

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: SOZINHO DAIRY #2

Physical address of dairy:

8489 E. Elkhorn AVE

Number and Street

Selma

Fresno

93662

City

County

Zip Code

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

Date facility was originally placed in operation: 06/20/1988

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0056-0030-0008-0000

B. OPERATORS

Sozinho, Danny

Operator name: Sozinho, Danny

Telephone no.: (559) 582-5377 (559) 381-5485

Landline Cellular

8489 E Elkhorn AVE

Selma

CA

93662

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Sozinho Family Trust

Legal owner name: Sozinho Family Trust

Telephone no.: (559) 582-5377

Landline Cellular

11447 8 1/2 AVE

Hanford

CA

93230

Mailing Address Number and Street

City

State

Zip Code

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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	196	535	281	0	32
Number under roof	1,163	0	0	0	0	0
Maximum number	1,183	204	541	290	0	34
Average number	1,163	196	535	281	0	32
Avg live weight (lbs)	1,400	1,200	1,100	900		

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 41,224.12 tons per reporting period

Total nitrogen from manure: 504,890.66 lbs per reporting period

After ammonia losses (30% loss applied): 353,423.46 lbs per reporting period

Total phosphorus from manure: 83,974.85 lbs per reporting period

Total potassium from manure: 222,725.23 lbs per reporting period

Total salt from manure: 592,668.75 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 28,382,000 gallons

Total nitrogen generated: 79,163.03 lbs

$$\begin{aligned}
 & 28,382,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 28,382,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 9,243.09 lbs

Total potassium generated: 79,407.01 lbs

Total salt generated: 437,259.12 lbs

D. FRESH WATER SOURCES

Source Description	Type
05E	Ground water
1E	Ground water
Canal	Surface water
Dairy Well (Dom)	Ground water
Domestic Well	Ground water

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Source Description	Type
S. Dairy Well	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 01E	15	15	2	both	0056-0030-0008-0000
Field 03E	4	4	2	both	0056-0030-0008-0000
Field 1E	40	40	2	both	0056-0030-0048-0000
Field 2E	40	40	2	both	0056-0030-0048-0000
Field 3E	40	40	2	both	0056-0030-0008-0000
Field 4E	40	40	2	both	0056-0030-0008-0000
Field 5E	40	40	2	both	0056-0030-0048-0000
Field 6E	40	40	2	both	0056-0030-0048-0000
Totals for areas that were used for application	259	259	16		
Totals for areas that were not used for application					
Land application area totals	259	259	16		

B. CROPS AND HARVESTS

Field 01E

Field name: Field 01E

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 15 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	270.00 ton	Dry-weight		54.8	22,910.00	3,680.00	24,500.00		11.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.00	372.79	59.88	398.66	1,822.46

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Field 01E

05/15/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	375.00 <i>ton</i>	Dry-weight		66.7	15,680.00	3,200.00	21,300.00		8.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	261.07	53.28	354.65	1,481.85

Field 03E

Field name: Field 03E

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 4 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	64.00 <i>ton</i>	Dry-weight		70.3	33,480.00	3,200.00	20,600.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	16.00	318.19	30.41	195.78	988.42

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 4 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	110.00 <i>ton</i>	Dry-weight		66.7	15,680.00	3,200.00	21,300.00		8.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	27.50	287.18	58.61	390.11	1,630.04

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Field 1E

Field name: Field 1E

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/10/2023	680.00 ton	Dry-weight		63.1	31,780.00	3,120.00	20,900.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.00	398.71	39.14	262.21	1,267.15

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,100.00 ton	Dry-weight		68.8	17,740.00	2,560.00	22,200.00		7.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	27.50	304.42	43.93	380.95	1,201.20

Field 2E

Field name: Field 2E

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/10/2023	700.00 ton	Dry-weight		63.1	31,780.00	3,120.00	20,900.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.50	410.44	40.29	269.92	1,304.42

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Field 2E

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,120.00 <i>ton</i>	Dry-weight		67.6	14,010.00	3,550.00	19,000.00		8.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	28.00	254.20	64.41	344.74	1,505.95

Field 3E

Field name: Field 3E

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	720.00 <i>ton</i>	Dry-weight		69.1	33,700.00	3,440.00	20,300.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.00	374.88	38.27	225.82	1,056.78

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,180.00 <i>ton</i>	Dry-weight		66.7	15,680.00	3,200.00	21,300.00		8.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	29.50	308.06	62.87	418.48	1,748.58

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Field 4E

Field name: Field 4E

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

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/10/2023	680.00 ton	Dry-weight		56.3	28,950.00	3,320.00	22,400.00		12.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.00	430.14	49.33	332.82	1,812.68

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,080.00 ton	Dry-weight		69.6	18,260.00	3,510.00	21,400.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	27.00	299.76	57.62	351.30	1,346.11

Field 5E

Field name: Field 5E

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

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/10/2023	720.00 ton	Dry-weight		55.5	34,890.00	3,640.00	22,000.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.00	558.94	58.31	352.44	1,810.26

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Field 5E

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,100.00 <i>ton</i>	Dry-weight		69.6	18,260.00	3,510.00	21,400.00		8.20
		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content		25.00				200.00	37.50	165.00	0.00
Total actual harvest content		27.50				305.31	58.69	357.81	1,371.04

Field 6E

Field name: Field 6E

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	740.00 <i>ton</i>	Dry-weight		55.5	38,600.00	3,690.00	21,900.00		10.40
		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content		15.00				165.00	25.50	124.50	0.00
Total actual harvest content		18.50				635.55	60.76	360.58	1,712.36

05/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,200.00 <i>ton</i>	Dry-weight		67.9	17,030.00	2,810.00	20,700.00		6.00
		Yield (tons/acre)				Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content		25.00				200.00	37.50	165.00	0.00
Total actual harvest content		30.00				328.00	54.12	398.68	1,155.60

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

Field 01E - 11/09/2022: Wheat, silage, soft dough

Field name: Field 01E

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	328.71	78.90	226.46	4,191.26	90.00 ton
Application event totals		328.71	78.90	226.46	4,191.26	
11/15/2022	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
Wastewater	Process wastewater	85.49	7.77	91.33	438.35	240,000.00 gal
1E	Ground water	15.49	0.00	0.00	493.69	870,000.00 gal
05E	Ground water	11.13	0.00	0.00	348.49	870,000.00 gal
Application event totals		112.11	7.77	91.33	1,280.52	

Field 01E - 05/15/2023: Corn, silage

Field name: Field 01E

Crop: Corn, silage

Plant date: 05/15/2023

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
Canal	Surface water	0.00	0.00	0.00	64.99	1,770,000.00 gal
Application event totals		0.00	0.00	0.00	64.99	

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Field 01E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	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
Wastewater	Process wastewater	103.15	17.88	159.82	866.89	432,000.00 gal
Canal	Surface water	0.00	0.00	0.00	116.98	3,186,000.00 gal
Application event totals		103.15	17.88	159.82	983.88	
07/01/2023	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
Canal	Surface water	0.00	0.00	0.00	155.98	4,248,000.00 gal
Application event totals		0.00	0.00	0.00	155.98	
07/21/2023	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
Wastewater	Process wastewater	70.34	4.39	21.79	159.26	576,000.00 gal
Canal	Surface water	0.00	0.00	0.00	155.98	4,248,000.00 gal
Application event totals		70.34	4.39	21.79	315.24	
08/15/2023	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
Canal	Surface water	0.00	0.00	0.00	155.98	4,248,000.00 gal
Application event totals		0.00	0.00	0.00	155.98	

Field 03E - 11/09/2022: Wheat, silage, soft dough

Field name: Field 03E

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 03E - 11/09/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	328.71	78.90	226.46	4,191.26	24.00 ton
Application event totals		328.71	78.90	226.46	4,191.26	
11/21/2022	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
Wastewater	Process wastewater	66.79	6.07	71.35	342.46	50,000.00 gal
05E	Ground water	29.04	0.00	0.00	925.67	435,000.00 gal
Application event totals		95.83	6.07	71.35	1,268.13	

Field 03E - 05/15/2023: Corn, silage

Field name: Field 03E

Crop: Corn, silage

Plant date: 05/15/2023

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
Canal	Surface water	0.00	0.00	0.00	61.96	450,000.00 gal
Application event totals		0.00	0.00	0.00	61.96	
06/10/2023	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
Wastewater	Process wastewater	214.91	37.25	332.97	1,806.02	240,000.00 gal
Canal	Surface water	0.00	0.00	0.00	123.92	900,000.00 gal
Application event totals		214.91	37.25	332.97	1,929.95	

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Field 03E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	148.71	1,080,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	148.71	1,080,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	148.71	1,080,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	

Field 1E - 11/15/2022: Wheat, silage, soft dough

Field name: Field 1E

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Dry Manure	Corral solids	438.29	105.20	301.95	5,588.35	320.00 ton
Application event totals		438.29	105.20	301.95	5,588.35	
11/21/2022	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
Wastewater	Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gal
1E	Ground water	29.00	0.00	0.00	924.39	4,344,000.00 gal
Application event totals		105.94	6.99	82.19	1,318.90	

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Field 1E - 05/15/2023: Corn, silage

Field name: Field 1E

Crop: Corn, silage

Plant date: 05/15/2023

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
Canal	Surface water	0.00	0.00	0.00	63.34	4,600,000.00 gal
Application event totals		0.00	0.00	0.00	63.34	
06/11/2023	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
Wastewater	Process wastewater	107.45	18.63	166.48	903.01	1,200,000.00 gal
Canal	Surface water	0.00	0.00	0.00	121.86	8,850,000.00 gal
Application event totals		107.45	18.63	166.48	1,024.87	
07/02/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	146.23	10,620,000.00 gal
Application event totals		65.95	4.12	20.43	295.54	
07/22/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	146.50	10,640,000.00 gal
Application event totals		65.95	4.12	20.43	295.81	
08/16/2023	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
Canal	Surface water	0.00	0.00	0.00	146.23	10,620,000.00 gal
Application event totals		0.00	0.00	0.00	146.23	

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

Field 2E - 11/15/2022: Wheat, silage, soft dough

Field name: Field 2E

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	438.29	105.20	301.95	5,588.35	320.00 ton
Application event totals		438.29	105.20	301.95	5,588.35	
11/21/2022	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
Wastewater	Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gal
1E	Ground water	28.36	0.00	0.00	903.96	4,248,000.00 gal
Application event totals		105.30	6.99	82.19	1,298.48	

Field 2E - 05/15/2023: Corn, silage

Field name: Field 2E

Crop: Corn, silage

Plant date: 05/15/2023

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
Canal	Surface water	0.00	0.00	0.00	60.58	4,400,000.00 gal
Application event totals		0.00	0.00	0.00	60.58	
06/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	103.15	17.88	159.82	866.89	1,152,000.00 gal
Canal	Surface water	0.00	0.00	0.00	119.79	8,700,000.00 gal
Application event totals		103.15	17.88	159.82	986.68	

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Field 2E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
07/24/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
08/19/2023	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
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	

Field 3E - 11/09/2022: Wheat, silage, soft dough

Field name:	Field 3E	Plant date:	11/09/2022	
Crop:	Wheat, silage, soft dough			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Dry Manure	Corral solids	438.29	105.20	301.95
Application event totals		438.29	105.20	301.95
				5,588.35
				320.00 ton
				5,588.35

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Field 3E - 11/09/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	40.07	3.64	42.81	205.47	300,000.00 gal
05E	Ground water	20.87	0.00	0.00	653.41	4,350,000.00 gal
Application event totals		60.95	3.64	42.81	858.89	

Field 3E - 05/15/2023: Corn, silage

Field name: Field 3E

Crop: Corn, silage

Plant date: 05/15/2023

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
Canal	Surface water	0.00	0.00	0.00	59.90	4,350,000.00 gal
Application event totals		0.00	0.00	0.00	59.90	
06/10/2023	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
Wastewater	Process wastewater	161.18	27.94	249.72	1,354.52	1,800,000.00 gal
Canal	Surface water	0.00	0.00	0.00	119.79	8,700,000.00 gal
Application event totals		161.18	27.94	249.72	1,474.31	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	102.22	6.38	31.66	231.43	2,232,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.54	10,788,000.00 gal
Application event totals		102.22	6.38	31.66	379.97	

