,000.00 <i>gal</i>
Application event totals				200.61	32.28	88.39	432.73	
05/17/2023	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
Pixley ID			Surface water	0.00	0.00	0.00	26.74	6,087,970.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	26.74	
06/20/2023	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
Pixley ID			Surface water	0.00	0.00	0.00	22.04	5,018,911.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	22.04	
07/02/2023	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
Pixley ID			Surface water	0.00	0.00	0.00	24.78	5,641,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	24.78	

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F-10 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/15/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	24.94	5,678,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.94	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	23.75	5,406,710.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.75	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.60	5,601,760.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.60	
08/24/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	25.06	5,705,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.06	

F-2 - 11/14/2022: Triticale, soft dough

Field name: F-2

Crop: Triticale, soft dough

Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	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
Lagoon	Process wastewater	107.04	12.73	175.71	1,812.72	2,465,410.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.34	9,904,700.00 <i>gal</i>
Application event totals		107.04	12.73	175.71	1,835.06	

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F-2 - 11/14/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/11/2023	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
Lagoon	Process wastewater	89.33	9.63	160.65	950.97	2,046,800.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	21.89	9,704,620.00 <i>gal</i>
Application event totals		89.33	9.63	160.65	972.86	
04/02/2023	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
Lagoon	Process wastewater	82.52	10.16	201.66	545.93	1,876,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	18.32	8,120,650.00 <i>gal</i>
Application event totals		82.52	10.16	201.66	564.25	

F-2 - 06/15/2023: Corn, silage

Field name: F-2

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	109.89	13.53	268.53	726.98	2,498,650.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.55	10,886,770.00 <i>gal</i>
Application event totals		109.89	13.53	268.53	751.53	
07/05/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	25.60	11,348,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.60	

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F-2 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Lagoon	Process wastewater	105.00	12.92	256.59	694.65	2,387,530.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.96	10,177,930.00 <i>gal</i>
Application event totals		105.00	12.92	256.59	717.60	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.09	10,679,810.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.09	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	50.87	6.50	28.73	137.53	4,176,520.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.47	10,407,870.00 <i>gal</i>
Application event totals		50.87	6.50	28.73	161.00	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.13	10,698,320.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.13	
09/06/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	24.56	10,889,710.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.56	

F-3 - 11/15/2022: Triticale, soft dough

Field name: F-3

Crop: Triticale, soft dough

Plant date: 11/15/2022

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F-3 - 11/15/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/27/2022	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
Lagoon	Process wastewater	108.91	12.96	178.79	1,844.48	644,100.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	22.02	2,506,320.00 gal
Application event totals		108.91	12.96	178.79	1,866.49	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.63	9.77	162.99	964.85	533,200.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	21.16	2,408,710.00 gal
Application event totals		90.63	9.77	162.99	986.01	
04/02/2023	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
Lagoon	Process wastewater	85.89	10.57	209.88	568.19	501,420.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	21.16	2,408,710.00 gal
Application event totals		85.89	10.57	209.88	589.35	

F-3 - 06/02/2023: Corn, silage

Field name: F-3

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.29	10.99	218.19	590.70	521,280.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.46	2,784,050.00 <i>gal</i>
Application event totals		89.29	10.99	218.19	615.15	

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F-3 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.19	9.25	183.74	497.44	438,980.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.81	2,710,580.00 <i>gal</i>
Application event totals		75.19	9.25	183.74	521.25	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	25.83	2,941,004.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.83	
07/17/2023	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
Lagoon	Process wastewater	63.90	8.16	36.09	172.76	1,347,100.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.61	2,801,500.00 <i>gal</i>
Application event totals		63.90	8.16	36.09	197.37	
07/29/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.17	2,637,410.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.17	
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
Lagoon	Process wastewater	52.60	6.70	29.60	141.68	1,104,700.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	24.59	2,798,900.00 <i>gal</i>
Application event totals		52.60	6.70	29.60	166.26	

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F-3 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.46	2,784,640.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.46	

F-5 - 11/15/2022: Triticale, soft dough

Field name: F-5

Crop: Triticale, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/26/2022	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
Lagoon	Process wastewater	102.88	12.24	168.89	1,742.35	2,401,720.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	21.96	9,867,310.00 <i>gal</i>
Application event totals		102.88	12.24	168.89	1,764.31	
02/01/2023	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
Lagoon	Process wastewater	85.99	9.27	154.64	915.41	1,996,880.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	20.58	9,247,100.00 <i>gal</i>
Application event totals		85.99	9.27	154.64	935.98	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	84.04	10.34	205.37	555.98	1,936,744.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	19.41	8,721,060.00 <i>gal</i>
Application event totals		84.04	10.34	205.37	575.38	

F-5 - 06/14/2023: Corn, silage

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F-5 - 06/14/2023: Corn, silage

Field name: F-5

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Lagoon		Process wastewater	104.10	12.81	254.37	688.65	2,398,900.00 <i>gal</i>
Pixley ID		Surface water	0.00	0.00	0.00	24.44	10,984,600.00 <i>gal</i>
Application event totals			104.10	12.81	254.37	713.09	
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
Lagoon		Process wastewater	91.51	11.26	223.61	605.36	2,108,770.00 <i>gal</i>
Pixley ID		Surface water	0.00	0.00	0.00	23.59	10,599,870.00 <i>gal</i>
Application event totals			91.51	11.26	223.61	628.95	
07/18/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID		Surface water	0.00	0.00	0.00	23.76	10,677,150.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	23.76	
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
Lagoon		Process wastewater	86.24	10.61	210.74	570.52	1,987,400.00 <i>gal</i>
Pixley ID		Surface water	0.00	0.00	0.00	23.03	10,348,700.00 <i>gal</i>
Application event totals			86.24	10.61	210.74	593.55	
08/13/2023	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
Pixley ID		Surface water	0.00	0.00	0.00	24.23	10,887,700.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	24.23	

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F-5 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
08/26/2023	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
Pixley ID		Surface water	0.00	0.00	0.00	22.67	10,187,940.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	22.67	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID		Surface water	0.00	0.00	0.00	22.88	10,279,700.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	22.88	

F-6 - 11/16/2022: Triticale, soft dough

Field name: F-6

Crop: Triticale, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/27/2022	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
Lagoon	Process wastewater	100.49	11.95	164.96	1,701.81	2,408,400.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.56	10,870,500.00 <i>gal</i>
Application event totals		100.49	11.95	164.96	1,725.38	
01/28/2023	Surface (irrigation)	No precipitation	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
Lagoon	Process wastewater	96.83	10.43	174.15	1,030.86	2,308,700.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.34	10,307,540.00 <i>gal</i>
Application event totals		96.83	10.43	174.15	1,053.20	

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F-6 - 11/16/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.20	9.50	188.64	510.71	1,826,480.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	21.04	9,706,440.00 <i>gal</i>
Application event totals		77.20	9.50	188.64	531.74	

F-6 - 06/04/2023: Corn, silage

Field name: F-6

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	103.50	12.74	252.92	684.71	2,448,790.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	22.69	10,466,700.00 <i>gal</i>
Application event totals		103.50	12.74	252.92	707.40	
06/24/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	25.96	11,975,660.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.96	
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
Lagoon	Process wastewater	99.63	12.26	243.45	659.07	2,357,100.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.37	10,781,002.00 <i>gal</i>
Application event totals		99.63	12.26	243.45	682.44	

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F-6 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/15/2023	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
Lagoon	Process wastewater	88.24	10.86	215.63	583.77	2,087,800.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.58	10,879,400.00 <i>gal</i>
Application event totals		88.24	10.86	215.63	607.35	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.51	11,307,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.51	
08/06/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	22.52	10,387,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.52	
08/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	22.71	10,476,820.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.71	

F-7 - 11/16/2022: Triticale, soft dough

Field name: F-7

Crop: Triticale, soft dough Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

F-7 - 11/16/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/26/2022	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
Lagoon	Process wastewater	98.16	11.68	161.13	1,662.26	2,321,878.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	21.44	9,765,230.00 <i>gal</i>
Application event totals		98.16	11.68	161.13	1,683.71	
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.07	9.92	165.58	980.19	2,166,700.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	20.88	9,506,200.00 <i>gal</i>
Application event totals		92.07	9.92	165.58	1,001.06	
04/05/2023	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
Lagoon	Process wastewater	85.37	10.51	208.62	564.79	1,993,670.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	20.58	9,371,040.00 <i>gal</i>
Application event totals		85.37	10.51	208.62	585.37	

F-7 - 06/16/2023: Corn, silage

Field name: F-7

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	106.19	13.07	259.49	702.50	2,479,800.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.47	10,687,105.00 <i>gal</i>
Application event totals		106.19	13.07	259.49	725.97	

