

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

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

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: White River Dairy

Physical address of dairy:

20784 Laurel AVE Number and Street	Stratford City	Kings County	93266 Zip Code
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Street and nearest cross street (if no address): Highway 41 and Laurel Ave

Date facility was originally placed in operation: 01/01/1952

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0026-0120-0001-0000	0026-0120-0004-0000	0026-0120-0046-0000	0026-0120-0047-0000	0026-0120-0049-0000
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B. OPERATORS

Sousa, Carl

Operator name: <u>Sousa, Carl</u>	Telephone no.: <u>(559) 947-3504</u>	Landline	Cellular
20784 Laurel AVE Mailing Address Number and Street	Stratford City	CA State	93266 Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Sousa, Carl

Legal owner name: <u>Sousa, Carl</u>	Telephone no.: <u>(559) 947-3504</u>	Landline	Cellular
20784 Laurel AVE Mailing Address Number and Street	Stratford City	CA State	93266 Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	584	74	256	285	104	156
Number under roof	0	0	0	0	0	0
Maximum number	588	76	258	294	110	160
Average number	584	74	256	285	104	156
Avg live weight (lbs)	1,400	1,400	900	600		

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 22,145.14 tons per reporting period

Total nitrogen from manure: 273,993.88 lbs per reporting period

After ammonia losses (30% loss applied): 191,795.72 lbs per reporting period

Total phosphorus from manure: 44,568.89 lbs per reporting period

Total potassium from manure: 111,841.39 lbs per reporting period

Total salt from manure: 291,992.70 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 8,200,000 gallons

Total nitrogen generated: 81,869.71 lbs

$$\begin{aligned}
 & 8,200,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 8,200,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 8,357.02 lbs

Total potassium generated: 81,231.90 lbs

Total salt generated: 604,733.78 lbs

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
Well 1	Ground water

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E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	Corral solids	3,700.00 <i>ton</i>	Dry-weight	15.7		33,259.00	7,124.00	24,196.00		30.60

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	207,476.29	44,440.94	150,939.49	1,908,889.20
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	207,476.29	44,440.94	150,939.49	1,908,889.20

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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
Dairy Field	107	107	2	both	0026-0120-0001-0000 0026-0120-0004-0000 0026-0120-0005-0000 0026-0120-0049-0000 0026-0120-0054-0000
Totals for areas that were used for application	107	107	2		
Totals for areas that were not used for application					
Land application area totals	107	107	2		

B. CROPS AND HARVESTS

Dairy Field

Field name: Dairy Field

11/16/2022: Sorghum-Sudangrass, forage

Crop: Sorghum-Sudangrass, forage Acres planted: 107 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/02/2023	1,290.00 ton	Dry-weight		9.7	22,080.00	1,400.00	13,600.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	470.00	70.00	413.00	0.00
Total actual harvest content	12.06	480.75	30.48	296.12	1,741.86

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Dairy Field

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 107 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,926.00 <i>ton</i>	Dry-weight		60.5	43,125.00	2,800.00	20,900.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	96.00	18.00	79.20	0.00
Total actual harvest content	18.00	613.24	39.82	297.20	910.08

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

Dairy Field - 11/16/2022: Sorghum-Sudangrass, forage

Field name: Dairy FieldCrop: Sorghum-Sudangrass, forage Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	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	129.17	14.50	110.90	788.11	1,200,000.00 gal
Well 1	Ground water	0.00	0.00	0.00	0.94	12,000,000.00 gal
Application event totals		129.17	14.50	110.90	789.05	
02/10/2023	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	129.17	14.50	110.90	788.11	1,200,000.00 gal
Well 1	Ground water	0.00	0.00	0.00	280.77	12,000,000.00 gal
Application event totals		129.17	14.50	110.90	1,068.88	
04/15/2023	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	254.65	25.46	232.66	1,819.55	2,400,000.00 gal
Canal	Surface water	0.00	0.00	0.00	336.92	24,000,000.00 gal
Application event totals		254.65	25.46	232.66	2,156.47	