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Field 3E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	148.54	10,788,000.00 gal
Application event totals		0.00	0.00	0.00	148.54	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	153.33	11,136,000.00 gal
Application event totals		0.00	0.00	0.00	153.33	

Field 4E - 11/16/2022: Wheat, silage, soft dough

Field name: Field 4E

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Dry Manure	Corral solids	438.29	105.20	301.95	5,588.35	320.00 ton
Application event totals		438.29	105.20	301.95	5,588.35	
11/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gal
1E	Ground water	29.00	0.00	0.00	924.39	4,344,000.00 gal
Application event totals		105.94	6.99	82.19	1,318.90	

Field 4E - 05/15/2023: Corn, silage

Field name: Field 4E

Crop: Corn, silage

Plant date: 05/15/2023

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Field 4E - 05/15/2023: Corn, silage

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
Canal	Surface water	0.00	0.00	0.00	59.48	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	59.48	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	103.15	17.88	159.82	866.89	1,152,000.00 gal
Canal	Surface water	0.00	0.00	0.00	118.97	8,640,000.00 gal
Application event totals		103.15	17.88	159.82	985.86	
07/07/2023	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
Wastewater	Process wastewater	128.94	22.35	199.78	1,083.61	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		128.94	22.35	199.78	1,232.32	
07/27/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
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
Canal	Surface water	0.00	0.00	0.00	173.49	12,600,000.00 gal
Application event totals		0.00	0.00	0.00	173.49	

Field 5E - 11/17/2022: Wheat, silage, soft dough

Field name: Field 5E

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022

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

Field 5E - 11/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Dry Manure	Corral solids	438.29	105.20	301.95	5,588.35	320.00 ton
Application event totals		438.29	105.20	301.95	5,588.35	
11/23/2022	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
Wastewater	Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gal
1E	Ground water	29.00	0.00	0.00	924.39	4,344,000.00 gal
Application event totals		105.94	6.99	82.19	1,318.90	

Field 5E - 05/15/2023: Corn, silage

Field name: Field 5E

Crop: Corn, silage

Plant date: 05/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	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
Canal	Surface water	0.00	0.00	0.00	59.76	4,340,000.00 gal
Application event totals		0.00	0.00	0.00	59.76	
06/17/2023	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
Wastewater	Process wastewater	103.15	17.88	159.82	866.89	1,152,000.00 gal
Canal	Surface water	0.00	0.00	0.00	118.42	8,600,000.00 gal
Application event totals		103.15	17.88	159.82	985.31	

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Field 5E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/09/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
07/29/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
08/25/2023	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
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	

Field 6E - 11/18/2022: Wheat, silage, soft dough

Field name:	Field 6E	Plant date:	11/18/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/15/2022	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
Dry Manure	Corral solids	767.00	184.11	528.41	9,779.62	560.00 ton
Application event totals		767.00	184.11	528.41	9,779.62	

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Field 6E - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/24/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
1E	Ground water	28.04	0.00	0.00	893.75
Application event totals		28.04	0.00	0.00	893.75
					4,200,000.00 gal

Field 6E - 05/15/2023: Corn, silage

Field name: Field 6E

Crop: Corn, silage

Plant date: 05/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	60.58
Application event totals		0.00	0.00	0.00	60.58
06/19/2023	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)
Wastewater	Process wastewater	103.15	17.88	159.82	866.89
Canal	Surface water	0.00	0.00	0.00	119.79
Application event totals		103.15	17.88	159.82	986.68
07/12/2023	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)
Wastewater	Process wastewater	65.95	4.12	20.43	149.31
Canal	Surface water	0.00	0.00	0.00	148.71
Application event totals		65.95	4.12	20.43	298.02
					10,800,000.00 gal

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Field 6E - 05/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	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
Wastewater	Process wastewater	65.95	4.12	20.43	149.31	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		65.95	4.12	20.43	298.02	
08/28/2023	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
Canal	Surface water	0.00	0.00	0.00	148.71	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	148.71	

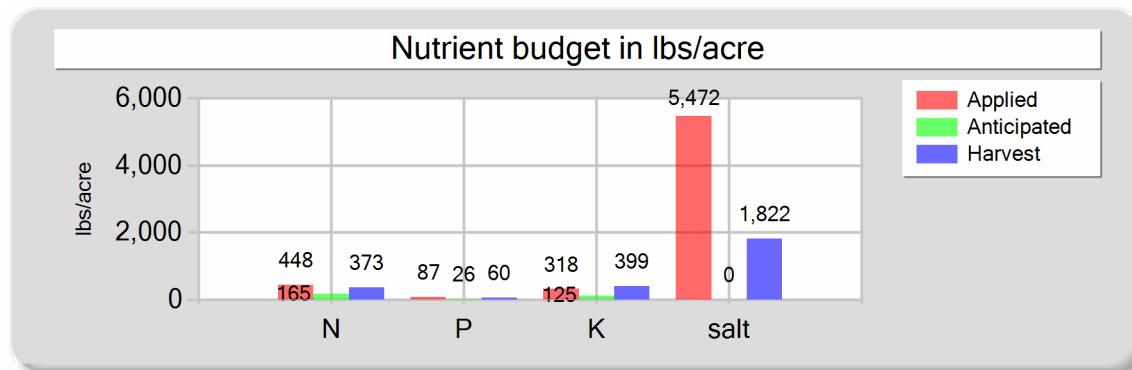
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B. NUTRIENT BUDGET

Field 01E - 11/09/2022: Wheat, silage, soft dough

Field name: Field 01E	Crop: Wheat, silage, soft dough	Plant date: 11/09/2022
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	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	328.71	78.90	226.46	4,191.26
Process wastewater	85.49	7.77	91.33	438.35
Fresh water	26.62	0.00	0.00	842.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	447.83	86.67	317.79	5,471.79
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	372.79	59.88	398.66	1,822.46
Nutrient balance	75.03	26.79	-80.88	3,649.32
Applied to removed ratio	1.20	1.45	0.80	3.00

Fresh water applied
1,740,000.00 gallons
64.08 acre-inches
4.27 inches/acre
Process wastewater applied
240,000.00 gallons
8.84 acre-inches
0.59 inches/acre
Total harvests for the crop
1 harvests

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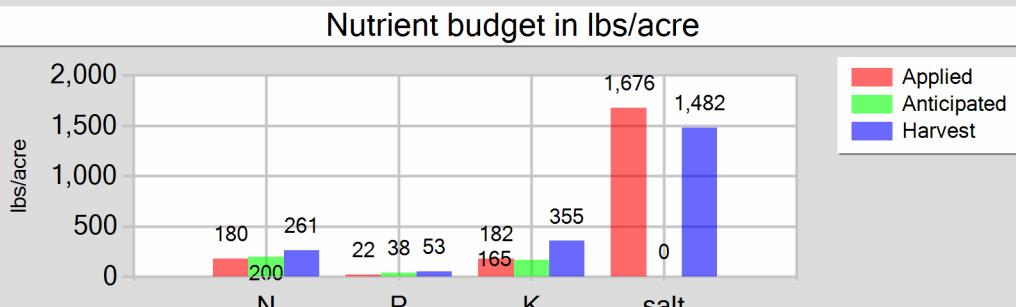
Reporting period 01/01/2023 to 12/31/2023.

Field 01E - 05/15/2023: Corn, silage

Field name: Field 01E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	173.50	22.27	181.61	1,026.15
Fresh water	0.00	0.00	0.00	649.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	180.50	22.27	181.61	1,676.06
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	261.07	53.28	354.65	1,481.85
Nutrient balance	-80.57	-31.01	-173.03	194.21
Applied to removed ratio	0.69	0.42	0.51	1.13

Fresh water applied

17,700,000.00 gallons
651.83 acre-inches
43.46 inches/acre

Process wastewater applied

1,008,000.00 gallons
37.12 acre-inches
2.47 inches/acre

Total harvests for the crop

1 harvests

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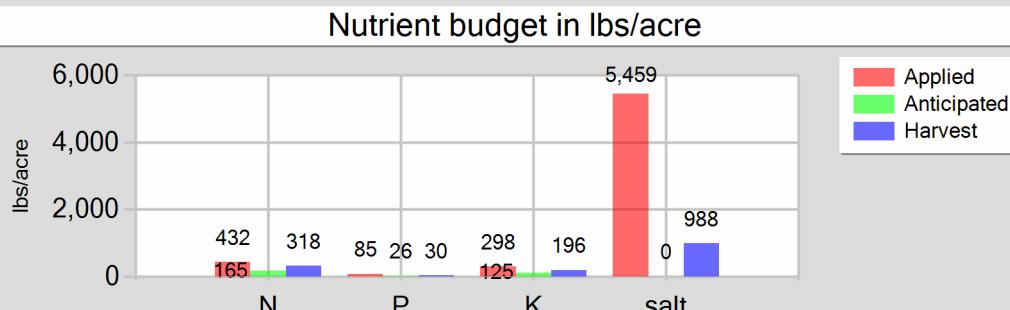
Reporting period 01/01/2023 to 12/31/2023.

Field 03E - 11/09/2022: Wheat, silage, soft dough

Field name: Field 03E

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022



	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	328.71	78.90	226.46	4,191.26
Process wastewater	66.79	6.07	71.35	342.46
Fresh water	29.04	0.00	0.00	925.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	431.54	84.97	297.81	5,459.39
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	318.19	30.41	195.78	988.42
Nutrient balance	113.35	54.56	102.03	4,470.98
Applied to removed ratio	1.36	2.79	1.52	5.52

Fresh water applied

435,000.00 gallons
16.02 acre-inches
4.00 inches/acre

Process wastewater applied

50,000.00 gallons
1.84 acre-inches
0.46 inches/acre

Total harvests for the crop

1 harvests

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

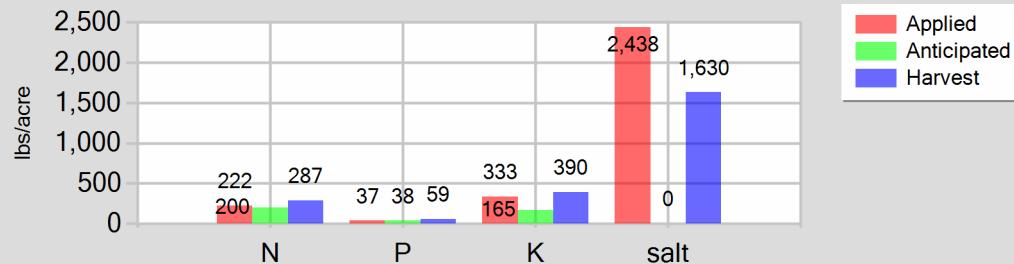
Field 03E - 05/15/2023: Corn, silage

Field name: Field 03E

Crop: Corn, silage

Plant date: 05/15/2023

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	214.91	37.25	332.97	1,806.02
Fresh water	0.00	0.00	0.00	632.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	221.91	37.25	332.97	2,438.03
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	287.18	58.61	390.11	1,630.04
Nutrient balance	-65.27	-21.36	-57.14	808.00
Applied to removed ratio	0.77	0.64	0.85	1.50

Fresh water applied

4,590,000.00 gallons
169.03 acre-inches
42.26 inches/acre

Process wastewater applied

240,000.00 gallons
8.84 acre-inches
2.21 inches/acre

Total harvests for the crop

1 harvests

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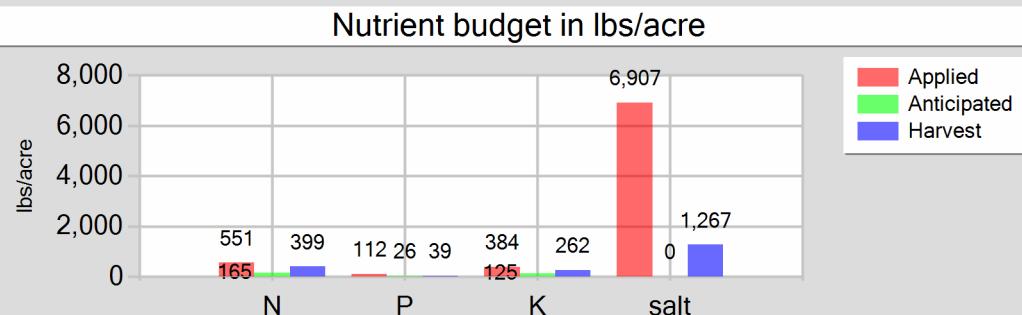
Reporting period 01/01/2023 to 12/31/2023.