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F-7 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Pixley ID	Surface water	0.00	0.00	0.00	24.98	11,376,002.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.98	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	102.26	12.59	249.88	676.49	2,387,970.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.45	10,678,200.00 <i>gal</i>
Application event totals		102.26	12.59	249.88	699.94	
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
Lagoon	Process wastewater	49.79	6.36	28.12	134.63	4,198,970.00 <i>gal</i>
Pixley ID	Surface water	0.00	0.00	0.00	23.04	10,489,700.00 <i>gal</i>
Application event totals		49.79	6.36	28.12	157.66	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.67	10,776,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.67	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	24.11	10,979,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.11	
09/07/2023	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
Pixley ID	Surface water	0.00	0.00	0.00	23.52	10,708,998.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.52	

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F-8 - 11/16/2022: Triticale, soft dough

Field name: F-8

Crop: Triticale, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/27/2022	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
Lagoon	Process wastewater	93.68	11.14	153.78	1,586.48	320,740.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	22.58	1,488,450.00 gal
Application event totals		93.68	11.14	153.78	1,609.06	
02/06/2023	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
Lagoon	Process wastewater	88.27	9.51	158.75	939.71	300,650.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	21.37	1,408,770.00 gal
Application event totals		88.27	9.51	158.75	961.08	
04/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.57	9.30	184.66	499.91	255,410.00 gal
Pixley ID	Surface water	0.00	0.00	0.00	15.29	1,007,790.00 gal
Application event totals		75.57	9.30	184.66	515.20	

F-8 - 06/06/2023: Corn, silage

Field name: F-8

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
	Lagoon	Process wastewater	109.37	13.46	267.25	723.51	369,650.00 <i>gal</i>
	Pixley ID	Surface water	0.00	0.00	0.00	24.51	1,615,400.00 <i>gal</i>
	Application event totals		109.37	13.46	267.25	748.02	

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F-8 - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/26/2023	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	
Pixley ID		Surface water	0.00	0.00	0.00	25.89	1,706,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	25.89		
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	
Lagoon		Process wastewater	104.04	12.81	254.24	688.28	351,650.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	23.48	1,547,702.00 <i>gal</i>	
Application event totals			104.04	12.81	254.24	711.76		
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	
Pixley ID		Surface water	0.00	0.00	0.00	24.24	1,597,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	24.24		
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	
Lagoon		Process wastewater	48.08	6.14	27.16	129.99	586,800.00 <i>gal</i>	
Pixley ID		Surface water	0.00	0.00	0.00	24.58	1,620,340.00 <i>gal</i>	
Application event totals			48.08	6.14	27.16	154.57		
08/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Pixley ID		Surface water	0.00	0.00	0.00	24.30	1,601,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	24.30		
08/27/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Pixley ID		Surface water	0.00	0.00	0.00	22.40	1,476,540.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	22.40		

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F-9 - 11/17/2022: Triticale, soft dough

Field name: F-9

Crop: Triticale, soft dough

Plant date: 11/17/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
10/28/2022	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		
Pixley ID		Surface water	0.00	0.00	0.00	24.18	10,576,230.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	24.18			
10/26/2022	Broadcast/incorporate		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Manure		Corral solids	210.28	95.90	17.05	0.00	584.00 <i>ton</i>		
Application event totals			210.28	95.90	17.05	0.00			
02/10/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Pixley ID		Surface water	0.00	0.00	0.00	23.04	10,077,440.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	23.04			
04/06/2023	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		
Pixley ID		Surface water	0.00	0.00	0.00	18.92	8,274,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	18.92			

F-9 - 06/07/2023: Corn, silage

Field name: F-9

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

F-9 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/11/2023	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
Lagoon	Process wastewater	179.02	28.81	78.88	386.16	600,000.00 <i>gal</i>
Application event totals		179.02	28.81	78.88	386.16	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	26.33	11,514,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.33	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID	Surface water	0.00	0.00	0.00	25.40	11,107,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.40	
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
Pixley ID	Surface water	0.00	0.00	0.00	24.96	10,916,570.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.96	
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
Pixley ID	Surface water	0.00	0.00	0.00	25.19	11,016,520.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.19	
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
Pixley ID	Surface water	0.00	0.00	0.00	23.80	10,410,750.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.80	

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F-9 - 06/07/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/14/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID			Surface water	0.00	0.00	0.00	24.64	10,778,400.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	24.64	
08/27/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pixley ID			Surface water	0.00	0.00	0.00	23.92	10,463,520.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	23.92	

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

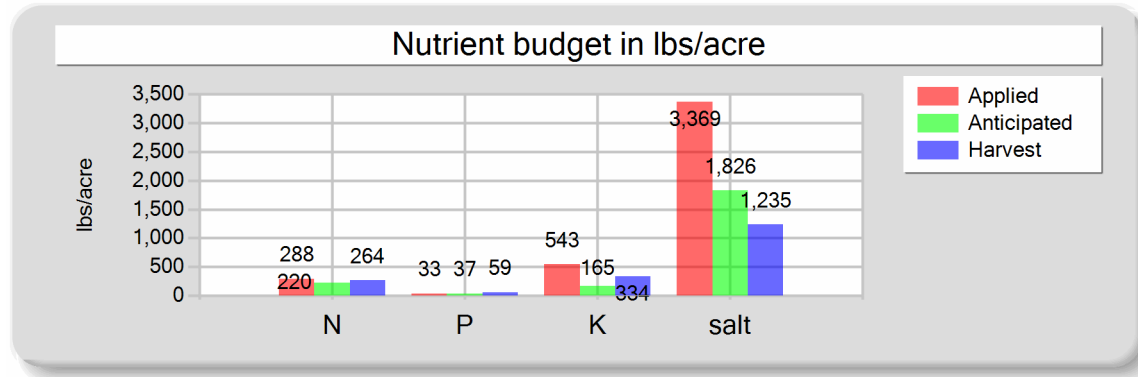
B. NUTRIENT BUDGET

F-1 - 11/14/2022: Triticale, soft dough

Field name: F-1

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	28,184,720.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,037.95 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.48 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	280.76	32.72	542.94	3,307.82	Process wastewater applied
Fresh water	0.00	0.00	0.00	61.09	6,691,540.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	246.43 acre-inches
Total nutrients applied	287.76	32.72	542.94	3,368.91	3.20 inches/acre
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00	
Actual crop nutrient removal	263.64	58.90	333.76	1,235.48	Total harvests for the crop
Nutrient balance	24.12	-26.18	209.18	2,133.43	1 harvests
Applied to removed ratio	1.09	0.56	1.63	2.73	

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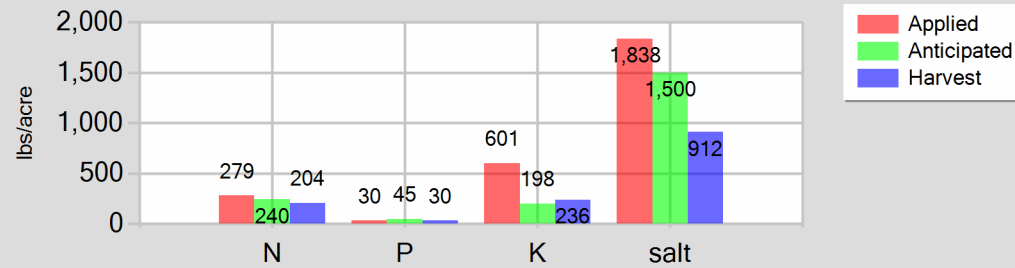
F-1 - 05/30/2023: Corn, silage

Field name: F-1

Crop: Corn, silage

Plant date: 05/30/2023

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	271.86	30.00	600.99	1,666.61
Fresh water	0.00	0.00	0.00	171.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.86	30.00	600.99	1,838.49
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	203.91	29.55	236.42	911.69
Nutrient balance	74.95	0.45	364.57	926.80
Applied to removed ratio	1.37	1.02	2.54	2.02

Fresh water applied
79,298,700.00 gallons
2,920.30 acre-inches
37.93 inches/acre
Process wastewater applied
8,513,994.00 gallons
313.54 acre-inches
4.07 inches/acre
Total harvests for the crop
1 harvests

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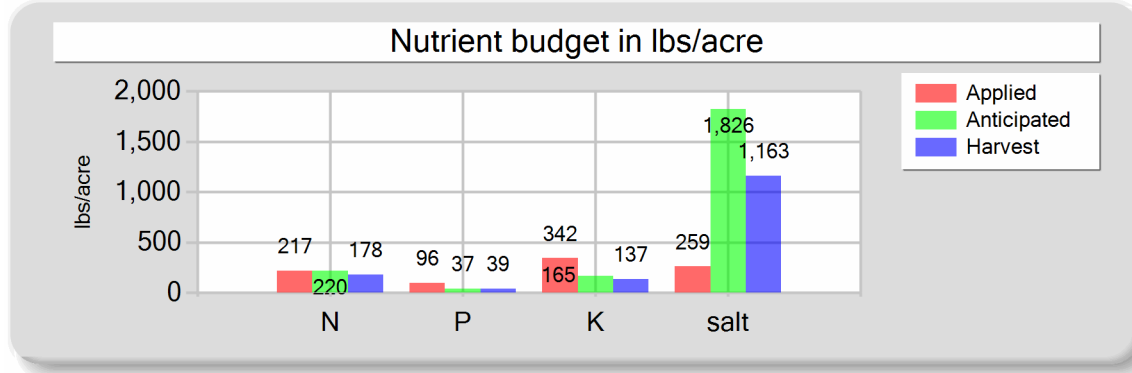
Reporting period 01/01/2023 to 12/31/2023.