Dairy Field - 06/15/2023: Corn, silage

Field name: Dairy FieldCrop: Corn, silage Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Dairy Field - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	209.62	44.90	152.50	1,928.66	400.00 ton
Application event totals		209.62	44.90	152.50	1,928.66	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	106.10	10.61	96.94	758.15	1,000,000.00 gal
Canal	Surface water	0.00	0.00	0.00	336.92	24,000,000.00 gal
Application event totals		106.10	10.61	96.94	1,095.07	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	146.05	13.05	207.77	1,497.79	2,400,000.00 gal
Canal	Surface water	0.00	0.00	0.00	505.38	36,000,000.00 gal
Application event totals		146.05	13.05	207.77	2,003.17	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	505.38	36,000,000.00 gal
Application event totals		0.00	0.00	0.00	505.38	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	505.38	36,000,000.00 gal
Application event totals		0.00	0.00	0.00	505.38	

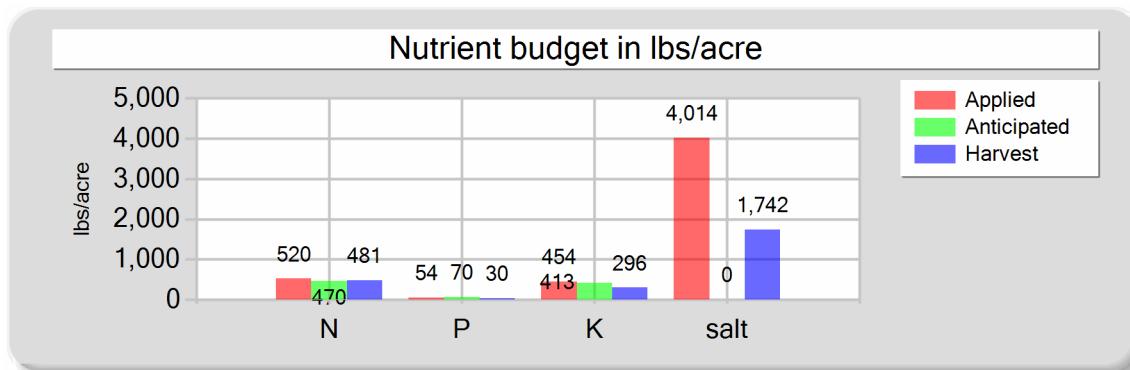
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B. NUTRIENT BUDGET

Dairy Field - 11/16/2022: Sorghum-Sudangrass, forage

Field name: Dairy Field Crop: Sorghum-Sudangrass, forage Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	512.99	54.45	454.47	3,395.78
Fresh water	0.00	0.00	0.00	618.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	519.99	54.45	454.47	4,014.40
Anticipated crop nutrient removal	470.00	70.00	413.00	0.00
Actual crop nutrient removal	480.75	30.48	296.12	1,741.86
Nutrient balance	39.23	23.97	158.35	2,272.54
Applied to removed ratio	1.08	1.79	1.53	2.30

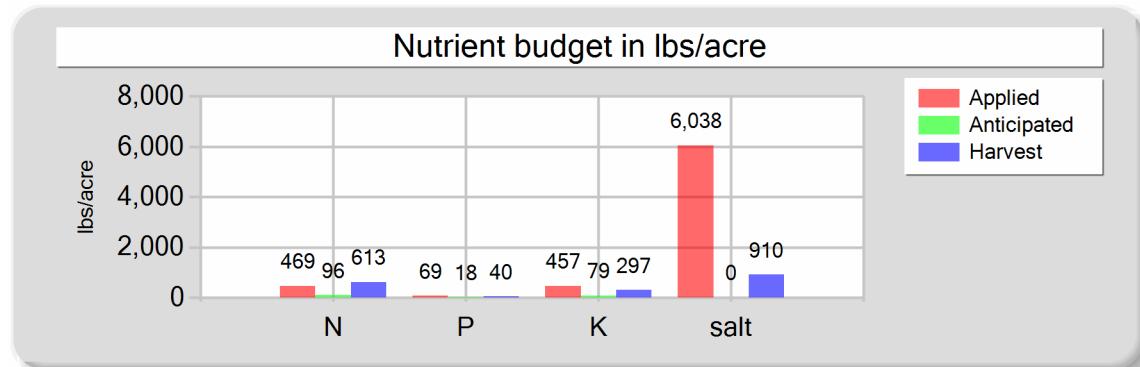
Fresh water applied
48,000,000.00 gallons
1,767.68 acre-inches
16.52 inches/acre
Process wastewater applied
4,800,000.00 gallons
176.77 acre-inches
1.65 inches/acre
Total harvests for the crop
1 harvests