Field 1E - 11/15/2022: Wheat, silage, soft dough

Field name: Field 1E

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	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	4,344,000.00 gallons 159.97 acre-inches 4.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	438.29	105.20	301.95	5,588.35	
Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gallons 21.21 acre-inches 0.53 inches/acre
Fresh water	29.00	0.00	0.00	924.39	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	551.23	112.20	384.14	6,907.26	
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	398.71	39.14	262.21	1,267.15	
Nutrient balance	152.52	73.05	121.93	5,640.11	
Applied to removed ratio	1.38	2.87	1.47	5.45	
Total harvests for the crop					1 harvests

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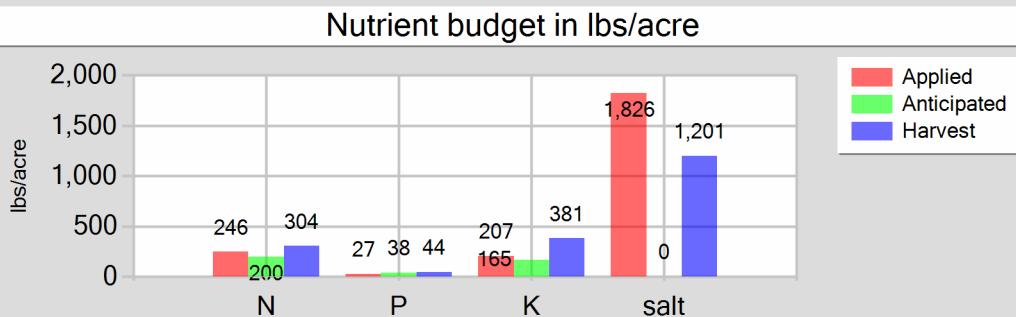
Reporting period 01/01/2023 to 12/31/2023.

Field 1E - 05/15/2023: Corn, silage

Field name: Field 1E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.35	26.86	207.34	1,201.63
Fresh water	0.00	0.00	0.00	624.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	246.35	26.86	207.34	1,825.79
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	304.42	43.93	380.95	1,201.20
Nutrient balance	-58.07	-17.07	-173.61	624.59
Applied to removed ratio	0.81	0.61	0.54	1.52

Fresh water applied

45,330,000.00 gallons
1,669.35 acre-inches
41.73 inches/acre

Process wastewater applied

4,080,000.00 gallons
150.25 acre-inches
3.76 inches/acre

Total harvests for the crop

1 harvests

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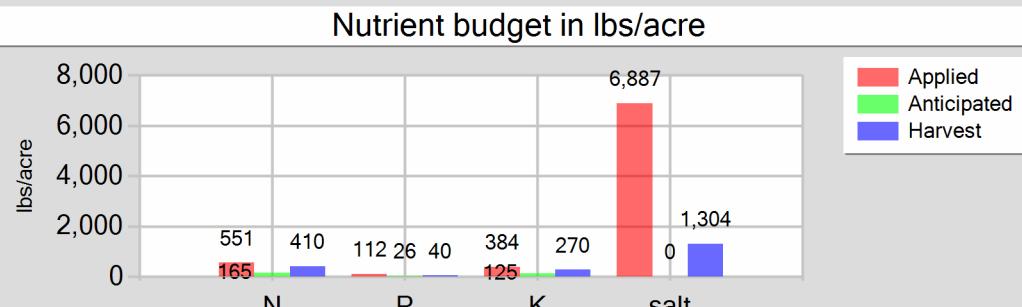
Reporting period 01/01/2023 to 12/31/2023.

Field 2E - 11/15/2022: Wheat, silage, soft dough

Field name: Field 2E

Crop: Wheat, silage, 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	438.29	105.20	301.95	5,588.35
Process wastewater	76.94	6.99	82.19	394.51
Fresh water	28.36	0.00	0.00	903.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	550.59	112.20	384.14	6,886.83
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	410.44	40.29	269.92	1,304.42
Nutrient balance	140.15	71.90	114.22	5,582.41
Applied to removed ratio	1.34	2.78	1.42	5.28

Fresh water applied
4,248,000.00 gallons
156.44 acre-inches
3.91 inches/acre

Process wastewater applied
576,000.00 gallons
21.21 acre-inches
0.53 inches/acre

Total harvests for the crop
1 harvests

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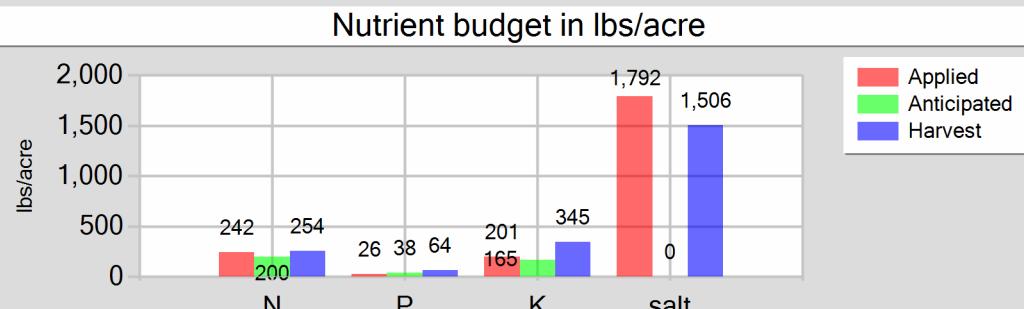
Reporting period 01/01/2023 to 12/31/2023.

Field 2E - 05/15/2023: Corn, silage

Field name: Field 2E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.05	26.11	200.68	1,165.51
Fresh water	0.00	0.00	0.00	626.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.05	26.11	200.68	1,792.01
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	254.20	64.41	344.74	1,505.95
Nutrient balance	-12.15	-38.30	-144.06	286.06
Applied to removed ratio	0.95	0.41	0.58	1.19

Fresh water applied

45,500,000.00 gallons
1,675.61 acre-inches
41.89 inches/acre

Process wastewater applied

4,032,000.00 gallons
148.48 acre-inches
3.71 inches/acre

Total harvests for the crop

1 harvests

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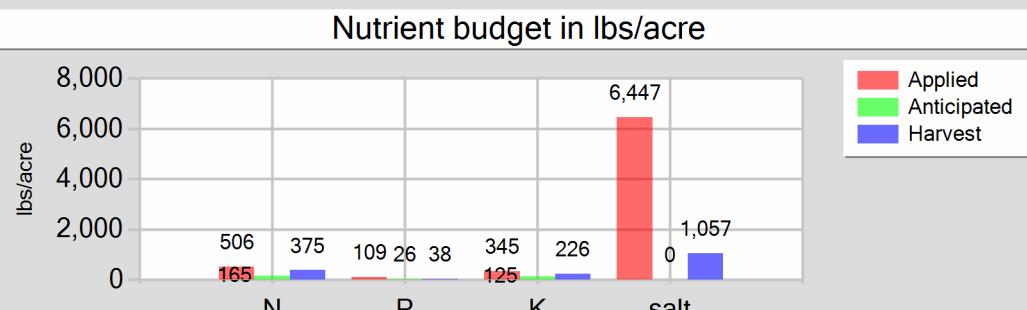
Reporting period 01/01/2023 to 12/31/2023.

Field 3E - 11/09/2022: Wheat, silage, soft dough

Field name: Field 3E

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022



	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	4,350,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	160.20 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.00 inches/acre
Dry manure	438.29	105.20	301.95	5,588.35	
Process wastewater	40.07	3.64	42.81	205.47	Process wastewater applied
Fresh water	20.87	0.00	0.00	653.41	300,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	11.05 acre-inches
Total nutrients applied	506.23	108.85	344.76	6,447.24	0.28 inches/acre
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	374.88	38.27	225.82	1,056.78	Total harvests for the crop
Nutrient balance	131.35	70.58	118.94	5,390.46	1 harvests
Applied to removed ratio	1.35	2.84	1.53	6.10	

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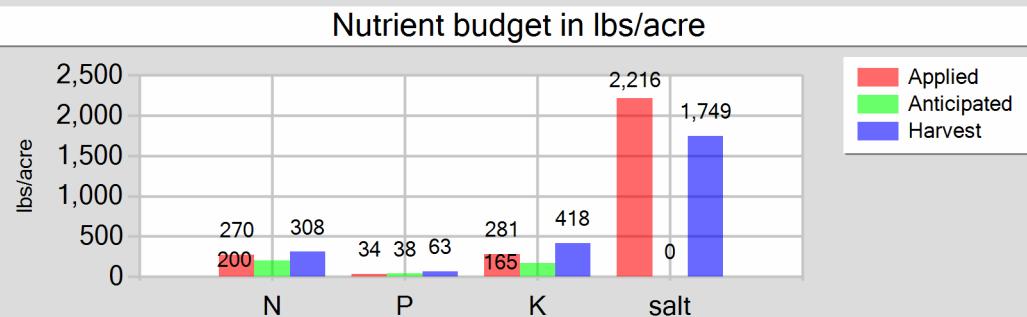
Reporting period 01/01/2023 to 12/31/2023.

Field 3E - 05/15/2023: Corn, silage

Field name: Field 3E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	263.40	34.32	281.39	1,585.95
Fresh water	0.00	0.00	0.00	630.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.40	34.32	281.39	2,216.06
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	308.06	62.87	418.48	1,748.58
Nutrient balance	-37.67	-28.55	-137.09	467.47
Applied to removed ratio	0.88	0.55	0.67	1.27

Fresh water applied

45,762,000.00 gallons
1,685.26 acre-inches
42.13 inches/acre

Process wastewater applied

4,032,000.00 gallons
148.48 acre-inches
3.71 inches/acre

Total harvests for the crop

1 harvests

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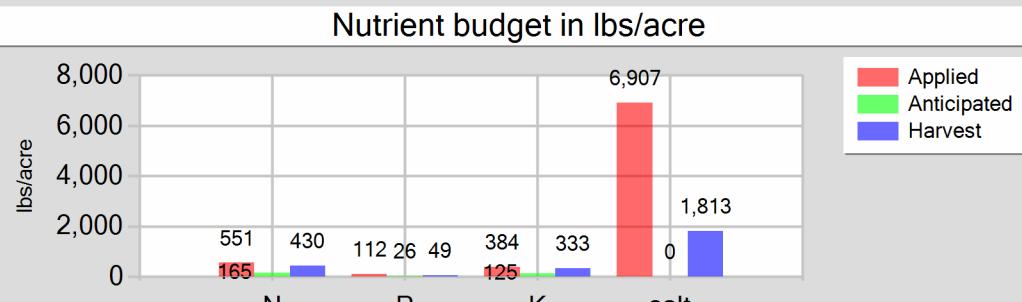
Reporting period 01/01/2023 to 12/31/2023.

Field 4E - 11/16/2022: Wheat, silage, soft dough

Field name: Field 4E

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	4,344,000.00 gallons 159.97 acre-inches 4.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	438.29	105.20	301.95	5,588.35	
Process wastewater	76.94	6.99	82.19	394.51	576,000.00 gallons 21.21 acre-inches 0.53 inches/acre
Fresh water	29.00	0.00	0.00	924.39	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	551.23	112.20	384.14	6,907.26	
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	430.14	49.33	332.82	1,812.68	
Nutrient balance	121.09	62.87	51.32	5,094.58	
Applied to removed ratio	1.28	2.27	1.15	3.81	
Total harvests for the crop					1 harvests

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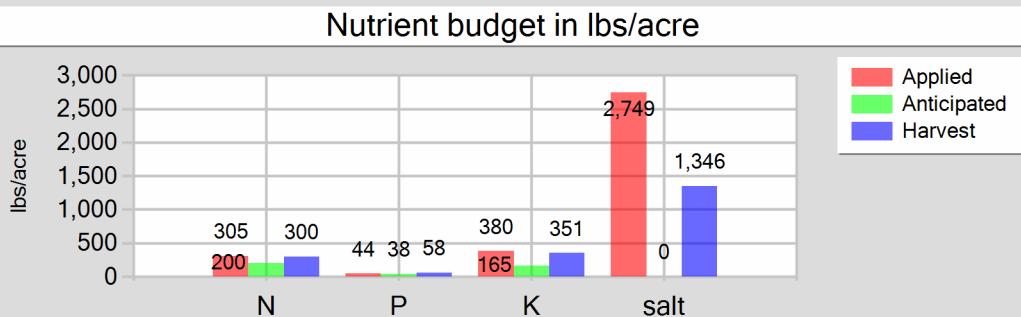
Reporting period 01/01/2023 to 12/31/2023.

