

**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:** Coderview Holsteins

Physical address of dairy:

40396 W Valeria  
Number and StreetDos Palos  
CityFresno  
County93620  
Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 06/01/1955Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0001-0210-0019-0000**B. OPERATORS**

Coderniz, Frank James

Operator name: Coderniz, Frank JamesTelephone no.: (209) 392-6735 (209) 246-8125  
Landline Cellular40396 W ValeriaDos Palos  
CityCA  
State93620  
Zip Code

Mailing Address Number and Street

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

Coderniz, Frank James

Legal owner name: Coderniz, Frank JamesTelephone no.: (209) 392-6735 (209) 246-8125  
Landline Cellular40396 W ValeriaDos Palos  
CityCA  
State93620  
Zip Code

Mailing Address Number and Street

**This owner is responsible for paying permit fees.**

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

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

## 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	0	0	25	0	0
Number under roof	0	0	0	0	0	0
Maximum number	0	0	0	25	0	0
Average number	0	0	0	25	0	0
Avg live weight (lbs)	0	0	0	700		

Predominant milk cow breed: HolsteinAverage milk production: 70 pounds per cow per day

## B. MANURE GENERATED

Total manure excreted by the herd: 236.70 tons per reporting periodTotal nitrogen from manure: 2,372.50 lbs per reporting periodAfter ammonia losses (30% loss applied): 1,660.75 lbs per reporting periodTotal phosphorus from manure: 401.50 lbs per reporting periodTotal potassium from manure: 1.00 lbs per reporting periodTotal salt from manure: 0.00 lbs per reporting period

## C. PROCESS WASTEWATER GENERATED

Process wastewater generated: \_\_\_\_\_ gallons

Total nitrogen generated: \_\_\_\_\_ lbs

Total phosphorus generated: \_\_\_\_\_ lbs

Total potassium generated: \_\_\_\_\_ lbs

Total salt generated: \_\_\_\_\_ lbs

	0 gallons applied
+	0 gallons exported
-	0 gallons imported
=	0 gallons generated

## D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Central Canal	Surface water
Irrigation Well	Ground water
Parsin Canal	Surface water
Shop	Ground water

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

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

**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.*

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
01/01/2023	Liquid commercial fertilizer <i>UN32</i>	15,000.00 <i>gal</i>			32.000000	0.000000	0.000000	0.000000
01/01/2023	Solid commercial fertilizer <i>Fertilizer Blend</i>	410.00 <i>ton</i>	As-is	0.1	55.000000	5.000000	40.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	491,056.00	41,000.00	328,000.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	491,056.00	41,000.00	328,000.00	0.00

**G. NUTRIENT EXPORTS***No solid nutrient exports entered.**No liquid nutrient exports entered.*

**Annual Report - General Order No. R5-2007-0035***Reporting period 01/01/2023 to 12/31/2023.***APPLICATION AREA****A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
101	95	95	6	none	0001-0220-002S-0000
102	74	74	1	none	0001-0220-002S-0000
228	89	89	1	none	0001-0210-0019-0000
367	31	31	1	none	0001-0220-015S-0000
368	32	32	1	none	0001-0210-0017-0000
385	41	41	1	none	0001-0210-0019-0000
400	31	31	6	none	0001-0220-011S-0000
73	31	31	1	none	0001-0210-0019-0000
74	69	69	2	none	0001-0220-011S-0000
75	31	31	2	none	0001-0220-011S-0000
79	18	18	6	none	0001-0230-0019-0000
900	60	60	6	none	0001-0210-0007-0000 0001-0210-0018-0000 0001-0210-008S-0000
Totals for areas that were used for application					
Totals for areas that were not used for application	602	602	34		
Land application area totals	602	602	34		

**B. CROPS AND HARVESTS**

101
Field name: <u>101</u>

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

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

101

09/02/2019: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 95 Plant date: 09/02/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
05/14/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
06/08/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
07/04/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/01/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/28/2023	760.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	48.00	2,880.00	259.20	2,016.00	0.00
Total actual harvest content	48.00	3,388.80	307.20	2,006.40	7,949.76

102

Field name: 102

04/11/2023: Cotton, lint

Crop: Cotton, lint

Acres planted: 74 Plant date: 04/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	222.00 ton	As-is		0.1	17,500.00	3,000.00	3,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	105.00	17.10	35.10	0.00
Total actual harvest content	3.00	105.00	18.00	18.00	599.40

228

Field name: 228

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

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

228

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 89 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/13/2023	2,670.00 ton	As-is		70.0	4,100.00	1,700.00	8,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	270.00
Total actual harvest content	30.00	246.00	102.00	498.00	1,332.00

367

Field name: 367

04/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 04/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/13/2023	930.00 ton	As-is		70.0	4,100.00	1,700.00	8,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	102.00	498.00	1,332.00

368

Field name: 368

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

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

368

04/12/2023: Cotton, lint

Crop: Cotton, lint Acres planted: 32 Plant date: 04/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	96.00 ton	As-is		0.1	17,500.00	3,000.00	3,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	105.00	17.10	35.10	0.00
Total actual harvest content	3.00	105.00	18.00	18.00	599.40

385

Field name: 385

04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/13/2023	1,230.00 ton	As-is		70.0	4,100.00	1,700.00	8,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	102.00	498.00	1,332.00

400

Field name: 400

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

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

400

10/10/2018: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 31 Plant date: 10/10/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
05/14/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
06/08/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
07/04/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/01/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/28/2023	248.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	48.00	2,880.00	259.20	2,016.00	0.00
Total actual harvest content	48.00	3,388.80	307.20	2,006.40	7,949.76

73

Field name: 73

04/12/2023: Cotton, lint

Crop: Cotton, lint

Acres planted: 31 Plant date: 04/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/27/2023	93.00 ton	As-is		0.1	17,500.00	3,000.00	3,000.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	105.00	17.10	35.10	0.00
Total actual harvest content	3.00	105.00	18.00	18.00	599.40

74

Field name: 74



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

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

74

10/18/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stageAcres planted: 69 Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/17/2023	690.00 ton	As-is		70.0	15,800.00	3,200.00	18,300.00		14.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	160.00	28.00	120.00	0.00
Total actual harvest content	10.00	316.00	64.00	366.00	864.00

05/20/2023: Corn, silage

Crop: Corn, silageAcres planted: 69 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	2,070.00 ton	As-is		70.0	4,100.00	1,700.00	8,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	102.00	498.00	1,332.00

75

Field name: 75

10/18/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stageAcres planted: 31 Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/17/2023	310.00 ton	As-is		70.0	15,800.00	3,200.00	18,300.00		14.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	160.00	28.00	120.00	0.00
Total actual harvest content	10.00	316.00	64.00	366.00	864.00

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

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

75

05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	930.00 ton	As-is		70.0	4,100.00	1,700.00	8,300.00		7.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.00	246.00	102.00	498.00	1,332.00

79

Field name: 79

10/01/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 18 Plant date: 10/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
05/14/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
06/08/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
07/04/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/01/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/28/2023	144.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	48.00	2,880.00	259.20	2,016.00	0.00
Total actual harvest content	48.00	3,388.80	307.20	2,006.40	7,949.76

900

Field name: 900

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

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

900

09/28/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 60 Plant date: 09/28/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/14/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
05/14/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
06/08/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
07/04/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/01/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10
08/28/2023	480.00 ton	As-is		9.0	35,300.00	3,200.00	20,900.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	48.00	2,880.00	259.20	2,016.00	0.00
Total actual harvest content	48.00	3,388.80	307.20	2,006.40	7,949.76

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

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

## NUTRIENT BUDGET

## A. LAND APPLICATIONS

101 - 09/02/2019: Alfalfa, hay

Field name: 101

Crop: Alfalfa, hay

Plant date: 09/02/2019

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/22/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Fertilizer Blend	Solid commercial fertilizer	2,500.00	200.00	1,800.00	0.00	
Application event totals		2,500.00	200.00	1,800.00	0.00	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	121.75	18,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	121.75	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	142.04	21,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	142.04	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	169.10	25,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	169.10	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	108.22	16,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	108.22	

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

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

## 101 - 09/02/2019: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	118.37	17,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	118.37	

## 102 - 04/11/2023: Cotton, lint

Field name: 102

Crop: Cotton, lint

Plant date: 04/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
Application event totals		80.00	0.00	0.00	0.00	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	121.57	14,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	121.57	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	112.88	13,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	112.88	

## 228 - 04/17/2023: Corn, silage

Field name: 228

Crop: Corn, silage

Plant date: 04/17/2023

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

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

228 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
05/03/2023	Sidedress	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32		Liquid commercial fertilizer	200.00	0.00	0.00	0.00	
Application event totals			200.00	0.00	0.00	0.00	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal		Surface water	0.00	0.00	0.00	109.52	16,000,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	109.52	
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
Central Canal		Surface water	0.00	0.00	0.00	75.29	11,000,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	75.29	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal		Surface water	0.00	0.00	0.00	109.52	16,000,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	109.52	

367 - 04/17/2023: Corn, silage

Field name: 367

Crop: Corn, silage

Plant date: 04/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/03/2023	Sidedress	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32		Liquid commercial fertilizer	200.00	0.00	0.00	0.00	
Application event totals			200.00	0.00	0.00	0.00	

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

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

## 367 - 04/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	196.51	10,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	196.51	
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
Central Canal	Surface water	0.00	0.00	0.00	206.34	10,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	206.34	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	157.21	8,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	157.21	

## 368 - 04/12/2023: Cotton, lint

Field name: 368

Crop: Cotton, lint

Plant date: 04/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
Application event totals		80.00	0.00	0.00	0.00	
06/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	57.11	3,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	57.11	

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

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

368 - 04/12/2023: Cotton, lint

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	57.11	3,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	57.11	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	171.33	9,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	171.33	

385 - 04/18/2023: Corn, silage

Field name: 385

Crop: Corn, silage

Plant date: 04/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/03/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	200.00	0.00	0.00	0.00	
Application event totals		200.00	0.00	0.00	0.00	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	133.72	9,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	133.72	
06/14/2023	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
Central Canal	Surface water	0.00	0.00	0.00	118.87	8,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	118.87	



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

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

385 - 04/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Central Canal	Surface water	0.00	0.00	0.00	133.72	9,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	133.72	

400 - 10/10/2018: Alfalfa, hay

Field name: 400

Crop: Alfalfa, hay

Plant date: 10/10/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/22/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Fertilizer Blend	Solid commercial fertilizer	2,500.00	200.00	1,800.00	0.00	
Application event totals		2,500.00	200.00	1,800.00	0.00	
06/14/2023	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
Central Canal	Surface water	0.00	0.00	0.00	78.60	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.60	
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
Central Canal	Surface water	0.00	0.00	0.00	78.60	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.60	
09/02/2023	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
Central Canal	Surface water	0.00	0.00	0.00	78.60	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.60	

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

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

73 - 04/12/2023: Cotton, lint

Field name: 73

Crop: Cotton, lint

Plant date: 04/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/08/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	80.00	0.00	0.00	0.00	
Application event totals		80.00	0.00	0.00	0.00	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	137.56	7,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	137.56	
08/20/2023	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
Central Canal	Surface water	0.00	0.00	0.00	78.60	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.60	

74 - 10/18/2022: Wheat, silage, boot stage

Field name: 74

Crop: Wheat, silage, boot stage

Plant date: 10/18/2022

No nutrient budget entered for this crop.

74 - 05/20/2023: Corn, silage

Field name: 74

Crop: Corn, silage

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
------------------	--------------------	------------------------------	----------------------------------	----------------------------------

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

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

## 74 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/03/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	200.00	0.00	0.00	0.00	
Application event totals		200.00	0.00	0.00	0.00	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	44.14	5,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	44.14	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	61.80	7,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	61.80	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	79.46	9,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	79.46	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	17.66	2,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.66	

## 75 - 10/18/2022: Wheat, silage, boot stage

Field name: 75

Crop: Wheat, silage, boot stage

Plant date: 10/18/2022

No nutrient budget entered for this crop.