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Dairy Field - 06/15/2023: Corn, silage

Field name: Dairy Field Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	132,000,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,861.11 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	45.43 inches/acre
Dry manure	209.62	44.90	152.50	1,928.66	
Process wastewater	252.15	23.65	304.71	2,255.94	
Fresh water	0.00	0.00	0.00	1,853.06	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	468.77	68.55	457.21	6,037.66	Process wastewater applied
Anticipated crop nutrient removal	96.00	18.00	79.20	0.00	3,400,000.00 gallons
Actual crop nutrient removal	613.24	39.82	297.20	910.08	125.21 acre-inches
Nutrient balance	-144.46	28.74	160.01	5,127.58	1.17 inches/acre
Applied to removed ratio	0.76	1.72	1.54	6.63	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: 15.7 %

	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	33,259.00	7,124.00	24,196.00							30.60
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: 65.4 %

	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	6,572.00	895.00	4,148.00							13.90
DL	500.00	100.00	200.00							0.67

Corral ManureSample and source description: Corral ManureSample date: 10/11/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 15.4 %

	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	28,097.00	6,257.00	24,690.00							25.10
DL	500.00	100.00	200.00							0.67

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Seperator Manure

Sample and source description: Seperator Manure

Sample date: 10/11/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 8.7 %

	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	4,976.00	562.00	869.00							8.70
DL	500.00	100.00	200.00							0.67

B. PROCESS WASTEWATER ANALYSES**1st Qtr WW**Sample and source description: 1st Qtr WWSample date: 03/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.55

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1,379.00	572.40	8.60	1.18	154.90	1,185.00								13,158.00	8,421
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

2nd Qtr WWSample and source description: 2nd Qtr WWSample date: 05/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.71

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1,360.00	669.80	17.90	0.47	136.00	1,243.00								15,190.00	9,721
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: 7.78

	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	779.00	598.60	16.40	1.25	69.70	1,110.00								12,504.00	8,002
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: 10/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.25

	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	76.00	33.00	3.00	40.79	1.50	255.00								12,409.00	7,941
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

C. FRESH WATER ANALYSES

Canal

Canal 1

Sample description: Canal 1

Sample date: 05/01/2023 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								300.00	
DL	0.10		0.01								10.00	

Well 1

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Well 1**Well 1**

Sample description: Well 1

Sample date: 07/02/2023 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								500.00	
DL	0.10		0.01								10.00	

D. SOIL ANALYSES**Dairy Field****Dairy Field**

Sample and source description: Dairy Field

Sample date: 01/17/2020 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value				25.09			
DL				0.49			

E. PLANT TISSUE ANALYSES**Dairy Field - 11/16/2022: Sorghum-Sudangrass, forage****Tissue**

Sample and source description: Tissue

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

Moisture: 9.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	46,000.00	3,500.00	40,000.00		9.00
DL	10.00	100.00	200.00		0.67

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Dairy Field - 06/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,000.00	3,500.00	34,000.00		9.50
DL	10.00	100.00	200.00		0.67

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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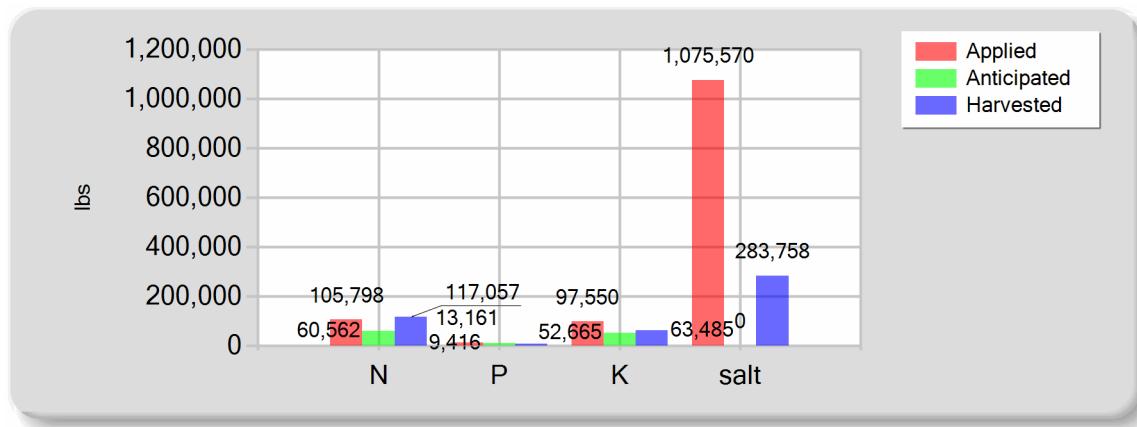
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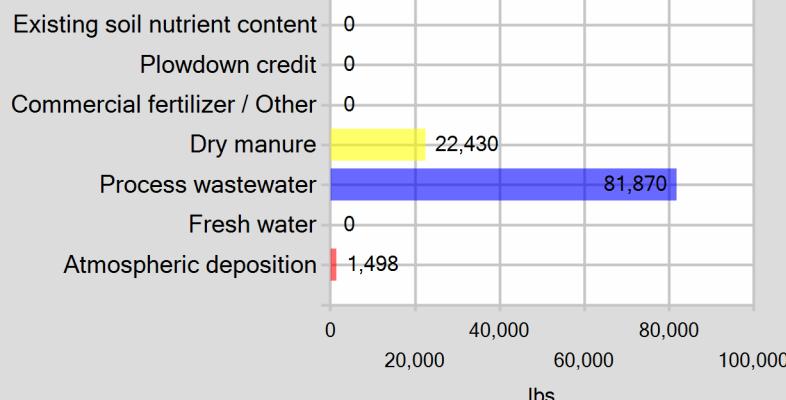
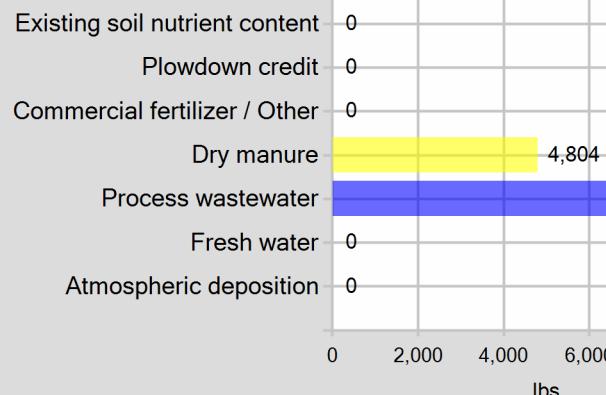
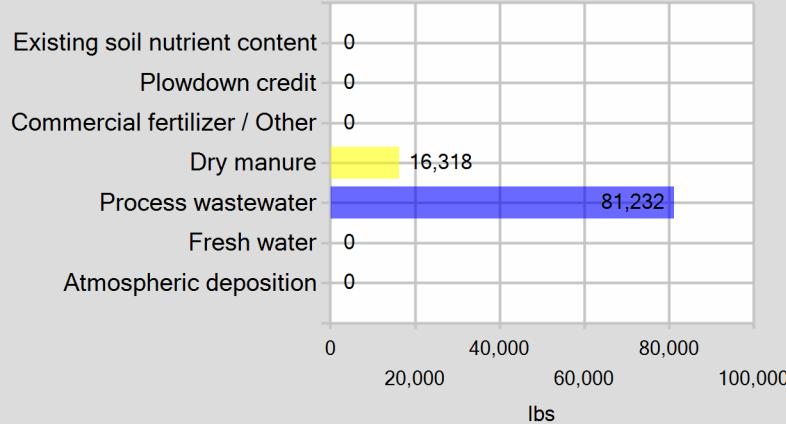
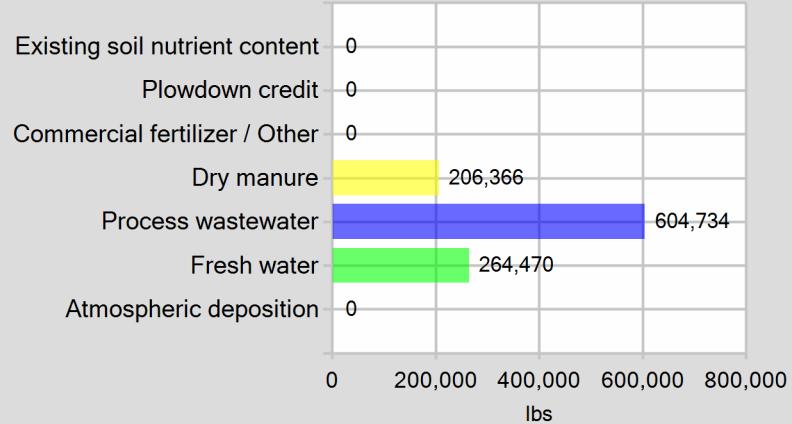
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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	22,429.87	4,804.43	16,317.78	206,366.40
Process wastewater	81,869.71	8,357.02	81,231.90	604,733.78
Fresh water	0.00	0.00	0.00	264,469.74
Atmospheric deposition	1,498.00	0.00	0.00	0.00
Total nutrients applied	105,797.58	13,161.44	97,549.68	1,075,569.92
Anticipated crop nutrient removal	60,562.00	9,416.00	52,665.40	0.00
Actual crop nutrient removal	117,057.07	7,521.95	63,484.65	283,757.76
Nutrient balance	-11,259.49	5,639.49	34,065.03	791,812.16
Applied to removed ratio	0.90	1.75	1.54	3.79

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

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

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? 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

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

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

ADDITIONAL NOTES

A. NOTES

Winter forage was cut twice, therefore it needed extra water because of the extended growth cycle.

The tissue tests were tested as a feed instead of a tissue test. The results are slightly higher due to conversion to N from protein. The sample was taken pre-harvest for marketing purpose, which tends to make the results slightly higher.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Carl Sousa

PRINT OR TYPE NAME



DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted .

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFA Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

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

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:

Name of Operator: Carl Sousa

Name of Dairy Facility: White River Dairy

Facility Address: 20784 Laurel Ave Stratford 93266
Number and Street City Zip Code

Contact Person Name and Phone Number: Carl Sousa 569-469-4974
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: MLT Soil Supplements Inc.

Address of Hauling Company /Person: P.O. Box 992 Rivesdale 93656
Number and Street City Zip Code

Contact Person: Manuel Thomas 569-966-1406
Name Phone Number

Destination Information:

Composting Facility /Broker/ Farmer / Other (identify) _____ (please circle one)

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

Manuel Thomas 2011 W Excelsior Ave Rivesdale 93656 569-966-1406
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: 8-3-23 / 8-15-23

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 3,700 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 3,700

Manure Density (if amount reported in cubic yards): _____

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

Method used to determine amount of manure: Scale Weight

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

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

Yes No

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

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

Certification:

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

Operator's Signature: Carol Douse Date: 6-5-24

Hauler's Signature: Meredith Day Date: 6-5-24



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: White River Dairy
Contact: Carl Sousa

Address: 20784 Laurel Ave
Stratford CA 93266

Summary

JMLord, Inc. personnel sampled one canal and one well at the White River Dairy on 7/7/2023 and 9/13/2023. 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 2013.

Wells Sampled

Sample	Date
Canal	7/7/2023
Well 1	9/13/2023

Spoke with dairyman and they no longer receive water from the City of Stratford, which is why there is no sample in 2018 and 2019.

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



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

AGG2091

7/31/2023

Invoice: AG17523

Carl Sousa
White River Dairy
P.O. Box 25
Stratford, CA 93266

RE: Report for AGG2091 RB5 Surface

Dear Carl Sousa,

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, Michelle Croft , at 559-497-2888.

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

Sincerely,

Michelle Croft, 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.

AGG2091 FINAL 07312023 1527



Case Narrative

Project and Report Details		Invoice Details
Client:	White River Dairy	Invoice To: White River Dairy
Report To:	Carl Sousa	Invoice Attn: Carl Sousa
Project #:	-	Project PO#: -
Received:	7/17/2023 - 16:00	
Report Due:	7/31/2023	

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:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

Recipient(s)	Report Format	CC:
Carl Sousa	FINAL.RPT	
Madison Looper	FINAL.RPT	



AGG2091

RB5 Surface

Certificate of Analysis

Sample ID: AGG2091-01

Sampled By: Madison Looper

Sample Description: Canal

Sample Date - Time: 07/17/2023 - 11:30

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	74	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 05:10	07/18/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGG1038	07/18/23 05:10	07/18/23	
Total Dissolved Solids	SM 2540C	54	5.0	mg/L	1	AGG1131	07/18/23	07/18/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGG1253	07/20/23	07/21/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					

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: AGG1253	Prepared: 7/20/2023
Prep Method: Method Specific Preparation	Analyst: ERA

Matrix Spike Dup (AGG1253-MSD2), Source: AGG2148-04

Total Kjeldahl Nitrogen	70	5.0	mg/L	10	62	76	90-110	5	10	07/21/23 MS1.0 Low
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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
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Blank Spike (AGG1131-BS1)

Total Dissolved Solids	1000	mg/L	1000		103	70-130		07/18/23
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Duplicate (AGG1131-DUP1), Source: AGG2116-01

Total Dissolved Solids	350	5.0	mg/L	340			1	10	07/18/23
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Duplicate (AGG1131-DUP2), Source: AGG2116-02

Total Dissolved Solids	330	5.0	mg/L	330			2	10	07/18/23
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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	4021-021
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		



10

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
					Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)					
Bottles Received <small>* means preservation/chlorine checks are either N/A or are performed in the lab</small>	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	NA	Was a sufficient amount of sample received?			Yes	No	NA
	Did all bottle labels agree with COC?	Yes	No	NA	Do samples have a hold time < 72 hours?			Yes	No	NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA	NA	Was PM notified of discrepancies? PM: By/Time:			Yes	No	NA
	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)		Checks*	Passed?						
	Bacti Na ₂ S ₂ O ₃		—	—						
	None (P) White Cap		—	—						
	Cr6 (P) Lt. 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/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	P F							
Dissolved Oxygen 300ml (g)		—	—							
None (AG) 608/8081/8082, 626, 632/8321, 8151, 8270		—	—							
HCl (AG)-Lt. 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		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	Check		
	S P						pH Lot #	AG04945		
Comments	*Preservation check completed by lab performing analysis.					<input checked="" type="checkbox"/> Indicates Blanks Received 504 <u> </u> 524.2 <u> </u> TTHM <u> </u> 537/533 <u> </u> TCP <u> </u> <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
<input type="checkbox"/> Standard - 10 business days
<input type="checkbox"/> Rush (Surcharge may apply)
Date needed:

ACG2091 white4970 07/17/2023

Promising Merchant: **TSU** **Term:** **12 months** **Notice:** **30 days**

Payment for services rendered by **TSU** are due in full within 30 days from the date invoice. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in **TSU's** current **Standard Terms and Conditions for Laboratory Services**. The person signing for **TSU** 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 abide by **TSU's** terms and conditions for laboratory services unless contractually bound otherwise. **TSU's** current terms and conditions can be found at www.tsuservices.com.



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

AGI1666

9/27/2023

Invoice: AG22719

Carl Sousa
White River Dairy
P.O. Box 25
Stratford, CA 93266

RE: Report for AGI1666 RB5 Well

Dear Carl Sousa,

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 9/13/2023. 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, Michelle Croft , 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.

AGI1666 FINAL 09272023 1225



AGI1666

RB5 Well

Case Narrative

Project and Report Details		Invoice Details
Client:	White River Dairy	Invoice To: White River Dairy
Report To:	Carl Sousa	Invoice Attn: Carl Sousa
Project #:	-	Project PO#: -
Received:	9/13/2023 - 14:19	
Report Due:	9/27/2023	

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 27.4
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:
Carl Sousa	FINAL.RPT	
Madison Looper	FINAL.RPT	



AGI1666

RB5 Well

Certificate of Analysis

Sample ID: AGI1666-01

Sample Date - Time: 09/13/2023 - 12:18

Sampled By: Madison Hall

Matrix: Ground Water

Sample Description: Well 1 // 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	2000	1.0	umhos/cm	1	AGI0934	09/15/23	09/15/23	
Nitrate as N	EPA 300.0	0.79	0.46	mg/L	2	AGI0834	09/14/23 15:20	09/14/23	

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 300.0 - Quality Control

Batch: AGI0834 Prepared: 9/14/2023
Prep Method: Method Specific Preparation Analyst: CTD

Blank (AGI0834-BLK1)

Nitrate as N	ND	0.23	mg/L						09/14/23
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Blank Spike (AGI0834-BS1)

Nitrate as N	22	0.23	mg/L	23	ND	99	90-110		09/14/23
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Matrix Spike (AGI0834-MS1), Source: AGI1611-04

Nitrate as N	12	0.23	mg/L	11	1.0	99	80-120		09/14/23
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Matrix Spike (AGI0834-MS2), Source: RGI0018-01

Nitrate as N	11	0.23	mg/L	11	0.23	98	80-120		09/14/23
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Matrix Spike Dup (AGI0834-MSD1), Source: AGI1611-04

Nitrate as N	12	0.23	mg/L	11	1.0	99	80-120	0	20	09/14/23
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Matrix Spike Dup (AGI0834-MSD2), Source: RGI0018-01

Nitrate as N	12	0.23	mg/L	11	0.23	100	80-120	2	20	09/14/23
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SM 2510B - Quality Control

Batch: AGI0934 Prepared: 9/15/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGI0934-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	103	90-110		09/15/23
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Blank Spike Dup (AGI0934-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	102	90-110	1	5	09/15/23
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Duplicate (AGI0934-DUP1), Source: AGI1492-03

Conductivity @ 25C	590	1.0	umhos/cm		600			1	5	09/15/23
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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	CA000792022-1	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	
250ml(A) 500ml(B) 1Liter(C) 40ml/VOA(V) 125ml(D)				Checks*	Passed?	1		
Bacti Na ₂ S ₂ O ₃				—	—			
None (P) White Cap				—	—	10		
Cr6 (P) Lt. 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/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	P F			
Dissolved Oxygen 300ml (g)				—	—			
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270				—	—			
HCl (AG) Lt. 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				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	Check
	S P						pH Lot #	
	S P						Cl 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: _____



687 N. Laverne Ave., Fresno, CA 93727
 (559) 497-2888 CA ELAP No. 1180
www.bskassociates.com

Temp: 27.4°C Thermometer ID: T7

Turnaround Time Request	
<input type="checkbox"/> Standard - 10 business days	<input type="checkbox"/> Rush (Surcharge may apply)
Date needed:	

Company/Cient Name*:

White River Dairy

Address*:

No 784 Laurel Ave

Project*:

Carl Sivasa

Report Attention*:

MaisongjMadrinc.com

Additional cc's:

City*:

Modesto

State*:

CA

Zip*:

95355

E-mail*:

PO#:

Phone*:

Fax:

Invoice To*:

*Required Fields

Reporting Options:

Trace (J-Flag) Swamp EDD Type: _____

Regulatory Carbon Copies

SWRCB (Drinking Water) EDD to California SWRCB (Drinking Water)

Regulatory Compliance:

Merced Co Fresno Co System Number*: _____

Madera Co Tulare Co

Other: 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	Time	Matrix*	Comments / Station Code / WTRAX
1	Well 4	1/3	1/18	GW	Ag Well	X RB5 - Well

Relinquisher by: (Signature and Printed Name)

WB Wilson

Relinquished by: (Signature and Printed Name)

Wilson Looper

Received for Lab by: (Signature and Printed Name)

WB Wilson

Company:

JWAD Inc.

Date:

1/13

Time:

14:19

Received by: (Signature and Printed Name)

WB Wilson

Company:

BSK

Date:

1/13/2023

Time:

14:19

Payment Received at Delivery:

Date:

Custody Seal: **Y**

Amount:

PIA#:

Check /

Intl.

Cash