Field 4E - 05/15/2023: Corn, silage

Field name: Field 4E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	298.05	44.35	380.03	2,099.82
Fresh water	0.00	0.00	0.00	649.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.05	44.35	380.03	2,749.17
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	299.76	57.62	351.30	1,346.11
Nutrient balance	5.29	-13.27	28.73	1,403.06
Applied to removed ratio	1.02	0.77	1.08	2.04

Fresh water applied

47,160,000.00 gallons
1,736.74 acre-inches
43.42 inches/acre

Process wastewater applied

4,032,000.00 gallons
148.48 acre-inches
3.71 inches/acre

Total harvests for the crop

1 harvests

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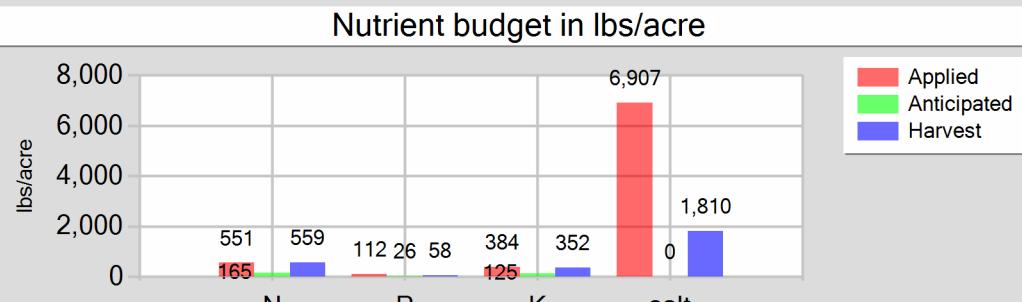
Reporting period 01/01/2023 to 12/31/2023.

Field 5E - 11/17/2022: Wheat, silage, soft dough

Field name: Field 5E

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	438.29	105.20	301.95	5,588.35
Process wastewater	76.94	6.99	82.19	394.51
Fresh water	29.00	0.00	0.00	924.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	551.23	112.20	384.14	6,907.26
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	558.94	58.31	352.44	1,810.26
Nutrient balance	-7.71	53.88	31.70	5,097.00
Applied to removed ratio	0.99	1.92	1.09	3.82

Fresh water applied

4,344,000.00 gallons
159.97 acre-inches
4.00 inches/acre

Process wastewater applied

576,000.00 gallons
21.21 acre-inches
0.53 inches/acre

Total harvests for the crop

1 harvests

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

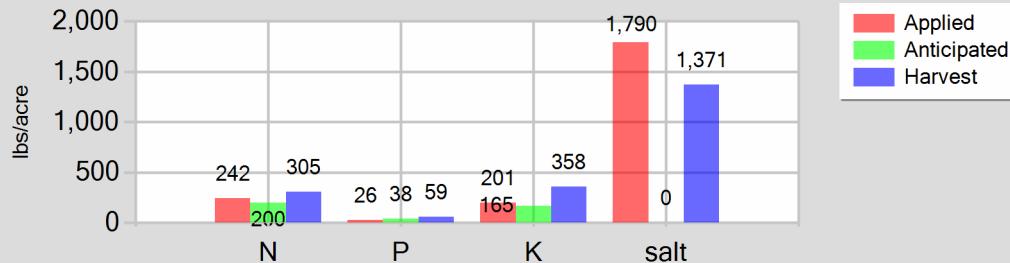
Field 5E - 05/15/2023: Corn, silage

Field name: Field 5E

Crop: Corn, silage

Plant date: 05/15/2023

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	235.05	26.11	200.68	1,165.51
Fresh water	0.00	0.00	0.00	624.30
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.05	26.11	200.68	1,789.81
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	305.31	58.69	357.81	1,371.04
Nutrient balance	-63.26	-32.57	-157.13	418.77
Applied to removed ratio	0.79	0.44	0.56	1.31

Fresh water applied

45,340,000.00 gallons
1,669.72 acre-inches
41.74 inches/acre

Process wastewater applied

4,032,000.00 gallons
148.48 acre-inches
3.71 inches/acre

Total harvests for the crop

1 harvests

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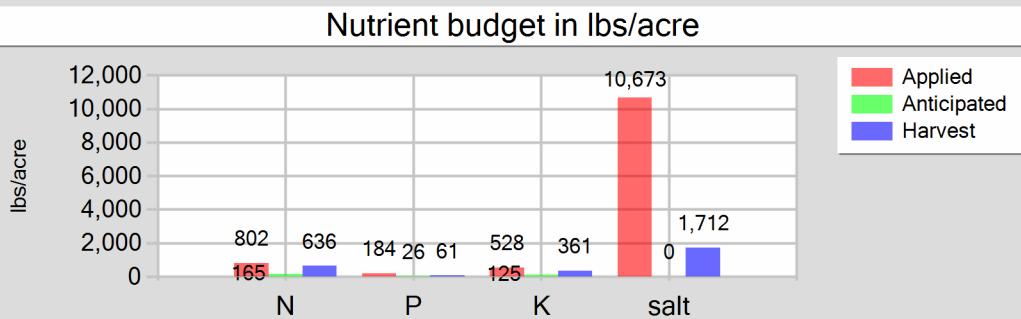
Reporting period 01/01/2023 to 12/31/2023.

Field 6E - 11/18/2022: Wheat, silage, soft dough

Field name: Field 6E

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	767.00	184.11	528.41	9,779.62
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	28.04	0.00	0.00	893.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	802.04	184.11	528.41	10,673.37
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	635.55	60.76	360.58	1,712.36
Nutrient balance	166.49	123.35	167.83	8,961.01
Applied to removed ratio	1.26	3.03	1.47	6.23

Fresh water applied

4,200,000.00 gallons
154.67 acre-inches
3.87 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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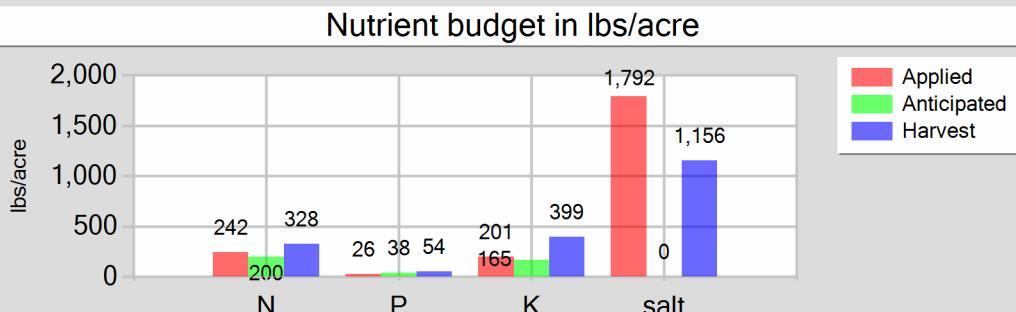
Reporting period 01/01/2023 to 12/31/2023.

Field 6E - 05/15/2023: Corn, silage

Field name: Field 6E

Crop: Corn, silage

Plant date: 05/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.05	26.11	200.68	1,165.51
Fresh water	0.00	0.00	0.00	626.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.05	26.11	200.68	1,792.01
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	328.00	54.12	398.68	1,155.60
Nutrient balance	-85.95	-28.01	-198.00	636.41
Applied to removed ratio	0.74	0.48	0.50	1.55

Fresh water applied

45,500,000.00 gallons
1,675.61 acre-inches
41.89 inches/acre

Process wastewater applied

4,032,000.00 gallons
148.48 acre-inches
3.71 inches/acre

Total harvests for the crop

1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES****1st Half Corral Manure**Sample and source description: 1st Half Corral ManureSample date: 05/08/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 7.6 %

	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	29,646.00	7,116.00	20,424.00							37.80
DL	500.00	100.00	200.00							0.67

1st Half Separator ManureSample and source description: 1st Half Separator ManureSample date: 05/08/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 76.0 %

	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	6,891.00	525.00	1,430.00							19.60
DL	500.00	100.00	200.00							0.67

Corral ManureSample and source description: Corral ManureSample date: 10/13/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 27.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,889.00	5,983.00	30,563.00							35.30
DL	500.00	100.00	200.00							27.70

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Seperator Manure

Sample and source description: Seperator Manure

Sample date: 10/13/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
 Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,372.00	934.00	1,847.00							18.00
DL	500.00	100.00	200.00							0.67

B. PROCESS WASTEWATER ANALYSES

1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.61

	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	640.00	190.40	3.30	0.28	58.20	684.00								5,130.00	3,283
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 05/08/2023 Material type: Process wastewater Source of analysis: Other/estimated pH: 7.68

	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	93.70	7.40	0.21	74.40	665.00								5,637.00	3,607
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 08/10/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.03

	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	219.00	33.60	0.00	0.52	13.70	68.00								777.00	497
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 10/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.22

	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	910.00	113.60	0.00	0.34	117.70	342.00								2,850.00	1,824
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

C. FRESH WATER ANALYSES**05E****Ag well**

Sample description: Ag well

Sample date: 11/21/2023 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	23.00		23.00								1,200.00	
DL	0.23		0.23								10.00	

1E

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1E

Ag wellSample description: Ag wellSample date: 12/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	32.00		32.00								1,700.00	
DL	0.23		0.23								10.00	

Canal**Surface water**Sample description: Surface waterSample date: 07/17/2023 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								110.00	
DL	0.23		0.23								1.00	

Dairy Well (Dom)**domestic**Sample description: domesticSample date: 10/16/2023 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	24.00		24.00								1,100.00	
DL	0.23		0.23								1.00	

Domestic Well

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Domestic Well

domestic

Sample description: domestic

Sample date: 10/16/2023 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 (μ mhos/cm)	TDS (mg/L)
Value	7.70		7.70								550.00	
DL	0.23		0.23								1.00	

S. Dairy Well

domestic

Sample description: domestic

Sample date: 10/16/2023 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 (μ mhos/cm)	TDS (mg/L)
Value	37.00		37.00								1,200.00	
DL	0.23		0.23								1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 01E - 11/09/2022: Wheat, silage, soft dough

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Field 01E - 11/09/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,910.00	3,680.00	24,500.00		11.20
DL	10.00	100.00	200.00		0.67

Field 01E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,680.00	3,200.00	21,300.00		8.90
DL	10.00	100.00	200.00		0.67

Field 03E - 11/09/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,480.00	3,200.00	20,600.00		10.40
DL	10.00	100.00	200.00		0.67

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Field 03E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,680.00	3,200.00	21,300.00		8.90
DL	10.00	100.00	200.00		0.67

Field 1E - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,780.00	3,120.00	20,900.00		10.10
DL	10.00	100.00	200.00		0.67

Field 1E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,740.00	2,560.00	22,200.00		7.00
DL	10.00	100.00	200.00		0.67

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Field 2E - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,780.00	3,120.00	20,900.00		10.10
DL	10.00	100.00	200.00		0.67

Field 2E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,010.00	3,550.00	19,000.00		8.30
DL	10.00	100.00	200.00		0.67

Field 3E - 11/09/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 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	33,700.00	3,440.00	20,300.00		9.50
DL	10.00	100.00	200.00		0.67

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Field 3E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,680.00	3,200.00	21,300.00		8.90
DL	10.00	100.00	200.00		0.67

Field 4E - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,950.00	3,320.00	22,400.00		12.20
DL	1.00	100.00	200.00		0.67