F-10 - 11/14/2022: Triticale, soft dough

Field name: F-10

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)
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	210.28	95.90	341.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	258.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	217.28	95.90	341.70	258.81
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	178.36	38.94	136.91	1,163.13
Nutrient balance	38.91	56.97	204.79	-904.32
Applied to removed ratio	1.22	2.46	2.50	0.22

Fresh water applied
14,878,390.00 <i>gallons</i>
547.92 <i>acre-inches</i>
14.42 <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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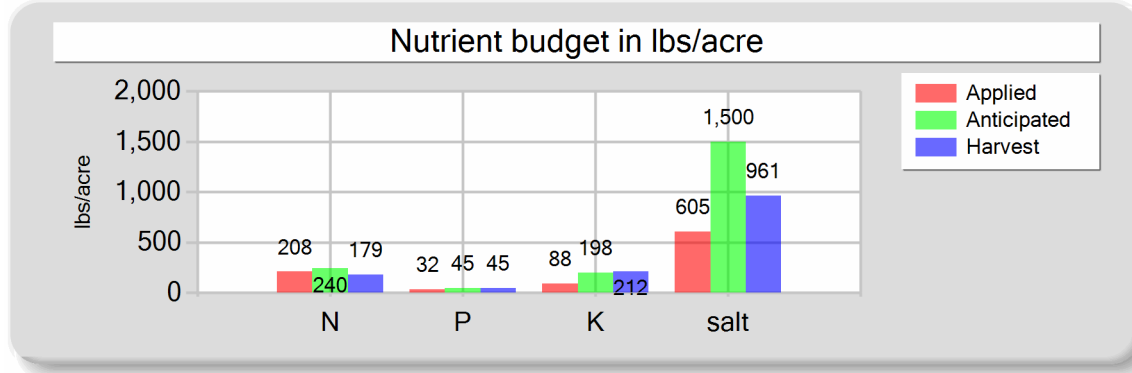
Reporting period 01/01/2023 to 12/31/2023.

F-10 - 05/30/2023: Corn, silage

Field name: F-10

Crop: Corn, silage

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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	200.61	32.28	88.39	432.73
Fresh water	0.00	0.00	0.00	171.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	207.61	32.28	88.39	604.64
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	179.47	45.26	212.24	961.33
Nutrient balance	28.14	-12.98	-123.85	-356.69
Applied to removed ratio	1.16	0.71	0.42	0.63

Fresh water applied
39,140,151.00 <i>gallons</i>
1,441.40 <i>acre-inches</i>
37.93 <i>inches/acre</i>

Process wastewater applied
350,000.00 <i>gallons</i>
12.89 <i>acre-inches</i>
0.34 <i>inches/acre</i>

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

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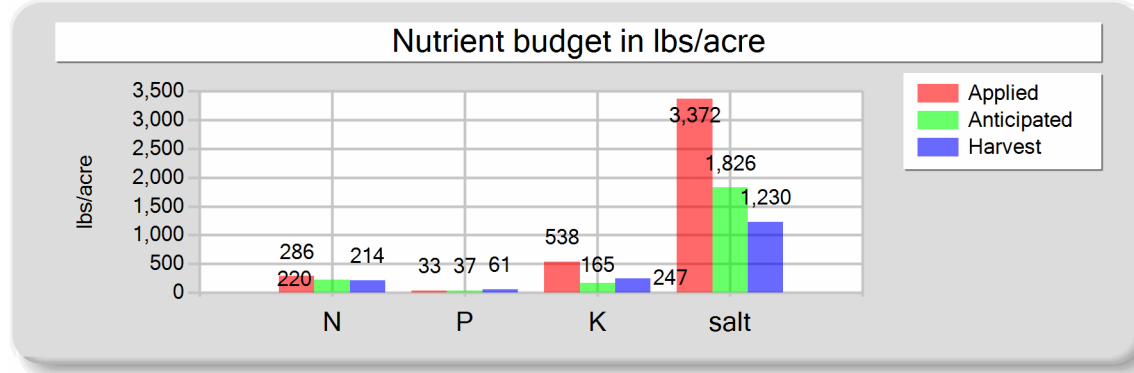
Reporting period 01/01/2023 to 12/31/2023.

F-2 - 11/14/2022: Triticale, soft dough

Field name: F-2

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)
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	278.89	32.52	538.02	3,309.63
Fresh water	0.00	0.00	0.00	62.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	285.89	32.52	538.02	3,372.17
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	213.77	60.62	247.27	1,229.95
Nutrient balance	72.13	-28.10	290.75	2,142.22
Applied to removed ratio	1.34	0.54	2.18	2.74

Fresh water applied
27,729,970.00 gallons
1,021.20 acre-inches
13.80 inches/acre

Process wastewater applied
6,388,610.00 gallons
235.27 acre-inches
3.18 inches/acre

Total harvests for the crop
1 harvests

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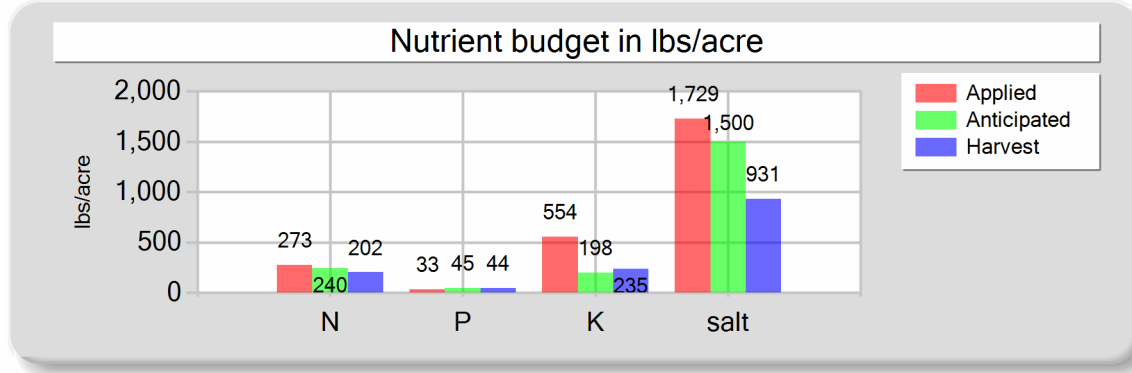
Reporting period 01/01/2023 to 12/31/2023.

F-2 - 06/15/2023: Corn, silage

Field name: F-2

Crop: Corn, silage

Plant date: 06/15/2023



	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	75,089,110.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,765.28 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.37 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	265.76	32.95	553.85	1,559.15	Process wastewater applied
Fresh water	0.00	0.00	0.00	169.36	9,062,700.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	333.75 <i>acre-inches</i>
Total nutrients applied	272.76	32.95	553.85	1,728.51	4.51 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	201.70	44.01	234.71	931.49	Total harvests for the crop
Nutrient balance	71.06	-11.06	319.14	797.02	1 <i>harvests</i>
Applied to removed ratio	1.35	0.75	2.36	1.86	

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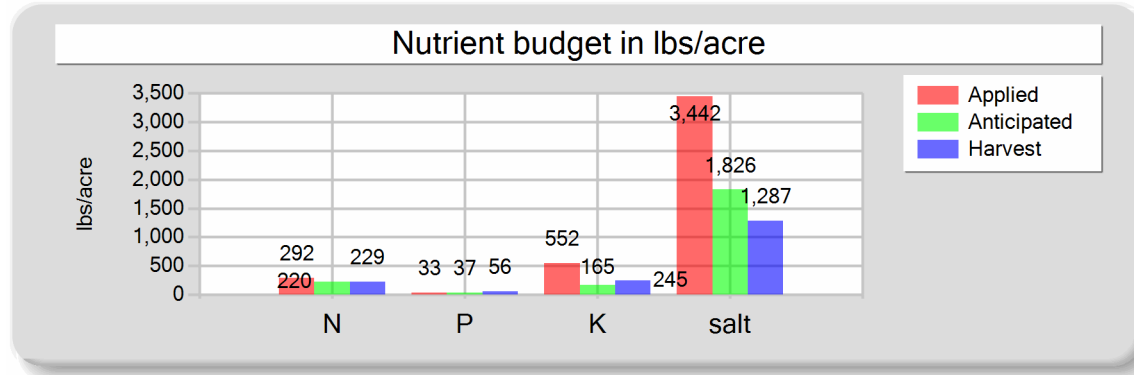
Reporting period 01/01/2023 to 12/31/2023.

F-3 - 11/15/2022: Triticale, soft dough

Field name: F-3

Crop: Triticale, soft dough

Plant date: 11/15/2022



	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	285.43	33.29	551.66	3,377.52
Fresh water	0.00	0.00	0.00	64.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.43	33.29	551.66	3,441.85
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	229.04	56.09	244.62	1,286.96
Nutrient balance	63.40	-22.80	307.05	2,154.89
Applied to removed ratio	1.28	0.59	2.26	2.67

Fresh water applied
7,323,740.00 <i>gallons</i>
269.71 <i>acre-inches</i>
14.20 <i>inches/acre</i>

Process wastewater applied
1,678,720.00 <i>gallons</i>
61.82 <i>acre-inches</i>
3.25 <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.

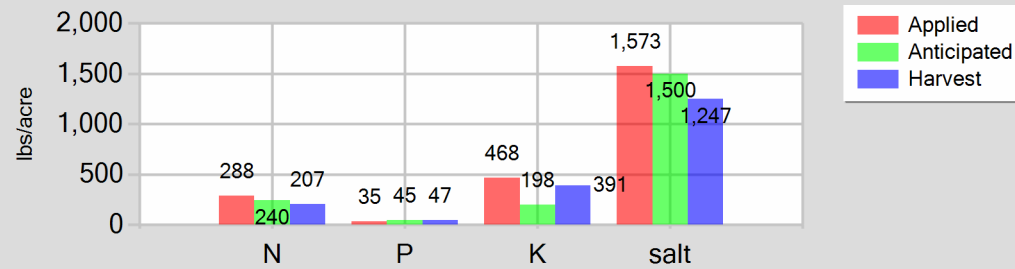
F-3 - 06/02/2023: Corn, silage

Field name: F-3

Crop: Corn, silage

Plant date: 06/02/2023

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	280.98	35.10	467.62	1,402.57
Fresh water	0.00	0.00	0.00	170.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.98	35.10	467.62	1,573.50
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	206.52	46.94	391.13	1,246.92
Nutrient balance	81.46	-11.83	76.49	326.58
Applied to removed ratio	1.39	0.75	1.20	1.26

Fresh water applied
19,458,084.00 <i>gallons</i>
716.58 <i>acre-inches</i>
37.71 <i>inches/acre</i>
Process wastewater applied
3,412,060.00 <i>gallons</i>
125.65 <i>acre-inches</i>
6.61 <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.

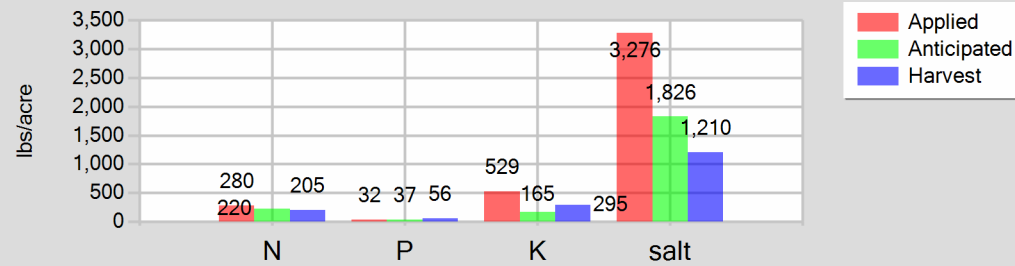
F-5 - 11/15/2022: Triticale, soft dough

Field name: F-5

Crop: Triticale, soft dough

Plant date: 11/15/2022

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	272.91	31.85	528.90	3,213.73
Fresh water	0.00	0.00	0.00	61.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.91	31.85	528.90	3,275.68
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	205.38	56.44	294.75	1,210.34
Nutrient balance	74.53	-24.59	234.15	2,065.33
Applied to removed ratio	1.36	0.56	1.79	2.71

Fresh water applied
27,835,470.00 gallons
1,025.09 acre-inches
13.67 inches/acre

Process wastewater applied
6,335,344.00 gallons
233.31 acre-inches
3.11 inches/acre

Total harvests for the crop
1 harvests

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

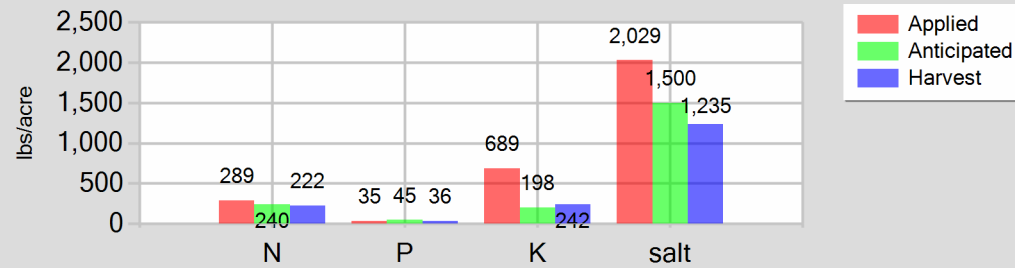
F-5 - 06/14/2023: Corn, silage

Field name: F-5

Crop: Corn, silage

Plant date: 06/14/2023

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	281.85	34.69	688.72	1,864.53
Fresh water	0.00	0.00	0.00	164.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.85	34.69	688.72	2,029.13
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	221.65	35.99	242.49	1,235.19
Nutrient balance	67.19	-1.31	446.23	793.93
Applied to removed ratio	1.30	0.96	2.84	1.64

Fresh water applied
73,965,660.00 <i>gallons</i>
2,723.90 <i>acre-inches</i>
36.32 <i>inches/acre</i>

Process wastewater applied
6,495,070.00 <i>gallons</i>
239.19 <i>acre-inches</i>
3.19 <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.

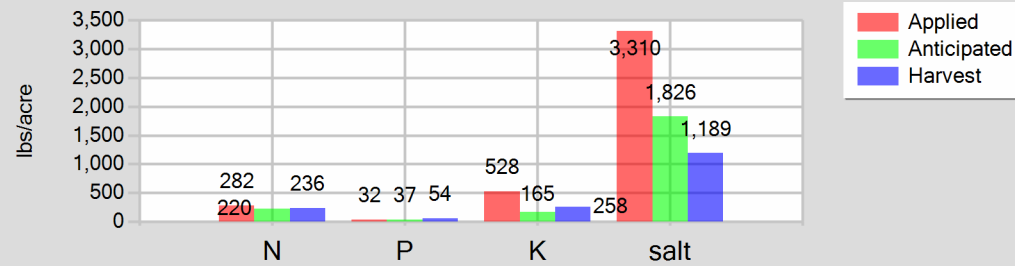
F-6 - 11/16/2022: Triticale, soft dough

Field name: F-6

Crop: Triticale, soft dough

Plant date: 11/16/2022

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	274.52	31.89	527.75	3,243.38
Fresh water	0.00	0.00	0.00	66.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	281.52	31.89	527.75	3,310.32
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	236.18	53.68	257.65	1,189.27
Nutrient balance	45.34	-21.79	270.10	2,121.06
Applied to removed ratio	1.19	0.59	2.05	2.78

Fresh water applied
30,884,480.00 <i>gallons</i>
1,137.37 <i>acre-inches</i>
14.77 <i>inches/acre</i>
Process wastewater applied
6,543,580.00 <i>gallons</i>
240.98 <i>acre-inches</i>
3.13 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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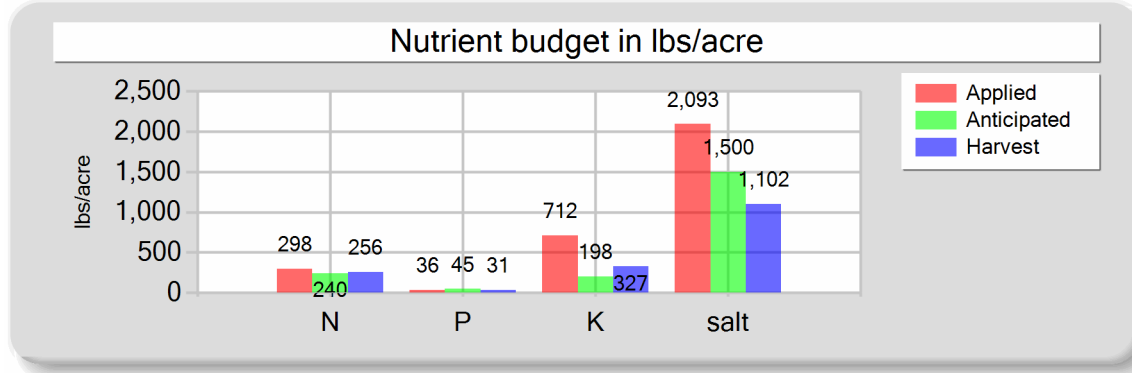
Reporting period 01/01/2023 to 12/31/2023.

F-6 - 06/04/2023: Corn, silage

Field name: F-6

Crop: Corn, silage

Plant date: 06/04/2023



	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	291.37	35.86	712.00	1,927.56
Fresh water	0.00	0.00	0.00	165.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.37	35.86	712.00	2,092.88
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	256.04	30.87	326.86	1,102.26
Nutrient balance	42.33	4.99	385.14	990.63
Applied to removed ratio	1.17	1.16	2.18	1.90

Fresh water applied
76,274,382.00 <i>gallons</i>
2,808.93 <i>acre-inches</i>
36.48 <i>inches/acre</i>

Process wastewater applied
6,893,690.00 <i>gallons</i>
253.87 <i>acre-inches</i>
3.30 <i>inches/acre</i>

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

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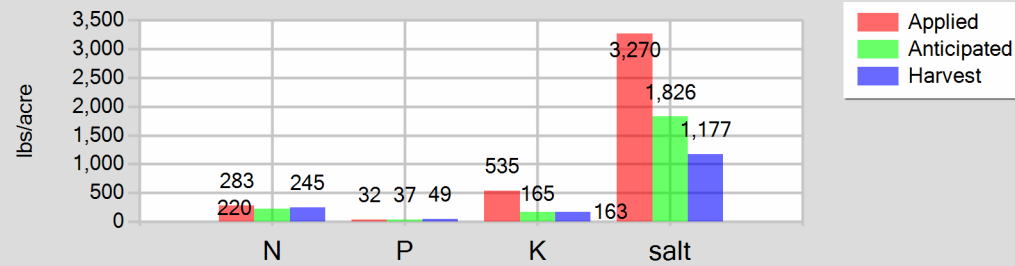
F-7 - 11/16/2022: Triticale, soft dough

Field name: F-7

Crop: Triticale, soft dough

Plant date: 11/16/2022

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	275.60	32.11	535.33	3,207.24
Fresh water	0.00	0.00	0.00	62.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	282.60	32.11	535.33	3,270.14
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	245.49	48.76	163.10	1,177.01
Nutrient balance	37.11	-16.66	372.23	2,093.13
Applied to removed ratio	1.15	0.66	3.28	2.78

Fresh water applied
28,642,470.00 gallons
1,054.80 acre-inches
13.88 inches/acre

Process wastewater applied
6,482,248.00 gallons
238.72 acre-inches
3.14 inches/acre

Total harvests for the crop
1 harvests

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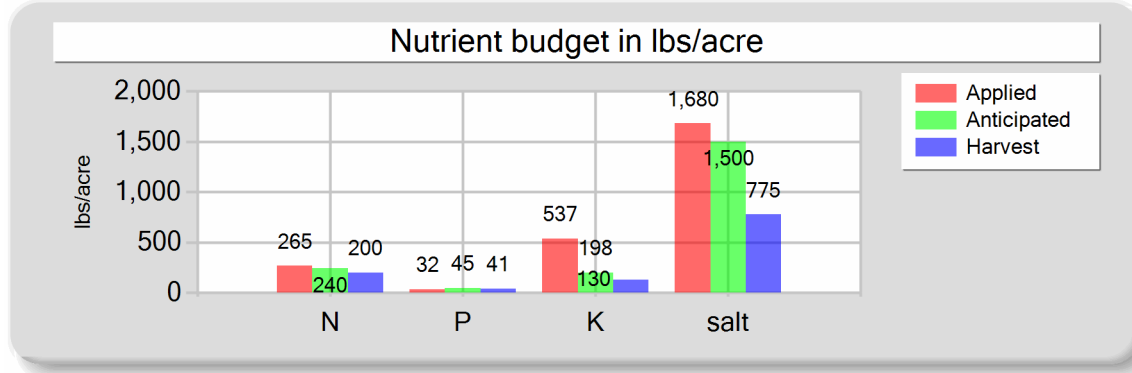
Reporting period 01/01/2023 to 12/31/2023.

F-7 - 06/16/2023: Corn, silage

Field name: F-7

Crop: Corn, silage

Plant date: 06/16/2023



	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	75,696,005.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,787.63 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.68 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	258.25	32.02	537.50	1,513.62	Process wastewater applied
Fresh water	0.00	0.00	0.00	166.23	9,066,740.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	333.90 <i>acre-inches</i>
Total nutrients applied	265.25	32.02	537.50	1,679.86	4.39 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	199.72	40.97	129.73	774.96	Total harvests for the crop
Nutrient balance	65.53	-8.95	407.77	904.89	1 <i>harvests</i>
Applied to removed ratio	1.33	0.78	4.14	2.17	

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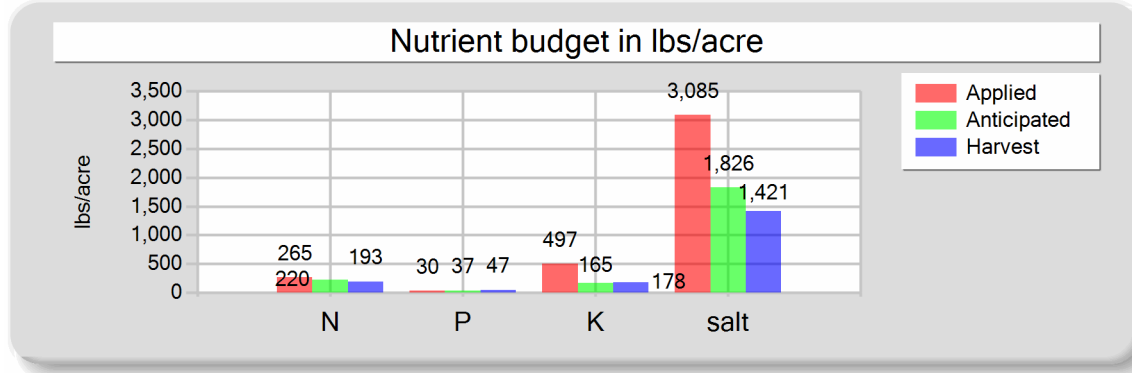
Reporting period 01/01/2023 to 12/31/2023.

F-8 - 11/16/2022: Triticale, soft dough

Field name: F-8

Crop: Triticale, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	257.52	29.96	497.18	3,026.09
Fresh water	0.00	0.00	0.00	59.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.52	29.96	497.18	3,085.34
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00
Actual crop nutrient removal	193.28	47.36	177.92	1,420.80
Nutrient balance	71.24	-17.40	319.26	1,664.54
Applied to removed ratio	1.37	0.63	2.79	2.17

Fresh water applied
3,905,010.00 <i>gallons</i>
143.81 <i>acre-inches</i>
13.07 <i>inches/acre</i>

Process wastewater applied
876,800.00 <i>gallons</i>
32.29 <i>acre-inches</i>
2.94 <i>inches/acre</i>

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

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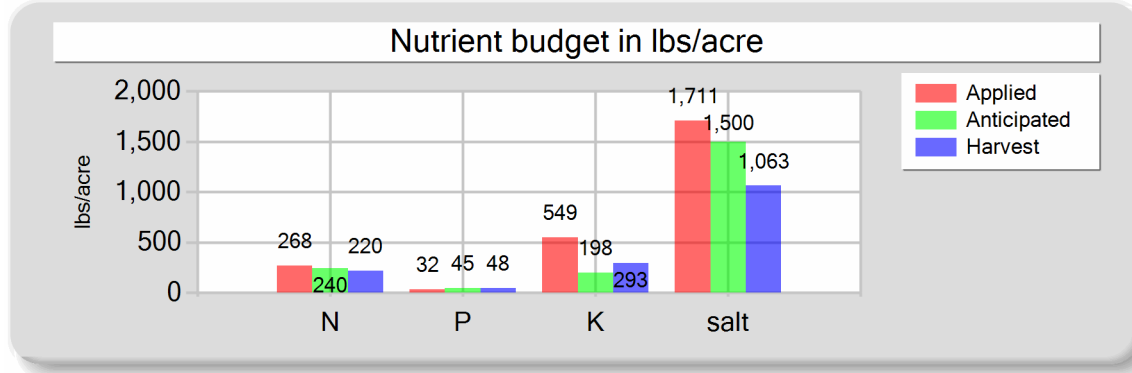
Reporting period 01/01/2023 to 12/31/2023.

F-8 - 06/06/2023: Corn, silage

Field name: F-8

Crop: Corn, silage

Plant date: 06/06/2023



	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	261.49	32.41	548.64	1,541.78
Fresh water	0.00	0.00	0.00	169.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	268.49	32.41	548.64	1,711.19
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	219.85	47.94	292.58	1,062.88
Nutrient balance	48.64	-15.53	256.06	648.31
Applied to removed ratio	1.22	0.68	1.88	1.61

Fresh water applied
11,165,782.00 <i>gallons</i>
411.20 <i>acre-inches</i>
37.38 <i>inches/acre</i>

Process wastewater applied
1,308,100.00 <i>gallons</i>
48.17 <i>acre-inches</i>
4.38 <i>inches/acre</i>

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

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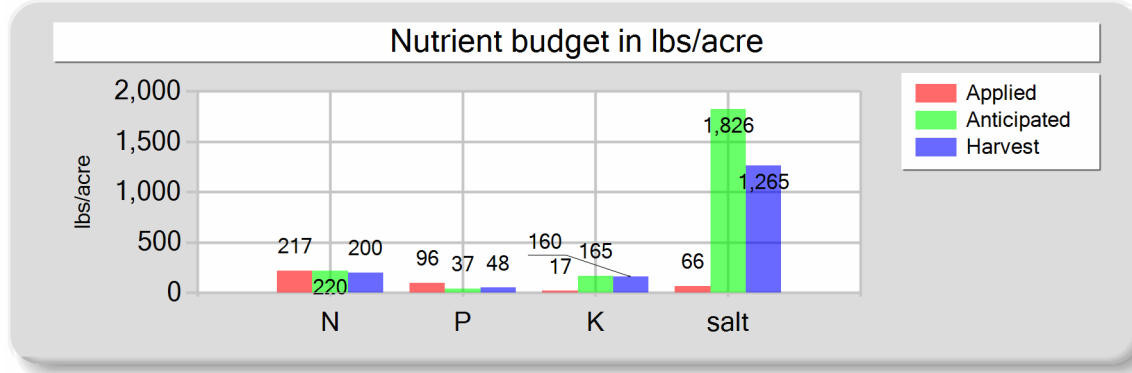
Reporting period 01/01/2023 to 12/31/2023.

F-9 - 11/17/2022: Triticale, soft dough

Field name: F-9

Crop: Triticale, soft dough

Plant date: 11/17/2022



	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	28,927,670.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,065.31 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.59 <i>inches/acre</i>
Dry manure	210.28	95.90	17.05	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	66.14	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	217.28	95.90	17.05	66.14	
Anticipated crop nutrient removal	220.00	37.40	165.00	1,826.00	
Actual crop nutrient removal	199.73	48.27	159.79	1,264.96	
Nutrient balance	17.55	47.64	-142.74	-1,198.83	
Applied to removed ratio	1.09	1.99	0.11	0.05	
					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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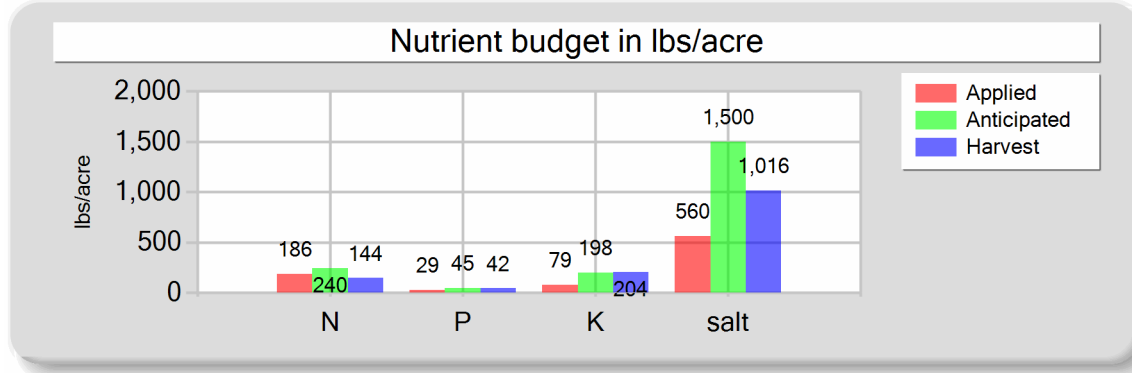
Reporting period 01/01/2023 to 12/31/2023.

F-9 - 06/07/2023: Corn, silage

Field name: F-9

Crop: Corn, silage

Plant date: 06/07/2023



	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	76,207,860.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,806.48 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.44 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	179.02	28.81	78.88	386.16	Process wastewater applied
Fresh water	0.00	0.00	0.00	174.23	600,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	22.10 <i>acre-inches</i>
Total nutrients applied	186.02	28.81	78.88	560.39	0.30 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	144.08	42.17	203.82	1,015.61	Total harvests for the crop
Nutrient balance	41.93	-13.36	-124.95	-455.22	1 <i>harvests</i>
Applied to removed ratio	1.29	0.68	0.39	0.55	

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Manure

Sample and source description: Manure

Sample date: 10/24/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.3 %

	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	26,900.00	5,100.00	48,100.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 05/01/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 55.6 %

	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	29,600.00	13,500.00	2,400.00							
DL	100.00	100.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/10/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 19.2 %

	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	27,200.00	6,900.00	20,000.00							
DL	100.00	100.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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

Lagoon

Sample and source description: LagoonSample date: 11/24/2022 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	385.00	323.00	0.00	0.00	45.80	632.00								9,830.00	6,520
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: LagoonSample date: 03/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.50

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	387.00	278.00	0.00	0.00	41.70	696.00								6,200.00	4,120
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: LagoonSample date: 05/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	390.00	380.00	0.00	0.00	48.00	953.00								3,890.00	2,580
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Slurry

Sample and source description: SlurrySample date: 05/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH ₄ -N (mg/L)	NH ₃ -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	2,610.00	280.00			420.00	1,150.00								8,480.00	5,630
DL	20.00	2.00			0.20	0.50								100.00	10

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Lagoon

Sample and source description: Lagoon

Sample date: 08/07/2023 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	108.00	13.00	0.00	0.00	13.80	61.00								440.00	292
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: 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	429.00	428.00	0.00	0.00	74.30	658.00								7,050.00	4,680
DL	10.00	2.00	0.10	0.10	0.10	0.50								100.00	10

C. FRESH WATER ANALYSES

D-1

Domestic Well

Sample description: Domestic Well

Sample date: 12/14/2023 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			4.30								373.00	
DL			0.40								1.00	

Pixley ID

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Pixley ID

Pixley ID

Sample description: Pixley ID

Sample date: 06/23/2023 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								42.00	20
DL	0.50	0.20	0.40								1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

F-1 - 11/14/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

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

Moisture: 68.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,800.00	4,200.00	23,800.00		8.81
DL	500.00	200.00	200.00		0.01

F-1 - 05/30/2023: Corn, silage

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F-1 - 05/30/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,800.00	2,000.00	16,000.00		6.17
DL	500.00	200.00	200.00		0.05

F-10 - 11/14/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	3,100.00	10,900.00		9.26
DL	500.00	200.00	200.00		0.01

F-10 - 05/30/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,900.00	13,600.00		6.16
DL	500.00	200.00	200.00		0.01

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

F-2 - 11/14/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	3,800.00	15,500.00		7.71
DL	500.00	200.00	200.00		0.01

F-2 - 06/15/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,000.00	2,400.00	12,800.00		5.08
DL	500.00	200.00	200.00		0.01

F-3 - 11/15/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

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

Moisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,700.00	3,600.00	15,700.00		8.26
DL	500.00	200.00	200.00		0.01

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

F-3 - 06/02/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	3,000.00	25,000.00		7.97
DL	500.00	200.00	200.00		0.01

F-5 - 11/15/2022: Triticale, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	3,600.00	18,800.00		7.72
DL	500.00	200.00	200.00		0.01

F-5 - 06/14/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	1,900.00	12,800.00		6.52
DL	500.00	200.00	200.00		0.01

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F-6 - 11/16/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

Sample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,800.00	4,500.00	21,600.00		9.97
DL	500.00	200.00	200.00		0.01

F-6 - 06/04/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,100.00	1,700.00	18,000.00		6.07
DL	500.00	200.00	200.00		0.05

F-7 - 11/16/2022: Triticale, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,600.00	2,900.00	9,700.00		7.00
DL	500.00	200.00	200.00		0.01

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F-7 - 06/16/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 10/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	2,400.00	7,600.00		4.54
DL	500.00	200.00	200.00		0.01

F-8 - 11/16/2022: Triticale, soft dough

Triticale

Sample and source description: Triticale

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,100.00	3,700.00	13,900.00		11.10
DL	500.00	200.00	200.00		0.01

F-8 - 06/06/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,300.00	2,900.00	17,700.00		6.43
DL	500.00	200.00	200.00		0.05

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F-9 - 11/17/2022: Triticale, soft dough

TriticaleSample and source description: TriticaleSample date: 05/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,900.00	9,600.00		7.60
DL	500.00	200.00	200.00		0.01

F-9 - 06/07/2023: Corn, silage

CornSample and source description: CornSample date: 10/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,200.00	2,400.00	11,600.00		5.78
DL	500.00	200.00	200.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES*No subsurface (tile) drainage analyses entered.*

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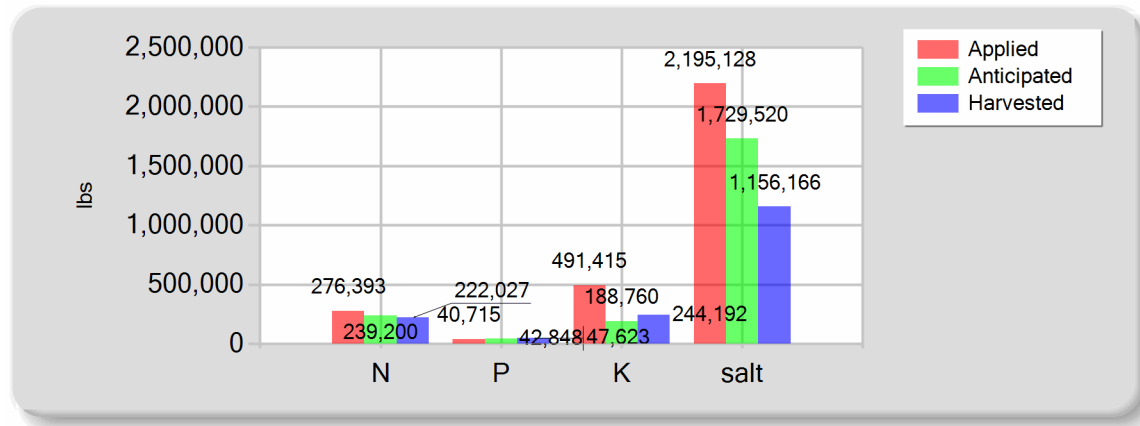
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

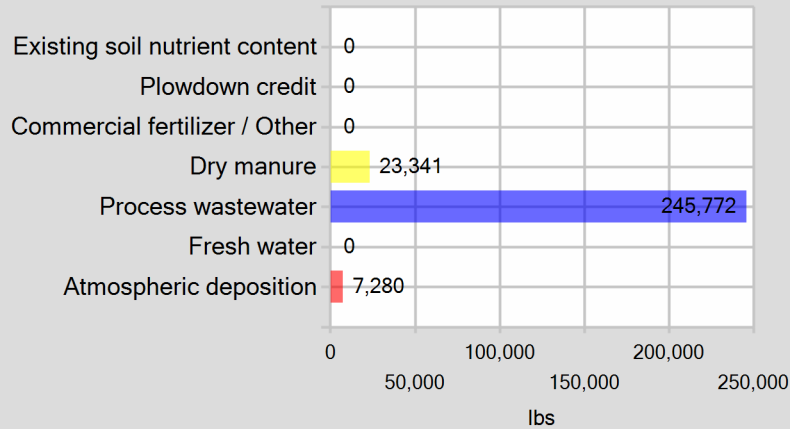
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	23,340.90	10,645.34	14,229.31	0.00
Process wastewater	245,771.73	30,069.37	477,185.27	2,066,839.12
Fresh water	0.00	0.00	0.00	128,288.76
Atmospheric deposition	7,280.00	0.00	0.00	0.00
Total nutrients applied	276,392.63	40,714.72	491,414.58	2,195,127.88
Anticipated crop nutrient removal	239,200.00	42,848.00	188,760.00	1,729,520.00
Actual crop nutrient removal	222,026.87	47,622.77	244,191.68	1,156,166.46
Nutrient balance	54,365.76	-6,908.05	247,222.90	1,038,961.42
Applied to removed ratio	1.24	0.85	2.01	1.90

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

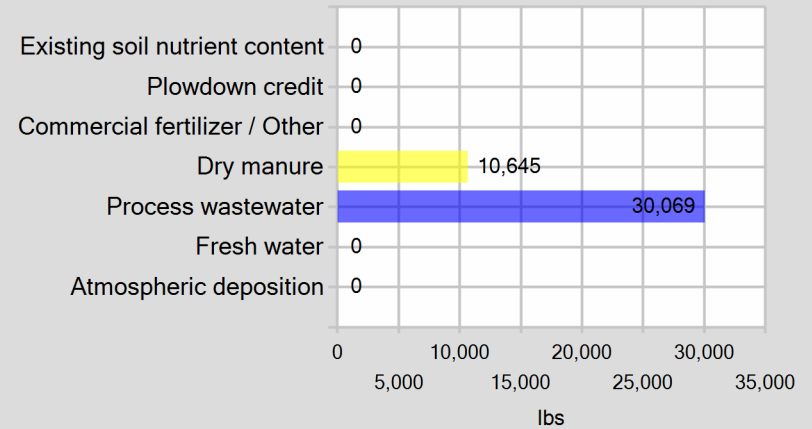


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

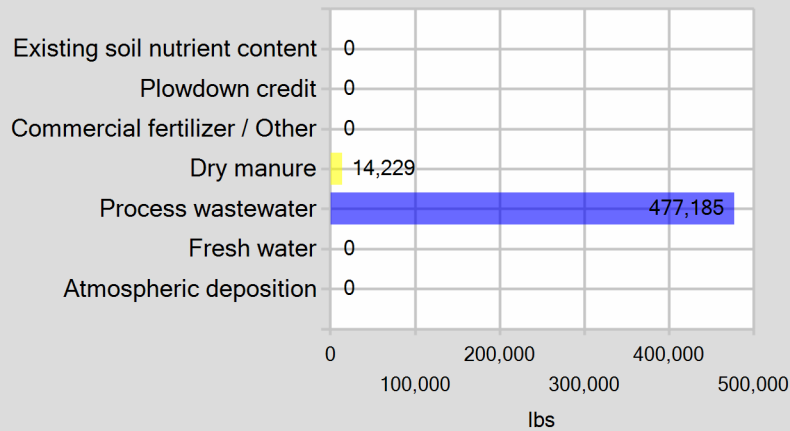
Pounds of nitrogen applied



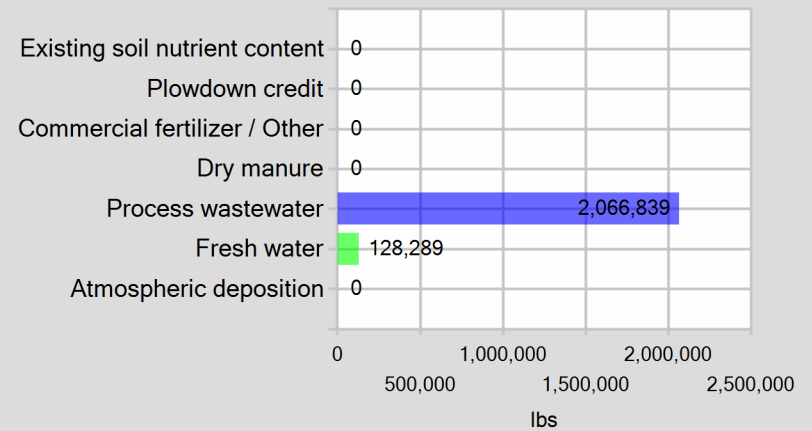
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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

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

ADDITIONAL NOTES

A. NOTES

Wells A-1, A-2, A-4, A-5, A-6, A-7 and D-2 were Out of Service in 2023.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Robert Vander Eyk

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME



DATE

6-17-2024

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.

July 11, 2023

Sentry Ag Services
 Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Lab No. : VI 2344189
Customer No. : 4019696
Reference : 3042

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Pixley I.D.	06/23/2023	06/23/2023	VI 2344189-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-07-11

July 11, 2023

Sentry Ag Services

Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Description : Pixley I.D.
 Project : Pixley I.D.

Lab No. : VI 2344189-001
 Customer No. : 4019696
 Reference : 3042
 Sampled On : June 23, 2023 at 09:00
 Sampled By : Klay
 Received On : June 23, 2023 at 10:28
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:47	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:47	lcr
Conductivity	42	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	22:11	sta
Solids, Total Dissolved (TDS)	20	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	ctl

DQF Flags Definition:

U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Corporate Offices & Laboratory

853 Corporation Street
 Santa Paula, CA 93060
 TEL: (805)392-2000
 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
 CA ELAP Certification No. 1573

Office & Laboratory

2500 Stagecoach Road
 Stockton, CA 95215
 TEL: (209)942-0182
 FAX: (209)942-0423
 CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue
 Chico, CA 95926
 TEL: (530)343-5818
 FAX: (530)343-3807
 CA ELAP Certification No. 2670

Office & Laboratory

3442 Empresa Drive, Suite D
 San Luis Obispo, CA 93401
 TEL: (805)783-2940
 FAX: (805)783-2912
 CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue
 Visalia, CA 93291
 TEL: (559)734-9473
 FAX: (559)734-8435
 CA ELAP Certification No. 2810

July 11, 2023
Sentry Ag Service

Lab No. : VI 2344189
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL (STK2338352-001) (STK2338352-001)	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
			Dup	mg/L		3.55%	5	
			Dup	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA (VI 2343914-005) (VI 2343914-006)	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		102%	73-124	
			MS	mg/L		89.5%	54-136	
			MSD	mg/L		96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L		97.0%	54-136	
			MSD	mg/L		98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	5.609	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	5.609	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	

Definition

- Blank** : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
- DQO** : Data Quality Objective - This is the criteria against which the quality control data is compared.
- Dup** : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
- LCS** : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
- MS** : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSD** : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
- MSRPD** : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
- ND** : Non-detect - Result was below the DQO listed for the analyte.



Laboratory Analysis Work Order 2344189

3042

SITE NAME: Pixley I.D.

LABORATORY: VT | FGL 4-19696

Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
- W2 EC, NO₃N, TDS, TN (Irr)
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
- L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N *	pH	Temp
1	Pixley I.D.	Canal	W2	6/23/23 9:00	Klay	-		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<i>[Signature]</i>	<i>[Signature]</i>		6/23/23 10:28
2 nd	<i>[Signature]</i>	FGL	6-23-2023 1028	
3 rd	<i>[Signature]</i>	FGL		6-23-2023 1028
4 th	<i>[Signature]</i>		6-23-2023 1730	6-23-2023 1730

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: _____

6.6°
ROT

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 6.6° ROT / 1 / 1 / 1

Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC? ☒ Yes No N/A

4. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes No

5. VOAs checked for Headspace? Yes No ☒ N/A

6. Were sample custody seals intact? Yes No ☒ N/A

7. If required, was sample split for pH analysis? Yes No ☒ N/A

8. Were all analyses within holding times at time of receipt? ☒ Yes No

9. Verify sample date, time and sampler name ☒ Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials) CS

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 1 / 1 / 1 / 1 / 1
Acceptable is above freezing to 6°C . If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:

559648785 / 7 / 60 / 64 / 75

3. Do the number of bottles received agree with the COC? ☒ Yes No N/A

4. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes No

5. Were sample custody seals intact? Yes No ☒ N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? ☒ Yes No

2. Did bottle labels correspond with the client's ID's? ☒ Yes No

3. Were all bottles requiring sample preservation properly preserved? ☒ Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]

4. VOAs checked for Headspace? Yes No ☒ N/A

5. Have rush or project due dates been checked and accepted? Yes No ☒ N/A

6. Were all analyses within holding times at time of receipt? ☒ Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): CS

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____

2. Person Contacted: _____

Initiated By: _____

Problem: _____

Resolution: _____

(Please use the back of this sheet for additional c contacts)

(4019696)
Sentry Ag Service
VI 2344189

iv 06/24/2023 09:55:05



01 2344189

December 22, 2023

Sentry Ag Services
 Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Lab No. : VI 2348546
Customer No. : 4019696
Reference : 3491

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
D1	12/14/2023	12/14/2023	VI 2348546-001	DW

Sampling and Receipt Information:

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


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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2023-12-24

December 22, 2023

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : D1

Project : Robert Vander Eyk Dairy

Lab No. : VI 2348546-001

Customer No. : 4019696

Reference : 3491

Sampled On : December 14, 2023 at 07:22

Sampled By : Brandon

Received On : December 14, 2023 at 13:37

Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	4.3	0.4	mg/L	10	1		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:29	lfs
Conductivity	373	1	umhos/cm	1600 ²	1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	11:41	krh

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

Corporate Offices & Laboratory

853 Corporation Street

Santa Paula, CA 93060

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Env FAX: (805)525-4172 / Ag FAX: (805)392-2063

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Office & Laboratory

2500 Stagecoach Road

Stockton, CA 95215

TEL: (209)942-0182

FAX: (209)942-0423

CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue

Chico, CA 95926

TEL: (530)343-5818

FAX: (530)343-3807

CA ELAP Certification No. 2670

Office & Laboratory

3442 Empresa Drive, Suite D

San Luis Obispo, CA 93401

TEL: (805)783-2940

FAX: (805)783-2912

CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue

Visalia, CA 93291

TEL: (559)734-9473

FAX: (559)734-8435

CA ELAP Certification No. 2810

December 22, 2023
Sentry Ag Service

Lab No. : VI 2348546
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348655-001)	Dup	umhos/cm		0.07%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
		(VI 2348536-001)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

Definition

Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup	: Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS	: Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.



Laboratory Analysis Work Order

3491

SITE NAME: Robert Vander Eyk Dairy

2348546
LABORATORY: VT | FGL 4-19696

Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
W2 EC, NO₃N, TDS, TN (Irr)
W3 NH₄-N (Ammonium)
W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
P2 TN, P, K (Mid-season - Corn)
P3 TN, TP, TK, Ash, %M (At Harvest)
P4 TN, %M
P5 % Moisture
P6 NIR
P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
S2 S1 + CEC, CaCO₃, OM, C:N, TN
S3 NO₃N, NH₄N
S4 Other: _____

10.0°C
ROT
TH407

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N*	pH	Temp
1	D1	domestic well	W1	12/14/23 7:12am	Brindor	0		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st		SAS		12/14/23 13:37
2 nd	ADP	FGL	12/14/23 13:37	
3 rd	ASB	FGL		12/14/23 17:30
4 th	GCS	GCS	12/14/23 17:30	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No. 1015103
115

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): 02

2. Temp IR Gun ID #: 451

3. Were samples received on ice? Yes No Temps: 100°C / / /

Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

6. VOAs checked for Headspace? Yes No N/A

7. Were all analyses within holding times at time of receipt? Yes No

8. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): AB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): 500137374, 500139463
500139454

2. Temp IR Gun ID #: 204

3. Were samples received on ice? Yes No Temps: 1 / 1 / 1 / /

Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC? Yes No N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No

2. Did bottle labels correspond with the client's ID's? Yes No

3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL

[Exception: Oil & Grease, VOA and CrVI verified in lab]

4. VOAs checked for Headspace? Yes No N/A

5. Have rush or project due dates been checked and accepted? Yes No N/A

6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): ll

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____

2. Person Contacted: _____ Phone Number: _____

Initiated By: _____

Problem: _____

Resolution: _____

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ATTACHMENT D

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

Instructions:

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

Operator Information:				
Name of Operator: <u>Robert Vander Eyk</u>				
Name of Dairy Facility: <u>Robert Vander Eyk Dairy</u>				
Facility Address: <u>9441 Ave 104</u> <u>Pixley</u> <u>CA</u> <u>93254</u>				
		<small>Number and Street</small>	<small>City</small>	<small>Zip Code</small>
Contact Person Name and Phone Number: <u>Bob</u> <u>(559) 909 3195</u>				
		<small>Name</small>	<small>Phone Number</small>	
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>Same</u>				
Address of Hauling Company /Person: _____				
		<small>Number and Street</small>	<small>City</small>	<small>Zip Code</small>
Contact Person: <u>Same</u>				
		<small>Name</small>	<small>Phone Number</small>	
Destination Information:				
Composting Facility / Broker <input checked="" type="radio"/> Farmer <input type="radio"/> Other (identify) _____ (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
<u>Tony Azevedo</u> <u>P.O. Box 146</u> <u>Stratford</u> <u>CA</u> <u>93266</u> <u>(559) 816 7015</u>				
<small>Name</small>	<small>Number and Street</small>	<small>City</small>	<small>Zip Code</small>	<small>Phone Number</small>
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
<u>Houston Ave & 27th Ave</u> <u>Lemoore</u> <u>CA</u>				
<small>Number and Street</small>	<small>City</small>	<small>Zip Code</small>	<small>Assessor's Parcel Number</small>	
Dates Hauled: <u>February - November 2023</u>				
Amount Hauled:				
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>7794.25</u> <input checked="" type="radio"/> Tons or Cubic Yards (indicate which units used)				
Manure Solids Content (if amount reported in tons): _____				
Manure Density (if amount reported in cubic yards): _____				

Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

Method used to determine amount of manure: TRUCK SCALE

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

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

☐ Yes ☐ No

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

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

Certification:

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

Operator's Signature: Robt Vanden Zyl

Date: 11-19-2023

Hauler's Signature: Robt Vanden Zyl

Date: 11-19-2023