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

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

75 - 05/20/2023: Corn, silage

Field name: 75

Crop: Corn, silage

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/03/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	200.00	0.00	0.00	0.00	
Application event totals		200.00	0.00	0.00	0.00	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	98.26	5,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	98.26	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	78.60	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	78.60	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	176.86	9,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	176.86	
08/20/2023	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
Central Canal	Surface water	0.00	0.00	0.00	39.30	2,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	39.30	

79 - 10/01/2022: Alfalfa, hay

Field name: 79

Crop: Alfalfa, hay

Plant date: 10/01/2022

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

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

**79 - 10/01/2022: Alfalfa, hay**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/22/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Fertilizer Blend	Solid commercial fertilizer	2,500.00	200.00	1,800.00	0.00	
Application event totals		2,500.00	200.00	1,800.00	0.00	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	71.40	2,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	71.40	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	71.40	2,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	71.40	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	107.09	3,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	107.09	
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Parsin Canal	Surface water	0.00	0.00	0.00	71.40	2,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	71.40	
09/20/2023	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
Parsin Canal	Surface water	0.00	0.00	0.00	142.79	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	142.79	

**900 - 09/28/2020: Alfalfa, hay**

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

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

900 - 09/28/2020: Alfalfa, hay

Field name: 900

Crop: Alfalfa, hay

Plant date: 09/28/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/22/2023	Sidedress	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Fertilizer Blend	Solid commercial fertilizer	2,500.00	200.00	1,800.00	0.00	
Application event totals		2,500.00	200.00	1,800.00	0.00	
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	50.77	5,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	50.77	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	50.77	5,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	50.77	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	30.46	3,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	30.46	
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Central Canal	Surface water	0.00	0.00	0.00	50.77	5,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	50.77	
09/20/2023	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
Central Canal	Surface water	0.00	0.00	0.00	40.61	4,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.61	

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

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

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

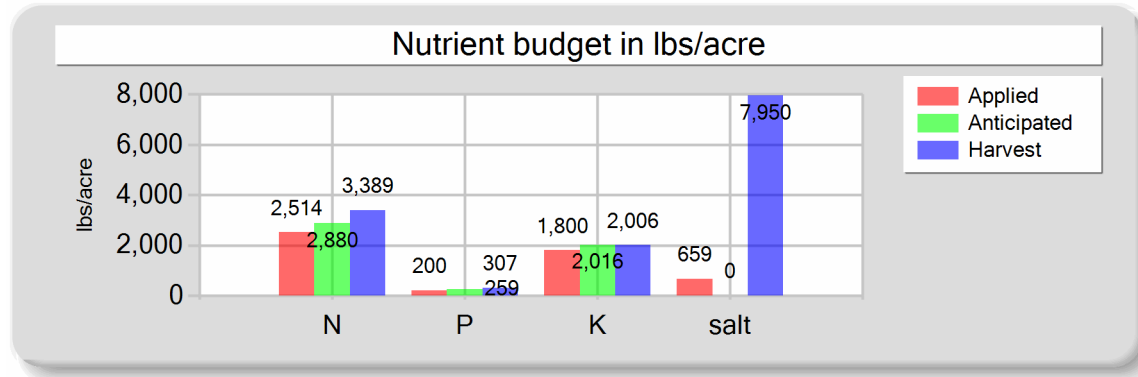
## B. NUTRIENT BUDGET

101 - 09/02/2019: Alfalfa, hay

Field name: 101

Crop: Alfalfa, hay

Plant date: 09/02/2019



	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	97,500,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,590.59 acre-inches
Commercial fertilizer / Other	2,500.00	200.00	1,800.00	0.00	37.80 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	659.47	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	2,514.00	200.00	1,800.00	659.47	
Anticipated crop nutrient removal	2,880.00	259.20	2,016.00	0.00	
Actual crop nutrient removal	3,388.80	307.20	2,006.40	7,949.76	
Nutrient balance	-874.80	-107.20	-206.40	-7,290.29	
Applied to removed ratio	0.74	0.65	0.90	0.08	
					Process wastewater applied
					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
					Total harvests for the crop
					6 harvests



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

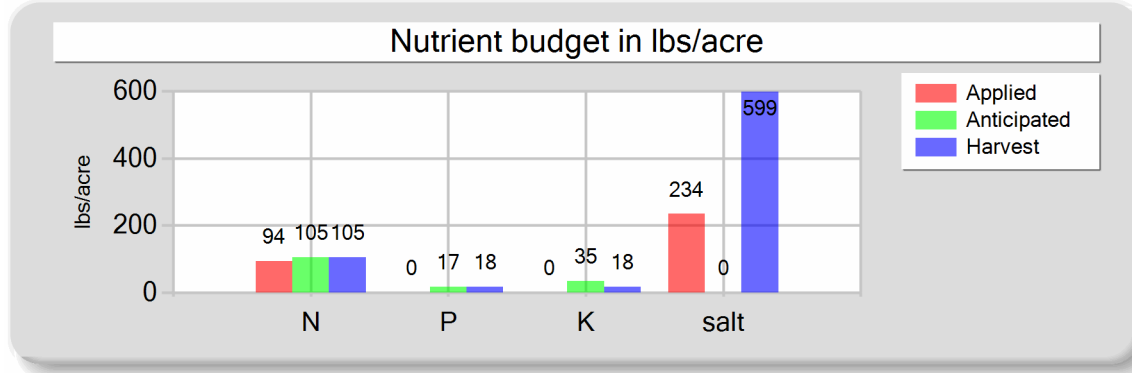
Reporting period 01/01/2023 to 12/31/2023.

102 - 04/11/2023: Cotton, lint

Field name: 102

Crop: Cotton, lint

Plant date: 04/11/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	80.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	234.45
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	94.00	0.00	0.00	234.45
Anticipated crop nutrient removal	105.00	17.10	35.10	0.00
Actual crop nutrient removal	105.00	18.00	18.00	599.40
Nutrient balance	-11.00	-18.00	-18.00	-364.95
Applied to removed ratio	0.90	0.00	0.00	0.39

Fresh water applied
27,000,000.00 gallons
994.32 acre-inches
13.44 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

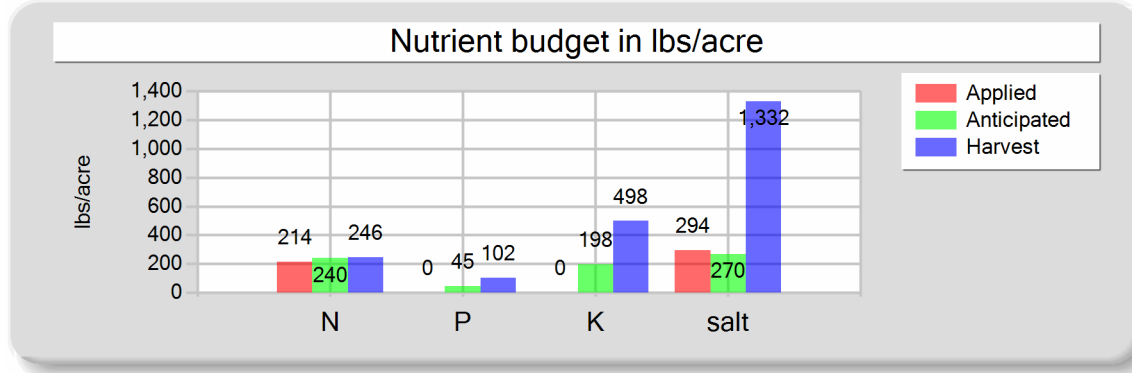
Reporting period 01/01/2023 to 12/31/2023.

228 - 04/17/2023: Corn, silage

Field name: 228

Crop: Corn, silage

Plant date: 04/17/2023



	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	43,000,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,583.54 acre-inches
Commercial fertilizer / Other	200.00	0.00	0.00	0.00	17.79 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	294.33	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	214.00	0.00	0.00	294.33	
Anticipated crop nutrient removal	240.00	45.00	198.00	270.00	
Actual crop nutrient removal	246.00	102.00	498.00	1,332.00	
Nutrient balance	-32.00	-102.00	-498.00	-1,037.67	
Applied to removed ratio	0.87	0.00	0.00	0.22	
					Process wastewater applied
					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
					Total harvests for the crop
					1 harvests

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

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

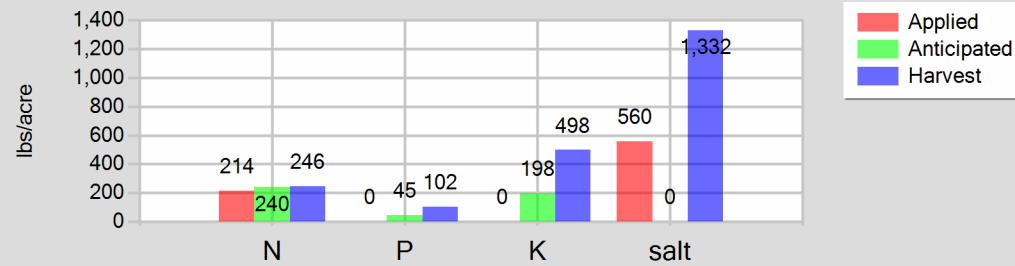
367 - 04/17/2023: Corn, silage

Field name: 367

Crop: Corn, silage

Plant date: 04/17/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	560.06
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	214.00	0.00	0.00	560.06
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	102.00	498.00	1,332.00
Nutrient balance	-32.00	-102.00	-498.00	-771.94
Applied to removed ratio	0.87	0.00	0.00	0.42

Fresh water applied
28,500,000.00 gallons
1,049.56 acre-inches
33.86 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

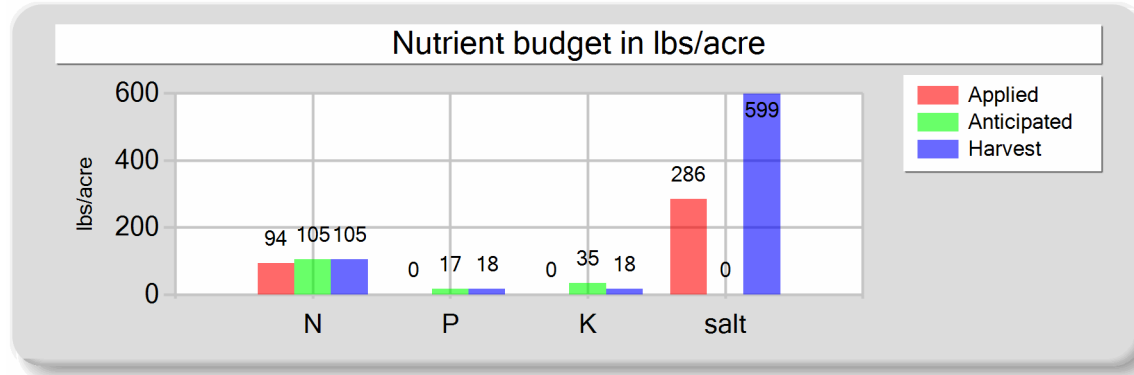
Reporting period 01/01/2023 to 12/31/2023.

368 - 04/12/2023: Cotton, lint

Field name: 368

Crop: Cotton, lint

Plant date: 04/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	80.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	285.56
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	94.00	0.00	0.00	285.56
Anticipated crop nutrient removal	105.00	17.10	35.10	0.00
Actual crop nutrient removal	105.00	18.00	18.00	599.40
Nutrient balance	-11.00	-18.00	-18.00	-313.84
Applied to removed ratio	0.90	0.00	0.00	0.48

Fresh water applied
15,000,000.00 <i>gallons</i>
552.40 <i>acre-inches</i>
17.26 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

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

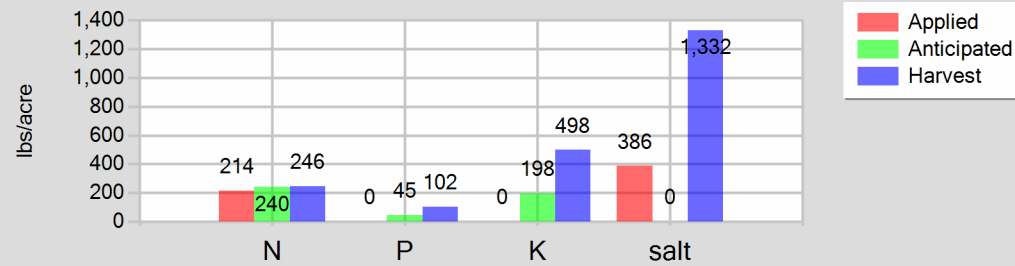
385 - 04/18/2023: Corn, silage

Field name: 385

Crop: Corn, silage

Plant date: 04/18/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	386.31
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	214.00	0.00	0.00	386.31
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	102.00	498.00	1,332.00
Nutrient balance	-32.00	-102.00	-498.00	-945.69
Applied to removed ratio	0.87	0.00	0.00	0.29

Fresh water applied
26,000,000.00 gallons
957.49 acre-inches
23.35 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

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

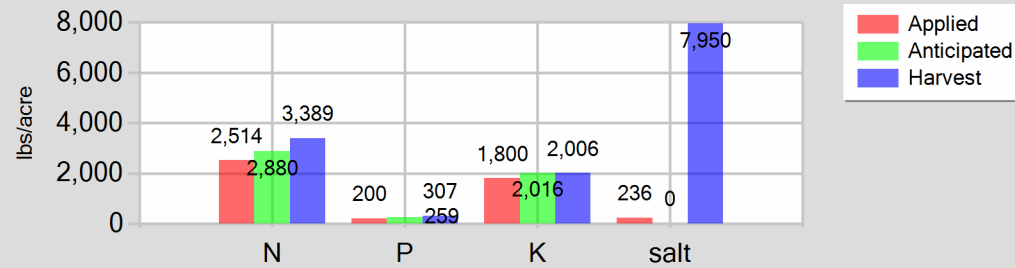
400 - 10/10/2018: Alfalfa, hay

Field name: 400

Crop: Alfalfa, hay

Plant date: 10/10/2018

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	2,500.00	200.00	1,800.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	235.81
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	2,514.00	200.00	1,800.00	235.81
Anticipated crop nutrient removal	2,880.00	259.20	2,016.00	0.00
Actual crop nutrient removal	3,388.80	307.20	2,006.40	7,949.76
Nutrient balance	-874.80	-107.20	-206.40	-7,713.95
Applied to removed ratio	0.74	0.65	0.90	0.03

Fresh water applied
12,000,000.00 gallons
441.92 acre-inches
14.26 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
6 harvests

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

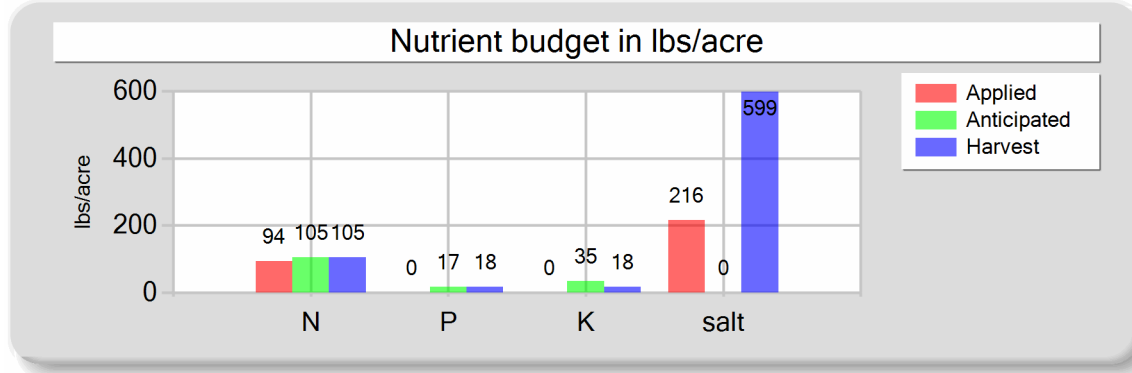
Reporting period 01/01/2023 to 12/31/2023.

73 - 04/12/2023: Cotton, lint

Field name: 73

Crop: Cotton, lint

Plant date: 04/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	80.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	216.16
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	94.00	0.00	0.00	216.16
Anticipated crop nutrient removal	105.00	17.10	35.10	0.00
Actual crop nutrient removal	105.00	18.00	18.00	599.40
Nutrient balance	-11.00	-18.00	-18.00	-383.24
Applied to removed ratio	0.90	0.00	0.00	0.36

Fresh water applied
11,000,000.00 <i>gallons</i>
405.09 <i>acre-inches</i>
13.07 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

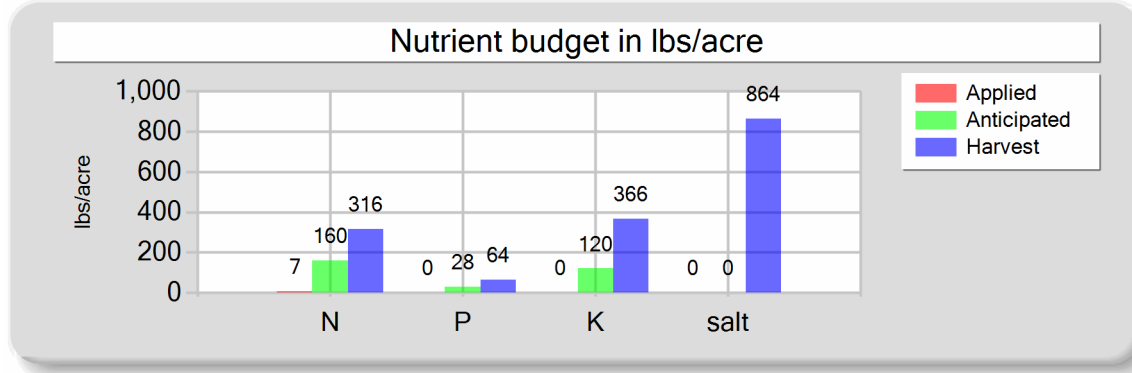
Reporting period 01/01/2023 to 12/31/2023.

74 - 10/18/2022: Wheat, silage, boot stage

Field name: 74

Crop: Wheat, silage, boot stage

Plant date: 10/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	0.00	0.00	0.00	0.00	0.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	7.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	160.00	28.00	120.00	0.00	
Actual crop nutrient removal	316.00	64.00	366.00	864.00	Total harvests for the crop
Nutrient balance	-309.00	-64.00	-366.00	-864.00	1 <i>harvests</i>
Applied to removed ratio	0.02	0.00	0.00	0.00	



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

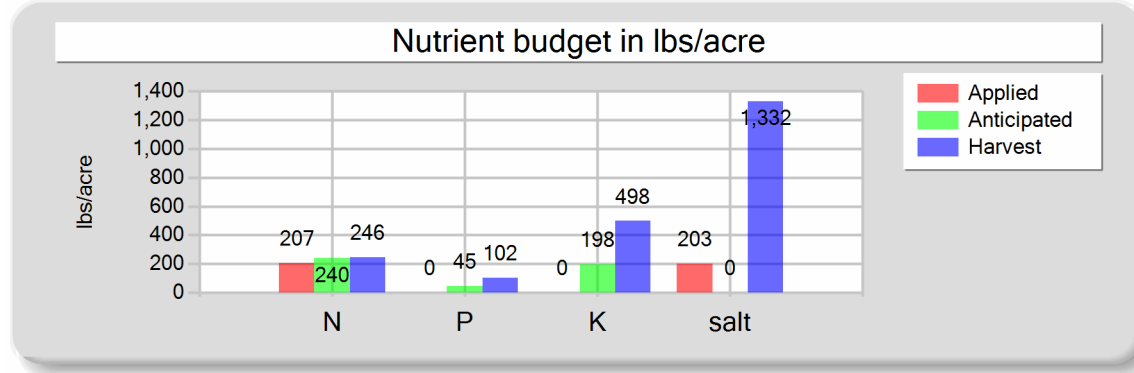
Reporting period 01/01/2023 to 12/31/2023.

74 - 05/20/2023: Corn, silage

Field name: 74

Crop: Corn, silage

Plant date: 05/20/2023



	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	23,000,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	847.01 <i>acre-inches</i>
Commercial fertilizer / Other	200.00	0.00	0.00	0.00	12.28 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	203.06	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	207.00	0.00	0.00	203.06	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	246.00	102.00	498.00	1,332.00	
Nutrient balance	-39.00	-102.00	-498.00	-1,128.94	
Applied to removed ratio	0.84	0.00	0.00	0.15	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

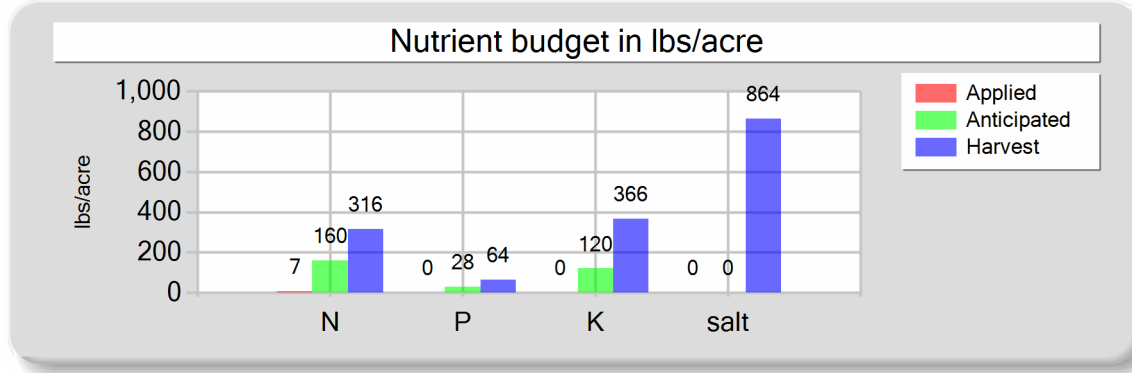
Reporting period 01/01/2023 to 12/31/2023.

75 - 10/18/2022: Wheat, silage, boot stage

Field name: 75

Crop: Wheat, silage, boot stage

Plant date: 10/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	0.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	Process wastewater applied
Fresh water	0.00	0.00	0.00	0.00	0.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Total nutrients applied	7.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Anticipated crop nutrient removal	160.00	28.00	120.00	0.00	
Actual crop nutrient removal	316.00	64.00	366.00	864.00	Total harvests for the crop
Nutrient balance	-309.00	-64.00	-366.00	-864.00	1 <i>harvests</i>
Applied to removed ratio	0.02	0.00	0.00	0.00	

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

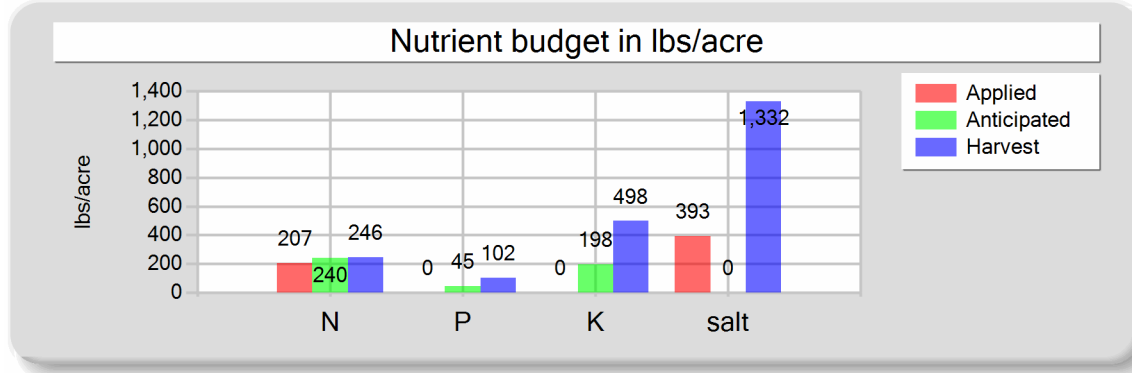
Reporting period 01/01/2023 to 12/31/2023.

75 - 05/20/2023: Corn, silage

Field name: 75

Crop: Corn, silage

Plant date: 05/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	200.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	393.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	207.00	0.00	0.00	393.02
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.00	102.00	498.00	1,332.00
Nutrient balance	-39.00	-102.00	-498.00	-938.98
Applied to removed ratio	0.84	0.00	0.00	0.30

Fresh water applied
20,000,000.00 <i>gallons</i>
736.53 <i>acre-inches</i>
23.76 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

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

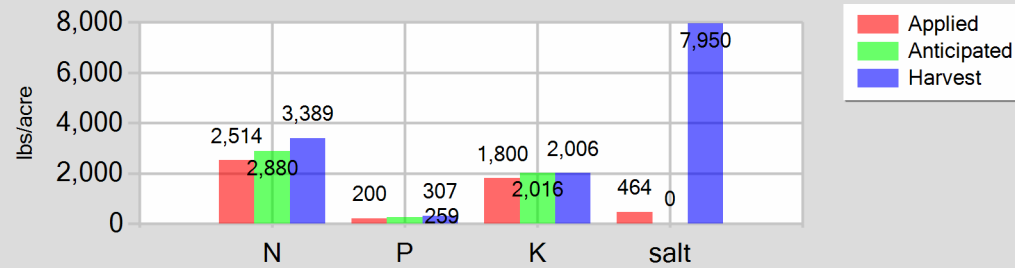
79 - 10/01/2022: Alfalfa, hay

Field name: 79

Crop: Alfalfa, hay

Plant date: 10/01/2022

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	2,500.00	200.00	1,800.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	464.07
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	2,514.00	200.00	1,800.00	464.07
Anticipated crop nutrient removal	2,880.00	259.20	2,016.00	0.00
Actual crop nutrient removal	3,388.80	307.20	2,006.40	7,949.76
Nutrient balance	-874.80	-107.20	-206.40	-7,485.69
Applied to removed ratio	0.74	0.65	0.90	0.06

Fresh water applied
13,000,000.00 gallons
478.75 acre-inches
26.60 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
6 harvests

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

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

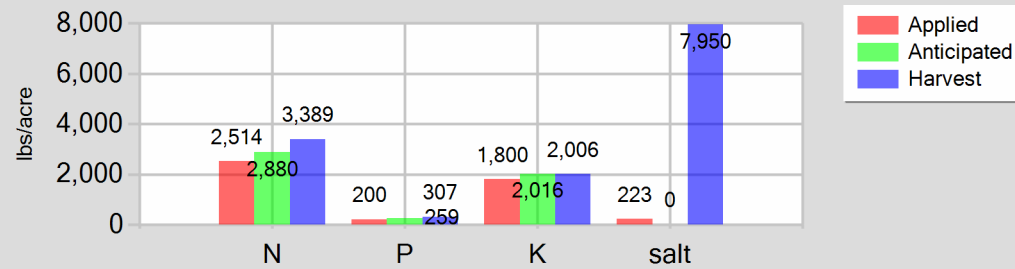
900 - 09/28/2020: Alfalfa, hay

Field name: 900

Crop: Alfalfa, hay

Plant date: 09/28/2020

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	2,500.00	200.00	1,800.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	223.37
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	2,514.00	200.00	1,800.00	223.37
Anticipated crop nutrient removal	2,880.00	259.20	2,016.00	0.00
Actual crop nutrient removal	3,388.80	307.20	2,006.40	7,949.76
Nutrient balance	-874.80	-107.20	-206.40	-7,726.39
Applied to removed ratio	0.74	0.65	0.90	0.03

Fresh water applied
22,000,000.00 gallons
810.19 acre-inches
13.50 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
6 harvests

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

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

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

## Manure Analysis II

Sample and source description: Manure Analysis II

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 6.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,400.00	10,800.00	14,300.00							56.75
DL	500.00	100.00	100.00							0.57

## Manure Analysis

Sample and source description: Manure Analysis

Sample date: 10/11/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 12.9 %

	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	14,250.00	6,400.00	20,900.00							42.45
DL	500.00	100.00	200.00							0.57

## B. PROCESS WASTEWATER ANALYSES

## Pond 3/9/23

Sample and source description: Pond 3/9/23

Sample date: 03/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.02

	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	370.00	22.90	1.00	0.26		20.90								5.50	3,539
DL	20.00	0.57	0.57	0.04		0.01								0.10	1

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

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

## Pond 6/9/23

Sample and source description: Pond 6/9/23

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.08

	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)
<b>Value</b>	318.00	16.30	0.80	2.16		19.40								11.90	7,622
<b>DL</b>	20.00	0.57	0.57	0.04		0.01								0.01	1

## Pond 8/17/23

Sample and source description: Pond 8/17/23

Sample date: 08/17/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.46

	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)
<b>Value</b>	340.00	7.40	1.00	0.21		27.00								16.19	10,275
<b>DL</b>	20.00	0.57	0.57	0.04		0.01								0.01	1

## Pond 10/11/2023

Sample and source description: Pond 10/11/2023

Sample date: 10/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.46

	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)
<b>Value</b>	139.00	25.40	3.70	1.06		67.10								35.00	20,000
<b>DL</b>	20.00	0.57	0.57	0.04		0.01								0.01	1

## C. FRESH WATER ANALYSES

Barn

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

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

## Barn

### Barn

Sample description: Barn

Sample date: 06/08/2023 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)
<b>Value</b>											1,000.00	
<b>DL</b>											1.00	

## Central Canal

### Central Canal

Sample description: Central Canal

Sample date: 06/08/2023 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)
<b>Value</b>	0.00										80.00	73
<b>DL</b>	1.00										1.00	5

## Irrigation Well

### Irrigation Well

Sample description: Irrigation Well

Sample date: 06/08/2023 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)
<b>Value</b>											2,100.00	
<b>DL</b>											1.00	

## Parsin Canal



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

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

**Parsin Canal****Parsin Canal**Sample description: Parsin CanalSample date: 06/08/2023 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)
<b>Value</b>	0.00										65.00	77
<b>DL</b>	1.00										1.00	5

**Shop****Shop**Sample description: ShopSample date: 06/09/2023 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)
<b>Value</b>											1,100.00	710
<b>DL</b>											1.00	5

**D. SOIL ANALYSES***No soil analyses entered.***E. PLANT TISSUE ANALYSES***No plant tissue analyses entered.***F. SUBSURFACE (TILE) DRAINAGE ANALYSES***No subsurface (tile) drainage analyses entered.*

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

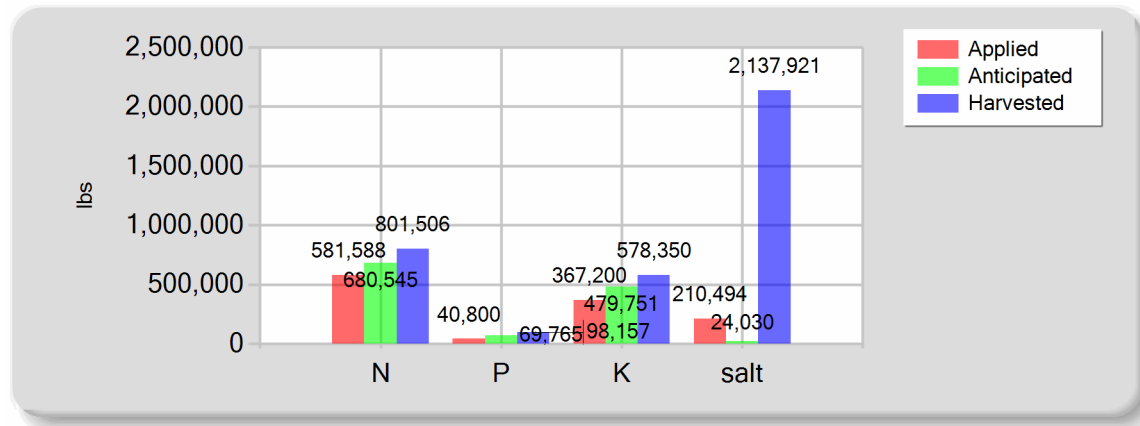
Reporting period 01/01/2023 to 12/31/2023.

**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

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

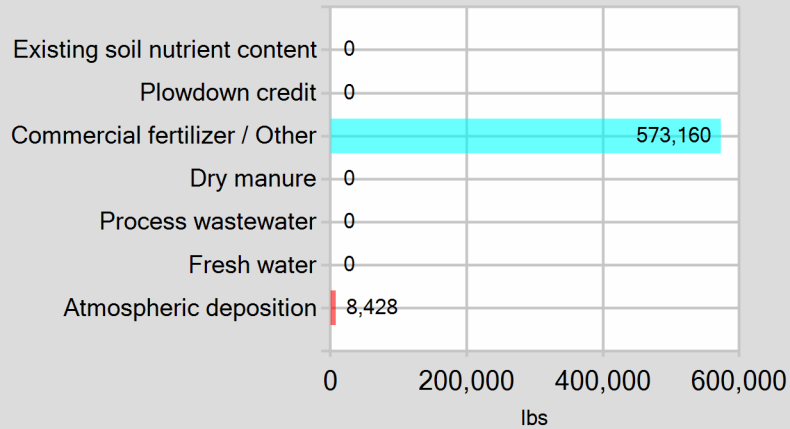
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	573,160.00	40,800.00	367,200.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	210,494.28
Atmospheric deposition	8,428.00	0.00	0.00	0.00
Total nutrients applied	581,588.00	40,800.00	367,200.00	210,494.28
Anticipated crop nutrient removal	680,545.00	69,764.50	479,750.70	24,030.00
Actual crop nutrient removal	801,506.20	98,156.80	578,349.60	2,137,920.84
Nutrient balance	-219,918.20	-57,356.80	-211,149.60	-1,927,426.56
Applied to removed ratio	0.73	0.42	0.63	0.10

**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

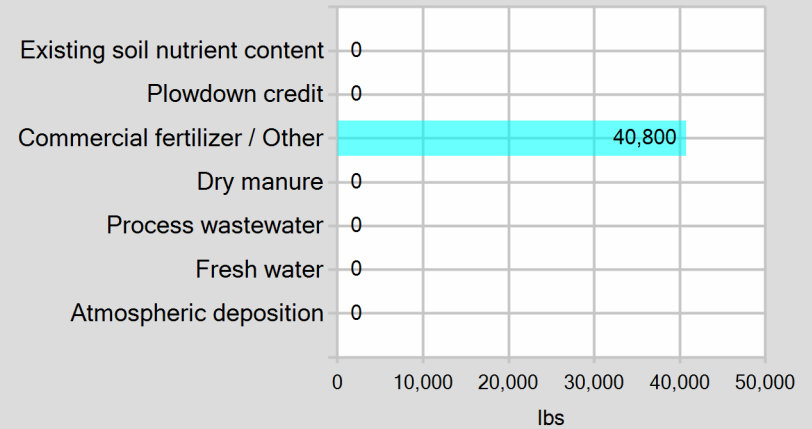


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

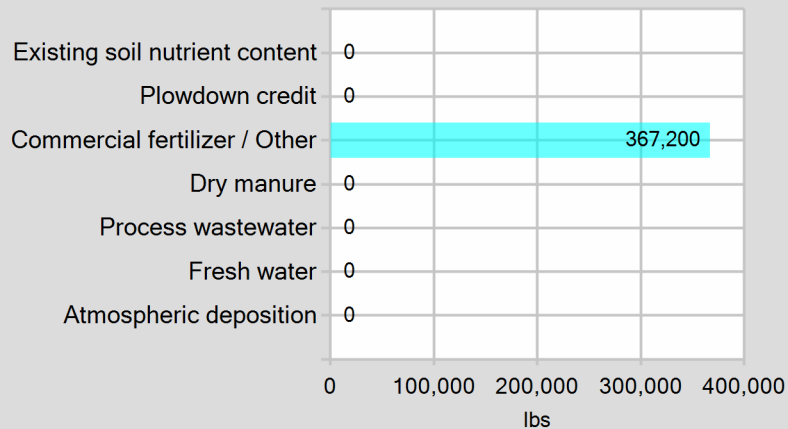
Pounds of nitrogen applied



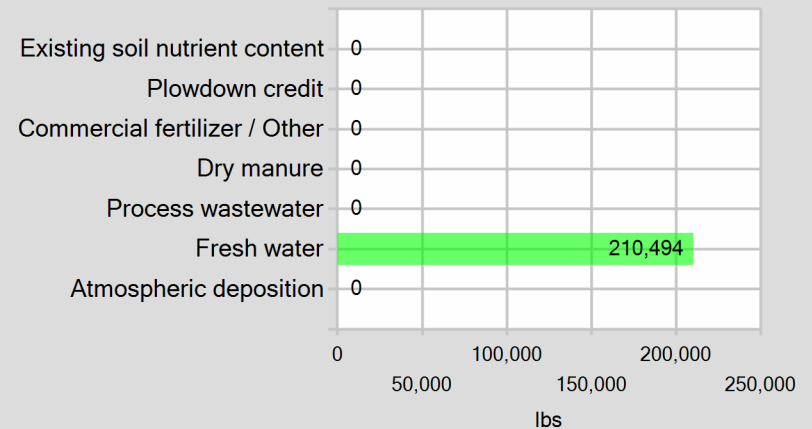
Pounds of phosphorus applied



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**

*No notes entered for this annual report.*

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

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

**ANNUAL REPORT VALIDATION INFORMATION**

**A. VALIDATION ERRORS**

The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Land Application Events

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

  
SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Frank James Coderniz

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

7/10/2024

DATE

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.





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

**AGF1167**

**7/05/2023**

Invoice: AG15067

Frank Coderniz  
40396 W. Valeria  
Dos Palos, CA 93620

**RE: Report for AGF1167 RB5 Surface**

Dear Frank Coderniz,

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 6/8/2023. 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,

A handwritten signature in black ink that reads "Michelle Croft".

Michelle Croft, Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021

**Case Narrative****Project and Report Details**

**Client:** Frank Coderniz  
**Report To:** Frank Coderniz  
**Project #:** -  
**Received:** 6/08/2023 - 15:47  
**Report Due:** 6/22/2023

**Invoice Details**

**Invoice To:** Frank Coderniz  
**Invoice Attn:** Frank Coderniz  
**Project PO#:** -

**Sample Receipt Conditions**

**Cooler:** Default Cooler  
**Temperature on Receipt °C:** 28.7

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

**Detailed Narrative****Chain of Custody Notes**

**Date:** 6/14/2023

**Initials:** MKC

**Note:** Due to instrumentation issues, the nitrate and nitrite samples were subcontracted to Moore Twining Labs. The samples were subcontracted within temperature and holding time, but a coincidental and unforeseen instrument issue at Moore Twining occurred and the AGF1167-04 sample was not analyzed within the 48 hour method specific holding time. Authorization from Maidson Looper to report with qualification.

**Data Qualifiers**

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

MS1.0 Matrix spike recoveries exceed control limits.  
MS2.1 MS/MSD RPD exceeds control limit. Reportable results in parent sample may have some degree of variability, higher than that inherent in the method.

**Report Distribution**

Recipient(s)	Report Format	CC:
Frank Coderniz	FINAL.RPT	madison@jmlordinc.com



**AGF1167**

**RB5 Surface**

## Certificate of Analysis

**Sample ID:** AGF1167-01

**Sampled By:** Madison Hall

**Sample Description:** Irrigation Well

**Sample Date - Time:** 06/08/2023 - 10:55

**Matrix:** Ground Water

**Sample Type:** Grab

**BSK Associates Laboratory Fresno**

### General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	2100	1.0	umhos/cm	1	AGF0630	06/09/23	06/09/23	



**AGF1167**

**RB5 Surface**

## Certificate of Analysis

**Sample ID:** AGF1167-02  
**Sampled By:** Madison Hall  
**Sample Description:** House

**Sample Date - Time:** 06/08/2023 - 11:30  
**Matrix:** Ground Water  
**Sample Type:** Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1000	1.0	umhos/cm	1	AGF0630	06/09/23	06/09/23	

**AGF1167****RB5 Surface****Certificate of Analysis**

**Sample ID:** AGF1167-03  
**Sampled By:** Madison Hall  
**Sample Description:** Shop

**Sample Date - Time:** 06/08/2023 - 11:50  
**Matrix:** Ground Water  
**Sample Type:** Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO <sub>3</sub>	SM 2320B	230	3.0	mg/L	1	AGF1086	06/16/23	06/16/23	
Bicarbonate as CaCO <sub>3</sub>	SM 2320B	230	3.0	mg/L	1	AGF1086	06/16/23	06/16/23	
Carbonate as CaCO <sub>3</sub>	SM 2320B	ND	3.0	mg/L	1	AGF1086	06/16/23	06/16/23	
Hydroxide as CaCO <sub>3</sub>	SM 2320B	ND	3.0	mg/L	1	AGF1086	06/16/23	06/16/23	
Chloride	EPA 300.0	190	1.0	mg/L	1	AGF0635	06/09/23	06/09/23	
Conductivity @ 25C	SM 2510B	1100	1.0	umhos/cm	1	AGF1086	06/16/23	06/16/23	
Sulfate as SO <sub>4</sub>	EPA 300.0	100	1.0	mg/L	1	AGF0635	06/09/23	06/09/23	
Total Dissolved Solids	SM 2540C	710	5.0	mg/L	1	AGF0745	06/12/23	06/12/23	

**Metals**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	38	0.10	mg/L	1	AGF0749	06/13/23	06/15/23	
Magnesium	EPA 200.7	9.8	0.10	mg/L	1	AGF0749	06/13/23	06/15/23	
Sodium	EPA 200.7	190	1.0	mg/L	1	AGF0749	06/13/23	06/15/23	



**AGF1167**

**RB5 Surface**

## Certificate of Analysis

**Sample ID:** AGF1167-04  
**Sampled By:** Madison Hall  
**Sample Description:** Barn

**Sample Date - Time:** 06/08/2023 - 11:55  
**Matrix:** Ground Water  
**Sample Type:** Grab

**BSK Associates Laboratory Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1000	1.0	umhos/cm	1	AGF0630	06/09/23	06/09/23	

**AGF1167****RB5 Surface****Certificate of Analysis**

**Sample ID:** AGF1167-05  
**Sampled By:** Madison Hall  
**Sample Description:** Central Canalo

**Sample Date - Time:** 06/08/2023 - 11:36  
**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	80	1.0	umhos/cm	1	AGF0978	06/15/23	06/15/23	
Total Dissolved Solids	SM 2540C	73	5.0	mg/L	1	AGF0745	06/12/23	06/12/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGF1181	06/19/23	06/20/23	
Total Nitrogen	varies	ND	1.0	mg/L	1	AGF2116	06/30/23	06/30/23	

**AGF1167****RB5 Surface****Certificate of Analysis**

**Sample ID:** AGF1167-06  
**Sampled By:** Madison Hall  
**Sample Description:** Parsin Canal

**Sample Date - Time:** 06/08/2023 - 11:45  
**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	65	1.0	umhos/cm	1	AGF0978	06/15/23	06/15/23	
Total Dissolved Solids	SM 2540C	77	5.0	mg/L	1	AGF0745	06/12/23	06/12/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGF1181	06/19/23	06/20/23	
Total Nitrogen	varies	ND	1.0	mg/L	1	AGF2116	06/30/23	06/30/23	



**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

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

**EPA 300.0 - Quality Control**

**Batch: AGF0635**

Prepared: 6/9/2023

**Prep Method: Method Specific Preparation**

Analyst: APR

**Blank (AGF0635-BLK1)**

Chloride	ND	1.0	mg/L							06/09/23	
Sulfate as SO4	ND	1.0	mg/L							06/09/23	

**Blank Spike (AGF0635-BS1)**

Chloride	97	1.0	mg/L	100	ND	97	90-110			06/09/23	
Sulfate as SO4	97	1.0	mg/L	100	ND	97	90-110			06/09/23	

**Matrix Spike (AGF0635-MS1), Source: AGF1091-02**

Chloride	60	1.0	mg/L	50	14	93	80-120			06/09/23	
Sulfate as SO4	44	1.0	mg/L	50	ND	87	80-120			06/09/23	

**Matrix Spike (AGF0635-MS2), Source: SGF0169-03**

Chloride	47	1.0	mg/L	50	1.9	91	80-120			06/09/23	
Sulfate as SO4	49	1.0	mg/L	50	4.0	90	80-120			06/09/23	

**Matrix Spike Dup (AGF0635-MSD1), Source: AGF1091-02**

Chloride	59	1.0	mg/L	50	14	90	80-120	2	20	06/09/23	
Sulfate as SO4	43	1.0	mg/L	50	ND	84	80-120	3	20	06/09/23	

**Matrix Spike Dup (AGF0635-MSD2), Source: SGF0169-03**

Chloride	49	1.0	mg/L	50	1.9	95	80-120	4	20	06/09/23	
Sulfate as SO4	51	1.0	mg/L	50	4.0	94	80-120	4	20	06/09/23	

**EPA 351.2 - Quality Control**

**Batch: AGF1181**

Prepared: 6/19/2023

**Prep Method: Method Specific Preparation**

Analyst: ERA

**Blank (AGF1181-BLK1)**

Total Kjeldahl Nitrogen	ND	1.0	mg/L							06/20/23	
-------------------------	----	-----	------	--	--	--	--	--	--	----------	--

**Blank Spike (AGF1181-BS1)**

Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	102	90-110			06/20/23	
-------------------------	----	-----	------	----	----	-----	--------	--	--	----------	--

**Blank Spike Dup (AGF1181-BSD1)**

Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	101	90-110	0	10	06/20/23	
-------------------------	----	-----	------	----	----	-----	--------	---	----	----------	--

**Matrix Spike (AGF1181-MS1), Source: AGF1056-02**

Total Kjeldahl Nitrogen	57	5.0	mg/L	10	55	21	90-110			06/20/23	MS1.0 <b>Low</b>
-------------------------	----	-----	------	----	----	----	--------	--	--	----------	------------------

**Matrix Spike (AGF1181-MS2), Source: AGF1123-01**

Total Kjeldahl Nitrogen	7.5	1.0	mg/L	10	ND	75	90-110			06/20/23	MS1.0 <b>Low</b>
-------------------------	-----	-----	------	----	----	----	--------	--	--	----------	------------------

**Matrix Spike Dup (AGF1181-MSD1), Source: AGF1056-02**

Total Kjeldahl Nitrogen	63	5.0	mg/L	10	55	78	90-110	10	10	06/20/23	MS1.0 <b>Low</b>
-------------------------	----	-----	------	----	----	----	--------	----	----	----------	------------------

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.

AGF1167 FINAL 07052023 1754



AGF1167

RB5 Surface

**BSK Associates Laboratory Fresno**  
**General Chemistry Quality Control Report**

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

**EPA 351.2 - Quality Control**

Batch: AGF1181

Prepared: 6/19/2023

Prep Method: Method Specific Preparation

Analyst: ERA

**Matrix Spike Dup (AGF1181-MSD2), Source: AGF1123-01**

Total Kjeldahl Nitrogen	4.0	1.0	mg/L	10	ND	40	90-110	61	10	06/20/23	MS1.0 <b>Low</b> MS2.1
-------------------------	-----	-----	------	----	----	----	--------	----	----	----------	---------------------------

**SM 2320B - Quality Control**

Batch: AGF1086

Prepared: 6/16/2023

Prep Method: Method Specific Preparation

Analyst: CEG

**Blank (AGF1086-BLK1)**

Alkalinity as CaCO3	ND	3.0	mg/L							06/16/23	
Bicarbonate as CaCO3	ND	3.0	mg/L							06/16/23	
Carbonate as CaCO3	ND	3.0	mg/L							06/16/23	
Hydroxide as CaCO3	ND	3.0	mg/L							06/16/23	

**Blank Spike (AGF1086-BS1)**

Alkalinity as CaCO3	100	3.0	mg/L	100	ND	104	80-120			06/16/23	
---------------------	-----	-----	------	-----	----	-----	--------	--	--	----------	--

**Blank Spike Dup (AGF1086-BSD1)**

Alkalinity as CaCO3	110	3.0	mg/L	100	ND	105	80-120	1	20	06/16/23	
---------------------	-----	-----	------	-----	----	-----	--------	---	----	----------	--

**Duplicate (AGF1086-DUP1), Source: AGF1246-01**

Alkalinity as CaCO3	240	3.0	mg/L		240			0	10	06/16/23	
Bicarbonate as CaCO3	240	3.0	mg/L		240			0	10	06/16/23	
Carbonate as CaCO3	ND	3.0	mg/L		ND				10	06/16/23	
Hydroxide as CaCO3	ND	3.0	mg/L		ND				10	06/16/23	

**SM 2510B - Quality Control**

Batch: AGF0630

Prepared: 6/9/2023

Prep Method: Method Specific Preparation

Analyst: EFG

**Blank Spike (AGF0630-BS1)**

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110			06/09/23	
--------------------	------	-----	----------	------	----	----	--------	--	--	----------	--

**Blank Spike Dup (AGF0630-BSD1)**

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110	0	5	06/09/23	
--------------------	------	-----	----------	------	----	----	--------	---	---	----------	--

**Duplicate (AGF0630-DUP1), Source: AGF0487-02**

Conductivity @ 25C	82	1.0	umhos/cm		82			0	5	06/09/23	
--------------------	----	-----	----------	--	----	--	--	---	---	----------	--

**SM 2510B - Quality Control**

Batch: AGF0978

Prepared: 6/15/2023

Prep Method: Method Specific Preparation

Analyst: EFG

**Blank Spike (AGF0978-BS1)**

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110			06/15/23	
--------------------	------	-----	----------	------	----	----	--------	--	--	----------	--

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

AGF1167 FINAL 07052023 1754



AGF1167

RB5 Surface

BSK Associates Laboratory Fresno  
General Chemistry Quality Control Report

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

## SM 2510B - Quality Control

Batch: AGF0978

Prepared: 6/15/2023

Prep Method: Method Specific Preparation

Analyst: EFG

## Blank Spike Dup (AGF0978-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	100	90-110	0	5	06/15/23
--------------------	------	-----	----------	------	----	-----	--------	---	---	----------

## Duplicate (AGF0978-DUP1), Source: AGF1692-01

Conductivity @ 25C	1500	1.0	umhos/cm		1500			1	5	06/15/23
--------------------	------	-----	----------	--	------	--	--	---	---	----------

## SM 2510B - Quality Control

Batch: AGF1086

Prepared: 6/16/2023

Prep Method: Method Specific Preparation

Analyst: CEG

## Blank Spike (AGF1086-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110			06/16/23
--------------------	------	-----	----------	------	----	----	--------	--	--	----------

## Blank Spike Dup (AGF1086-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	99	90-110	0	5	06/16/23
--------------------	------	-----	----------	------	----	----	--------	---	---	----------

## Duplicate (AGF1086-DUP1), Source: AGF1246-01

Conductivity @ 25C	850	1.0	umhos/cm		850			0	5	06/16/23
--------------------	-----	-----	----------	--	-----	--	--	---	---	----------

## SM 2540C - Quality Control

Batch: AGF0745

Prepared: 6/12/2023

Prep Method: Method Specific Preparation

Analyst: SYY

## Blank (AGF0745-BLK1)

Total Dissolved Solids	ND	5.0	mg/L							06/12/23
------------------------	----	-----	------	--	--	--	--	--	--	----------

## Blank Spike (AGF0745-BS1)

Total Dissolved Solids	1000		mg/L	1000		105	70-130			06/12/23
------------------------	------	--	------	------	--	-----	--------	--	--	----------

## Duplicate (AGF0745-DUP1), Source: AGF1008-01

Total Dissolved Solids	1900	5.0	mg/L		1900			3	10	06/12/23
------------------------	------	-----	------	--	------	--	--	---	----	----------

## Duplicate (AGF0745-DUP2), Source: AGF1187-01

Total Dissolved Solids	410	5.0	mg/L		400			3	10	06/12/23
------------------------	-----	-----	------	--	-----	--	--	---	----	----------

**BSK Associates Laboratory Fresno**
**Metals Quality Control Report**

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

**EPA 200.7 - Quality Control**
**Batch: AGF0749**

Prepared: 6/13/2023

**Prep Method: EPA 200.2**

Analyst: SAB

**Blank (AGF0749-BLK2)**

Calcium	ND	0.10	mg/L							06/15/23	
Magnesium	ND	0.10	mg/L							06/15/23	
Sodium	ND	1.0	mg/L							06/15/23	

**Blank Spike (AGF0749-BS2)**

Calcium	4.6	0.10	mg/L	4.8	ND	97	85-115			06/15/23	
Magnesium	4.8	0.10	mg/L	4.8	ND	100	85-115			06/15/23	
Sodium	4.2	1.0	mg/L	4.8	ND	87	85-115			06/15/23	

**Blank Spike Dup (AGF0749-BSD2)**

Calcium	4.6	0.10	mg/L	4.8	ND	96	85-115	1	20	06/15/23	
Magnesium	4.9	0.10	mg/L	4.8	ND	101	85-115	2	20	06/15/23	
Sodium	4.2	1.0	mg/L	4.8	ND	87	85-115	0	20	06/15/23	

**Matrix Spike (AGF0749-MS3), Source: AGF1133-01**

Calcium	51	0.10	mg/L	4.8	46	109	70-130			06/15/23	
Magnesium	17	0.10	mg/L	4.8	12	108	70-130			06/15/23	
Sodium	230	1.0	mg/L	4.8	220	123	70-130			06/15/23	

**Matrix Spike (AGF0749-MS4), Source: AGF1153-01**

Calcium	62	0.10	mg/L	4.8	58	96	70-130			06/15/23	
Magnesium	38	0.10	mg/L	4.8	33	103	70-130			06/15/23	
Sodium	27	1.0	mg/L	4.8	22	93	70-130			06/15/23	

**Matrix Spike Dup (AGF0749-MSD3), Source: AGF1133-01**

Calcium	50	0.10	mg/L	4.8	46	95	70-130	1	20	06/15/23	
Magnesium	16	0.10	mg/L	4.8	12	93	70-130	4	20	06/15/23	
Sodium	220	1.0	mg/L	4.8	220	NR	70-130	4	20	06/15/23	MS1.0 <b>Low</b>

**Matrix Spike Dup (AGF0749-MSD4), Source: AGF1153-01**

Calcium	64	0.10	mg/L	4.8	58	130	70-130	3	20	06/15/23	
Magnesium	39	0.10	mg/L	4.8	33	135	70-130	4	20	06/15/23	MS1.0 <b>High</b>
Sodium	27	1.0	mg/L	4.8	22	108	70-130	3	20	06/15/23	

## Certificate of Analysis

### Notes:

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

## Certificate of Analysis

### Definitions

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

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

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

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

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

Odor                                      Diisopropyl ether (DIPE) by EPA 524.2

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

Total Nitrogen                      Aggressive Index                      Trivalent Chromium

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

**\*\*NA\*\***

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

**Fresno**

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

**Sacramento**

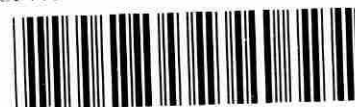
State of California - ELAP	1180-S1
----------------------------	---------

**San Bernardino**

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

**Vancouver**

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



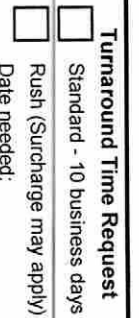
# Sample Integrity

 BSK Bottles: Yes No Page 1 of 1

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)?		Yes No NA			
		Did all bottles arrive unbroken and intact?			Yes No			TB Received? (Check Method Below)		Yes No NA			
		Did all bottle labels agree with COC?			Yes No			Was a sufficient amount of sample received?		Yes No			
		Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Yes NA			Do samples have a hold time <72 hours?		Yes No			
								Was PM notified of discrepancies?		Yes No NA			
								PM:		By/Time:			
		250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)			Checks*			Passed?			1-2 3 4 5-6		
		Bacti $\text{Na}_2\text{S}_2\text{O}_3$			—			—			1A 1A,1C 1A 1A,1C		
		None (P) White Cap			—			—					
		Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW			Cl, pH > 8			P F					
		Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW			pH 9.3-9.7			P F					
		Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***			pH 9.0-9.5			P F					
		HNO <sub>3</sub> (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label			—			—			1B		
		H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label			pH < 2			P F			1A		
		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 <sub>2</sub> Ct (AG) Pink Label 525			—			—					
		Na <sub>2</sub> SO <sub>3</sub> 250mL (AG) Neon Green Label 515			—			—					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549			—			—					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 548, THM, 524			—			—					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505, 547			—			—					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531			pH < 3			P F					
		NH <sub>4</sub> 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 <sub>3</sub> PO <sub>4</sub> (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.						✓ Indicates Blanks Received					
		504 524.2 TTHM 537/533 TCP						✓ MS/MSD Received Method: _____					
		Labeled by: _____						Labels Checked by: _____					

Scanned: Cew Rush/Short HT Page: \_\_\_\_\_ Time: \_\_\_\_\_



☐ Turnaround Time Request  
Standard - 10 business days

Page 17 of 29

SR-FL-0012-07

June 14, 2023

Work Order #: **JF09010**

Michelle Croft  
BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno, CA 93727

**RE: Analytical Services**

Enclosed are the analytical results for samples received by our laboratory on **06/09/23** . For your reference, these analyses have been assigned laboratory work order number **JF09010**.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

**Moore Twining Associates, Inc.**



Susan Federico  
Client Services Representative

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### Analytical Report for the Following Samples

Sample ID	Notes	Laboratory ID	Matrix	Date Sampled	Date Received
AGF1167-01 Irrigation Well		JF09010-01	Ground Water	06/08/23 10:55	06/09/23 11:54
AGF1167-02 House		JF09010-02	Ground Water	06/08/23 11:30	06/09/23 11:54
AGF1167-03 Shop		JF09010-03	Ground Water	06/08/23 11:50	06/09/23 11:54
AGF1167-04 Barn		JF09010-04	Ground Water	06/08/23 11:55	06/09/23 11:54
AGF1167-05 Central Canalo		JF09010-05	Surface Water	06/08/23 11:36	06/09/23 11:54
AGF1167-06 Parsin Canal		JF09010-06	Surface Water	06/08/23 11:45	06/09/23 11:54

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### AGF1167-01 Irrigation Well

JF09010-01 (Ground Water)

Sampled: 06/08/23 10:55

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate as N		ND	2.0	mg/L	5	B3F0914	06/09/23	06/10/23	EPA 300.0

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### AGF1167-02 House

JF09010-02 (Ground Water)

Sampled: 06/08/23 11:30

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate as N		ND	1.2	mg/L	3	B3F0914	06/09/23	06/10/23	EPA 300.0

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### AGF1167-03 Shop

JF09010-03 (Ground Water)

Sampled: 06/08/23 11:50

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate as N		ND	1.2	mg/L	3	B3F0914	06/09/23	06/10/23	EPA 300.0

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

**AGF1167-04 Barn**

JF09010-04 (Ground Water)

Sampled: 06/08/23 11:55

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate as N	HT5	ND	0.80	mg/L	2	B3F0914	06/09/23	06/10/23	EPA 300.0

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### AGF1167-05 Central Canalo

JF09010-05 (Surface Water)

Sampled: 06/08/23 11:36

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate + Nitrite as N		0.8	0.70	mg/L	1	[CALC]	06/10/23	06/10/23	(CALC)
Nitrate as N		0.80	0.40	mg/L	1	B3F0914	06/09/23	06/10/23	EPA 300.0
Nitrite as N		ND	0.30	mg/L	1	B3F0914	06/09/23	06/10/23	EPA 300.0



BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### AGF1167-06 Parsin Canal

JF09010-06 (Surface Water)

Sampled: 06/08/23 11:45

Analyte	Flag	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
<b>Inorganics</b>									
Nitrate + Nitrite as N		ND	0.70	mg/L	1	[CALC]	06/10/23	06/10/23	(CALC)
Nitrate as N		ND	0.40	mg/L	1	B3F0914	06/09/23	06/10/23	EPA 300.0
Nitrite as N		ND	0.30	mg/L	1	B3F0914	06/09/23	06/10/23	EPA 300.0

### Quality Control Sample Results - Inorganics

Analyte	Flag	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limits
<b>Batch - B3F0914</b>										
<b>Blank (B3F0914-BLK1)</b> Prepared: 06/09/23 Analyzed: 06/10/23										
<b>EPA 300.0</b>										
Nitrate as N		ND	0.40	mg/L						
Nitrite as N		ND	0.30	mg/L						
<b>LCS (B3F0914-BS1)</b> Prepared: 06/09/23 Analyzed: 06/10/23										
<b>EPA 300.0</b>										
Nitrate as N		10.8	0.40	mg/L	11.3		95.3	90-110		
Nitrite as N		4.79	0.30	mg/L	5.00		95.8	90-110		
<b>LCS Dup (B3F0914-BSD1)</b> Prepared: 06/09/23 Analyzed: 06/10/23										
<b>EPA 300.0</b>										
Nitrate as N		10.8	0.40	mg/L	11.3		95.6	90-110	0.315	20
Nitrite as N		4.80	0.30	mg/L	5.00		96.1	90-110	0.258	20
<b>Matrix Spike (B3F0914-MS1)</b> Prepared: 06/09/23 Analyzed: 06/10/23 <b>Source: JF09013-02</b>										
<b>EPA 300.0</b>										
Nitrate as N		21.6	0.40	mg/L	22.6	ND	95.6	80-120		
Nitrite as N		9.22	0.30	mg/L	10.0	ND	92.2	80-120		
<b>Matrix Spike Dup (B3F0914-MSD1)</b> Prepared: 06/09/23 Analyzed: 06/10/23 <b>Source: JF09013-02</b>										
<b>EPA 300.0</b>										
Nitrate as N		21.7	0.40	mg/L	22.6	ND	96.0	80-120	0.391	20
Nitrite as N		9.23	0.30	mg/L	10.0	ND	92.3	80-120	0.143	20
<b>Matrix Spike (B3F0914-MS2)</b> Prepared: 06/09/23 Analyzed: 06/10/23 <b>Source: JF09022-01</b>										
<b>EPA 300.0</b>										
Nitrate as N	MS3	14.6	0.40	mg/L	22.6	1.78	56.6	80-120		
Nitrite as N	MS3	5.80	0.30	mg/L	10.0	ND	58.0	80-120		
<b>Matrix Spike Dup (B3F0914-MSD2)</b> Prepared: 06/09/23 Analyzed: 06/10/23 <b>Source: JF09022-01</b>										
<b>EPA 300.0</b>										
Nitrate as N	RPD3	23.3	0.40	mg/L	22.6	1.78	95.4	80-120	46.3	20
Nitrite as N	RPD3	9.05	0.30	mg/L	10.0	ND	90.5	80-120	43.8	20

BSK Analytical Laboratories  
691 N. Laverne Avenue, Suite 101  
Fresno CA, 93727

**Project:** Analytical Services  
**Project Number:** AGF1167  
**Project Manager:** Michelle Croft

**Reported:**  
06/14/2023

### Notes and Definitions

HT5      The hold time was missed due to instrument failure. The sample was later analyzed outside of hold time.

MS3      Recovery for this analyte was biased low; associated blank spike recoveries are within range.

RPD3      The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.

µg/L      micrograms per liter (parts per billion concentration units)

mg/L      milligrams per liter (parts per million concentration units)

mg/kg      milligrams per kilogram (parts per million concentration units)

ND      Analyte NOT DETECTED at or above the reporting limit

RPD      Relative Percent Difference

Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.  
If the test was performed in the laboratory, the hold time was exceeded. **(for aqueous matrices only)**



## SUBCONTRACT ORDER

AGF1167

SF09010

P61

SENDING LABORATORY:

BSK Associates Laboratory Fresno  
687 N. Laverne Avenue  
Fresno, CA 93727  
Phone: 559-497-2888  
Fax: 559-485-6935  
Project Manager: Michelle Croft  
E-mail: mcroft@bskassociates.com

RECEIVING LABORATORY:

Moore Twining Associates  
2527 Fresno Street  
Fresno, CA 93721  
Phone : (559) 268-7021  
Fax: (559) 268-0740  
Turnaround (Days): Standard  
QC Deliverables: I Std III IV

Sample ID	Samp Desc		Sample Date
1 AGF1167-01	Irrigation Well	Client Matrix Ground Water Sampled By: Madison Hall	06/08/2023 10:55
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate as N		
2 AGF1167-02	House	Client Matrix Ground Water Sampled By: Madison Hall	06/08/2023 11:30
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate as N		
3 AGF1167-03	Shop	Client Matrix Ground Water Sampled By: Madison Hall	06/08/2023 11:50
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate as N		
4 AGF1167-04	Barn	Client Matrix Ground Water Sampled By: Madison Hall	06/08/2023 11:55
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate as N		
5 AGF1167-05	Central Canalo	Client Matrix Surface Water Sampled By: Madison Hall	06/08/2023 11:36
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate + Nitrite as N EXT-Nitrate as N EXT-Nitrite as N		
6 AGF1167-06	Parsin Canal	Client Matrix Surface Water Sampled By: Madison Hall	06/08/2023 11:45
	Lab Matrix: Water		
	Analysis: _____ EXT-Nitrate + Nitrite as N EXT-Nitrate as N EXT-Nitrite as N		

State Forms: No

System Name: \_\_\_\_\_



SUBCONTRACT ORDER

AGF1167

P62

SF09010

11.54 1.1

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Page 2 of 2

Page 28 of 29

Page 29 of 29

General Order No. R5-2007-0035

**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Coderview Holsteins

93620

Zip Code

## 6.0 acres

0.1 acres

550.0 acres

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number / head	0	0	0	25	0	0
Avg live weight (lbs)				700		
Avg milk production (lbs/cow/day)						
Daily hours on flush				0		

Holstein

120 days

milk cows per string

milking per day

milk loads per day

hours per day

run cycles

run cycles

Page 1 of 10

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**B. MILKBARN EQUIPMENT AND PARLOR FLOOR WASH**

All numerical values in gallons per day	Milkbarn/parlor floor wash	Fresh water used in manure flush lanes	Plate coolers	Vacuum pumps / air compressors / chillers
Selected Type:	Traditional Manual Parlor Floor Wash			
Estimated:	0		0	0
User-Entered:	0	0		
Volume used in calculations:	0	0	0	0
Source is recycled water:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

**C. MISCELLANEOUS EQUIPMENT**

*No miscellaneous equipment added to the preliminary dairy facility assessment.*

**D. DRINKING WATER SOURCE**

Reused water is the source of herd drinking water:      ☐ Yes   ☒ No  
If yes, total amount of reused water consumed:      \_\_\_\_\_ gallons per head per day

**E. SPRINKLER PEN**

Number of sprinklers in the holding pen:      \_\_\_\_\_ 84 sprinklers  
Length of each sprinkler cycle:      \_\_\_\_\_ 1.0 minutes  
Number of sprinkler pen cycles per string:      \_\_\_\_\_ 1 cycles/string  
Water flow rate of each sprinkler head:      \_\_\_\_\_ 4.0 gallons per minute  
Sprinkler pen wastewater volume:      \_\_\_\_\_ 0 gallons per day  
Sprinklers reuse water from equipment:      ☒ Yes   ☐ No

**F. MILKBARN WATER CALCULATIONS**

Water available for reuse/recycle:      \_\_\_\_\_ 0 gallons per day  
Recycled water used again:      \_\_\_\_\_ 0 gallons per day  
Balance:      \_\_\_\_\_ 0 gallons per day  
Milkbarn water sent to pond:      \_\_\_\_\_ 0 gallons per day  
Milkbarn water leaving system:      \_\_\_\_\_ 0 gallons per day

**RETENTION PONDS STORAGE CAPACITY ESTIMATES**

**A. PONDS**

*Copies of this assessment shall be maintained for 10 years.*

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

Basin Name	numerical values in feet						Storage Volume Corrected for Dead Storage Loss (ft³)
	Earthen Length (EL)	Earthen Width (EW)	Earthen Depth (ED)	Side Slope H:V (S)	Free Board (FB)	Dead Storage Loss (DS)	
Pond 1	425	50	8	0.5	2	1	95,674
Pond 2	275	50	12	0.5	2	1	105,179
Pond 3	150	50	12	0.5	2	1	56,241

**RAINFALL ESTIMATES**

**A. RAINFALL AND DRAINAGE INFORMATION**

Rainfall station nearest the facility: Los Banos

Storage period: 120 days

25 year / 24 hour storm event (NOAA Atlas 2, 1973): 2.30 inches

Storage period rainfall (DWR climate data): 6.03 inches

Combined storage period rainfall and 25 year / 24 hour storm event: 8.33 inches

Estimated rainfall onto and drained into the wastewater retention pond: 243,310 gallons

**NUTRIENT REMOVAL BY CROP ESTIMATES**

**A. CROPS**

Acres Planted	Crop Type	Yield (tons/acre)	Moisture (%)	Protein (%)	Phosphorus (lbs/ton yield)	Nitrogen Removed (lbs)	Phosphorus Removed (lbs)
204	Alfalfa hay	48.0	10.0	21.0	5.4	592,220	52,877
261	Corn silage	30.0	70.0	9.0	1.5	67,651	11,745
137	Cotton lint	3.0	0.0	30.0	11.0	39,456	4,521
100	Wheat silage boot stage	10.0	70.0	17.0	2.8	16,320	2,800

**ANNUAL NUTRIENT IMPORT & EXPORT ESTIMATES**

**A. ANNUAL NUTRIENT IMPORTS**

Combined estimate of nutrients from commercial fertilizers and atmospheric Nitrogen applied to crops:

Nutrient Description	Amount Applied (lbs)
Nitrogen (N)	500,000
Phosphorus as Orthophosphate (P2O5)	41,000
Potassium as Potash (K2O)	330,000
Atmospheric Nitrogen Deposition	7,700

Atmospheric Nitrogen Deposition Rate (ANDR) = 14 lbs N / acre / year.

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.



**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**B. ANNUAL NUTRIENT EXPORTS**

Manure Type	Volume Exported	Moisture Content	Total Nitrogen	Total Phosphorus
Separator Solids	0 tons	0.00 %	0.00 %	0.00 %
Corral Solids	0 tons	0.00 %	0.00 %	0.00 %
Liquid Manure	0 gallons	N/A	0.00 mg/L	0.00 mg/L

**PRELIMINARY DAIRY FACILITY ASSESSMENT SUMMARY**

**A. LAND USE**

Dairy production area (corrals, barns, ponds, feed storage): \_\_\_\_\_ 6 acres

Estimate the area (including roofed, impervious, and earthen surfaces) that receives rainfall which drains into a wastewater retention pond: \_\_\_\_\_ 0 acres

Crop land area used for manure application: \_\_\_\_\_ 550 acres

**B. HERD, MILKING, AND MILKBARN/PARLOR**

Milk cows: \_\_\_\_\_ 0 head

Dry cows: \_\_\_\_\_ 0 head

Bred heifers (15 - 24 months): \_\_\_\_\_ 0 head

Heifers (7 - 14 months to breeding): \_\_\_\_\_ 25 head

Calves (4 - 6 months): \_\_\_\_\_ 0 head

Calves (0 - 3 months): \_\_\_\_\_ 0 head

Total number of animals: \_\_\_\_\_ 25 head

Average number of milk cows per string sent to milk barn: \_\_\_\_\_ cows per string

Number of milking strings entering milk barn per milking: \_\_\_\_\_ 0.00 strings per milking

Storage period: \_\_\_\_\_ 120 days

Total manure production by herd for storage period: \_\_\_\_\_ 2,527 cu. ft.

Estimated manure production for storage period (to dry lot): \_\_\_\_\_ 2,527 cu. ft.

Estimated manure production for storage period (to pond): \_\_\_\_\_ 0 gallons

Total milkbarn water volume for storage period (to pond): \_\_\_\_\_ 0 gallons

**C. ROOFED, IMPERVIOUS, AND EARTHEN RAINFALL RUNOFF AREAS**

Total area receiving rainfall and draining to ponds (production area): \_\_\_\_\_ 4,356 sq. ft.

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**D. RETENTION POND AND SETTLING BASIN ESTIMATES**

Liquid storage surface area (retention ponds only):	<u>42,500</u> sq. ft.
Rainfall onto and drained into retention ponds for storage period:	<u>243,310</u> gallons
Waste production as manure:	<u>0</u> gallons
Milkbarn water:	<u>0</u> gallons
Milkbarn water comparative estimate:	<u>0</u> gallons per cow per day
Fresh flush water for storage period:	<u>0</u> gallons
25 year / 24 hour storm event (NOAA Atlas 2, 1973):	<u>2.30</u> inches
Critical storage period rainfall (DWR Climate Data):	<u>6.03</u> inches
Combined critical storage period and 25 year / 24 hour storm event:	<u>8.33</u> inches
Total storage capacity required:	<u>243,310</u> gallons
	<u>32,526</u> cu. ft.
Existing storage capacity (adjusted for dead storage loss):	<u>1,923,194</u> gallons
	<u>257,094</u> cu. ft.
<b>Existing capacity meets estimated storage needs:</b>	<u>Yes</u>

**E. NITROGEN (N) AND PHOSPHORUS (P) EXCRETION ESTIMATES**

Daily gross nitrogen excretion estimates:	<u>7</u> lbs nitrogen per day
Annual gross nitrogen excretion estimates:	<u>2,373</u> lbs nitrogen per year
Nitrogen to pond storage after ammonia losses (30% loss applied):	<u>0</u> lbs nitrogen per year
Nitrogen to drylot storage after ammonia losses (30% loss applied):	<u>1,661</u> lbs nitrogen per year
Total nitrogen in storage (ponds and drylot combined):	<u>1,661</u> lbs nitrogen per year
Daily gross phosphorus excretion estimates:	<u>1</u> lbs phosphorus per day
Annual gross phosphorus excretion estimates:	<u>402</u> lbs phosphorus per year
Phosphorus to pond storage:	<u>0</u> lbs phosphorus per year
Phosphorus to drylot storage:	<u>402</u> lbs phosphorus per year
Total phosphorus in storage (ponds and drylot combined):	<u>402</u> lbs phosphorus per year

**F. NITROGEN AND PHOSPHORUS IMPORT ESTIMATES**

Total nitrogen imports onto facility as commercial fertilizers:	<u>500,000</u> lbs nitrogen per year
Atmospheric Nitrogen Deposition (ANDR):	<u>7,700</u> lbs nitrogen per year
Total phosphorus imports onto facility as commercial fertilizers:	<u>17,917</u> lbs phosphorus per year

**G. NITROGEN AND PHOSPHORUS EXPORT ESTIMATES**

Total nitrogen exports off facility as manure:	<u>0</u> lbs nitrogen per year
Total phosphorus exports off facility as manure:	<u>0</u> lbs phosphorus per year

---

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**H. ANNUAL NITROGEN AND PHOSPHORUS BALANCE ESTIMATE**

Total nitrogen in storage (after 30% ammonia loss):	1,661 lbs
Nitrogen imported (as commercial fertilizer and ANDR):	507,700 lbs
Nitrogen exported as manure:	0 lbs
Nitrogen removed by crops:	715,647 lbs
<b>Excess nitrogen (N generated - N removed):</b>	<b>-206,287 lbs</b>
<b>Whole farm nitrogen balance ratio:</b>	<b>0.71</b>

Total phosphorus in storage:	402 lbs
Phosphorus imported as commercial fertilizer:	17,917 lbs
Phosphorus exported as manure:	0 lbs
Phosphorus removed by crops:	71,943 lbs
<b>Excess phosphorus (P generated - P removed):</b>	<b>-53,624 lbs</b>

---

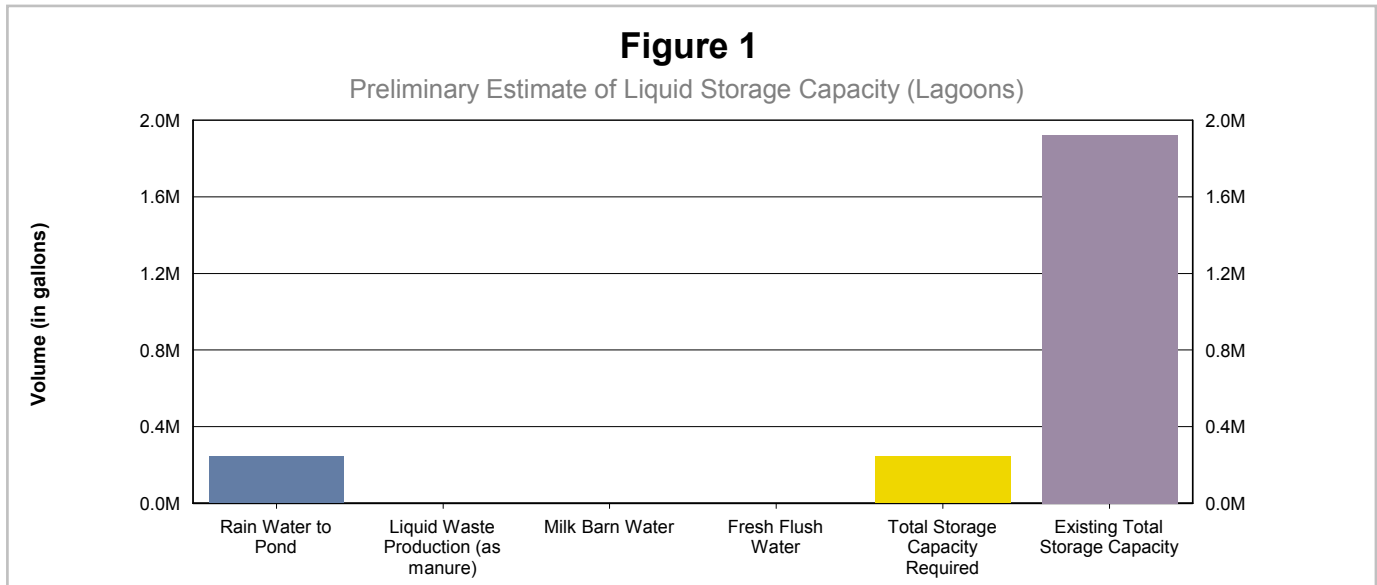
**Copies of this assessment shall be maintained for 10 years.**

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

CHARTS

**A. FIGURE 1**



This graph estimates how many gallons of water and waste are sent to the wastewater storage ponds (lagoons) on your dairy during the selected 120 day storage period.

Your wastewater storage ponds (lagoons) must be very close to empty as a result of applying nutrients to crops over the last year starting in the beginning of October and should not fill before February.

Existing Storage Capacity:	1,923,194 gallons
Required Storage Capacity:	243,310 gallons
Storage Capacity Difference:	1,679,884 gallons

***The estimated pond capacity appears to be adequate.***

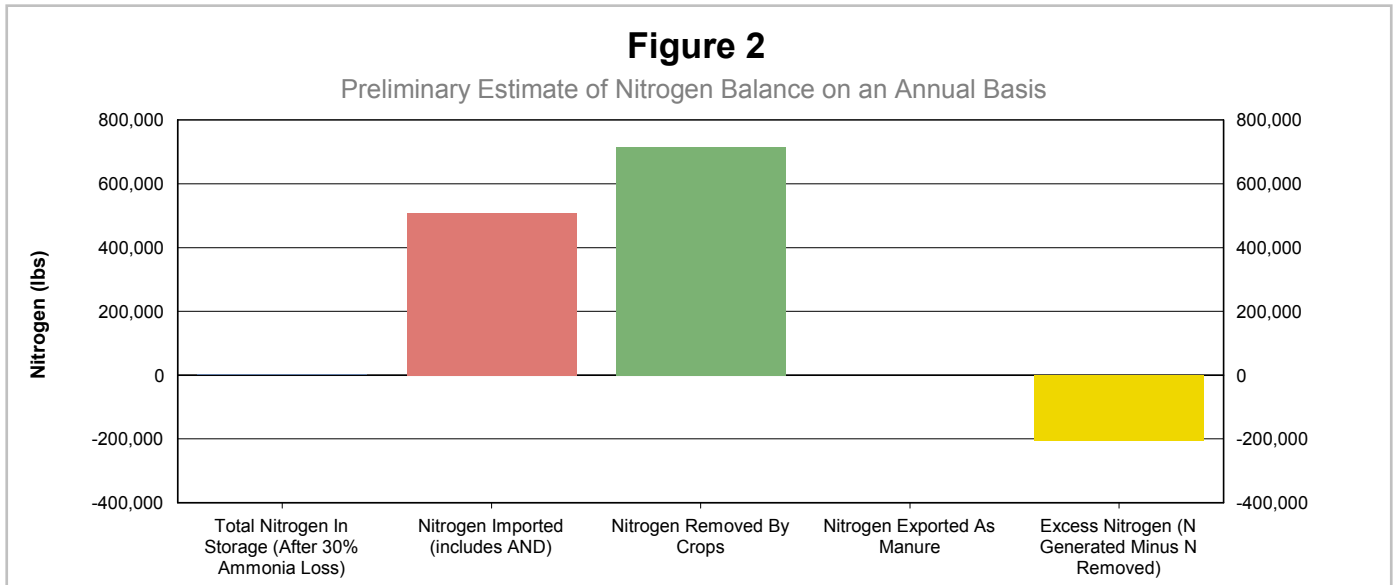
---

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**B. FIGURE 2**



This graph estimates the total pounds of nitrogen excreted from the herd ending up in storage, imported, removed by all crops associated with the dairy, exported (typically as dry manure), and balance, excess, or deficiency on an annual basis.

Nutrients must be applied at rates and times appropriate for the crop to prevent surfacewater and groundwater degradation.

Total nitrogen in storage (after 30% ammonia loss):	1,661 pounds
Nitrogen imported (includes AND*):	507,700 pounds
Nitrogen exported (as manure):	0 pounds
Nitrogen removed by crops:	715,647 pounds
Nitrogen excess or deficiency:	-206,287 pounds
Whole farm nitrogen balance ratio:	0.71 (regulatory limit 1.65**)

*It appears that the crop rotation may be capable of removing the nitrogen applied on an annual basis.*

\* AND = Atmospheric Nitrogen Deposition

\*\* Whole Farm Nitrogen Balance alone does not assure compliance, you cannot list cropland acreage or claim nutrient uptake for cropland that lacks infrastructure for controlled nutrient applications at agronomic rates and times.

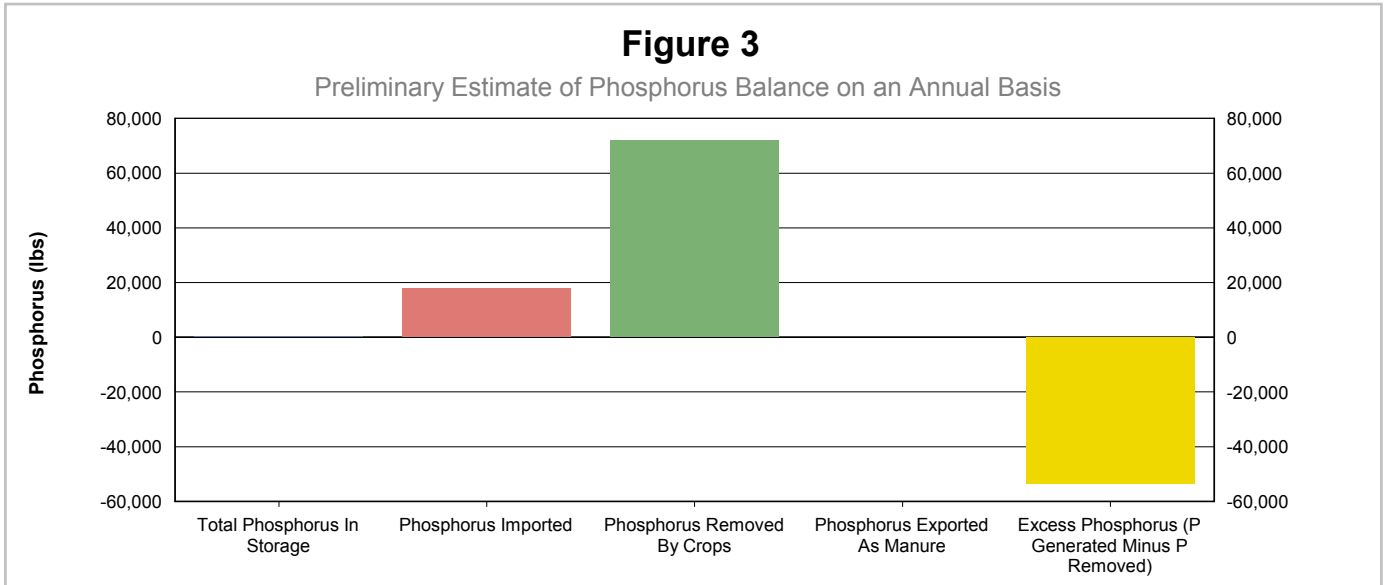
Nitrogen balance ratio = (Total nitrogen in storage - Nitrogen exported + Nitrogen in irrigation water + Nitrogen imports) / Crop removal

**Copies of this assessment shall be maintained for 10 years.**

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

**C. FIGURE 3**



This graph estimates the total pounds of phosphorus excreted from the herd ending up in storage, imported, removed by all crops associated with the dairy, exported (typically as dry manure), and balance, excess, or deficiency on an annual basis.

Nutrients must be applied at rates and times appropriate for the crop to prevent surfacewater and groundwater degradation.

Total phosphorus in storage:	402 pounds
Phosphorus imported:	17,917 pounds
Phosphorus exported (as manure):	0 pounds
Phosphorus removed by crops:	71,943 pounds
Phosphorus excess or deficiency:	-53,624 pounds

***It appears that the crop rotation may be capable of removing the phosphorus applied on an annual basis.***

---

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.

**Preliminary Dairy Facility Assessment Report**  
General Order No. R5-2007-0035

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. IN ADDITION, I CERTIFY THAT THE PROVISIONS OF WASTE DISCHARGE REQUIREMENTS GENERAL ORDER NO. R5-2007-0035, INCLUDING THE DEVELOPMENT AND IMPLEMENTATION OF A NUTRIENT MANAGEMENT PLAN AND WASTE MANAGEMENT PLAN, WILL BE COMPLIED WITH."

  
SIGNATURE OF OWNER OF FACILITY

Frank J. Coderniz

PRINT OR TYPE NAME

Owner and Operator

TITLE AND DATE

7/10/24

  
SIGNATURE OF OPERATOR OF FACILITY

Frank J. Coderniz

PRINT OR TYPE NAME

TITLE AND DATE

***Copies of this assessment shall be maintained for 10 years.***

These calculations are preliminary and approximate only. Completion of your Waste Management Plan and Nutrient Management Plan will provide you with more detailed and precise calculations upon which to make important decisions.