Field 4E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,260.00	3,510.00	21,400.00		8.20
DL	10.00	100.00	200.00		0.67

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Field 5E - 11/17/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 55.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,890.00	3,640.00	22,000.00		11.30
DL	10.00	100.00	200.00		0.67

Field 5E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,260.00	3,510.00	21,400.00		8.20
DL	10.00	100.00	200.00		0.67

Field 6E - 11/18/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/10/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 55.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	38,600.00	3,690.00	21,900.00		10.40
DL	10.00	100.00	200.00		0.67

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Field 6E - 05/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,030.00	2,810.00	20,700.00		6.00
DL	10.00	100.00	200.00		0.67

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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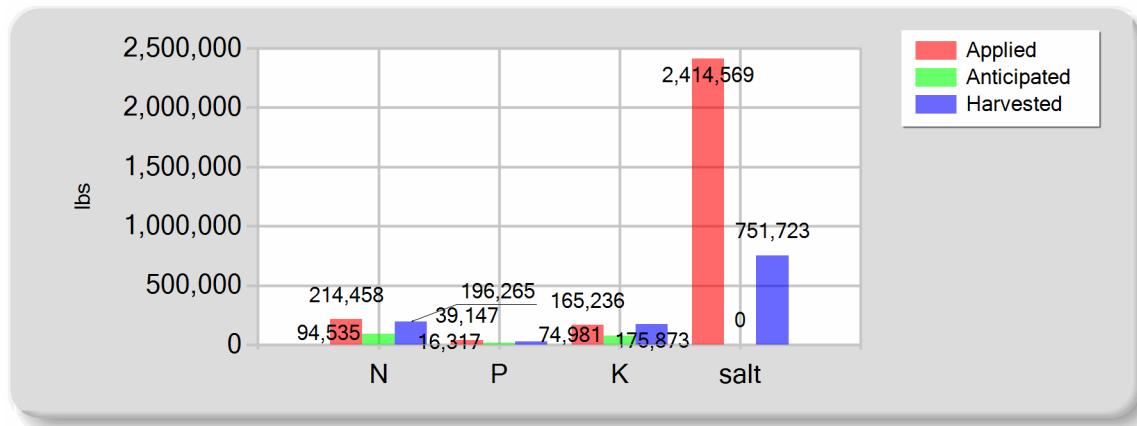
Reporting period 01/01/2023 to 12/31/2023.

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	124,582.93	29,903.94	85,828.84	1,588,489.06
Process wastewater	79,163.03	9,243.09	79,407.01	437,259.12
Fresh water	7,086.41	0.00	0.00	388,821.19
Atmospheric deposition	3,626.00	0.00	0.00	0.00
Total nutrients applied	214,458.37	39,147.03	165,235.85	2,414,569.37
Anticipated crop nutrient removal	94,535.00	16,317.00	74,980.50	0.00
Actual crop nutrient removal	196,265.33	27,163.15	175,873.45	751,723.47
Nutrient balance	18,193.03	11,983.88	-10,637.60	1,662,845.89
Applied to removed ratio	1.09	1.44	0.94	3.21

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

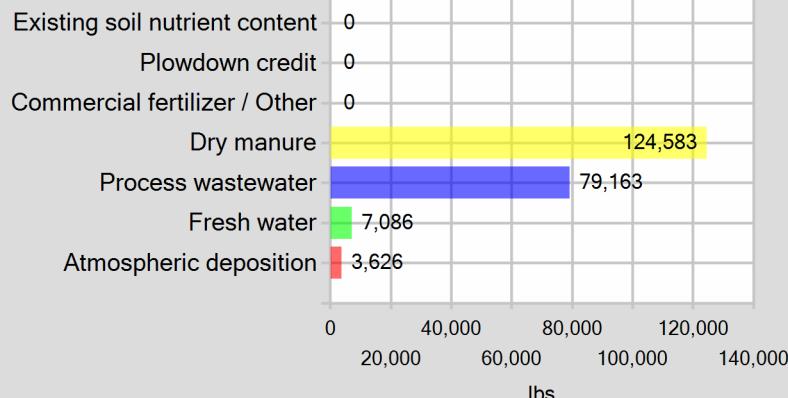


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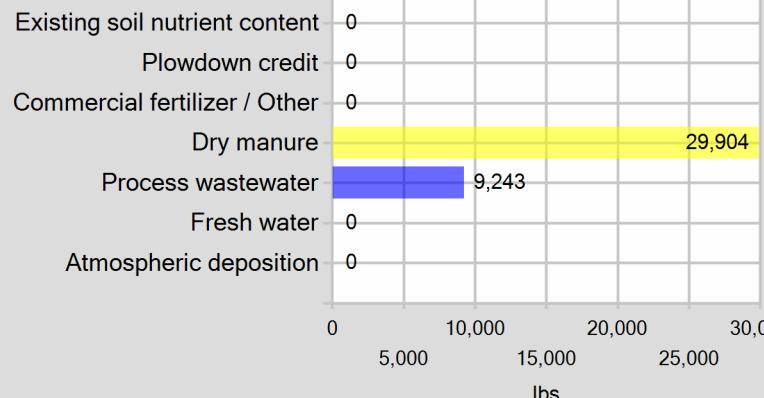
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

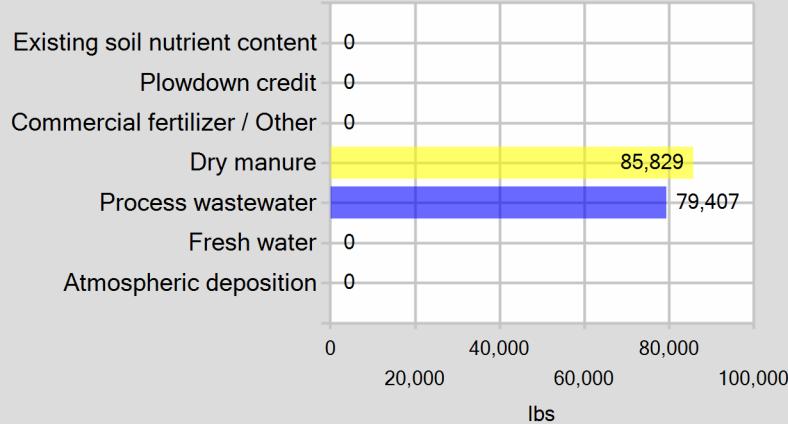
Pounds of nitrogen applied



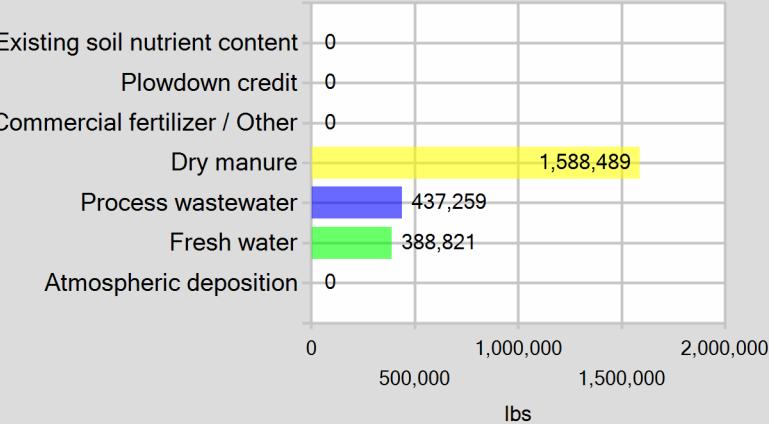
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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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? No

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

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

B. EXPORT AGREEMENT STATEMENT

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

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ADDITIONAL NOTES

A. NOTES

Wells 3E and 003E are under repair and did not run in 2023.

Dairy received extra surface water in 2023.

2QTR Wastewater was averaged between 1QTR and 3QTR, the values from lab were too high, they compare to weak sludge, not well maintained lagoon water which received extra rain dilution water.

No export of dry manure in 2023, NOV 2022 pond volume was very low, therefore substituted dry manure for liquid.

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CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

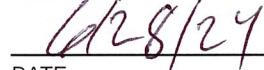
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate,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



SIGNATURE OF OWNER OF FACILITY

Sozinho Family Trust

PRINT OR TYPE NAME



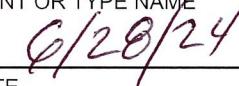
DATE



SIGNATURE OF OPERATOR OF FACILITY

Danny Sozinho

PRINT OR TYPE NAME



DATE

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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.



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

2023 Groundwater Well Report

Dairy: Sozinho Dairy #2 Address: 8489 E. Elkhorn Ave
Contact: Danny Sozinho Selma, CA 93662

Summary

Five wells and one canal were sampled at the Sozinho Dairy #2 by JMLord, Inc. personnel. Samples were collected on July 17th, October 16th, November 21st, and December 20th of 2023. The samples collected are listed below. Electrical conductivity (EC) was measured in the laboratory. Ammonium presence was measured in the field using test strips. Results were recorded on the sampling record for each sample collected. Samples were collected in bottles provided by the testing laboratory. The samples were placed in a cooler with ice packs and delivered to BSK Analytical Laboratories, an ELAP laboratory. Well samples were analyzed as defined in the MRP, updated in February 2011. The five year analysis was performed on approximately 20% of the wells sampled.

<u>Wells Sampled</u>	<u>Date Sampled</u>
Canal	7/17/2023
Well 05E	11/21/2023
South Dairy Well	10/16/2023
Domestic Well	10/16/2023
Well 1E	12/20/2023
Dairy Well (DOM)	10/16/2023

Due to the abundance of surface water, Well 3E and Well 003E were not turned on for irrigation purposes. They were not sampled for the 2023 crop year.

Attached are copies of the field records developed when samples were collected, the Chain of Custody forms, a map showing well locations, and the analytical results from BSK Analytical Laboratories.

FYI: The regulatory limit for Nitrate as NO₃N is 10 mg/L.



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sozinho Dairy #2

Date: 7/17/2023

Source ID: Canal

Time: 8:30 am

Source Location: East side of dairy

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.

Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent

Not Applicable.

Notes: Sample clear & no smell

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sozinhu Dairy #2 Date: 11/21/2024
Source ID: Well 05E Time: 8:55
Source Location: NE corner of field 5E

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement. EC _____ (μS or mS)
Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Sampled from discharge pipe. Sample clear + no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

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PHONE: (559) 268-9755 FAX: (559) 486-6504
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FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sozinhu Dairy #2 Date: 10/14/13
Source ID: South Dairy well Time: 9:40
Source Location: NW corner of field 01E, by corrals

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement. EC _____ (μ S or mS)
Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took/sampled from spigot. Sample clear
+ no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sorinhu Dairy #2 Date: 10/11/23
Source ID: Domestic Well Time: 9:50
Source Location: North of Shop, SE corner of field D3E

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement. EC _____ (μ S or mS)
Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took from spigot, Sample clear
↓ no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Souzhuo Dairy #2 Date: 12/20/23
Source ID: Well 1E Time: 11:25
Source Location: NE corner of field 1E.

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement. EC _____ (μ S or mS)
Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took from discharge pipe. Sample clear
& no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sorinhu Dam #2 Date: 10/16/23
Source ID: Dairy well Time: 9:45
Source Location: West side of milk barn

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement. EC _____ (μ S or mS)
Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Sampled from spigot on tank. Sample clear
& no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGG2084
7/31/2023
Invoice: AG17576

Danny Sozinho
Sozinho Dairy #2
8489 E. Elkhorn Ave
Selma, CA 93662

RE: Report for AGG2084 RB5 Surface

Dear Danny Sozinho,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/17/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Mary Thao , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty .

Sincerely,

Mary Thao, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

Case Narrative

Project and Report Details

Client: Sozinho Dairy #2
Report To: Danny Sozinho
Project #: RB5-Surface
Received: 7/17/2023 - 16:00
Report Due: 7/31/2023

Invoice Details

Invoice To: Danny Sozinho
Invoice Attn: Danny Sozinho
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 27.8

Custody Seals
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Taylor Errotabere	FINAL.RPT	
Danny Sozinho	FINAL.RPT	



AGG2084

RB5 Surface

RB5-Surface

Certificate of Analysis

Sample ID: AGG2084-01

Sampled By: Madison Looper

Sample Description: Canal

Sample Date - Time: 07/17/2023 - 08:30

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	110	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/18/23 02:59	07/18/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/18/23 02:59	07/18/23	
Total Dissolved Solids	SM 2540C	75	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Date Analyzed	Date Qual
---------	--------	----	-------	-------------	---------------	------	-------------	---------------	---------------	-----------

EPA 351.2 - Quality Control

Batch: AGG1212

Prepared: 7/19/2023

Prep Method: Method Specific Preparation

Analyst: ERA

Matrix Spike Dup (AGG1212-MSD2), Source: AGG2079-02

Total Kjeldahl Nitrogen 9.2 1.0 mg/L 10 ND 92 90-110 1 10 07/20/23

SM 2510B - Quality Control

Batch: AGG1088

Prepared: 7/18/2023

Prep Method: Method Specific Preparation

Analyst: EFG

Blank Spike (AGG1088-BS1)

Conductivity @ 25C 1400 1.0 umhos/cm 1400 ND 99 90-110 07/18/23

Blank Spike Dup (AGG1088-BSD1)

Conductivity @ 25C 1400 1.0 umhos/cm 1400 ND 99 90-110 1 5 07/18/23

Duplicate (AGG1088-DUP1), Source: AGG1977-01

Conductivity @ 25C 210 1.0 umhos/cm 210 1 5 07/18/23

SM 2540C - Quality Control

Batch: AGG1131

Prepared: 7/18/2023

Prep Method: Method Specific Preparation

Analyst: SYY

Blank (AGG1131-BLK1)

Total Dissolved Solids ND 5.0 mg/L 07/18/23

Blank Spike (AGG1131-BS1)

Total Dissolved Solids 1000 mg/L 1000 103 70-130 07/18/23

Duplicate (AGG1131-DUP1), Source: AGG2116-01

Total Dissolved Solids 350 5.0 mg/L 340 1 10 07/18/23

Duplicate (AGG1131-DUP2), Source: AGG2116-02

Total Dissolved Solids 330 5.0 mg/L 330 2 10 07/18/23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
 - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
 - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
 - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
 - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
 - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
 - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
 - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
 - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
 - Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
 - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
 - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.



AGG2084

RB5 Surface

Certificate of Analysis

Definitions

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

NA

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

Sample Integrity

BSK Bottles Yes No

Page 1 of 1

10

COC Info	Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes	No	NA	Were correct containers and preservatives received for the tests requested?			Yes	No	NA
					Bubbles Present VOAs (524.2/TTHM/TCP)?	TB Received? (Check Method Below)				
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA				Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No		Was a sufficient amount of sample received?			Yes	No	
	Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time <72 hours?			Yes	No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA		Was PM notified of discrepancies? PM: _____ By/Time: _____			Yes	No	NA
250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)										
Bact Na ₂ S ₂ O ₃										
None (P) White Cap										
Cr6 (P) LI Green Label/Blue Cap NH4OH(NH4)2SO ₄ DW Cl, pH >8 P F										
Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO ₄ WW pH 9.3-9.7 P F										
Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO ₄ 7/199 ***24 HOUR HOLD TIME*** pH 9.0-9.5 P F										
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/LI. Blue Label										
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label										
NaOH (P) Green Cap Cl, pH >10 P F										
NaOH + ZnAc (P) pH >9 P F										
Dissolved Oxygen 300ml (g)										
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270										
HCl (AG) LI. Blue Label O&G, Diesel, TCP										
Ascorbic, EDTA, KH ₂ C ₈ H ₅ O ₄ (AG) Pink Label 525										
Na ₂ SO ₃ 250mL (AG) Non Green Label 515										
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549										
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524										
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547										
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531 pH < 3 P F										
NH ₄ C (AG) Purple Label 552										
EDA (P) or (AG) Brown Label DBPs										
HCl (CG) 524.2,BTEX, Gas, MTBE, 8260/624										
Buffer pH 4 (CG)										
H ₃ PO ₄ (CG) Salmon Label										
Trizma - EPA 537.1 Light Blue Label FB										
Ammonia Acetate - EPA 533 Purple Label FB										
Bottled Water										
Asbestos 1L (P) w/ Foil / LL Metals Bottle										
Clear Glass										
OTHER:										
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check				
	S P					pH Lot #	AG04945			
Comments	*Preservation check completed by lab performing analysis.				Indicates Blanks Received					
					504	524.2	TTHM	537/533	TCP	
					✓ MS/MSD Received Method: _____					
	Labeled by:		Labels Checked by:							

Scanned: _____ Rush/Short HT Page: _____ Time: _____

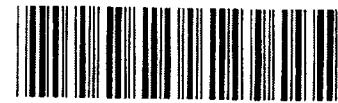


1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request

- Standard - 10 business days
- Rush (Surcharge may apply)
- Date needed:

AGK12084 Sezn0000 07/17/2023



10

***Required Fields**

Company/Cient Name*: <i>Sorino Dairy #2</i>	Report Attention*: <i>Danny Sorino</i> Additional pc's: <i>madison@jmlordinc.com</i>	Temp: <i>278</i> ° Invoice To: <i>#77</i>	Phone*: E-mail*:		
Address*: <i>8489 E. Elkhorn Ave.</i>	City*: <i>Selma</i>	State*: <i>Ca</i>	Zip*: <i>93662</i>		
Project*: Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____	Project #: _____	How would you like to receive your completed results?* <input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail			
Sampler Name (Printed/Signature)*: <i>Madison Loper</i>	Regulatory Carbon Copies: <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other	Regulatory Compliance: <input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____	<input type="checkbox"/> Geotracker #: _____		
Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid					
#	Sample Description*	Sampled* Date <i>7/17</i> Time <i>8:30</i> Matrix* <i>SW</i>	Comments / Station Code / WTRAX	RB5-Well	RB5-Surface
1	Canal			X	
<i>7-17-23</i>					
<i>NH</i>					

Received by (Signature and Printed Name) <i>Madison Loper</i>	Company <i>JM Lord Inc</i>	Date <i>7/17</i>	Time <i>1600</i>	Received by (Signature and Printed Name)	Company			
Released by (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Printed Name)	Company			
Received for Lab by (Signature and Printed Name) <i>John Raymond</i>	Date <i>7-17-23</i>	Time <i>1600</i>	Payment Received at Delivery: <i>7-17-23</i>	Check / Cash				
Shipping Method <i>ONTRAC</i>	UPS	GSO	WALK-IN	FED EX	Courier: _____	Custody Seal: <input checked="" type="checkbox"/> Y/N	PIA#:	Init:
Cooling Method <i>Wet Blue</i>	None	Chilling Process Begun: <input checked="" type="checkbox"/> Y/N						

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabsTermsConditions.pdf.

SR-FL-0012-07



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGJ2288
10/31/2023
Invoice: AG25847

Dustie Christensen
Sozinho Dairy #2
8489 E. Elkhorn Ave
Selma, CA 93662

RE: Report for AGJ2288 RB5 Well

Dear Dustie Christensen,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 10/16/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, PM Staff , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Stephane Maupas, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGJ2288 Final FINAL 10 31 2023 1622 10312023 1622



AGJ2288

RB5 Well

Case Narrative

Project and Report Details

Client: Sozinho Dairy #2
Report To: Dustie Christensen
Project #: RB5 Well
Received: 10/16/2023 - 14:33
Report Due: 10/30/2023

Invoice Details

Invoice To: Danny Sozinho
Invoice Attn: Danny Sozinho
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 20.5
Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)

Report Format

CC:



AGJ2288

RB5 Well

RB5 Well

Certificate of Analysis

Sample ID: AGJ2288-01

Sampled By: Dustie Christensen

Sample Description: South Dairy Well

Sample Date - Time: 10/16/2023 - 09:40

Matrix: Ground Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1200	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	37	0.23	mg/L	1	AGJ1070	10/17/23 06:19	10/17/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGJ2288 Final FINAL 10 31 2023 1622 10312023 1622



AGJ2288

RB5 Well

RB5 Well

Certificate of Analysis

Sample ID: AGJ2288-02

Sampled By: Dustie Christensen

Sample Description: Dairy Well

Sample Date - Time: 10/16/2023 - 09:45

Matrix: Ground Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1100	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	24	0.23	mg/L	1	AGJ1070	10/17/23 06:35	10/17/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGJ2288 Final FINAL 10 31 2023 1622 10312023 1622



AGJ2288

RB5 Well

RB5 Well

Certificate of Analysis

Sample ID: AGJ2288-03

Sampled By: Dustie Christensen

Sample Description: Domestic Well

Sample Date - Time: 10/16/2023 - 09:50

Matrix: Ground Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	550	1.0	umhos/cm	1	AGJ1098	10/17/23	10/17/23	
Nitrate as N	EPA 300.0	7.7	0.23	mg/L	1	AGJ1070	10/17/23 06:50	10/17/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGJ2288 Final FINAL 10 31 2023 1622 10312023 1622



AGJ2288

RB5 Well

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Date Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGJ1070

Prepared: 10/17/2023

Prep Method: Method Specific Preparation

Analyst: AAS

Blank (AGJ1070-BLK1)

Nitrate as N ND 0.23 mg/L 10/17/23

Blank Spike (AGJ1070-BS1)

Nitrate as N 23 0.23 mg/L 23 ND 103 90-110 10/17/23

Matrix Spike (AGJ1070-MS1), Source: AGJ2276-02

Nitrate as N 21 0.23 mg/L 11 9.2 101 80-120 10/17/23

Matrix Spike Dup (AGJ1070-MSD1), Source: AGJ2276-02

Nitrate as N 21 0.23 mg/L 11 9.2 101 80-120 0 20 10/17/23

SM 2510B - Quality Control

Batch: AGJ1098

Prepared: 10/17/2023

Prep Method: Method Specific Preparation

Analyst: BAG

Blank Spike (AGJ1098-BS1)

Conductivity @ 25C 1400 1.0 umhos/cm 1400 ND 100 90-110 10/17/23

Blank Spike Dup (AGJ1098-BSD1)

Conductivity @ 25C 1400 1.0 umhos/cm 1400 ND 100 90-110 0 5 10/17/23

Duplicate (AGJ1098-DUP1), Source: AGJ2290-03

Conductivity @ 25C 1700 1.0 umhos/cm 1700 0 5 10/17/23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AG I2288.Final.FINAL 10.31.2023 1622 10312023 1622



AGJ228

RB5 Well

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
 - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
 - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
 - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
 - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
 - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
 - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
 - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
 - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
 - Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
 - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
 - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.



