

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:** Channel Islands Dairy Farms

Physical address of dairy:

13406 Road 24
Number and StreetCorcoran
CityTulare
County93212
Zip Code

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

Date facility was originally placed in operation: 01/01/1995Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X291-X020-X029-XXXX X291-X030-X011-XXXX X291-X030-X042-XXXX X291-X030-X043-XXXX**B. OPERATORS**

Channel Islands Dairy Farms, LLC

Operator name: Channel Islands Dairy Farms, LLCTelephone no.: (626) 232-1175

Landline Cellular

2370 Grand AVELong BeachCA90815

Mailing Address Number and Street

City

State

Zip Code

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

FG2 Holdings LLC

Legal owner name: FG2 Holdings LLCTelephone no.: (559) 440-8350

Landline Cellular

1306 West Herndon AVEFresnoCA93711

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	1,062	2,725	1,875	875	0
Number under roof	8,754	0	0	0	0	0
Maximum number	8,906	1,107	2,740	1,890	885	0
Average number	8,754	1,062	2,725	1,875	875	0
Avg live weight (lbs)	1,000	1,100	700	600		

Predominant milk cow breed: Jersey

Average milk production: 62 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 276,279.22 tons per reporting period

Total nitrogen from manure: 3,503,523.59 lbs per reporting period

After ammonia losses (30% loss applied): 2,452,466.51 lbs per reporting period

Total phosphorus from manure: 579,895.37 lbs per reporting period

Total potassium from manure: 1,630,460.75 lbs per reporting period

Total salt from manure: 4,366,027.80 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 178,290,180 gallons

Total nitrogen generated: 624,549.02 lbs

Total phosphorus generated: 114,781.43 lbs

Total potassium generated: 909,316.99 lbs

Total salt generated: 6,656,655.60 lbs

39,219,000 gallons applied
+ 139,071,180 gallons exported
- 0 gallons imported
= 178,290,180 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
DW NB	Ground water
DW SB	Ground water
DW SBE	Ground water
DWNB1	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 (%)
12/01/2023	Corral solids	14,700.00 <i>ton</i>	Dry-weight	8.1		22,900.00	9,200.00	23,100.00		0.00

Date	Material type	Quantity	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Ammonia-N (mg/L)	Nitrate-N (mg/L)	P (mg/L)	K (mg/L)	EC (µmhos/cm)	TDS (mg/L)
01/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	459.00	339.00	0.00	2.00	63.30	719.00		5,030
01/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	459.00	339.00	0.00	2.00	63.30	719.00		5,030
01/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	459.00	339.00	0.00	2.00	63.30	719.00		5,030
01/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	459.00	339.00	0.00	2.00	63.30	719.00		5,030
01/04/2023	Process wastewater	9,480,200.00 <i>gal</i>	459.00	339.00	0.00	2.00	63.30	719.00		5,030
04/03/2023	Process wastewater	6,080,050.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
04/16/2023	Process wastewater	1,737,400.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
04/25/2023	Process wastewater	2,278,850.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
05/19/2023	Process wastewater	1,989,000.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
06/07/2023	Process wastewater	1,832,600.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
06/20/2023	Process wastewater	4,528,800.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
06/24/2023	Process wastewater	1,758,650.00 <i>gal</i>	420.00	408.00	0.00	0.00	88.30	705.00		2,700
07/09/2023	Process wastewater	4,659,700.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/04/2023	Process wastewater	5,203,700.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/09/2023	Process wastewater	5,255,550.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/15/2023	Process wastewater	1,789,250.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/20/2023	Process wastewater	10,000,000.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/20/2023	Process wastewater	10,000,000.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
08/20/2023	Process wastewater	9,325,240.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
09/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
09/04/2023	Process wastewater	10,000,000.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280
09/04/2023	Process wastewater	3,152,190.00 <i>gal</i>	367.00	358.00	0.00	0.00	91.60	446.00		4,280

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Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	618,725.94	248,571.12	624,129.66	0.00
Process wastewater	473,671.76	94,064.45	674,000.84	5,010,424.35
Total exports for all materials	1,092,397.70	342,635.57	1,298,130.50	5,010,424.35

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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
30-N	210	210	1	process wastewater	X291-X130-X001-XXXX
30-S	293	293	1	process wastewater	X291-X130-X001-XXXX
31-NW	141	141	1	process wastewater	X291-X120-X003-XXXX
Totals for areas that were used for application	644	644	3		
Totals for areas that were not used for application					
Land application area totals	644	644	3		

B. CROPS AND HARVESTS

30-N

Field name: 30-N

12/04/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 210 Plant date: 12/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	4,105.00 <i>ton</i>	Dry-weight		64.6	13,500.00	2,500.00	13,800.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	200.00	34.00	150.00	1,660.00
Total actual harvest content	19.55	186.84	34.60	190.99	1,494.69

30-S

Field name: 30-S

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30-S

12/07/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 293 Plant date: 12/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/21/2023	5,415.00 ton	Dry-weight		60.4	13,900.00	2,500.00	13,600.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	200.00	34.00	150.00	1,660.00
Total actual harvest content	18.48	203.46	36.59	199.07	1,492.99

31-NW

Field name: 31-NW

12/12/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 141 Plant date: 12/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	2,804.00 ton	Dry-weight		63.6	14,600.00	2,600.00	14,700.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	20.00	200.00	34.00	150.00	1,660.00
Total actual harvest content	19.89	211.37	37.64	212.82	1,606.99

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NUTRIENT BUDGET

A. LAND APPLICATIONS

30-N - 12/04/2022: Triticale, soft dough

Field name: 30-N

Crop: Triticale, soft dough

Plant date: 12/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/07/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	80.35	11.03	125.32	876.69	4,386,000.00 gal
DW NB	Ground water	0.00	0.00	0.00	142.82	18,837,000.00 gal
Application event totals		80.35	11.03	125.32	1,019.51	
02/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	76.61	10.52	119.49	835.91	4,182,000.00 gal
DW NB	Ground water	0.00	0.00	0.00	138.11	18,216,000.00 gal
Application event totals		76.61	10.52	119.49	974.02	
03/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.68	10.39	118.03	825.72	4,131,000.00 gal
DW NB	Ground water	0.00	0.00	0.00	133.41	17,595,000.00 gal
Application event totals		75.68	10.39	118.03	959.12	

30-S - 12/07/2022: Triticale, soft dough

Field name: 30-S

Crop: Triticale, soft dough

Plant date: 12/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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30-S - 12/07/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/19/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.67	10.39	118.01	825.61	5,763,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	129.36	23,805,000.00 <i>gal</i>
Application event totals		75.67	10.39	118.01	954.97	
02/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	74.33	10.21	115.93	811.00	5,661,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	128.24	23,598,000.00 <i>gal</i>
Application event totals		74.33	10.21	115.93	939.23	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.99	10.02	113.84	796.39	5,559,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	125.99	23,184,000.00 <i>gal</i>
Application event totals		72.99	10.02	113.84	922.37	

31-NW - 12/12/2022: Triticale, soft dough

Field name: 31-NW

Crop: Triticale, soft dough

Plant date: 12/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.45	12.42	141.07	986.87	3,315,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	158.95	14,076,000.00 <i>gal</i>
Application event totals		90.45	12.42	141.07	1,145.82	

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31-NW - 12/12/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	86.27	11.85	134.55	941.32	3,162,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	154.28	13,662,000.00 <i>gal</i>
Application event totals		86.27	11.85	134.55	1,095.60	
03/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.49	11.46	130.21	910.95	3,060,000.00 <i>gal</i>
DW NB	Ground water	0.00	0.00	0.00	151.94	13,455,000.00 <i>gal</i>
Application event totals		83.49	11.46	130.21	1,062.89	

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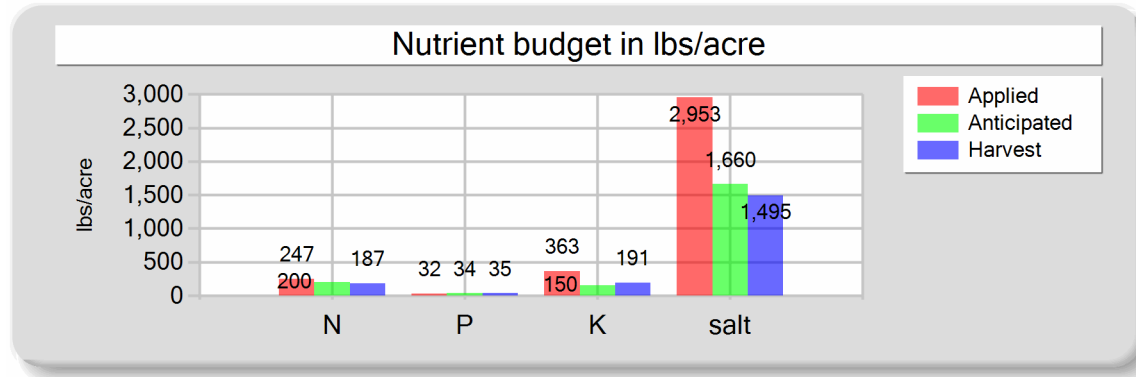
B. NUTRIENT BUDGET

30-N - 12/04/2022: Triticale, soft dough

Field name: 30-N

Crop: Triticale, soft dough

Plant date: 12/04/2022



	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	232.64	31.94	362.83	2,538.31
Fresh water	0.00	0.00	0.00	414.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	246.64	31.94	362.83	2,952.65
Anticipated crop nutrient removal	200.00	34.00	150.00	1,660.00
Actual crop nutrient removal	186.84	34.60	190.99	1,494.69
Nutrient balance	59.80	-2.66	171.84	1,457.96
Applied to removed ratio	1.32	0.92	1.90	1.98

Fresh water applied
54,648,000.00 gallons
2,012.50 acre-inches
9.58 inches/acre
Process wastewater applied
12,699,000.00 gallons
467.66 acre-inches
2.23 inches/acre
Total harvests for the crop
1 harvests

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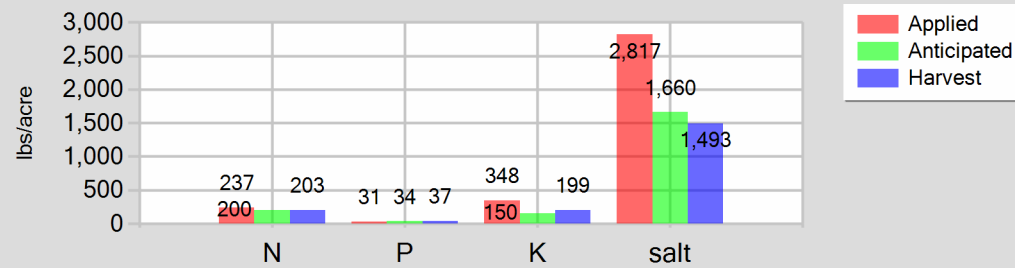
30-S - 12/07/2022: Triticale, soft dough

Field name: 30-S

Crop: Triticale, soft dough

Plant date: 12/07/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	222.98	30.62	347.78	2,432.99
Fresh water	0.00	0.00	0.00	383.59
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	236.98	30.62	347.78	2,816.58
Anticipated crop nutrient removal	200.00	34.00	150.00	1,660.00
Actual crop nutrient removal	203.46	36.59	199.07	1,492.99
Nutrient balance	33.53	-5.97	148.71	1,323.59
Applied to removed ratio	1.16	0.84	1.75	1.89

Fresh water applied
70,587,000.00 gallons
2,599.48 acre-inches
8.87 inches/acre
Process wastewater applied
16,983,000.00 gallons
625.43 acre-inches
2.13 inches/acre
Total harvests for the crop
1 harvests

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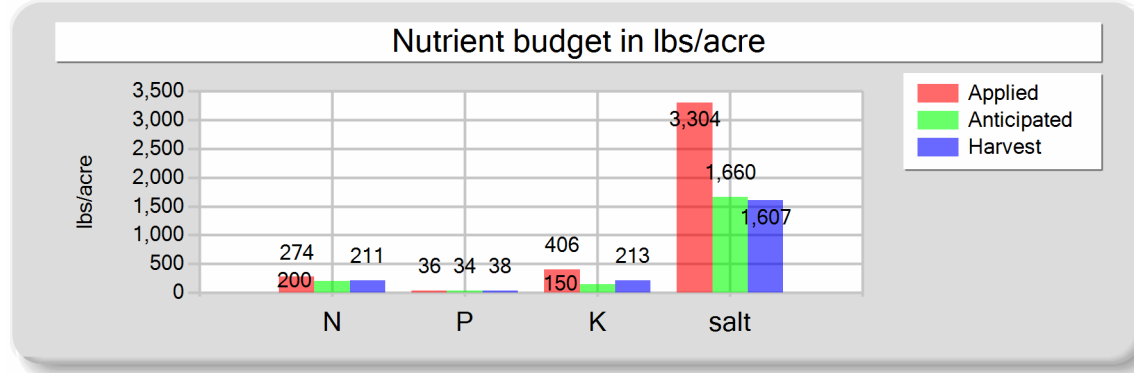
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31-NW - 12/12/2022: Triticale, soft dough

Field name: 31-NW

Crop: Triticale, soft dough

Plant date: 12/12/2022



	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	260.21	35.73	405.83	2,839.14
Fresh water	0.00	0.00	0.00	465.17
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	274.21	35.73	405.83	3,304.31
Anticipated crop nutrient removal	200.00	34.00	150.00	1,660.00
Actual crop nutrient removal	211.37	37.64	212.82	1,606.99
Nutrient balance	62.84	-1.91	193.02	1,697.32
Applied to removed ratio	1.30	0.95	1.91	2.06

Fresh water applied
41,193,000.00 gallons
1,517.00 acre-inches
10.76 inches/acre

Process wastewater applied
9,537,000.00 gallons
351.22 acre-inches
2.49 inches/acre

Total harvests for the crop
1 harvests

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NUTRIENT ANALYSES

A. MANURE ANALYSES

Manure

Sample and source description: Manure

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

Moisture: 8.1 %

	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	22,900.00	9,200.00	23,100.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

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

Moisture: 27.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,100.00	9,200.00	22,800.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 03/06/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	459.00	339.00		2.00	63.30	719.00								7,580.00	5,030
DL	10.00	2.00		2.00	0.20	0.50								100.00	10

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Lagoon

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	420.00	408.00			88.30	705.00								4,060.00	2,700
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 08/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	367.00	358.00			91.60	446.00								6,440.00	4,280
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 11/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	556.00	552.00			55.10	487.00								7,870.00	5,230
DL	10.00	2.00			0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

DW NB

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

DW NB

DW NB

Sample description: DW NBSample date: 12/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								318.00	
DL	0.40		0.40								1.00	

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

30-N - 12/04/2022: Triticale, soft dough

Triticale

Sample and source description: TriticaleSample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	2,500.00	13,800.00		10.80
DL	500.00	200.00	200.00		0.05

30-S - 12/07/2022: Triticale, soft dough

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

30-S - 12/07/2022: Triticale, soft dough

TriticaleSample and source description: TriticaleSample date: 05/21/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 60.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,900.00	2,500.00	13,600.00		10.20
DL	500.00	200.00	200.00		0.05

31-NW - 12/12/2022: Triticale, soft dough

TriticaleSample and source description: TriticaleSample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,600.00	2,600.00	14,700.00		11.10
DL	500.00	200.00	200.00		0.05

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

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

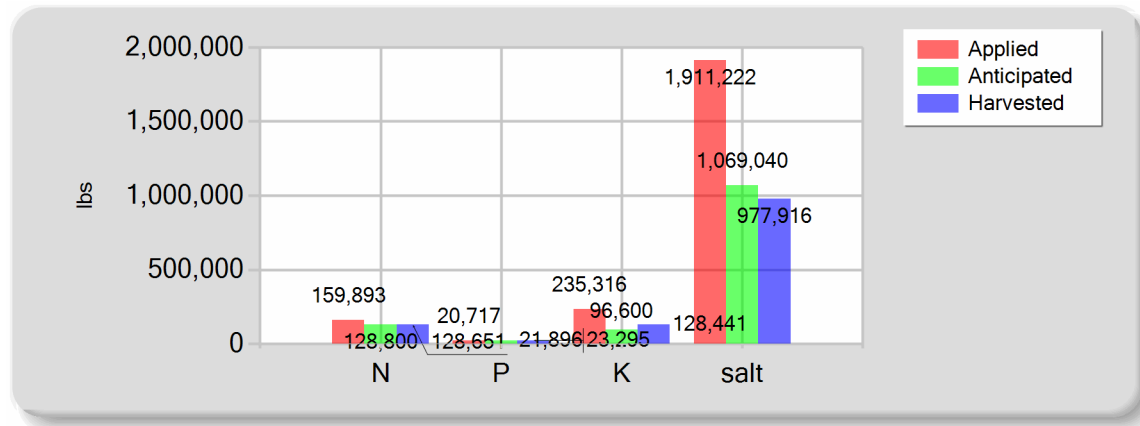
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

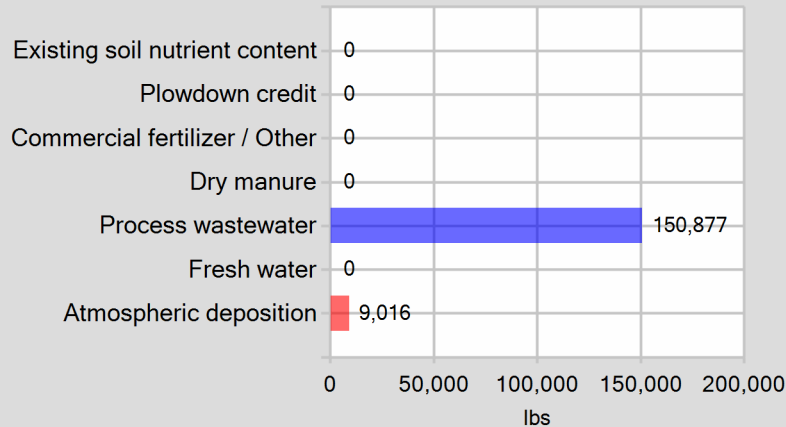
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	150,877.26	20,716.99	235,316.16	1,646,231.25
Fresh water	0.00	0.00	0.00	264,990.99
Atmospheric deposition	9,016.00	0.00	0.00	0.00
Total nutrients applied	159,893.26	20,716.99	235,316.16	1,911,222.24
Anticipated crop nutrient removal	128,800.00	21,896.00	96,600.00	1,069,040.00
Actual crop nutrient removal	128,651.40	23,294.96	128,440.83	977,915.71
Nutrient balance	31,241.86	-2,577.98	106,875.33	933,306.53
Applied to removed ratio	1.24	0.89	1.83	1.95

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

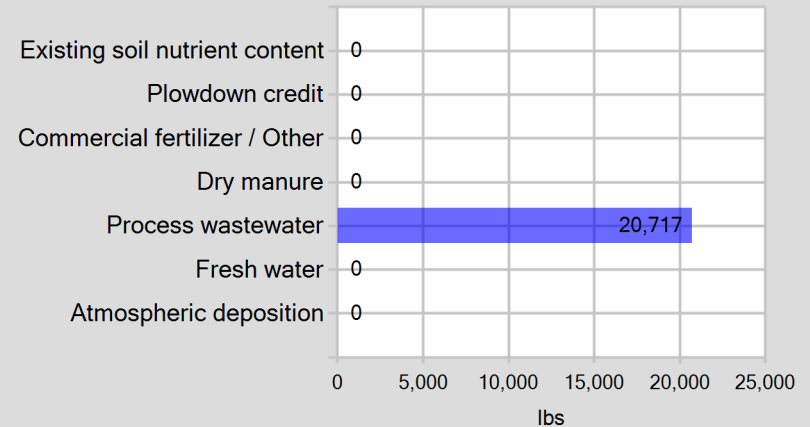


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

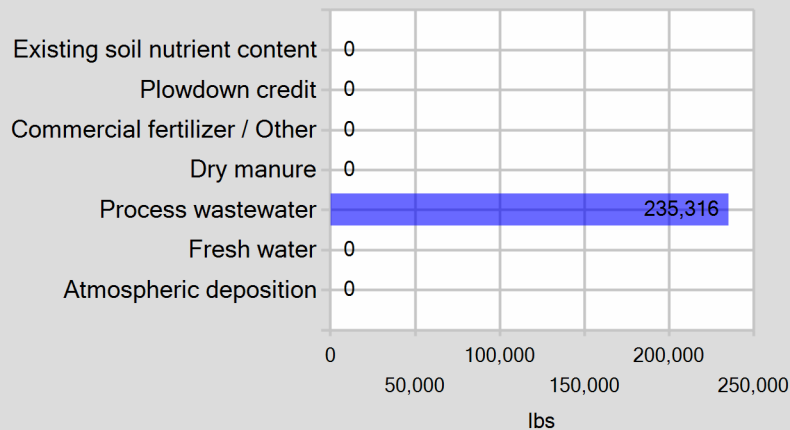
Pounds of nitrogen applied



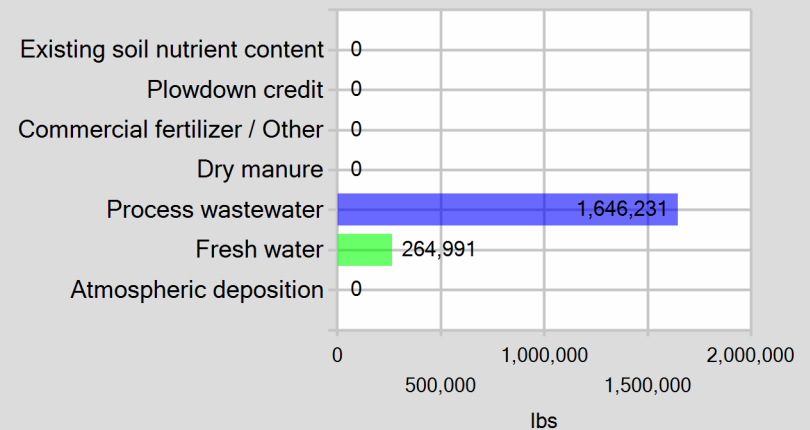
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

Wells DWSB, DWSBE, and DWNB1 were out of service in 2023.

Fields are no longer associated with the dairy facility and have been removed.

Wells IW8NW, IW30S, and IW30SE were removed from the facility.

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

FG2 Holdings LLC

PRINT OR TYPE NAME

DATE

SIGNATURE OF OPERATOR OF FACILITY

Channel Islands Dairy Farms, LLC

PRINT OR TYPE NAME

DATE

6/11/22

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.

January 2, 2024

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

Lab No. : VI 2348544
Customer No. : 4019696
Reference : 3499

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
DWNB	12/14/2023	12/14/2023	VI 2348544-001	DW

Sampling and Receipt Information:

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


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

Test Summary

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2024-01-03

January 2, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : DWNB

Project : Channel Islands

Lab No. : VI 2348544-001

Customer No. : 4019696

Reference : 3499

Sampled On : December 14, 2023 at 10:15

Sampled By : Brandon

Received On : December 14, 2023 at 13:37

Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	15:24	lfs
Conductivity	318	1	umhos/cm	1600 ²	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	13:31	krh

DQF Flags Definition:

U Constituent results were non-detect.

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

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

Corporate Offices & Laboratory

853 Corporation Street

Santa Paula, CA 93060

TEL: (805)392-2000

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

CA ELAP Certification No. 1573

Office & Laboratory

2500 Stagecoach Road

Stockton, CA 95215

TEL: (209)942-0182

FAX: (209)942-0423

CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue

Chico, CA 95926

TEL: (530)343-5818

FAX: (530)343-3807

CA ELAP Certification No. 2670

Office & Laboratory

3442 Empresa Drive, Suite D

San Luis Obispo, CA 93401

TEL: (805)783-2940

FAX: (805)783-2912

CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue

Visalia, CA 93291

TEL: (559)734-9473

FAX: (559)734-8435

CA ELAP Certification No. 2810

January 2, 2024
Sentry Ag Service

Lab No. : VI 2348544
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2348744-001)	Dup	umhos/cm		0.2%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.7%	80-120	
			MS	mg/L	5.609	96.4%	66-125	
		(STK2357151-001)	MSD	mg/L	5.609	98.4%	66-125	
			MSRPD	mg/L		1.6%	≤30.4	

Definition

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



Laboratory Analysis Work Order

3499

SITE NAME: Channel Islands

2348544
LABORATORY: VT / FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

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

100°C
RSE
TH407

Process Waste Water (lagoon)

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

Manure

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

Plant Tissue

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

Soil

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

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N *	pH	Temp
1	DWNB3	domestic well	W1	12/14/23 10:15	Brendan	0		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<i>[Signature]</i>	SAS		12/14/23 13:37
2 nd	<i>[Signature]</i>	FGL	12/14/23 13:37	
3 rd	<i>[Signature]</i>	FGL		12/14/23 17:30
4 th	<i>[Signature]</i>	GLS	12/14/23 17:30	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: *[Signature]* 1155

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

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

2. Temp IR Gun ID #: 407

3. Were samples received on ice? Yes No Temps: 10.0°C / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

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

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

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

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

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

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

Sample Receipt Review completed by (initials): NB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): 500039403 + 500039404
500037370

2. Temp IR Gun ID #: 264

3. Were samples received on ice? Yes No Temps: 2 / / 3 / 1 / 1
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

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

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

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

Sample Verification, Labeling and Distribution:

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

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

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

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

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

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

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

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

Discrepancy Documentation:

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

1. Person Contacted: Phone Number:

Initiated By: Date:

Problem:

Resolution:

2. Person Contacted:

Initiated By:

Problem:

Resolution:

(4019696)
Sentry Ag Service
VI 2348544

iv 12/15/2023 09:47:07



01 2348544

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:			
Name of Operator: <u>Channel Islands Dairy Farms</u>			
Name of Dairy Facility: <u>Channel Islands Dairy Farms</u>			
Facility Address: <u>13406 Rd 24 Corcoran 93212</u>			
Number and Street		City	Zip Code
Contact Person Name and Phone Number: <u>Harvey 559-967-0477</u>			
Name		Phone Number	
Manure/Process Wastewater Hauler Information:			
Name of Hauling Company/Person: <u>Channel Islands Dairy Farms</u>			
Address of Hauling Company /Person: <u>Same as above</u>			
Number and Street		City	Zip Code
Contact Person: <u>Same</u>			
Name		Phone Number	
Destination Information:			
Composting Facility / Broker / <u>Farmer</u> / Other (identify) _____ (please circle one)			
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):			
<u>Sandridge Partners LP 960 N San Antonio Rd STE 114 Los Angeles 94022</u>			
Name	Number and Street	City	Zip Code Phone Number
			408-904-8278
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:			
<u>Same as above</u>			
Number and Street	City	Zip Code	Assessor's Parcel Number
Dates Hauled: <u>March 23 - Dec 23</u>			
Amount Hauled:			
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:			
Manure: <u>14,700</u> <u>(Tons)</u> or Cubic Yards (indicate which units used)			
Manure Solids Content (if amount reported in tons): <u>72.2%</u>			
Manure Density (if amount reported in cubic yards): _____			

Method used to determine amount of manure: Scale

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

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

____ Yes ____ No

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

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

Certification:

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

Operator's Signature: _____

Date: 6/11/24

Hauler's Signature: _____

Date: 6/11/24