AGJ2288

RB5 Well

Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		



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Sample Integrity

BSK Bottles: Yes No

Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No		Was a sufficient amount of sample received?	Yes	No	
	Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time < 72 hours?	Yes	No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA		Was PM notified of discrepancies? PM: By/Time:	Yes	No	NA

Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)	Checks*	Passed?	1-3				
	Bacti Na ₂ S ₂ O ₃	—	—					
	None (P) White Cap	—	—	1A				
	Cr6 (P) LL Green Label/Blue Cap NH4OH(NH4)2SO ₄ DW	Cl, pH > 8	P F					
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO ₄ WW	pH 9.3-9.7	P F					
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Li. Blue Label	—	—					
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	P F					
	NaOH (P) Green Cap	Cl, pH > 10	P F					
	NaOH + ZnAc (P)	pH > 9	P F					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) LL Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH ₂ Cl (AG) Pink Label 525	—	—					
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—					
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—					
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—					
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—					
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F					
	NH ₄ Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2,BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	H ₃ PO ₄ (CG) Salmon Label	—	—					
	Trizma - EPA 537.1 Light Blue Label FB	—	—					
	Ammonia Acetate - EPA 533 Purple Label FB	—	—					
	Bottled Water	—	—					
	Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
	Clear Glass	—	—					
	OTHER:	—	—					

Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation pH Lot # Cl Lot #	Check
	S P						
	S P						
*	Preservation check completed by lab performing analysis.				✓ Indicates Blanks Received		
Comments					504 524.2 TTHM 537/533 TCP		
					✓ MS/MSD Received Method:		
Labeled by:	Labels Checked by:						

Scanned: *Cen*

Rush/Short HT Page: _____ Time: _____



ASSOCIATES

1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

Turnaround Time Request

- Standard - 10 business days
 Rush (Surcharge may apply)
Date needed:

AGJ2288 Sozin0000 10/16/2023



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Page 11 of 11

*Required Fields				Temp	20.8	#77				
Company/Client Name*: Sozinho Dairy #2		Report Attention*: Dustie Additional CC's: dustie@jmloarding.com		Invoice To*: PO# Selma City: Selma		Phone*: 559-903-6528		Fax:		
Address*: 8489 E. Elkhorn Ave		Project*: Project #:		State*: CA Zip*: 93602		E-mail*:				
Project: Project #:		Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		Regulatory Carbon Copies <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other: _____		How would you like to receive your completed results?* <input checked="" type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail		Regulatory Compliance <input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number* _____ <input type="checkbox"/> Geotracker # _____		
Sampler Name (Printed/Signature)*: Dustie Christensen D. Christen		Matrix Types: SW=Surface Water BWS=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid								
#	Sample Description*	Sampled* Date Time		Matrix*	Comments / Station Code / WTRAX		RB5-Well	RB5 Well-5 Year Well test	RB5-Surface	
1	South Dairy Well	10/16/23	9:40	GW			X			
2	Dairy well		9:45							
3	Domestic well		9:50							
<p>JV 10/16</p>										
Relinquished by (Signature and Printed Name): Dustie Christensen, Dustie Christensen		Company: JM Lord Inc		Date: 10/16	Time: 2:30	Received by (Signature and Printed Name): Johnny M		Company		
Relinquished by (Signature and Printed Name): Johnny M		Company		Date	Time	Received by (Signature and Printed Name): Johnny M		Company		
Received for Lab by (Signature and Printed Name): Johnny M		Company		Date: 10/16	Time: 14:30	Payment Received at Delivery: Date: _____		Check / Cash	Init.	
Shipping Method: <input type="checkbox"/> DNTRAC <input type="checkbox"/> UPS <input type="checkbox"/> GSQ <input checked="" type="checkbox"/> WALK-IN <input type="checkbox"/> FED EX <input type="checkbox"/> Courier						Custody Seal: Y / N				
Cooling Method: <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Blue <input type="checkbox"/> None						Chilling Process Begun: Y / N				

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabsTermsConditions.pdf



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGK2961

12/06/2023

Invoice: AG28452

Danny Sozinho
Sozinho Dairy #2
8489 E. Elkhorn Ave
Selma, CA 93662

RE: Report for AGK2961 RB5 Well

Dear Danny Sozinho,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 11/21/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,
PM Staff , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Operations Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2961 Final FINAL 12 06 2023 1116 12062023 1116



AGK2961

RB5 Well

Case Narrative

Project and Report Details		Invoice Details
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Client:	Sozinho Dairy #2
Report To:	Danny Sozinho
Project #:	RB5 Well
Received:	11/21/2023 - 15:20
Report Due:	12/07/2023

Invoice Details

Invoice To:	Danny Sozinho
Invoice Attn:	Danny Sozinho
Project PO#:	-

Sample Receipt Conditions

Cooler:	Default Cooler
Temperature on Receipt °C:	12.8

Containers Intact
COC/Labels Agree
Received with no thermal preservation.
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
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AGK2961

RB5 Well

RB5 Well

Certificate of Analysis

Sample ID: AGK2961-01

Sample Date - Time: 11/21/2023 - 08:55

Sampled By: Dustie Christensen

Matrix: Ground Water

Sample Description: Well 5E AG Well

Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyst	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Nitrate as N	EPA 300.0	23	0.23	mg/L	1	AGK1418	11/22/23 03:05	11/22/23	



AGK2961

RB5 Well

RB5 Well

Certificate of Analysis

Sample ID: AGK2961-01RE1

Sample Date - Time: 11/21/2023 - 08:55

Sampled By: Dustie Christensen

Matrix: Ground Water

Sample Description: Well 5E AG Well

Sample Type: Grab

BSK Associates Laboratory Fresno

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1200	1.0	umhos/cm	1	AGK1516	11/27/23	11/27/23	



AGK2961

RB5 Well

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: AGK1418											Prepared: 11/21/2023
Prep Method: Method Specific Preparation											Analyst: AAS
Blank (AGK1418-BLK1)											
Nitrate as N	ND	0.23	mg/L								11/21/23
Blank Spike (AGK1418-BS1)											
Nitrate as N	23	0.23	mg/L	23	ND	102	90-110				11/22/23
Matrix Spike (AGK1418-MS1), Source: AGK2723-02											
Nitrate as N	13	0.23	mg/L	11	1.9	100	80-120				11/22/23
Matrix Spike Dup (AGK1418-MSD1), Source: AGK2723-02											
Nitrate as N	13	0.23	mg/L	11	1.9	102	80-120	2	20		11/22/23
SM 2510B - Quality Control											
Batch: AGK1516											Prepared: 11/27/2023
Prep Method: Method Specific Preparation											Analyst: BAG
Blank Spike (AGK1516-BS1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	97	90-110				11/27/23
Blank Spike Dup (AGK1516-BSD1)											
Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	102	90-110	4	5		11/27/23
Duplicate (AGK1516-DUP1), Source: AGK2847-02											
Conductivity @ 25C	50	1.0	umhos/cm		50			0	5		11/27/23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2961 Final FINAL 12.06.2023 1116 12062023 1116

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible .



AGK2961

RB5 Well

Certificate of Analysis

Definitions

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

NA

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		

Sample Integrity

BSK Bottles: Yes No

Page 1 of 1



10

COC Info	Was temperature within range? Chemistry ≤ 6°C Micro < 8°C	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA					
	If samples were taken today, is there evidence that chilling has begun?	Yes No NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes No NA					
	Did all bottles arrive unbroken and intact?	Yes No	Was a sufficient amount of sample received?	Yes No					
	Did all bottle labels agree with COC?	Yes No	Do samples have a hold time <72 hours?	Yes No					
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes NA	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes No NA					
Bottles Received Bottles Received/Chlorine checks are either NA or are performed in the lab	250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)	Checks*	Passed?	/					
	Bact(Na ₂ S ₂ O ₃)								
	None (P) White Cap	—	—	NA					
	Cr6 (P) Lt Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	P F						
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	P F						
	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7/199 24 HOUR HOLD TIME	pH 9.0-9.5	P F						
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—						
	H ₂ SO ₄ (P) Red (AG) Yellow Cap/Bottle	pH < 2	P F						
	NaOH (P) Green Cap	Cl, pH > 10	P F						
	NaOH/H ₂ OAc (P) Green Cap	pH > 9.4	P F						
	Dissolved Oxygen 300ml (g)	—	—						
	None (AG) 6003091/6092162/6321321/61518270			Y					
	HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—						
	Ascorbic/EDTA/KH ₂ CO ₃ (AG) Pink Label 525	—	—						
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—						
	Na ₂ S ₂ O ₃ 1 Liter Brown (P) 549								
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—						
	Na ₂ S ₂ O ₃ (CG) 6003091/6041605/647								
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F						
	NH ₄ Cl (AG) 6003091/652	—	—						
EDA (P) or (AG) Brown Label DBPs	—	—							
HCl (CG) 524.2 BTEX Cap/MTBE 8260/624	—	—							
Buffer pH 4 (CG)	—	—							
HPO ₄ ²⁻ (CG) Sunlight	—	—							
Trizma - EPA 537.1 Light Blue Label FB	—	—							
Ammonia/Acetate - EPA 638 Epa Label FB	—	—							
Bottled Water	—	—							
Asbestos 1L (P) W/Foil / 1L Metal's Bottle	—	—							
Clear Glass	—	—							
OTHER									
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check			
	S P					pH Lot #			
	S P					Cl Lot #			
Comments	*Preservation check completed by lab performing analysis.				✓ Indicates Blanks Received				
					504	524.2	TTHM	537/533	TCP
					✓ MS/MSD Received Method: _____				
Labeled by:		Labels Checked by:							

Scanned: *Cen*

Rush/Short HT Page: _____ Time: _____



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 • Fax (559) 497-2893
• www.bskassociates.com

***Required Fields**

Temp:

Turnaround Time Request

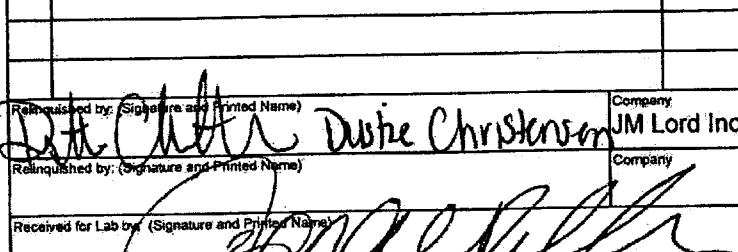
- Standard - 10 business days
- Rush (Surcharge may apply)

Date needed:

AGK2961 Sozin(000)

11/21/2023

10

*Required Fields		Temp: 72.6	Invoice To:	Phone:	Fax:		
Company/Client Name: Sozinho Dring #2		Report Attention: Danny Sozinho Additional cc's: dustie@jmlordinc.com	PO#:	E-mail:			
Address:		City:	State:	Zip:			
Project:		Project #:	How would you like to receive your completed results?				
			<input type="checkbox"/> E-Mail	<input type="checkbox"/> Fax	<input type="checkbox"/> Mail		
Reporting Options:		Regulatory Carbon Copies	Regulatory Compliance				
<input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		<input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input checked="" type="checkbox"/> Other: _____	<input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____ <input type="checkbox"/> Geotracker #: _____				
Sampler Name (Printed/Signature): Dustie Christensen		Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid					
#	Sample Description*	Sampled*		Comments / Station Code / WTRAX	RB5-Well RB5-Surface		
		Date	Time				
1	WELL 5E Ag well	11/21/23	8:55 AM	X			
							
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company		
Dustie Christensen	JM Lord Inc	11/21/23	3:15				
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company		
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	Check / Cash		
Dustie Christensen		11/21/23	152				
Shipping Method:	ONTRAC	UPS	GSO	WALK-IN	FED EX	Courier:	Custody Seal: Y/N
Cooling Method:	Wet	Blue	None				Chilling Process Begun: Y/N
I, the undersigned, have read and understand Standard Terms and Conditions for Laboratory Services. The person signing for							

Cooling Method: **Wet** **Blue** **None**

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGL2857

1/04/2024

Invoice: AH00311

Danny Sozinho
Sozinho Dairy #2
8489 E. Elkhorn Ave
Selma, CA 93662

RE: Report for AGL2857 RB5 Well

Dear Danny Sozinho,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 12/20/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,
Jaime Lee LaFave , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Jaime Lee LaFave, Operations Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGL2857 Final FINAL 01 04 2024 1053 01042024 1053



AGL2857

RB5 Well

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: Sozinho Dairy #2
Report To: Danny Sozinho
Project #: Dairy Ag Well
Received: 12/20/2023 - 14:22
Report Due: 1/05/2024

Invoice To: Danny Sozinho
Invoice Attn: Danny Sozinho
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 13.1

Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
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AGL2857

RB5 Well

Dairy Ag Well

Certificate of Analysis

Sample ID: AGL2857-01
Sampled By: Dustie Christensen
Sample Description: Well 1E

Sample Date - Time: 12/20/2023 - 11:25
Matrix: Ground Water
Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1700	1.0	umhos/cm	1	AGL1418	12/22/23	12/22/23	
Nitrate as N	EPA 300.0	32	0.23	mg/L	1	AGL1300	12/21/23 02:59	12/21/23	

Certificate of Analysis**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
 - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
 - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
 - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
 - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
 - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
 - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
 - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
 - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
 - Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
 - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
 - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis**Definitions**

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008
Vancouver			
NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016

State of Washington	C824-23
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Sample Integrity

BSK Bottles: Yes No

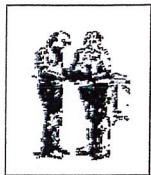
Page / of /

10

COC Info		Was temperature within range? Chemistry ≤ 6°C Micro < 8°C			Were correct containers and preservatives received for the tests requested?			
		Yes	No	NA	Yes	No	NA	
If samples were taken today, is there evidence that chilling has begun?		Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)			
Did all bottles arrive unbroken and intact?		Yes	No		Was a sufficient amount of sample received? Yes No			
Did all bottle labels agree with COC?		Yes	No		Do samples have a hold time <72 hours? Yes No			
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	NA		Was PM notified of discrepancies? PM: By/Time: Yes No NA			
250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)		Checks*	Passed?	/				
Bact Na ₂ S ₂ O ₃ :								
None (P) White Cap		—	—	/A				
Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO4 DW		Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW		pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 24 HOUR HOLD TIME		pH 9.0-9.5	P F					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—					
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	P F					
NaOH (P) Green Cap		Cl, pH > 10	P F					
NaOH + ZnAc (P)		pH > 9.5	P F					
Dissolved Oxygen 300ml (g)		—	—					
None (AG) 6003061/6062/625/622/632/8151/8270								
HCl (AG) Lt. Blue Label O&G, Diesel, TCP		—	—					
Ascorbic, EDTA, KH ₂ C ₈ H ₄ O ₄ (AG) Pink Label 525		—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—					
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—					
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	P F					
NH ₄ Cl (AG) Purple Label 552		—						
EDA (P) or (AG) Brown Label DBPs		—	—					
HCl (CG) 524.2 BTEX, Gas, MTBE 8260/624		—						
Buffer pH 4 (CG)		—	—					
H ₃ PO ₄ (CG) Salmon Label		—						
Trizma – EPA 537.1 Light Blue Label FB		—	—					
Ammonia Acetate – EPA 533 Pink Label FB		—						
Bottled Water		—	—					
Asbestos 1L (P) w/ Foil / 1L Metals Bottle		—						
Clear Glass		—	—					
OTHER:								
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check		
						pH Lot #	Cl Lot #	
S P								
S P								
Comments	*Preservation check completed by lab performing analysis.				<input checked="" type="checkbox"/> Indicates Blanks Received 504 ____ 524.2 ____ TTHM ____ 537/533 ____ TCP ____ <input checked="" type="checkbox"/> MS/MSD Received Method: _____			
	Labeled by: _____ Labels Checked by: _____							

Scanned: Ces

Rush/Short HT Page: _____ Time: _____



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Sozinho Dairy #2

Date: 7/17/2023

Source ID: Canal

Time: 8:30 am

Source Location: East side of dairy

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.

Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent

Not Applicable.

Notes: Sample clear & no smell

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGG2084
7/31/2023
Invoice: AG17576

Danny Sozinho
Sozinho Dairy #2
8489 E. Elkhorn Ave
Selma, CA 93662

RE: Report for AGG2084 RB5 Surface

Dear Danny Sozinho,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 7/17/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,
Mary Thao , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Mary Thao, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

Case Narrative

Project and Report Details

Client: Sozinho Dairy #2
Report To: Danny Sozinho
Project #: RB5-Surface
Received: 7/17/2023 - 16:00
Report Due: 7/31/2023

Invoice Details

Invoice To: Danny Sozinho
Invoice Attn: Danny Sozinho
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 27.8
Custody Seals
Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Taylor Erratabere	FINAL.RPT	
Danny Sozinho	FINAL.RPT	



AGG2084

RB5 Surface

RB5-Surface

Certificate of Analysis

Sample ID: AGG2084-01

Sampled By: Madison Looper

Sample Description: Canal

Sample Date - Time: 07/17/2023 - 08:30

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	110	1.0	umhos/cm	1	AGG1088	07/18/23	07/18/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGG1038	07/18/23 02:59	07/18/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/18/23 02:59	07/18/23	
Total Dissolved Solids	SM 2540C	75	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1212	07/19/23	07/20/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Date Qual
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EPA 300.0 - Quality Control

Batch: AGG1038

Prepared: 7/17/2023

Prep Method: Method Specific Preparation

Analyst: DXR

Blank (AGG1038-BLK1)

Nitrate as N	ND	0.23	mg/L							07/17/23
Nitrite as N	ND	0.050	mg/L							07/17/23

Blank Spike (AGG1038-BS1)

Nitrate as N	22	0.23	mg/L	23	ND	97	90-110			07/17/23
Nitrite as N	1.0	0.050	mg/L	1.0	ND	101	90-110			07/17/23

Matrix Spike (AGG1038-MS1), Source: AGG1995-02

Nitrate as N	10	0.23	mg/L	11	ND	91	80-120			07/17/23
Nitrite as N	0.49	0.050	mg/L	0.50	ND	98	80-120			07/17/23

Matrix Spike (AGG1038-MS2), Source: AGG2016-02

Nitrate as N	12	0.23	mg/L	11	1.2	94	80-120			07/18/23
Nitrite as N	0.49	0.050	mg/L	0.50	ND	97	80-120			07/18/23

Matrix Spike Dup (AGG1038-MSD1), Source: AGG1995-02

Nitrate as N	10	0.23	mg/L	11	ND	92	80-120	2	20	07/17/23
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	2	20	07/17/23

Matrix Spike Dup (AGG1038-MSD2), Source: AGG2016-02

Nitrate as N	12	0.23	mg/L	11	1.2	97	80-120	2	20	07/18/23
Nitrite as N	0.50	0.050	mg/L	0.50	ND	100	80-120	3	20	07/18/23

EPA 351.2 - Quality Control

Batch: AGG1212

Prepared: 7/19/2023

Prep Method: Method Specific Preparation

Analyst: ERA

Blank (AGG1212-BLK1)

Total Kjeldahl Nitrogen	ND	1.0	mg/L							07/20/23
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Blank Spike (AGG1212-BS1)

Total Kjeldahl Nitrogen	9.7	1.0	mg/L	10	ND	97	90-110			07/20/23
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Blank Spike Dup (AGG1212-BSD1)

Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	100	90-110	3	10	07/20/23
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Matrix Spike (AGG1212-MS1), Source: AGG1713-01

Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110			07/20/23
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Matrix Spike (AGG1212-MS2), Source: AGG2079-02

Total Kjeldahl Nitrogen	9.1	1.0	mg/L	10	ND	91	90-110			07/20/23
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Matrix Spike Dup (AGG1212-MSD1), Source: AGG1713-01

Total Kjeldahl Nitrogen	13	1.0	mg/L	10	3.5	95	90-110	0	10	07/20/23
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGG2084 Final FINAL 07 31 2023 1822 07312023 1822



AGG2084

RB5 Surface

BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 351.2 - Quality Control

Batch: AGG1212 Prepared: 7/19/2023
Prep Method: Method Specific Preparation Analyst: ERA

Matrix Spike Dup (AGG1212-MSD2), Source: AGG2079-02

Total Kjeldahl Nitrogen	9.2	1.0	mg/L	10	ND	92	90-110	1	10	07/20/23
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SM 2510B - Quality Control

Batch: AGG1088 Prepared: 7/18/2023
Prep Method: Method Specific Preparation Analyst: EFG

Blank Spike (AGG1088-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110			07/18/23
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Blank Spike Dup (AGG1088-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110	1	5	07/18/23
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Duplicate (AGG1088-DUP1), Source: AGG1977-01

Conductivity @ 25C	210	1.0	umhos/cm		210			1	5	07/18/23
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SM 2540C - Quality Control

Batch: AGG1131 Prepared: 7/18/2023
Prep Method: Method Specific Preparation Analyst: SYY

Blank (AGG1131-BLK1)

Total Dissolved Solids	ND	5.0	mg/L							07/18/23
------------------------	----	-----	------	--	--	--	--	--	--	----------

Blank Spike (AGG1131-BS1)

Total Dissolved Solids	1000		mg/L	1000		103	70-130			07/18/23
------------------------	------	--	------	------	--	-----	--------	--	--	----------

Duplicate (AGG1131-DUP1), Source: AGG2116-01

Total Dissolved Solids	350	5.0	mg/L		340			1	10	07/18/23
------------------------	-----	-----	------	--	-----	--	--	---	----	----------

Duplicate (AGG1131-DUP2), Source: AGG2116-02

Total Dissolved Solids	330	5.0	mg/L		330			2	10	07/18/23
------------------------	-----	-----	------	--	-----	--	--	---	----	----------



AGG2084

RB5 Surface

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.



AGG2084

RB5 Surface

Certificate of Analysis

Definitions

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters:

NA

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-22		

Sample Integrity

BSK Bottles: Yes No

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COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA	
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes	No	NA	
Did all bottles arrive unbroken and intact?	Yes	No		Was a sufficient amount of sample received?	Yes	No			
Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time < 72 hours?	Yes	No			
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA	PM:	Was PM notified of discrepancies? By/Time:	Yes	No	NA		
Bottles Received <small>* means preservation/chlorine checks are either NA or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D) Bacti Na ₂ S ₂ O ₃ None (P) White Cap Cr6 (P) LL Green Label/Blue Cap NH4OH(NH4)2SO4 DW Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199 ***24 HOUR HOLD TIME*** HNO ₃ (P) Red Cap or HCl (P) Purple Cap/LL Blue Label H ₂ SO ₄ (P) or (AG) Yellow Cap/Label NaOH (P) Green Cap NaOH + ZnAc (P) Dissolved Oxygen 300ml (g) None (AG) 608/8081/8082, 626, 632/8321, 6151, 8270 HCl (AG) LL Blue Label O&G, Diesel, TCP Ascorbic, EDTA, KH ₂ C ₈ O ₄ (AG) Pink Label 525 Na ₂ SO ₃ 250mL (AG) Neon Green Label 515 Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549 Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524 Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547 Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531 NH ₄ Cl (AG) Purple Label 552 EDA (P) or (AG) Brown Label DBPs HCl (CG) 524.2, BTEX, Gas, MTBE, 8260/624 Buffer pH 4 (CG) H ₃ PO ₄ (CG) Salmon Label Trizma - EPA 537, 1 Light Blue Label FB Ammonia Acetate - EPA 533 Purple Label FB Bottled Water Asbestos: 1L (P) w/ Foil / LL Metals Bottle Clear Glass OTHER:	Checks*	Passed?						
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation Check pH Lot # AG04945 CI Lot #			
Comments	*Preservation check completed by lab performing analysis.				<input checked="" type="checkbox"/> Indicates Blanks Received 504 524.2 TTHM 537/533 TCP <input checked="" type="checkbox"/> MS/MSD Received Method: _____				
	Labeled by:		Labels Checked by:						

Scanned: _____ Rush/Short HT Page: _____ Time: _____



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893

www.bskassociates.com

Turnaround Time Request

- Standard - 10 business days
 - Rush (Surcharge may apply)
- Date needed:

AGG2084 Sozm0000 07/17/2023



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*Required Fields

Temp: 27.8 ° Invoice To: #77

Company/Client Name*: <i>Sorinho Dairy #2</i>	Report Attention*: <i>Danny Sorinho</i>	Phone*:				
Address*: <i>8489 E. Elkhorn Ave.</i>	City*: <i>Selma</i>	Fax*:				
Project*:	Project #: _____	E-mail*:				
Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____	Regulatory Carbon Copies: <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other: _____	State*: Zip*: <i>Ca 93602</i>				
Sampler Name (Printed/Signature)*: <i>Madison Loper</i>	How would you like to receive your completed results?* <input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail	Regulatory Compliance <input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____				
Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid	Geotracker #:					
#	Sample Description*	Sampled* Date Time	Matrix* Comments / Station Code / WTRAX	RB5-Well	RB5-Well-5 Year Well test	RB5-Surface
1	Canal	7/17 8:30 SW			X	
<i>1-17-23</i>						

Received by (Signature and Printed Name) <i>M. Loper Madison Loper</i>	Company JM Lord Inc	Date 7/17	Time 1600	Received by (Signature and Printed Name)	Company	
Released/Arrived by (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Printed Name)	Company	
Received for Lab by (Signature and Printed Name) <i>JHM 7/23/2023</i>	Date	Time	Payment Received at Delivery Date	Amount	Check / Cash PIA# Init	
Shipping Method ONTRAC	UPS	GSO	WALK-IN	FED EX	Courier:	
Storage Method Wet Blue None						Custody Seal: <input checked="" type="checkbox"/> N
						Chilling Process Begun: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf.