

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: Dover Dairy

Physical address of dairy:

4265 Dover AVE Number and Street	Hanford City	Kings County	93230 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01/01/1990

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X002-X180-X012-XXXX X002-X180-X017-XXXX

B. OPERATORS

de Jong, Johnnie

Operator name: <u>de Jong, Johnnie</u>	Telephone no.: <u>(559) 583-9004</u>		
	Landline Cellular		
4265 Dover AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

de Jong, Johnnie

Legal owner name: <u>de Jong, Johnnie</u>	Telephone no.: <u>(559) 583-9004</u>		
	Landline Cellular		
4265 Dover AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	275	1,115	540	475	505
Number under roof	2,150	0	0	0	0	0
Maximum number	2,155	285	1,130	555	795	520
Average number	2,150	275	1,115	540	475	505
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 68 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 78,916.20 tons per reporting period

Total nitrogen from manure: 971,794.04 lbs per reporting period

After ammonia losses (30% loss applied): 680,255.83 lbs per reporting period

Total phosphorus from manure: 157,604.40 lbs per reporting period

Total potassium from manure: 408,919.74 lbs per reporting period

Total salt from manure: 1,075,563.75 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 54,708,748 gallons

Total nitrogen generated: 182,419.99 lbs

Total phosphorus generated: 55,244.20 lbs

Total potassium generated: 294,814.37 lbs

Total salt generated: 2,131,825.17 lbs

<u>54,708,748 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>54,708,748 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
B2	Ground water
B3	Ground water
B4	Ground water
Baker 1	Ground water
Baker 2	Ground water

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Source Description	Type
Barn	Ground water
D1	Ground water
D1 Sub	Ground water
D2	Ground water
D3	Ground water
D4	Ground water
D5	Ground water
D6	Ground water
D7	Ground water
DWD1	Ground water
G1	Ground water
G2 Sub	Ground water
House	Ground water
Peoples Ditch Hanford ID	Surface water
RRIW	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
BAR#2	24	24	1	manure	X014-X010-X065-XXXX
BCL#3	38	38	2	manure	X002-X180-X006-XXXX
BCL#4	30	30	2	process wastewater	X002-X180-X020-XXXX
BCL#5	78	78	2	both	X002-X180-X020-XXXX
DB#1	41	41	2	process wastewater	X002-X180-X018-XXXX
DB#2	111	111	1	none	X002-X180-X019-XXXX
DVR#1	56	56	1	process wastewater	X002-X180-X002-XXXX
DVR#2	75	75	2	process wastewater	X002-X180-X002-XXXX
DVR#3	76	76	1	both	X002-X180-X016-XXXX
DVR#4	79	79	2	both	X002-X180-X016-XXXX
DVR#5	31	31	2	process wastewater	X002-X180-X017-XXXX
DVR#6	79	79	1	process wastewater	X002-X180-X012-XXXX
DVR#7	66	66	1	process wastewater	X002-X180-X012-XXXX
Elder Ranch	120	120	2	manure	X014-X030-X025-XXXX X014-X030-X026-XXXX X014-X030-X027-XXXX
Garcia#1	39	39	1	process wastewater	X002-X170-X028-XXXX
Garcia#2	10	10	1	process wastewater	X002-X170-X028-XXXX
Horse Ranch	20	20	1	none	X002-X030-X021-XXXX X028-X200-X028-XXXX X028-X200-X029-XXXX X028-X200-X041-XXXX X042-X010-X011-XXXX
Raisin Ranch	18	18	1	none	X042-X010-X012-XXXX
Totals for areas that were used for application	842	842	23		
Totals for areas that were not used for application	149	149	3		
Land application area totals	991	991	26		

B. CROPS AND HARVESTS

BAR#2

Field name: BAR#2

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BAR#2

11/10/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 24 Plant date: 11/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	401.00 <i>ton</i>	Dry-weight		64.8	14,400.00	3,600.00	14,600.00		8.62

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.71	169.38	42.35	171.73	1,013.94

BCL#3Field name: BCL#3

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 38 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	636.00 <i>ton</i>	Dry-weight		66.0	16,000.00	2,600.00	10,200.00		6.89

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.74	182.10	29.59	116.09	784.15

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,069.00 <i>ton</i>	Dry-weight		60.8	10,500.00	2,400.00	6,300.00		4.76

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.13	231.58	52.93	138.95	1,049.83

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BCL#4Field name: BCL#4

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	509.00 ton	Dry-weight		61.0	16,000.00	2,500.00	9,500.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.97	211.74	33.09	125.72	846.98

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	859.00 ton	Dry-weight		65.0	12,000.00	2,900.00	8,200.00		5.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.63	240.52	58.13	164.36	1,144.47

BCL#5Field name: BCL#5

11/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,355.00 ton	Dry-weight		61.0	15,000.00	3,100.00	11,900.00		7.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.37	203.25	42.01	161.25	974.25

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BCL#5

06/11/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/11/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	2,269.00 <i>ton</i>	Dry-weight		67.9	12,500.00	3,000.00	9,000.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.09	233.45	56.03	168.08	1,064.51

DB#1

Field name: DB#1

11/13/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 41 Plant date: 11/13/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	688.00 <i>ton</i>	Dry-weight		64.8	17,400.00	2,700.00	14,400.00		6.04

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.78	205.55	31.90	170.11	713.53

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 41 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	1,154.00 <i>ton</i>	Dry-weight		63.3	10,800.00	3,100.00	10,000.00		6.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.15	223.12	64.04	206.59	1,305.68

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DB#2

Field name: DB#2

03/05/2018: Almond, in shell

Crop: Almond, in shell Acres planted: 111 Plant date: 03/05/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	268.90 ton	Dry-weight		8.7	22,600.00	3,300.00	14,700.00		9.91

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.50	325.00	50.00	250.00	187.50
Total actual harvest content	2.42	99.97	14.60	65.03	438.37

DVR#1

Field name: DVR#1

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

Crop: Wheat, silage, soft dough Acres planted: 56 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	994.00 ton	Dry-weight		64.8	17,700.00	2,200.00	6,800.00		5.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.75	221.18	27.49	84.97	746.01

DVR#2

Field name: DVR#2

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DVR#2

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,277.00 ton	Dry-weight		69.2	17,300.00	3,700.00	20,000.00		8.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.03	181.45	38.81	209.77	909.35

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	2,178.00 ton	Dry-weight		65.2	12,000.00	2,900.00	12,700.00		4.65

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.04	242.54	58.61	256.69	939.85

DVR#3Field name: DVR#3

04/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 04/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	2,245.00 ton	Dry-weight		63.5	11,500.00	2,600.00	9,700.00		5.49

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.54	247.98	56.07	209.17	1,183.85

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DVR#4Field name: DVR#4

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

Crop: Wheat, silage, soft dough Acres planted: 79 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,389.00 ton	Dry-weight		66.7	16,700.00	4,200.00	22,200.00		9.88

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.58	195.55	49.18	259.96	1,156.93

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	2,289.00 ton	Dry-weight		69.5	13,600.00	2,700.00	12,300.00		6.07

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.97	240.37	47.72	217.40	1,072.85

DVR#5Field name: DVR#5

11/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 31 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	496.00 ton	Dry-weight		62.4	16,500.00	4,400.00	21,000.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.00	198.53	52.94	252.67	1,311.49

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DVR#5

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 31 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	887.00 <i>ton</i>	Dry-weight		65.3	11,900.00	3,000.00	14,400.00		6.64

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.61	236.30	59.57	285.95	1,318.53

DVR#6Field name: DVR#6

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

Crop: Wheat, silage, soft dough Acres planted: 79 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	1,395.00 <i>ton</i>	Dry-weight		65.9	15,500.00	3,600.00	11,300.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.66	186.67	43.35	136.08	1,228.38

DVR#7Field name: DVR#7

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DVR#7

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

Crop: Wheat, silage, soft dough Acres planted: 66 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	1,119.00 <i>ton</i>	Dry-weight		68.7	17,300.00	4,000.00	18,500.00		9.66

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	16.95	183.61	42.45	196.35	1,025.27

Elder Ranch

Field name: Elder Ranch

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

Crop: Wheat, silage, soft dough Acres planted: 120 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/13/2023	2,105.00 <i>ton</i>	Dry-weight		64.0	13,600.00	2,200.00	5,600.00		8.08

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	17.54	171.77	27.79	70.73	1,020.50

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 120 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	3,571.00 <i>ton</i>	Dry-weight		63.5	11,000.00	3,000.00	6,700.00		4.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.76	238.96	65.17	145.55	1,025.35

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Garcia#1

Field name: Garcia#1

06/08/2023: Corn, silage

Crop: Corn, silage

Acres planted: 39 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	1,077.00 ton	Dry-weight		64.0	11,600.00	2,400.00	13,400.00		7.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	27.62	230.64	47.72	266.43	1,413.69

Garcia#2

Field name: Garcia#2

06/09/2023: Corn, silage

Crop: Corn, silage

Acres planted: 10 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/04/2023	284.00 ton	Dry-weight		65.6	12,200.00	2,900.00	13,100.00		6.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.40	238.38	56.66	255.96	1,311.08

Horse Ranch

Field name: Horse Ranch

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Horse Ranch

03/01/2020: Cherries

Crop: Cherries Acres planted: 20 Plant date: 03/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	89.00 ton	Dry-weight		82.0	15,500.00	1,400.00	13,300.00		7.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	5.50	38.50	11.00	44.00	275.00
Total actual harvest content	4.45	24.83	2.24	21.31	120.79

Raisin Ranch

Field name: Raisin Ranch

03/01/2020: Cherries

Crop: Cherries Acres planted: 18 Plant date: 03/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	85.00 ton	Dry-weight		82.0	13,500.00	1,400.00	13,300.00		7.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	5.50	38.50	11.00	44.00	275.00
Total actual harvest content	4.72	22.95	2.38	22.61	128.18

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

BAR#2 - 11/10/2022: Wheat, silage, soft dough

Field name: BAR#2Crop: Wheat, silage, soft dough Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	120.00 ton
Application event totals		192.60	72.90	206.10	0.00	
11/11/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	34.20	2,458,993.00 gal
Application event totals		0.00	0.00	0.00	34.20	
01/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	32.91	2,365,995.00 gal
Application event totals		0.00	0.00	0.00	32.91	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.12	3,459,668.00 gal
Application event totals		0.00	0.00	0.00	48.12	

BCL#3 - 11/14/2022: Wheat, silage, soft dough

Field name: BCL#3Crop: Wheat, silage, soft dough Plant date: 11/14/2022

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

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BCL#3 - 11/14/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	190.00 ton
Application event totals		192.60	72.90	206.10	0.00	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
B2	Ground water	40.32	0.00	0.00	887.02	4,589,966.00 gal
Application event totals		40.32	0.00	0.00	887.02	
01/14/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.42	4,259,668.00 gal
Application event totals		0.00	0.00	0.00	37.42	
02/15/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.54	4,159,357.00 gal
Application event totals		0.00	0.00	0.00	36.54	

BCL#3 - 06/11/2023: Corn, silage

Field name: BCL#3

Crop: Corn, silage

Plant date: 06/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	269.64	102.06	288.54	0.00	266.00 ton
Application event totals		269.64	102.06	288.54	0.00	

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BCL#3 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.06	5,698,442.00 gal
Application event totals		0.00	0.00	0.00	50.06	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.06	5,698,335.00 gal
Application event totals		0.00	0.00	0.00	50.06	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.22	5,489,665.00 gal
Application event totals		0.00	0.00	0.00	48.22	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.17	5,369,885.00 gal
Application event totals		0.00	0.00	0.00	47.17	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.11	5,248,996.00 gal
Application event totals		0.00	0.00	0.00	46.11	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.22	5,489,667.00 gal
Application event totals		0.00	0.00	0.00	48.22	

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BCL#3 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.06	5,357,753.00 gal
Application event totals		0.00	0.00	0.00	47.06	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.13	5,478,669.00 gal
Application event totals		0.00	0.00	0.00	48.13	

BCL#4 - 11/12/2022: Wheat, silage, soft dough

Field name: BCL#4

Crop: Wheat, silage, soft dough Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	104.98	41.45	202.39	1,121.36	756,332.00 gal
B2	Ground water	34.04	0.00	0.00	748.80	3,058,996.00 gal
Application event totals		139.02	41.45	202.39	1,870.16	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	89.75	35.43	173.02	958.60	646,556.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	39.60	3,558,775.00 gal
Application event totals		89.75	35.43	173.02	998.20	

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BCL#4 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/20/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.88	4,123,665.00 gal
Application event totals		0.00	0.00	0.00	45.88	

BCL#4 - 06/10/2023: Corn, silage

Field name: BCL#4

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	98.07	17.94	128.78	1,333.21	1,254,669.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.39	4,258,996.00 gal
Application event totals		98.07	17.94	128.78	1,380.60	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.39	4,258,996.00 gal
Application event totals		0.00	0.00	0.00	47.39	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.88	15.71	112.77	1,167.44	1,098,664.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.39	4,258,996.00 gal
Application event totals		85.88	15.71	112.77	1,214.83	

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BCL#4 - 06/10/2023: 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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.38	4,257,889.00 gal
Application event totals		0.00	0.00	0.00	47.38	
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
Lagoon	Process wastewater	82.00	13.76	87.95	1,038.70	854,485.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.28	4,159,357.00 gal
Application event totals		82.00	13.76	87.95	1,084.98	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.62	4,369,885.00 gal
Application event totals		0.00	0.00	0.00	48.62	
09/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.28	4,159,664.00 gal
Application event totals		0.00	0.00	0.00	46.28	

BCL#5 - 11/12/2022: Wheat, silage, soft dough

Field name: BCL#5

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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BCL#5 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	72.88	28.77	140.51	778.51	1,365,229.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.35	9,895,668.00 gal
Application event totals		72.88	28.77	140.51	820.86	
01/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.54	30.61	149.48	828.18	1,452,336.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	40.91	9,558,996.00 gal
Application event totals		77.54	30.61	149.48	869.09	
02/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	77.75	30.69	149.89	830.46	1,456,335.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.63	8,559,665.00 gal
Application event totals		77.75	30.69	149.89	867.09	

BCL#5 - 06/11/2023: Corn, silage

Field name: BCL#5

Crop: Corn, silage

Plant date: 06/11/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	123.46	46.73	132.12	0.00	250.00 ton
Application event totals		123.46	46.73	132.12	0.00	

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BCL#5 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.47	11,558,669.00 gal
Application event totals		0.00	0.00	0.00	49.47	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	73.87	13.51	97.00	1,004.15	2,456,996.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.32	11,525,664.00 gal
Application event totals		73.87	13.51	97.00	1,053.48	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.60	12,525,448.00 gal
Application event totals		0.00	0.00	0.00	53.60	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	66.05	11.09	70.84	836.68	1,789,556.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.60	12,524,558.00 gal
Application event totals		66.05	11.09	70.84	890.28	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.73	12,554,778.00 gal
Application event totals		0.00	0.00	0.00	53.73	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.55	11,578,559.00 gal
Application event totals		0.00	0.00	0.00	49.55	

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BCL#5 - 06/11/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.18	11,025,669.00 gal
Application event totals		0.00	0.00	0.00	47.18	

DB#1 - 11/13/2022: Wheat, silage, soft dough

Field name: DB#1

Crop: Wheat, silage, soft dough Plant date: 11/13/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/14/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	91.26	36.03	175.94	974.80	898,559.00 gal
Baker 1	Ground water	2.87	0.00	0.00	219.96	4,698,559.00 gal
Application event totals		94.13	36.03	175.94	1,194.76	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.12	32.02	156.38	866.43	798,665.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.99	4,789,665.00 gal
Application event totals		81.12	32.02	156.38	905.43	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	57.29	22.62	110.46	611.99	564,122.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	40.41	4,963,558.00 gal
Application event totals		57.29	22.62	110.46	652.40	

DB#1 - 06/09/2023: Corn, silage

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DB#1 - 06/09/2023: Corn, silage

Field name: DB#1

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	94.15	37.17	181.51	1,005.65	926,995.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.07	5,289,887.00 gal
Application event totals		94.15	37.17	181.51	1,048.72	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.68	6,347,889.00 gal
Application event totals		0.00	0.00	0.00	51.68	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.28	16.51	118.56	1,227.34	1,578,557.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.31	6,548,558.00 gal
Application event totals		90.28	16.51	118.56	1,280.66	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.32	6,548,995.00 gal
Application event totals		0.00	0.00	0.00	53.32	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	81.82	13.73	87.75	1,036.42	1,165,229.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	54.92	6,745,669.00 gal
Application event totals		81.82	13.73	87.75	1,091.34	

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DB#1 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	55.81	6,854,889.00 gal
Application event totals		0.00	0.00	0.00	55.81	
09/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.40	6,558,996.00 gal
Application event totals		0.00	0.00	0.00	53.40	

DB#2 - 03/05/2018: Almond, in shell

Field name: DB#2

Crop: Almond, in shell

Plant date: 03/05/2018

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.47	12,458,996.00 gal
Application event totals		0.00	0.00	0.00	37.47	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.46	12,456,887.00 gal
Application event totals		30.00	0.00	0.00	37.46	
05/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.19	12,365,448.00 gal
Application event totals		0.00	0.00	0.00	37.19	

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DB#2 - 03/05/2018: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	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
UN 32	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.44	14,445,254.00 gal
Application event totals		30.00	0.00	0.00	43.44	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.37	14,754,889.00 gal
Application event totals		0.00	0.00	0.00	44.37	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.48	14,456,993.00 gal
Application event totals		0.00	0.00	0.00	43.48	
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.20	12,369,559.00 gal
Application event totals		0.00	0.00	0.00	37.20	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.46	12,457,884.00 gal
Application event totals		0.00	0.00	0.00	37.46	

DVR#1 - 11/15/2022: Wheat, silage, soft dough

Field name: DVR#1

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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DVR#1 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	85.88	33.90	165.56	917.28	1,154,885.00 gal
Baker 2	Ground water	21.06	0.00	0.00	550.87	5,962,335.00 gal
Application event totals		106.93	33.90	165.56	1,468.15	
01/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.62	36.57	178.56	989.31	1,245,562.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.94	6,365,228.00 gal
Application event totals		92.62	36.57	178.56	1,027.25	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	34.20	13.50	65.92	365.25	459,865.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.89	6,356,884.00 gal
Application event totals		34.20	13.50	65.92	403.15	

DVR#2 - 11/15/2022: Wheat, silage, soft dough

Field name:	<u>DVR#2</u>	Plant date:	<u>11/15/2022</u>			
Crop:	<u>Wheat, silage, soft dough</u>					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	105.30	41.57	203.00	1,124.76	1,896,557.00 gal
Baker 2	Ground water	22.60	0.00	0.00	591.16	8,569,335.00 gal
Application event totals		127.90	41.57	203.00	1,715.91	

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DVR#2 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	96.75	38.20	186.52	1,033.42	1,742,544.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.64	8,456,779.00 gal
Application event totals		96.75	38.20	186.52	1,071.06	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.64	8,456,992.00 gal
Application event totals		0.00	0.00	0.00	37.64	

DVR#2 - 06/12/2023: Corn, silage

Field name: DVR#2

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	61.36	11.22	80.58	834.21	1,962,664.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.21	8,585,664.00 gal
Application event totals		61.36	11.22	80.58	872.42	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.95	10,548,996.00 gal
Application event totals		0.00	0.00	0.00	46.95	

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DVR#2 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	67.37	11.31	72.25	853.34	1,754,996.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.95	10,547,889.00 gal
Application event totals		67.37	11.31	72.25	900.29	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.08	10,578,995.00 gal
Application event totals		0.00	0.00	0.00	47.08	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	75.45	12.66	80.91	955.67	1,965,448.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.42	10,654,889.00 gal
Application event totals		75.45	12.66	80.91	1,003.09	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.55	10,458,996.00 gal
Application event totals		0.00	0.00	0.00	46.55	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.38	9.97	63.68	752.15	1,546,882.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.55	10,459,885.00 gal
Application event totals		59.38	9.97	63.68	798.70	

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DVR#2 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.50	8,651,224.00 gal
Application event totals		0.00	0.00	0.00	38.50	

DVR#3 - 04/15/2023: Corn, silage

Field name: DVR#3

Crop: Corn, silage

Plant date: 04/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	380.00 ton
Application event totals		192.60	72.90	206.10	0.00	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.40	10,564,887.00 gal
Application event totals		0.00	0.00	0.00	46.40	
04/20/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.46	10,578,996.00 gal
Application event totals		0.00	0.00	0.00	46.46	
05/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	68.25	26.95	131.58	729.02	1,245,665.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.93	10,684,559.00 gal
Application event totals		68.25	26.95	131.58	775.95	

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DVR#3 - 04/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.79	10,654,224.00 gal
Application event totals		0.00	0.00	0.00	46.79	
06/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.76	10,645,882.00 gal
Application event totals		0.00	0.00	0.00	46.76	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.54	10,369,559.00 gal
Application event totals		0.00	0.00	0.00	45.54	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.06	10,259,664.00 gal
Application event totals		0.00	0.00	0.00	45.06	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.79	10,425,669.00 gal
Application event totals		0.00	0.00	0.00	45.79	

DVR#4 - 11/16/2022: Wheat, silage, soft dough

Field name: DVR#4

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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DVR#4 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/25/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	395.00 ton
Application event totals		192.60	72.90	206.10	0.00	
11/17/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
D7	Ground water	1.94	0.00	0.00	222.54	9,159,753.00 gal
Application event totals		1.94	0.00	0.00	222.54	
01/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	46.31	18.28	89.28	494.65	878,559.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.59	8,895,667.00 gal
Application event totals		46.31	18.28	89.28	532.24	
02/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.25	8,578,944.00 gal
Application event totals		0.00	0.00	0.00	36.25	

DVR#4 - 06/12/2023: Corn, silage

Field name: DVR#4

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	395.00 ton
Application event totals		192.60	72.90	206.10	0.00	

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DVR#4 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/02/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.41	11,456,995.00 gal
Application event totals		0.00	0.00	0.00	48.41	
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
Lagoon	Process wastewater	51.82	9.48	68.05	704.50	1,745,884.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.41	11,456,889.00 gal
Application event totals		51.82	9.48	68.05	752.90	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.56	11,256,995.00 gal
Application event totals		0.00	0.00	0.00	47.56	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	64.01	10.74	68.65	810.80	1,756,449.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.25	11,654,775.00 gal
Application event totals		64.01	10.74	68.65	860.05	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.24	11,654,227.00 gal
Application event totals		0.00	0.00	0.00	49.24	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.53	11,485,778.00 gal
Application event totals		0.00	0.00	0.00	48.53	

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DVR#4 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.23	11,651,224.00 gal
Application event totals		0.00	0.00	0.00	49.23	

DVR#5 - 11/14/2022: Wheat, silage, soft dough

Field name: DVR#5

Crop: Wheat, silage, soft dough Plant date: 11/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	99.00	39.08	190.86	1,057.44	736,995.00 gal
D5	Ground water	39.53	0.00	0.00	710.99	3,521,559.00 gal
Application event totals		138.53	39.08	190.86	1,768.43	
01/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	92.28	36.43	177.91	985.70	686,995.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.73	3,596,554.00 gal
Application event totals		92.28	36.43	177.91	1,024.43	
02/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.18	3,546,228.00 gal
Application event totals		0.00	0.00	0.00	38.18	

DVR#5 - 06/08/2023: Corn, silage

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DVR#5 - 06/08/2023: Corn, silage

Field name: DVR#5

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	94.91	17.36	124.63	1,290.20	1,254,668.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.04	4,089,665.00 gal
Application event totals		94.91	17.36	124.63	1,334.24	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.94	4,823,556.00 gal
Application event totals		0.00	0.00	0.00	51.94	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.16	16.13	115.77	1,198.45	1,165,448.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.28	4,112,255.00 gal
Application event totals		88.16	16.13	115.77	1,242.73	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.59	4,698,558.00 gal
Application event totals		0.00	0.00	0.00	50.59	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.49	14.85	94.90	1,120.82	952,778.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.32	3,558,996.00 gal
Application event totals		88.49	14.85	94.90	1,159.15	

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DVR#5 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.16	4,658,772.00 gal
Application event totals		0.00	0.00	0.00	50.16	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.59	4,698,552.00 gal
Application event totals		0.00	0.00	0.00	50.59	

DVR#6 - 11/17/2022: Wheat, silage, soft dough

Field name: DVR#6

Crop: Wheat, silage, soft dough Plant date: 11/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	69.66	27.50	134.29	744.07	1,321,554.00 gal
D5	Ground water	43.41	0.00	0.00	780.69	9,854,122.00 gal
Application event totals		113.07	27.50	134.29	1,524.76	
01/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.32	23.42	114.37	633.65	1,125,448.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.35	9,785,448.00 gal
Application event totals		59.32	23.42	114.37	675.00	

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DVR#6 - 11/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.43	20.30	99.14	549.30	975,632.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	32.31	7,645,882.00 gal
Application event totals		51.43	20.30	99.14	581.61	

DVR#7 - 11/18/2022: Wheat, silage, soft dough

Field name: DVR#7

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/19/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	102.65	40.52	197.89	1,096.39	1,626,882.00 gal
D7	Ground water	2.22	0.00	0.00	255.61	8,789,664.00 gal
Application event totals		104.87	40.52	197.89	1,352.00	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	97.53	38.50	188.02	1,041.73	1,545,771.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.71	7,456,992.00 gal
Application event totals		97.53	38.50	188.02	1,079.44	
02/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	28.32	5,598,554.00 gal
Application event totals		0.00	0.00	0.00	28.32	

Elder Ranch - 11/15/2022: Wheat, silage, soft dough

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Elder Ranch - 11/15/2022: Wheat, silage, soft dough

Field name: Elder Ranch

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	192.60	72.90	206.10	0.00	600.00 ton
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	35.58	12,789,445.00 gal
Application event totals		192.60	72.90	206.10	35.58	
01/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	33.09	11,896,554.00 gal
Application event totals		0.00	0.00	0.00	33.09	
02/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.03	12,951,753.00 gal
Application event totals		0.00	0.00	0.00	36.03	

Elder Ranch - 06/12/2023: Corn, silage

Field name: Elder Ranch

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	269.64	102.06	288.54	0.00	840.00 ton
Application event totals		269.64	102.06	288.54	0.00	

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Elder Ranch - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/03/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.35	18,458,774.00 gal
Application event totals		0.00	0.00	0.00	51.35	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.25	18,425,881.00 gal
Application event totals		0.00	0.00	0.00	51.25	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.78	18,254,118.00 gal
Application event totals		0.00	0.00	0.00	50.78	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	52.16	18,753,115.00 gal
Application event totals		0.00	0.00	0.00	52.16	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.98	18,325,996.00 gal
Application event totals		0.00	0.00	0.00	50.98	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.25	18,425,662.00 gal
Application event totals		0.00	0.00	0.00	51.25	

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Elder Ranch - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.75	18,245,778.00 gal
Application event totals		0.00	0.00	0.00	50.75	

Garcia#1 - 06/08/2023: Corn, silage

Field name: Garcia#1

Crop: Corn, silage

Plant date: 06/08/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	87.56	16.02	114.99	1,190.38	1,456,334.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.33	5,413,556.00 gal
Application event totals		87.56	16.02	114.99	1,236.72	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	58.11	6,789,552.00 gal
Application event totals		0.00	0.00	0.00	58.11	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	93.33	15.66	100.09	1,182.14	1,264,224.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.90	5,245,882.00 gal
Application event totals		93.33	15.66	100.09	1,227.03	

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Garcia#1 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	52.42	6,124,885.00 gal
Application event totals		0.00	0.00	0.00	52.42	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.10	13.95	89.12	1,052.57	1,125,662.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	50.22	5,866,995.00 gal
Application event totals		83.10	13.95	89.12	1,102.79	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	58.11	6,789,554.00 gal
Application event totals		0.00	0.00	0.00	58.11	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.14	5,741,559.00 gal
Application event totals		0.00	0.00	0.00	49.14	

Garcia#2 - 06/09/2023: Corn, silage

Field name: Garcia#2

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Garcia#2 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	90.10	16.48	118.31	1,224.82	384,221.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.07	1,529,882.00 gal
Application event totals		90.10	16.48	118.31	1,275.88	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.06	1,589,566.00 gal
Application event totals		0.00	0.00	0.00	53.06	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	88.09	16.11	115.68	1,197.55	375,668.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.88	1,554,112.00 gal
Application event totals		88.09	16.11	115.68	1,249.43	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	51.48	1,542,116.00 gal
Application event totals		0.00	0.00	0.00	51.48	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	83.84	14.07	89.92	1,062.02	291,223.00 gal
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.61	1,456,223.00 gal
Application event totals		83.84	14.07	89.92	1,110.63	

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Garcia#2 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.59	1,245,882.00 gal
Application event totals		0.00	0.00	0.00	41.59	
09/01/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.20	1,354,228.00 gal
Application event totals		0.00	0.00	0.00	45.20	

Horse Ranch - 03/01/2020: Cherries

Field name: Horse Ranch

Crop: Cherries

Plant date: 03/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.81	2,564,889.00 gal
Application event totals		0.00	0.00	0.00	42.81	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.97	2,514,663.00 gal
Application event totals		0.00	0.00	0.00	41.97	
05/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.49	2,546,115.00 gal
Application event totals		0.00	0.00	0.00	42.49	

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Horse Ranch - 03/01/2020: Cherries

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.52	2,547,882.00 gal
Application event totals		0.00	0.00	0.00	42.52	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.51	2,546,992.00 gal
Application event totals		0.00	0.00	0.00	42.51	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.31	2,654,889.00 gal
Application event totals		0.00	0.00	0.00	44.31	
09/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.31	2,654,885.00 gal
Application event totals		0.00	0.00	0.00	44.31	
10/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.03	2,578,441.00 gal
Application event totals		0.00	0.00	0.00	43.03	

Raisin Ranch - 03/01/2020: Cherries

Field name: Raisin Ranch

Crop: Cherries

Plant date: 03/01/2020

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

Raisin Ranch - 03/01/2020: Cherries

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.32	2,282,115.00 gal
Application event totals		0.00	0.00	0.00	42.32	
04/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.65	2,245,695.00 gal
Application event totals		0.00	0.00	0.00	41.65	
05/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.64	2,245,661.00 gal
Application event totals		0.00	0.00	0.00	41.64	
06/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.61	2,243,665.00 gal
Application event totals		0.00	0.00	0.00	41.61	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.87	2,365,448.00 gal
Application event totals		0.00	0.00	0.00	43.87	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	45.17	2,435,669.00 gal
Application event totals		0.00	0.00	0.00	45.17	

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Raisin Ranch - 03/01/2020: Cherries

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2023	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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.67	2,354,669.00 gal
Application event totals		0.00	0.00	0.00	43.67	
10/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	43.66	2,354,118.00 gal
Application event totals		0.00	0.00	0.00	43.66	

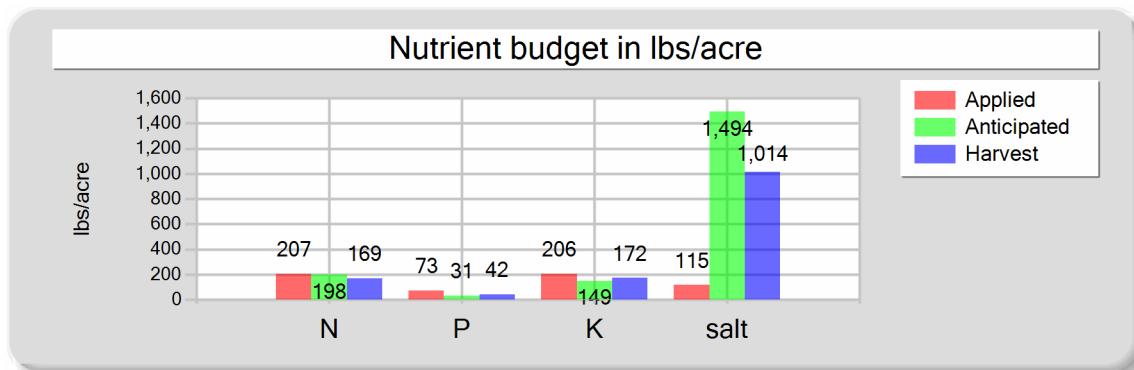
Annual Report - General Order No. R5-2007-0035

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

B. NUTRIENT BUDGET

BAR#2 - 11/10/2022: Wheat, silage, soft dough

Field name: BAR#2 Crop: Wheat, silage, soft dough Plant date: 11/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	115.23
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	206.60	72.90	206.10	115.23
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	169.38	42.35	171.73	1,013.94
Nutrient balance	37.22	30.55	34.37	-898.72
Applied to removed ratio	1.22	1.72	1.20	0.11

Fresh water applied
8,284,656.00 gallons
305.10 acre-inches
12.71 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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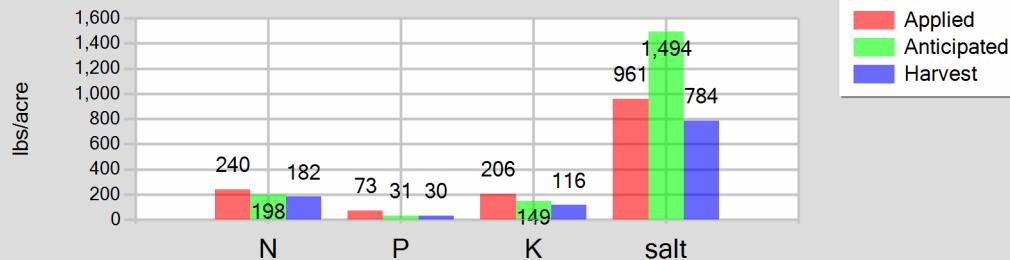
BCL#3 - 11/14/2022: Wheat, silage, soft dough

Field name: BCL#3

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	40.32	0.00	0.00	960.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.92	72.90	206.10	960.98
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	182.10	29.59	116.09	784.15
Nutrient balance	57.82	43.31	90.01	176.82
Applied to removed ratio	1.32	2.46	1.78	1.23

Fresh water applied

13,008,991.00 gallons
479.08 acre-inches
12.61 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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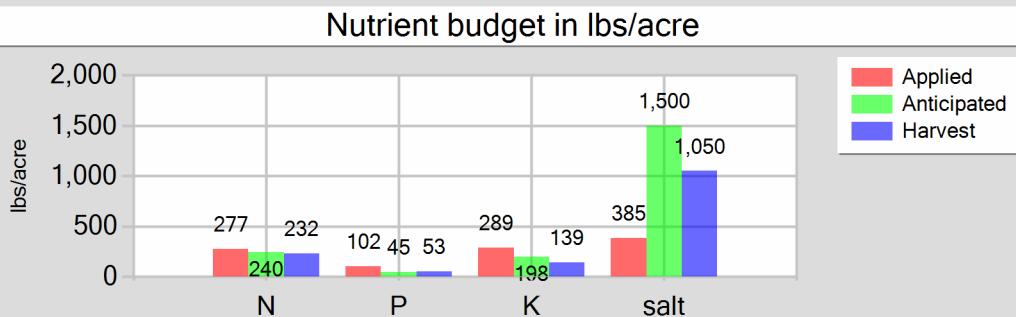
Reporting period 01/01/2023 to 12/31/2023.

BCL#3 - 06/11/2023: Corn, silage

Field name: BCL#3

Crop: Corn, silage

Plant date: 06/11/2023



	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	0.00	0.00	0.00	0.00
Dry manure	269.64	102.06	288.54	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	385.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	276.64	102.06	288.54	385.02
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	231.58	52.93	138.95	1,049.83
Nutrient balance	45.06	49.13	149.59	-664.80
Applied to removed ratio	1.19	1.93	2.08	0.37

Fresh water applied

43,831,412.00 gallons
1,614.16 acre-inches
42.48 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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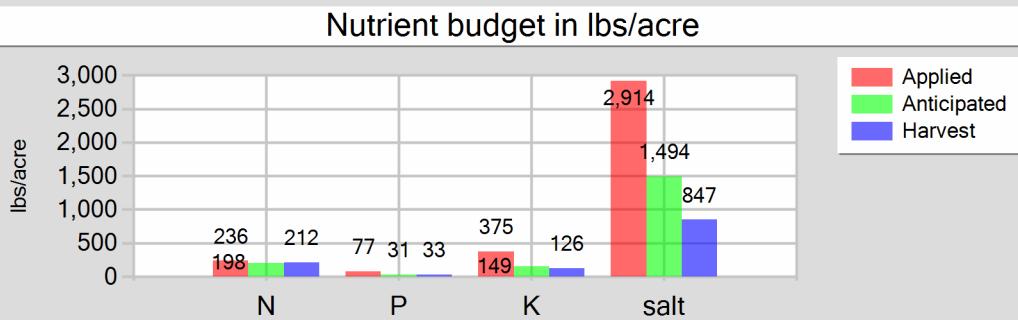
Reporting period 01/01/2023 to 12/31/2023.

BCL#4 - 11/12/2022: Wheat, silage, soft dough

Field name: BCL#4

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	194.73	76.88	375.41	2,079.96
Fresh water	34.04	0.00	0.00	834.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	235.76	76.88	375.41	2,914.24
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	211.74	33.09	125.72	846.98
Nutrient balance	24.02	43.79	249.68	2,067.27
Applied to removed ratio	1.11	2.32	2.99	3.44

Fresh water applied

10,741,436.00 gallons
395.57 acre-inches
13.19 inches/acre

Process wastewater applied

1,402,888.00 gallons
51.66 acre-inches
1.72 inches/acre

Total harvests for the crop

1 harvests

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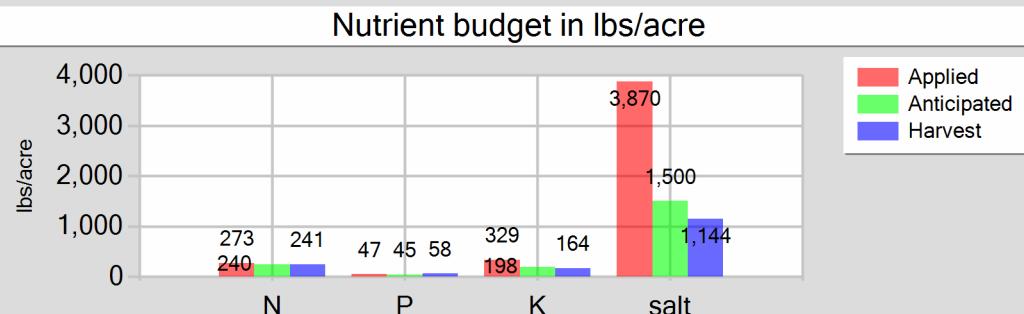
Reporting period 01/01/2023 to 12/31/2023.

BCL#4 - 06/10/2023: Corn, silage

Field name: BCL#4

Crop: Corn, silage

Plant date: 06/10/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	265.95	47.41	329.50	3,539.35
Fresh water	0.00	0.00	0.00	330.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.95	47.41	329.50	3,870.07
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	240.52	58.13	164.36	1,144.47
Nutrient balance	32.43	-10.72	165.14	2,725.60
Applied to removed ratio	1.13	0.82	2.00	3.38

Fresh water applied

29,723,783.00 gallons
1,094.63 acre-inches
36.49 inches/acre

Process wastewater applied

3,207,818.00 gallons
118.13 acre-inches
3.94 inches/acre

Total harvests for the crop

1 harvests

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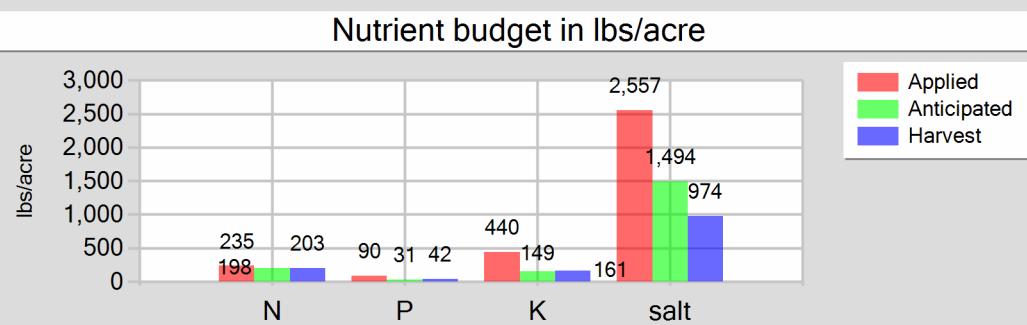
Reporting period 01/01/2023 to 12/31/2023.

BCL#5 - 11/12/2022: Wheat, silage, soft dough

Field name: BCL#5

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	28,014,329.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,031.67 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.23 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	228.17	90.08	439.88	2,437.16	Process wastewater applied
Fresh water	0.00	0.00	0.00	119.89	4,273,900.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	157.39 acre-inches
Total nutrients applied	235.17	90.08	439.88	2,557.04	2.02 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	203.25	42.01	161.25	974.25	Total harvests for the crop
Nutrient balance	31.92	48.07	278.63	1,582.80	1 harvests
Applied to removed ratio	1.16	2.14	2.73	2.62	

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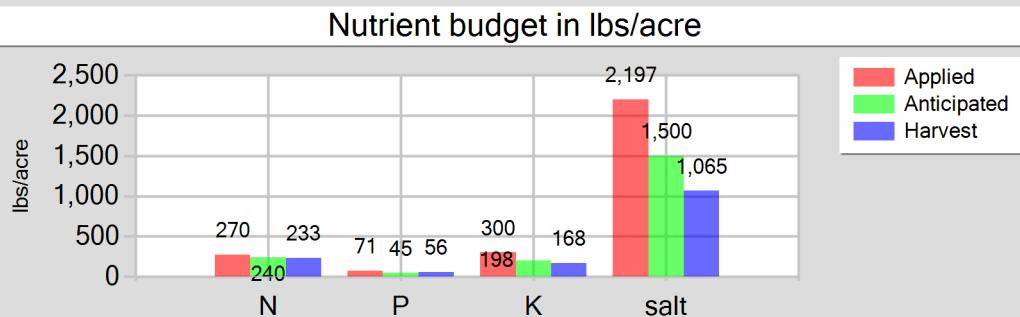
Reporting period 01/01/2023 to 12/31/2023.

BCL#5 - 06/11/2023: Corn, silage

Field name: BCL#5

Crop: Corn, silage

Plant date: 06/11/2023



	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	0.00	0.00	0.00	0.00
Dry manure	123.46	46.73	132.12	0.00
Process wastewater	139.92	24.60	167.84	1,840.83
Fresh water	0.00	0.00	0.00	356.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.38	71.33	299.95	2,197.28
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	233.45	56.03	168.08	1,064.51
Nutrient balance	36.94	15.30	131.87	1,132.77
Applied to removed ratio	1.16	1.27	1.78	2.06

Fresh water applied

83,293,345.00 gallons
3,067.41 acre-inches
39.33 inches/acre

Process wastewater applied

4,246,552.00 gallons
156.39 acre-inches
2.00 inches/acre

Total harvests for the crop

1 harvests

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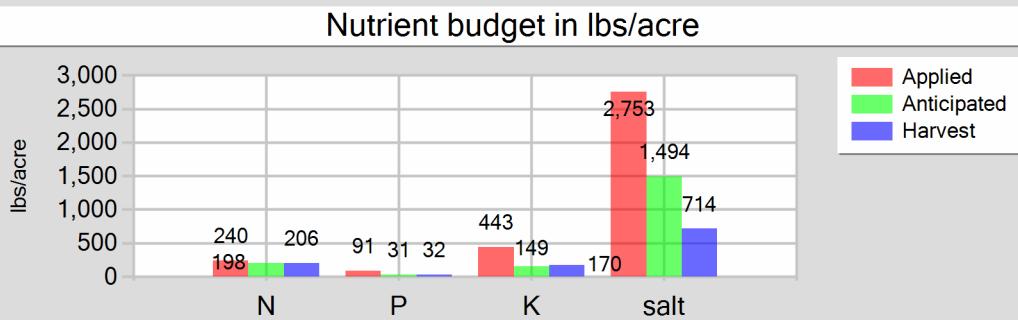
Reporting period 01/01/2023 to 12/31/2023.

DB#1 - 11/13/2022: Wheat, silage, soft dough

Field name: DB#1

Crop: Wheat, silage, soft dough

Plant date: 11/13/2022



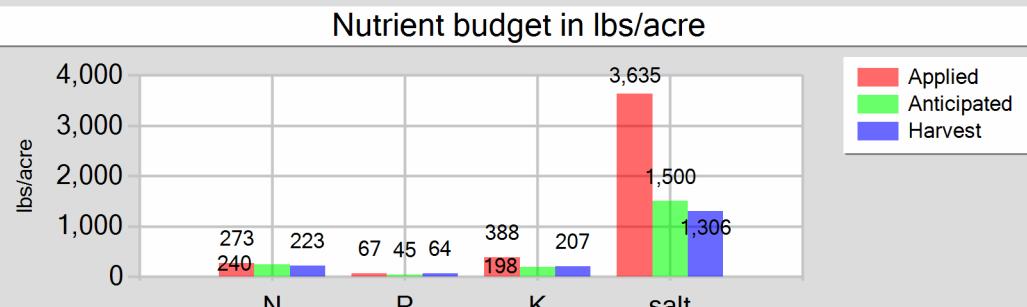
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	14,451,782.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	532.21 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.98 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	229.67	90.67	442.78	2,453.22	Process wastewater applied
Fresh water	2.87	0.00	0.00	299.36	2,261,346.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	83.28 acre-inches
Total nutrients applied	239.54	90.67	442.78	2,752.58	2.03 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	Total harvests for the crop
Actual crop nutrient removal	205.55	31.90	170.11	713.53	1 harvests
Nutrient balance	33.99	58.78	272.66	2,039.05	
Applied to removed ratio	1.17	2.84	2.60	3.86	

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DB#1 - 06/09/2023: Corn, silage

Field name: DB#1 Crop: Corn, silage Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	266.26	67.42	387.82	3,269.41
Fresh water	0.00	0.00	0.00	365.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	273.26	67.42	387.82	3,634.92
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	223.12	64.04	206.59	1,305.68
Nutrient balance	50.13	3.37	181.22	2,329.25
Applied to removed ratio	1.22	1.05	1.88	2.78

Fresh water applied
44,894,883.00 gallons
1,653.33 acre-inches
40.33 inches/acre

Process wastewater applied
3,670,781.00 gallons
135.18 acre-inches
3.30 inches/acre

Total harvests for the crop
1 harvests

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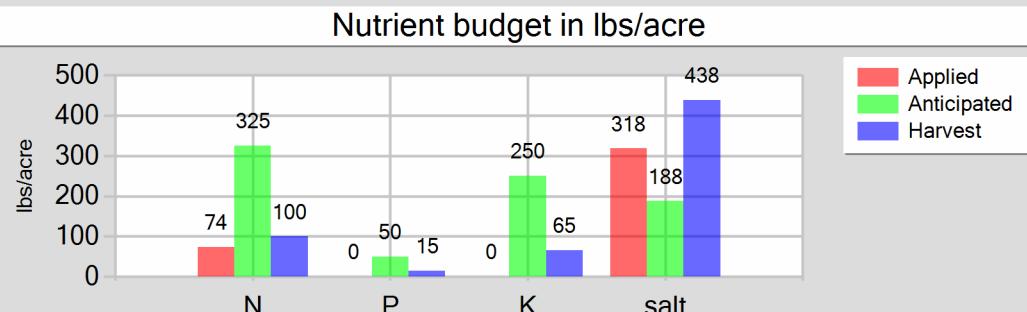
Reporting period 01/01/2023 to 12/31/2023.

DB#2 - 03/05/2018: Almond, in shell

Field name: DB#2

Crop: Almond, in shell

Plant date: 03/05/2018



	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	105,765,910.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,895.00 acre-inches
Commercial fertilizer / Other	60.00	0.00	0.00	0.00	35.09 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	318.06	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	74.00	0.00	0.00	318.06	Process wastewater applied
Anticipated crop nutrient removal	325.00	50.00	250.00	187.50	0.00 gallons
Actual crop nutrient removal	99.97	14.60	65.03	438.37	0.00 acre-inches
Nutrient balance	-25.97	-14.60	-65.03	-120.31	0.00 inches/acre
Applied to removed ratio	0.74	0.00	0.00	0.73	Total harvests for the crop
					1 harvests

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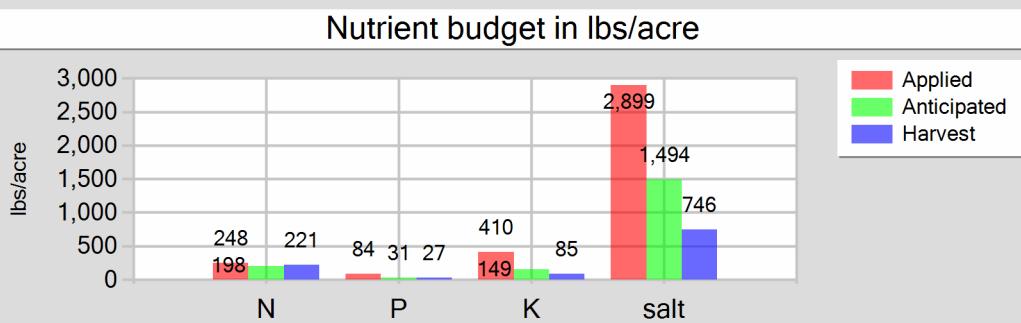
Reporting period 01/01/2023 to 12/31/2023.

DVR#1 - 11/15/2022: Wheat, silage, soft dough

Field name: DVR#1

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	212.69	83.97	410.04	2,271.85
Fresh water	21.06	0.00	0.00	626.70
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	247.75	83.97	410.04	2,898.55
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	221.18	27.49	84.97	746.01
Nutrient balance	26.57	56.48	325.07	2,152.53
Applied to removed ratio	1.12	3.05	4.83	3.89

Fresh water applied

18,684,447.00 gallons
688.08 acre-inches
12.29 inches/acre

Process wastewater applied

2,860,312.00 gallons
105.34 acre-inches
1.88 inches/acre

Total harvests for the crop

1 harvests

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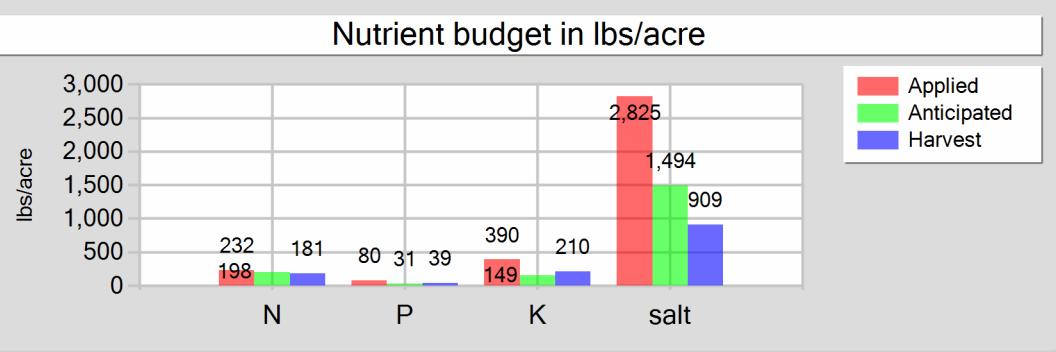
Reporting period 01/01/2023 to 12/31/2023.

DVR#2 - 11/15/2022: Wheat, silage, soft dough

Field name: DVR#2

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	202.05	79.77	389.52	2,158.17
Fresh water	22.60	0.00	0.00	666.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	231.65	79.77	389.52	2,824.61
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	181.45	38.81	209.77	909.35
Nutrient balance	50.20	40.96	179.76	1,915.26
Applied to removed ratio	1.28	2.06	1.86	3.11

Fresh water applied

25,483,106.00 gallons
938.46 acre-inches
12.51 inches/acre

Process wastewater applied

3,639,101.00 gallons
134.02 acre-inches
1.79 inches/acre

Total harvests for the crop

1 harvests

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

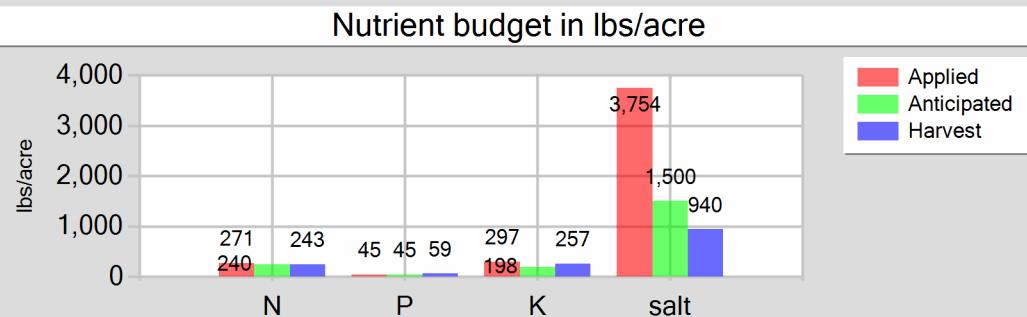
Reporting period 01/01/2023 to 12/31/2023.

DVR#2 - 06/12/2023: Corn, silage

Field name: DVR#2

Crop: Corn, silage

Plant date: 06/12/2023



	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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	263.56	45.16	297.43	3,395.37
Fresh water	0.00	0.00	0.00	358.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.56	45.16	297.43	3,753.59
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	242.54	58.61	256.69	939.85
Nutrient balance	28.02	-13.46	40.74	2,813.74
Applied to removed ratio	1.12	0.77	1.16	3.99

Fresh water applied

80,486,538.00 gallons
2,964.05 acre-inches
39.52 inches/acre

Process wastewater applied

7,229,990.00 gallons
266.26 acre-inches
3.55 inches/acre

Total harvests for the crop

1 harvests

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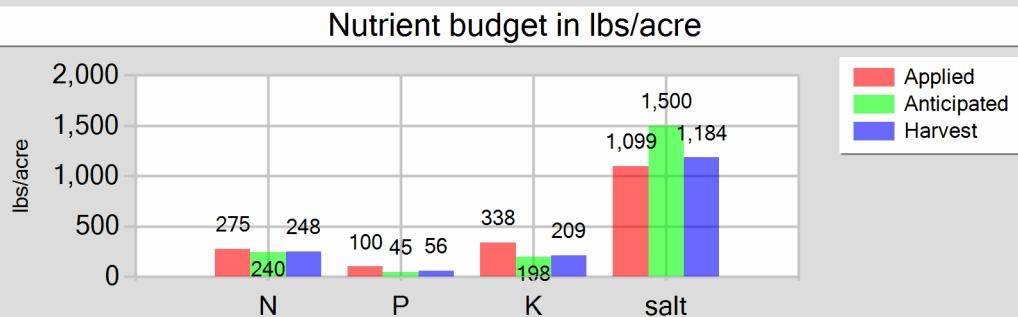
Reporting period 01/01/2023 to 12/31/2023.

DVR#3 - 04/15/2023: Corn, silage

Field name: DVR#3

Crop: Corn, silage

Plant date: 04/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	68.25	26.95	131.58	729.02
Fresh water	0.00	0.00	0.00	369.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	274.85	99.85	337.68	1,098.77
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	247.98	56.07	209.17	1,183.85
Nutrient balance	26.87	43.78	128.51	-85.09
Applied to removed ratio	1.11	1.78	1.61	0.93

Fresh water applied

84,183,440.00 gallons
3,100.19 acre-inches
40.79 inches/acre

Process wastewater applied

1,245,665.00 gallons
45.87 acre-inches
0.60 inches/acre

Total harvests for the crop

1 harvests

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

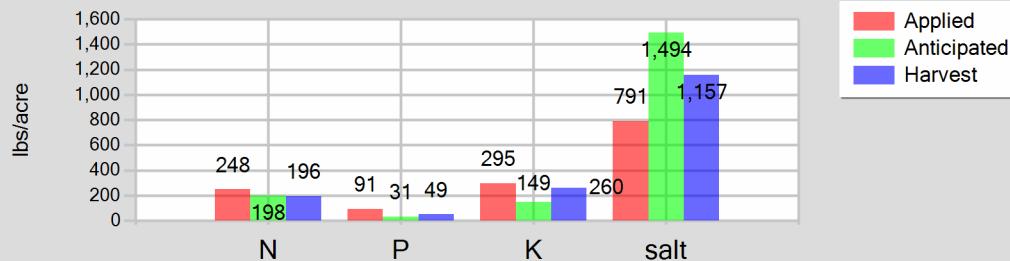
DVR#4 - 11/16/2022: Wheat, silage, soft dough

Field name: DVR#4

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	46.31	18.28	89.28	494.65
Fresh water	1.94	0.00	0.00	296.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	247.84	91.18	295.38	791.03
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	195.55	49.18	259.96	1,156.93
Nutrient balance	52.29	42.00	35.42	-365.90
Applied to removed ratio	1.27	1.85	1.14	0.68

Fresh water applied

26,634,364.00 gallons
980.85 acre-inches
12.42 inches/acre

Process wastewater applied

878,559.00 gallons
32.35 acre-inches
0.41 inches/acre

Total harvests for the crop

1 harvests

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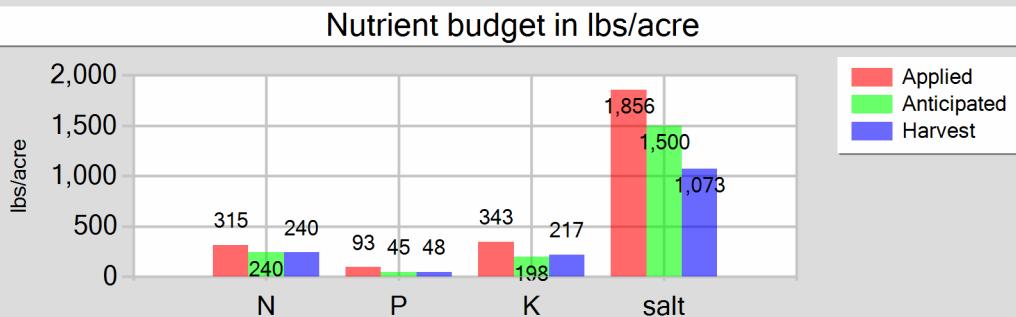
Reporting period 01/01/2023 to 12/31/2023.

DVR#4 - 06/12/2023: Corn, silage

Field name: DVR#4

Crop: Corn, silage

Plant date: 06/12/2023



	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	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	115.83	20.22	136.70	1,515.30
Fresh water	0.00	0.00	0.00	340.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.43	93.12	342.80	1,855.93
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	240.37	47.72	217.40	1,072.85
Nutrient balance	75.06	45.40	125.40	783.09
Applied to removed ratio	1.31	1.95	1.58	1.73

Fresh water applied

80,616,883.00 *gallons*
2,968.85 *acre-inches*
37.58 *inches/acre*

Process wastewater applied

3,502,333.00 *gallons*
128.98 *acre-inches*
1.63 *inches/acre*

Total harvests for the crop

1 *harvests*

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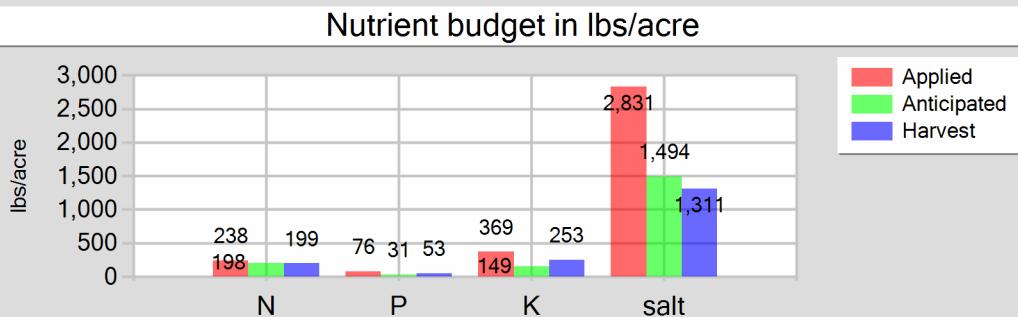
Reporting period 01/01/2023 to 12/31/2023.

DVR#5 - 11/14/2022: Wheat, silage, soft dough

Field name: DVR#5

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	191.28	75.52	368.76	2,043.14
Fresh water	39.53	0.00	0.00	787.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	237.81	75.52	368.76	2,831.04
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	198.53	52.94	252.67	1,311.49
Nutrient balance	39.28	22.57	116.09	1,519.55
Applied to removed ratio	1.20	1.43	1.46	2.16

Fresh water applied

10,664,341.00 gallons
392.73 acre-inches
12.67 inches/acre

Process wastewater applied

1,423,990.00 gallons
52.44 acre-inches
1.69 inches/acre

Total harvests for the crop

1 harvests

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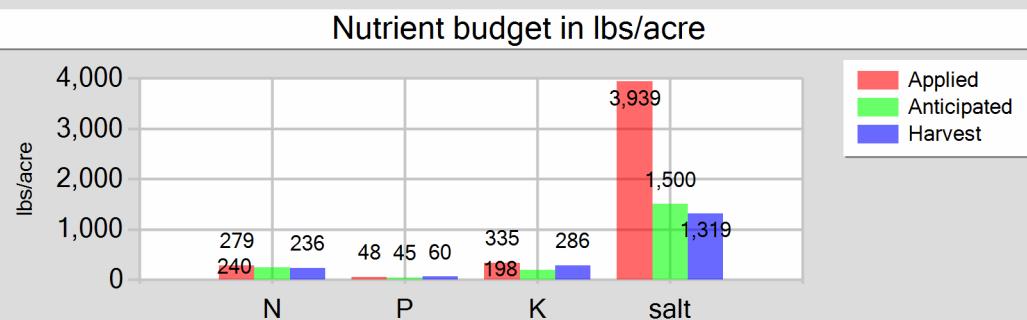
Reporting period 01/01/2023 to 12/31/2023.

DVR#5 - 06/08/2023: Corn, silage

Field name: DVR#5

Crop: Corn, silage

Plant date: 06/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	271.55	48.34	335.29	3,609.48
Fresh water	0.00	0.00	0.00	329.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	278.55	48.34	335.29	3,939.40
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	236.30	59.57	285.95	1,318.53
Nutrient balance	42.25	-11.24	49.35	2,620.88
Applied to removed ratio	1.18	0.81	1.17	2.99

Fresh water applied

30,640,354.00 gallons
1,128.38 acre-inches
36.40 inches/acre

Process wastewater applied

3,372,894.00 gallons
124.21 acre-inches
4.01 inches/acre

Total harvests for the crop

1 harvests

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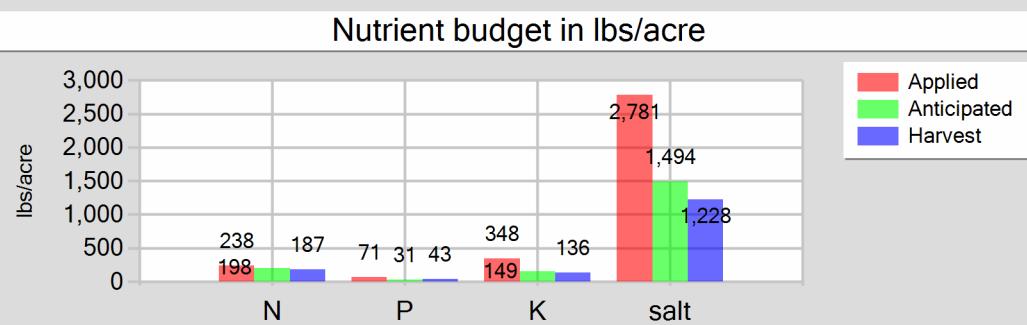
Reporting period 01/01/2023 to 12/31/2023.

DVR#6 - 11/17/2022: Wheat, silage, soft dough

Field name: DVR#6

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	180.41	71.22	347.80	1,927.02
Fresh water	43.41	0.00	0.00	854.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	237.82	71.22	347.80	2,781.37
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	186.67	43.35	136.08	1,228.38
Nutrient balance	51.15	27.87	211.72	1,552.99
Applied to removed ratio	1.27	1.64	2.56	2.26

Fresh water applied

27,285,452.00 gallons
1,004.83 acre-inches
12.72 inches/acre

Process wastewater applied

3,422,634.00 gallons
126.04 acre-inches
1.60 inches/acre

Total harvests for the crop

1 harvests

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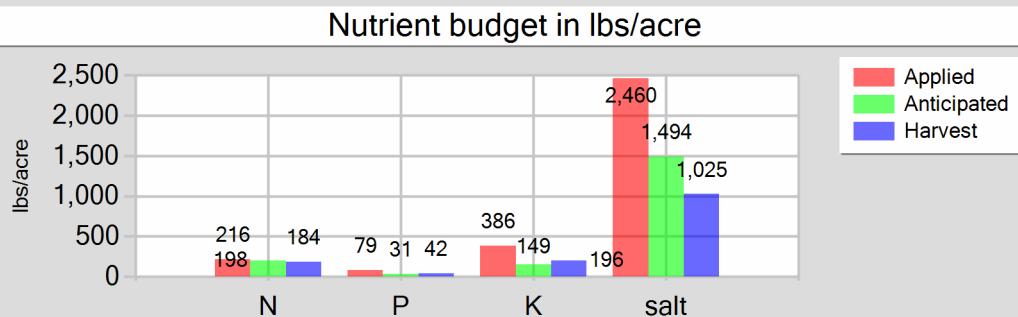
Reporting period 01/01/2023 to 12/31/2023.

DVR#7 - 11/18/2022: Wheat, silage, soft dough

Field name: DVR#7

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,845,210.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	804.48 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.19 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	200.17	79.03	385.90	2,138.12	Process wastewater applied
Fresh water	2.22	0.00	0.00	321.64	3,172,653.00 gallons
Atmospheric deposition	14.00	0.00	0.00	0.00	116.84 acre-inches
Total nutrients applied	216.40	79.03	385.90	2,459.76	1.77 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	183.61	42.45	196.35	1,025.27	Total harvests for the crop
Nutrient balance	32.78	36.57	189.55	1,434.49	1 harvests
Applied to removed ratio	1.18	1.86	1.97	2.40	

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

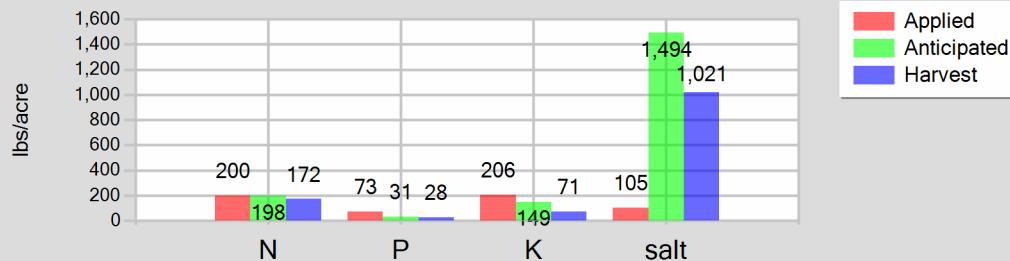
Elder Ranch - 11/15/2022: Wheat, silage, soft dough

Field name: Elder Ranch

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	192.60	72.90	206.10	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	104.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	199.60	72.90	206.10	104.70
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	171.77	27.79	70.73	1,020.50
Nutrient balance	27.83	45.11	135.37	-915.81
Applied to removed ratio	1.16	2.62	2.91	0.10

Fresh water applied

37,637,752.00 gallons
1,386.07 acre-inches
11.55 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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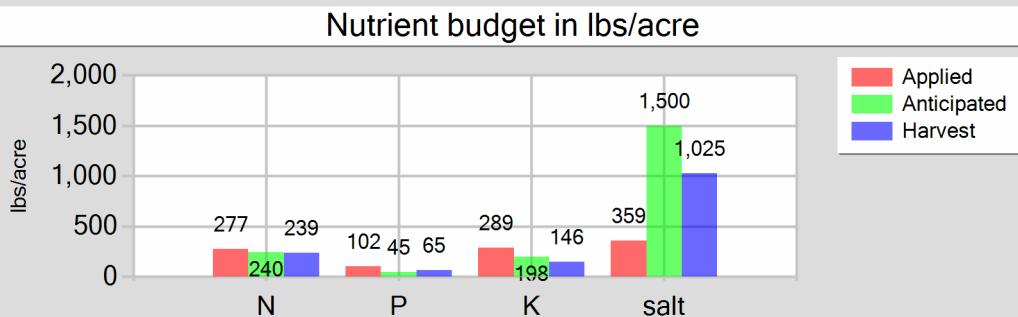
Reporting period 01/01/2023 to 12/31/2023.

Elder Ranch - 06/12/2023: Corn, silage

Field name: Elder Ranch

Crop: Corn, silage

Plant date: 06/12/2023



	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	0.00	0.00	0.00	0.00
Dry manure	269.64	102.06	288.54	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	358.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	276.64	102.06	288.54	358.53
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	238.96	65.17	145.55	1,025.35
Nutrient balance	37.68	36.89	142.99	-666.83
Applied to removed ratio	1.16	1.57	1.98	0.35

Fresh water applied

128,889,324.00 gallons
4,746.56 acre-inches
39.55 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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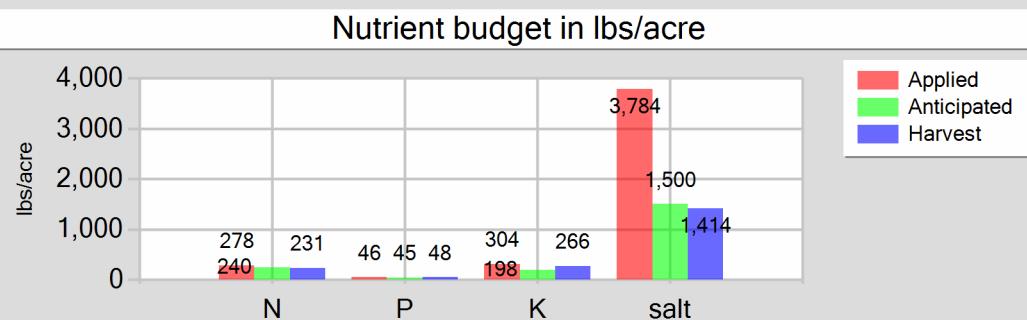
Reporting period 01/01/2023 to 12/31/2023.

Garcia#1 - 06/08/2023: Corn, silage

Field name: Garcia#1

Crop: Corn, silage

Plant date: 06/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	263.99	45.63	304.20	3,425.09
Fresh water	0.00	0.00	0.00	359.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	277.99	45.63	304.20	3,784.32
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	230.64	47.72	266.43	1,413.69
Nutrient balance	47.35	-2.09	37.76	2,370.64
Applied to removed ratio	1.21	0.96	1.14	2.68

Fresh water applied

41,971,983.00 gallons
1,545.69 acre-inches
39.63 inches/acre

Process wastewater applied

3,846,220.00 gallons
141.64 acre-inches
3.63 inches/acre

Total harvests for the crop

1 harvests

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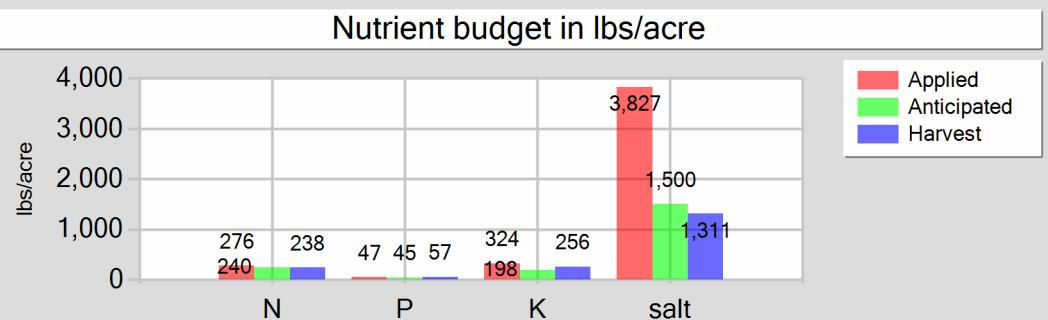
Reporting period 01/01/2023 to 12/31/2023.

Garcia#2 - 06/09/2023: Corn, silage

Field name: Garcia#2

Crop: Corn, silage

Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	262.03	46.67	323.91	3,484.39
Fresh water	0.00	0.00	0.00	342.88
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	276.03	46.67	323.91	3,827.27
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	238.38	56.66	255.96	1,311.08
Nutrient balance	37.66	-10.00	67.95	2,516.19
Applied to removed ratio	1.16	0.82	1.27	2.92

Fresh water applied

10,272,009.00 gallons
378.28 acre-inches
37.83 inches/acre

Process wastewater applied

1,051,112.00 gallons
38.71 acre-inches
3.87 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.

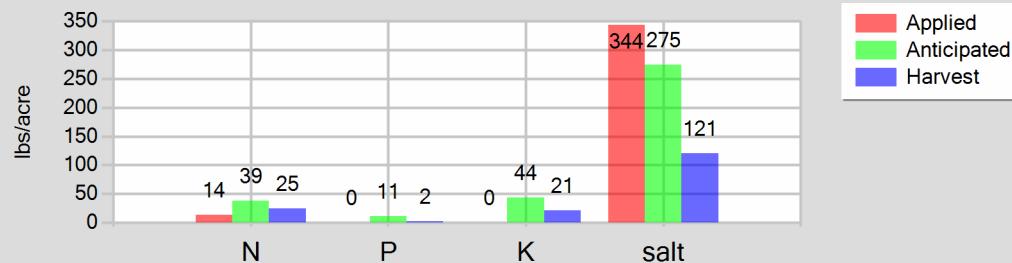
Horse Ranch - 03/01/2020: Cherries

Field name: Horse Ranch

Crop: Cherries

Plant date: 03/01/2020

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	0.00	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	343.96
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	343.96
Anticipated crop nutrient removal	38.50	11.00	44.00	275.00
Actual crop nutrient removal	24.83	2.24	21.31	120.79
Nutrient balance	-10.83	-2.24	-21.31	223.17
Applied to removed ratio	0.56	0.00	0.00	2.85

Fresh water applied

20,608,756.00 gallons
758.95 acre-inches
37.95 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

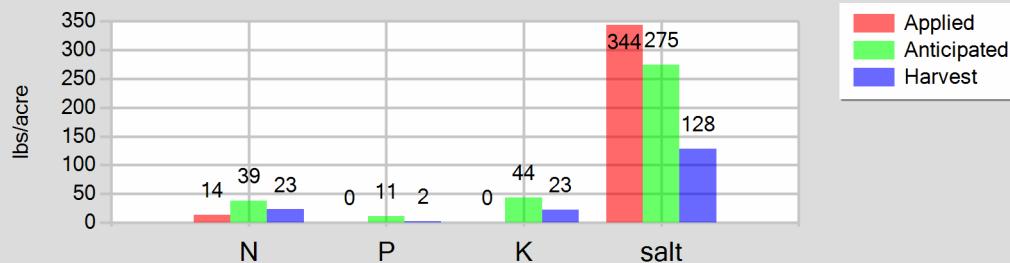
Raisin Ranch - 03/01/2020: Cherries

Field name: Raisin Ranch

Crop: Cherries

Plant date: 03/01/2020

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	0.00	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	343.57
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	343.57
Anticipated crop nutrient removal	38.50	11.00	44.00	275.00
Actual crop nutrient removal	22.95	2.38	22.61	128.18
Nutrient balance	-8.95	-2.38	-22.61	215.39
Applied to removed ratio	0.61	0.00	0.00	2.68

Fresh water applied

18,527,040.00 *gallons*
682.29 *acre-inches*
37.90 *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.

NUTRIENT ANALYSES**A. MANURE ANALYSES****Manure**

Sample and source description: Manure

Sample date: 06/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,400.00	8,100.00	22,900.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 11/02/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 15.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,100.00	7,900.00	23,100.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES**Lagoon**

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	499.00	331.00	0.00	0.00	197.00	962.00								8,030.00	5,330
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

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Lagoon

Sample and source description: Lagoon

Sample date: 06/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	281.00	265.00	0.00	0.00	51.40	369.00								5,750.00	3,820
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 07/14/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	345.00	325.00	0.00	0.00	57.90	370.00								6,580.00	4,370
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 12/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	421.00	317.00	0.00	0.00	89.00	433.00								5,240.00	3,480
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

B2

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B2

Irrigation Well

Sample description: Irrigation Well

Sample date: 08/24/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	40.00	0.00	40.00								1,190.00	880
DL	0.40	0.50	0.50								1.00	20

Baker 1

Irrigation Well

Sample description: Irrigation Well

Sample date: 09/29/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	3.00	0.00	3.00								252.00	230
DL	0.40	0.40	0.50								1.00	20

Baker 2

Irrigation Well

Sample description: Irrigation Well

Sample date: 09/29/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (μ mhos/cm)	TDS (mg/L)
Value	23.70	0.00	23.70								802.00	620
DL	0.40	0.40	0.50								1.00	20

D5

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

D5**Irrigation Well**Sample description: Irrigation WellSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	41.70	0.00	41.70								552.00	750
DL	0.40	0.40	0.50								1.00	20

D7**Irrigation Well**Sample description: Irrigation WellSample date: 09/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.00	0.00	2.00								356.00	230
DL	0.40	0.40	0.50								1.00	20

Peoples Ditch Hanford ID**Canal Water**Sample description: Canal WaterSample date: 07/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								31.00	40
DL	0.50	0.50	0.50								1.00	20

D. SOIL ANALYSES

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

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

BAR#2 - 11/10/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,400.00	3,600.00	14,600.00		8.62
DL	500.00	200.00	200.00		0.05

BCL#3 - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	2,600.00	10,200.00		6.89
DL	500.00	200.00	200.00		0.05

BCL#3 - 06/11/2023: Corn, silage

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BCL#3 - 06/11/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,500.00	2,400.00	6,300.00		4.76
DL	500.00	200.00	200.00		0.05

BCL#4 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

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

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	2,500.00	9,500.00		6.40
DL	500.00	200.00	200.00		0.05

BCL#4 - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,900.00	8,200.00		5.71
DL	500.00	200.00	200.00		0.05

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BCL#5 - 11/12/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

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

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	3,100.00	11,900.00		7.19
DL	500.00	200.00	200.00		0.05

BCL#5 - 06/11/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	3,000.00	9,000.00		5.70
DL	500.00	200.00	200.00		0.05

DB#1 - 11/13/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

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

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,400.00	2,700.00	14,400.00		6.04
DL	500.00	200.00	200.00		0.05

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

DB#1 - 06/09/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,800.00	3,100.00	10,000.00		6.32
DL	500.00	200.00	200.00		0.05

DB#2 - 03/05/2018: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,600.00	3,300.00	14,700.00		9.91
DL	500.00	200.00	200.00		0.05

DVR#1 - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	2,200.00	6,800.00		5.97
DL	500.00	200.00	200.00		0.05

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

DVR#2 - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,300.00	3,700.00	20,000.00		8.67
DL	500.00	200.00	200.00		0.05

DVR#2 - 06/12/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,900.00	12,700.00		4.65
DL	500.00	200.00	200.00		0.05

DVR#3 - 04/15/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,500.00	2,600.00	9,700.00		5.49
DL	500.00	200.00	200.00		0.05

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

DVR#4 - 11/16/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,700.00	4,200.00	22,200.00		9.88
DL	500.00	200.00	200.00		0.05

DVR#4 - 06/12/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	2,700.00	12,300.00		6.07
DL	500.00	200.00	200.00		0.05

DVR#5 - 11/14/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/07/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	4,400.00	21,000.00		10.90
DL	500.00	200.00	200.00		0.05

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DVR#5 - 06/08/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	3,000.00	14,400.00		6.64
DL	500.00	200.00	200.00		0.05

DVR#6 - 11/17/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	3,600.00	11,300.00		10.20
DL	500.00	200.00	200.00		0.05

DVR#7 - 11/18/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,300.00	4,000.00	18,500.00		9.66
DL	500.00	200.00	200.00		0.05

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Elder Ranch - 11/15/2022: Wheat, silage, soft dough

Wheat

Sample and source description: Wheat

Sample date: 05/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	2,200.00	5,600.00		8.08
DL	500.00	200.00	200.00		0.05

Elder Ranch - 06/12/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,000.00	3,000.00	6,700.00		4.72
DL	500.00	200.00	200.00		0.05

Garcia#1 - 06/08/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,600.00	2,400.00	13,400.00		7.11
DL	500.00	200.00	200.00		0.05

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Garcia#2 - 06/09/2023: Corn, silage

Corn

Sample and source description: Corn

Sample date: 09/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,200.00	2,900.00	13,100.00		6.71
DL	500.00	200.00	200.00		0.05

Horse Ranch - 03/01/2020: Cherries

Cherries

Sample and source description: Cherries

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 82.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,500.00	1,400.00	13,300.00		7.54
DL	500.00	200.00	200.00		0.05

Raisin Ranch - 03/01/2020: Cherries

Cherry

Sample and source description: Cherry

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 82.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,500.00	1,400.00	13,300.00		7.54
DL	500.00	200.00	200.00		0.05

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F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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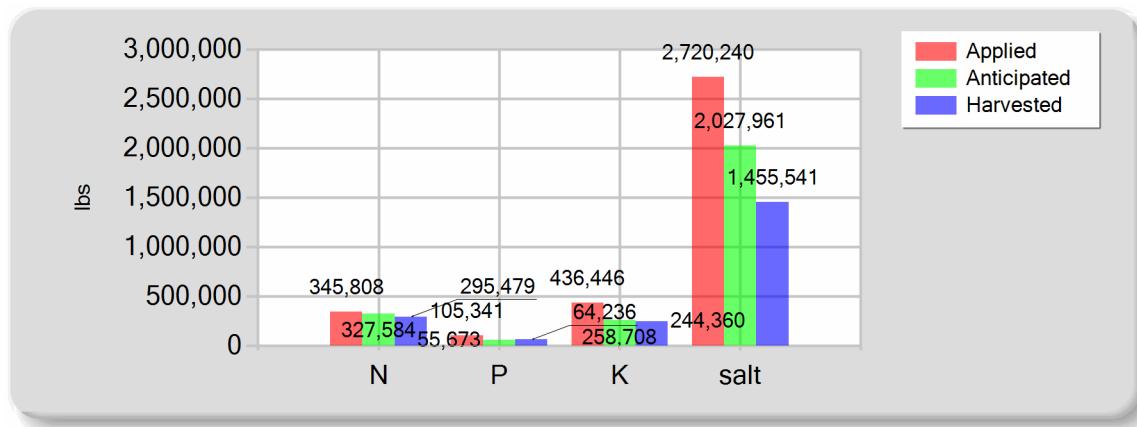
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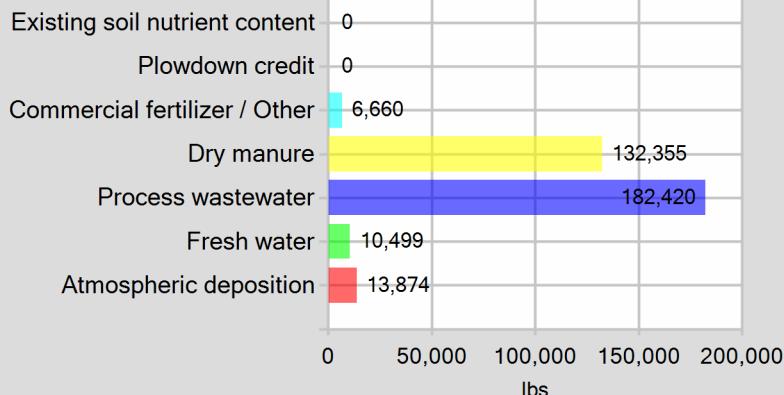
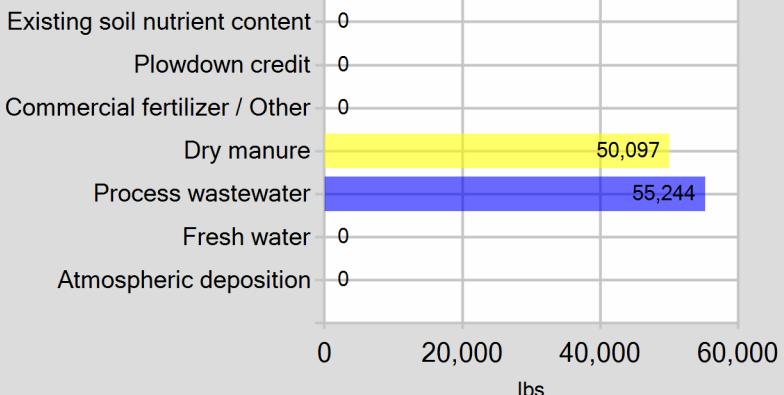
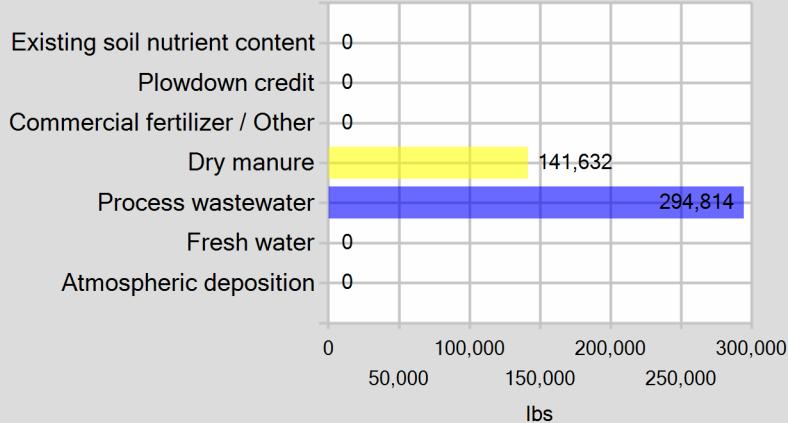
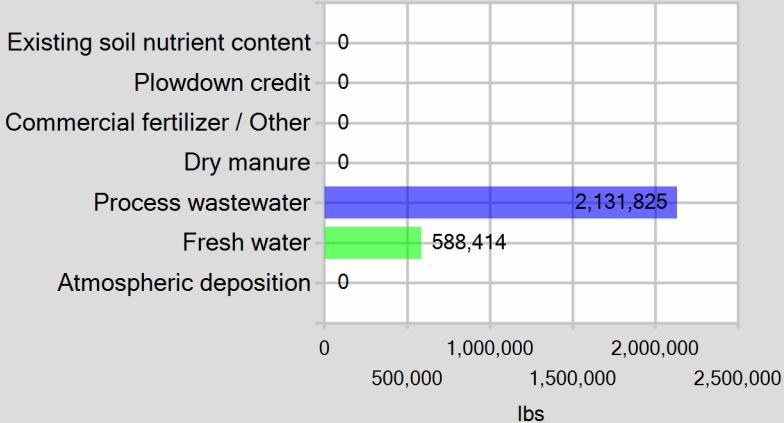
NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	6,660.00	0.00	0.00	0.00
Dry manure	132,354.72	50,096.88	141,631.92	0.00
Process wastewater	182,419.99	55,244.20	294,814.37	2,131,825.17
Fresh water	10,499.01	0.00	0.00	588,414.35
Atmospheric deposition	13,874.00	0.00	0.00	0.00
Total nutrients applied	345,807.72	105,341.08	436,446.29	2,720,239.52
Anticipated crop nutrient removal	327,584.00	55,673.20	258,707.80	2,027,960.50
Actual crop nutrient removal	295,478.80	64,236.38	244,360.09	1,455,540.92
Nutrient balance	50,328.92	41,104.70	192,086.19	1,264,698.61
Applied to removed ratio	1.17	1.64	1.79	1.87

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



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

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EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

~Wells~ B3, B4, D1, D2, D3, D4, D6, G1, RRIW, Barn, D1 Sub, DWD1, G2 Sub, and House were out of service in 2023.

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY

Johnnie de Jong

PRINT OR TYPE NAME

6/19/24

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

August 11, 2023

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

Lab No. : VI 2344656
Customer No. : 4019696
Reference : 3058

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
People's Ditch - Hanford	07/18/2023	07/18/2023	VI 2344656-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-08-14

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
---	---	---	--	---

August 11, 2023

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

Description : People's Ditch - Hanford
 Project : People's Ditch - Hanford

Lab No. : VI 2344656-001
 Customer No. : 4019696
 Reference : 3058
 Sampled On : July 18, 2023 at 12:45
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:11	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	13:53	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	Calc.	08/10/2023	17:11	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	13:53	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:11	lcr
Conductivity	31	1	umhos/cm		1		07/31/2023	14:51	amm	SM 4500-H+B	07/31/2023	17:48	amm
Solids, Total Dissolved (TDS)	40	20	mg/L		1		07/20/2023	16:15	ctl	SM 2540 C	07/21/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

August 11, 2023

Sentry Ag Service

Lab No. : VI 2344656
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344788-008)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	07/20/2023:207946CTL (STK2339578-001) (STK2339578-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 102% 0.4% 1.98%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	08/08/2023:208707STA (VI 2344654-002) (VI 2344644-003)	Blank LCS MS MSDP MS MSDP MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 91.3% 85.5% 85.3% 0.3% 82.8% 82.5% 0.3%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.7% 90.8% 92.7% 1.0%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.7% 90.8% 92.7% 1.0%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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



2344656

Laboratory Analysis Work Order

3058

SITE NAME: People's Ditch - HartfordBilling: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290LABORATORY: FT | FGL 4-19696Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

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

Plant Tissue

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

Process Waste Water (lagoon)

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

Manure

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

Soil

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

Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	People's Ditch - Hartford	Canal	W2	7/18/23 12:45	Jeremy	—	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	MR D. K	SAS		7/18/23 3:17 pm
2 nd	SRO	FGL	7/18/23 1517	
3 rd	SRO	FGL		7/18/23 1730
4 th		GLS	7/18/23 1730	

LABORATORY USE ONLY

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

ROI
5.3°CGLS
MC
1100

7/19/23

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 20° / 5.3°C / / / /

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

- | | | | |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. VOAs checked for Headspace? | Yes | No | N/A |
| 6. Were sample custody seals intact? | Yes | No | N/A |
| 7. If required, was sample split for pH analysis? | Yes | No | |
| 8. Were all analyses within holding times at time of receipt? | Yes | No | |
| 9. Verify sample date, time and sampler name | Yes | No | |

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

Sample Receipt Review completed by (initials): SPC

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3°C / / / / /

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

2. Shipping tracking numbers:

59787246
6815

- | | | | |
|---|-----|----|-----|
| 3. Do the number of bottles received agree with the COC? | Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | Yes | No | |
| 5. Were sample custody seals intact? | Yes | No | N/A |

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

Sample Verification, Labeling and Distribution:

- | | | | |
|---|-----|----|---------|
| 1. Were all requested analyses understood and acceptable? | Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | Yes | No | N/A |
| 5. Have rush or project due dates been checked and accepted? | Yes | No | N/A |
| 6. Were all analyses within holding times at time of receipt? | Yes | No | |

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

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

Discrepancy Documentation:

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

- | | |
|----------------------------|---------------------|
| 1. Person Contacted: _____ | Phone Number: _____ |
| Initiated By: _____ | Date: _____ |
| Problem: _____ | |
| Resolution: _____ | |
| 2. Person Contacted: _____ | Phone Number: _____ |
| Initiated By: _____ | (4019696) |
| Problem: _____ | Sentry Ag Service |
| Resolution: _____ | VI 2344656 |

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

iv 07/19/2023 08:11:30



UI 2344656

September 14, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : VI 2345649
Customer No. : 4018573
Reference : 41254

Laboratory Report

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

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
B2	08/24/2023	08/24/2023	VI 2345649-001	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-09-15

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

September 14, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : B2
Project : 0070 Dover Dairy

Lab No. : VI 2345649-001
Customer No. : 4018573
Reference : 41254
Sampled On : August 24, 2023 at 14:45
Sampled By : Alex
Received On : August 24, 2023 at 16:04
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	09/08/2023	09:16	sta	EPA 351.2	09/11/2023	21:48	lcr
Nitrate Nitrogen	40.0	0.8*	mg/L		2		08/25/2023	12:15	lfs	SM 4500-NO3 F	08/25/2023	16:10	lfs
Nitrogen, Total as Nitrogen	40.0	0.8	mg/L		1	1	09/08/2023	09:16	sta	Calc.	09/11/2023	21:48	lcr
Nitrate + Nitrite as N	40.0	0.8*	mg/L		2		08/25/2023	12:15	lfs	SM 4500-NO3 F	08/25/2023	16:10	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	09/08/2023	09:16	sta	EPA 351.2	09/11/2023	21:48	lcr
Conductivity	1190	1	umhos/cm		1		09/05/2023	09:15	krh	SM 4500-H+B	09/05/2023	12:35	amm
Solids, Total Dissolved (TDS)	880	20	mg/L		1		08/29/2023	13:45	ctl	SM 2540 C	08/30/2023	11:45	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

September 14, 2023

Innovative Ag Services, LLC

Lab No. : VI 2345649

Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2345518-025)	Dup	umhos/cm		0.5%	5	
Solids, Total Dissolved	2540CE	08/29/2023:209697CTL (VI 2345649-001) (VI 2345649-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 96.9% 1.61% 2.05%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	09/08/2023:210053STA (STK2351641-005) (STK2351641-008)	Blank LCS MS MSDP MSRPD MS MSDP MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 93.0% 97.5% 82.0% 7.7% 91.6% 90.9% 0.7%	<0.5 73-124 90-110 90-110 ≤20 90-110 90-110 ≤20	435
Nitrate + Nitrite as N	4500NO3F	08/25/2023:209573LFS (SP 2314578-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 93.9% 85.7% 87.4% 0.6%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	08/25/2023:209573LFS (SP 2314578-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609	ND 93.9% 85.7% 87.4% 0.6%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

Nº 41254

ID: # 0070

2345649

SITE NAME: Dover Dairy
Billing: IAS

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
- W2 EC, NO₃N, TDS, TN (Irr) *Qd, a.1 i & DT TH 40*
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- W8 Other: _____

Plant Tissue

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

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 BZ	Irr	W2	8/24 2:45	Alex	—		
2							
3							
4							
5							
6							
7							
8							

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<i>Mark R</i>	IAS		8/24/23 3:25
2 nd	<i>Enr</i>	FGL	8/24/23 4:57	
3 rd	<i>FGL A</i>	FGL		8/24/23 1:04
4 th	<i>DT</i>		8/24/23 1604	<i>DT 8/25/23</i>

LABORATORY USE ONLY

Logged In By: *DT*

Total Samples: *2*

Laboratory #: *1149*

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 20.1 / 19.1 °C / / /
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

ID# TH407

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. VOAs checked for Headspace? Yes No N/A
6. Were sample custody seals intact? Yes No N/A
7. If required, was sample split for pH analysis? Yes No N/A
8. Were all analyses within holding times at time of receipt? Yes No N/A
9. Verify sample date, time and sampler name Yes No N/A

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): MM

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 21, 21, 21 / / /
Acceptable is above freezing to 6° C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers:

50009023, 50009023, 50009377

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No N/A
5. Were sample custody seals intact? Yes No N/A

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

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No N/A
2. Did bottle labels correspond with the client's ID's? Yes No N/A FGL
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A
[Exception: Oil & Grease, VOA and CrVI verified in lab]
4. VOAs checked for Headspace? Yes No N/A
5. Have rush or project due dates been checked and accepted? Yes No N/A
6. Were all analyses within holding times at time of receipt? Yes No N/A
Attach labels to the containers and include a copy of the COC for lab delivery.

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

Discrepancy Documentation:

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

Phone Number: _____

1. Person Contacted: _____ Date: _____

Initiated By: _____

Problem: _____

Resolution: _____

2. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____

(Please use the back of this sheet for addition contacts)

(4018573)
Innovative Ag Services, LLC

VI 2345649

da0 08/25/2023 09:12:25



VI 2345649

October 3, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : VI 2346188
Customer No. : 4018573
Reference : 41336

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
D5	09/12/2023	09/12/2023	VI 2346188-001	AGW
D7	09/12/2023	09/12/2023	VI 2346188-002	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-10-03

Section: Case Narrative

Page 1 of 4

Page 1 of 4

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	Office & Laboratory 3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810
---	---	---	--	---

October 3, 2023

Innovative Ag Services, LLC

1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : D5
Project : 0070 Dover Dairy

Lab No. : VI 2346188-001
Customer No. : 4018573
Reference : 41336
Sampled On : September 12, 2023 at 13:30
Sampled By : Zeke
Received On : September 12, 2023 at 16:19
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	09/26/2023	09:55	sta	EPA 351.2	09/29/2023	17:19	lcr
Nitrate Nitrogen	41.7	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	13:34	lfs
Nitrogen, Total as Nitrogen	41.7	0.5	mg/L		1	1	09/26/2023	09:55	sta	Calc.	09/29/2023	17:19	lcr
Nitrate + Nitrite as N	41.7	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	13:34	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	09/26/2023	09:55	sta	EPA 351.2	09/29/2023	17:19	lcr
Conductivity	552	1	umhos/cm		1	I	09/21/2023	11:31	krh	SM 4500-H+B	09/21/2023	14:07	krh
Solids, Total Dissolved (TDS)	750	20	mg/L		1		09/15/2023	10:00	ctl	SM 2540 C	09/18/2023	11:20	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

Corporate Offices & Laboratory

853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
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CA ELAP Certification No. 1573

Office & Laboratory

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

Office & Laboratory

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

Office & Laboratory

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

Office & Laboratory

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

October 3, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : D7
Project : 0070 Dover Dairy

Lab No. : VI 2346188-002
Customer No. : 4018573
Reference : 41336
Sampled On : September 12, 2023 at 13:40
Sampled By : Zeke
Received On : September 12, 2023 at 16:19
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	09/26/2023	09:55	sta	EPA 351.2	09/29/2023	17:24	lcr
Nitrate Nitrogen	2.0	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	13:36	lfs
Nitrogen, Total as Nitrogen	2.0	0.5	mg/L		1	1	09/26/2023	09:55	sta	Calc.	09/29/2023	17:24	lcr
Nitrate + Nitrite as N	2.0	0.4	mg/L		1		09/13/2023	12:15	lfs	SM 4500-NO3 F	09/13/2023	13:36	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	09/26/2023	09:55	sta	EPA 351.2	09/29/2023	17:24	lcr
Conductivity	356	1	umhos/cm		1	I	09/21/2023	11:31	krh	SM 4500-H+B	09/21/2023	14:16	krh
Solids, Total Dissolved (TDS)	230	20	mg/L		1		09/15/2023	10:00	ctl	SM 2540 C	09/18/2023	11:20	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

I The RPD for the laboratory duplicate exceeded laboratory criteria.

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

October 3, 2023
Innovative Ag Services, LLC

Lab No. : VI 2346188
Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2346187-004)	Dup	umhos/cm		66.0%	5	440
Solids, Total Dissolved	2540CE	09/15/2023:210364CTL (SP 2315435-001) (SP 2315435-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 102% 2.16% 3.68%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	09/26/2023:210792STA (STK2352326-001) (STK2352326-002)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 92.1% 91.7% 94.2% 2.5% 89.4% 90.7% 1.4%	<0.5 73-124 90-110 90-110 ≤20 90-110 90-110 ≤20	435
Nitrate + Nitrite as N	4500NO3F	09/13/2023:210275LFS (SP 2315466-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.3% 94.1% 96.5% 2.1%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	09/13/2023:210275LFS (SP 2315466-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.3% 94.1% 96.5% 2.1%	<0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
- 440 : Sample nonhomogeneity may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

Nº 41336

ID: # 0070

2346188

SITE NAME: DOVER DAIRYBilling: IAS

ANALYSIS TO BE COMPLETED:

Irrigation/Ground Water (ELAP Standards)

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

W8 Other: _____

JUL 31 2017
FGL

Plant Tissue

P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1 D5	IRR	W2	9-12 / 1:30	Zek			
2 D7	IRR	W2	9-12 / 1:40	Zek			
3							
4							
5							
6							
7							
8							

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>AJB</u>	IAS		9-12-23 / 3:20
2 nd	<u>AJB</u>	FGL	9/12/23 1600	
3 rd	<u>AJB</u>	FGL		9/12/23 1619
4 th	<u>ADT</u>		9/12/23 1619	

LABORATORY USE ONLY

Logged In By: GLTotal Samples: 1Laboratory #: 611913103

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC

CH VI

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

2. Were samples received in a chilled condition? Temps: 101 B.4 C / / /

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

- | | | | |
|---|--------------------------------------|----|-----|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | No | |
| 5. VOAs checked for Headspace? | <input checked="" type="radio"/> Yes | No | N/A |
| 6. Were sample custody seals intact? | <input checked="" type="radio"/> Yes | No | N/A |
| 7. If required, was sample split for pH analysis? | <input checked="" type="radio"/> Yes | No | N/A |
| 8. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="radio"/> Yes | No | |

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

Sample Receipt Review completed by (initials) DA

DA
10/14/14

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 101 415 / / /

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

2. Shipping tracking numbers:

5600109302, 5600109304, 5600109384

- | | | | |
|---|--------------------------------------|----|-----|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | No | |
| 5. Were sample custody seals intact? | <input checked="" type="radio"/> Yes | No | N/A |

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

Sample Verification, Labeling and Distribution:

- | | | | |
|---|--------------------------------------|----|---------|
| 1. Were all requested analyses understood and acceptable? | <input checked="" type="radio"/> Yes | No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="radio"/> Yes | No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="radio"/> Yes | No | N/A FGL |
| 4. VOAs checked for Headspace? | <input checked="" type="radio"/> Yes | No | N/A |
| 5. Have rush or project due dates been checked and accepted? | <input checked="" type="radio"/> Yes | No | N/A |
| 6. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | No | |

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

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

Discrepancy Documentation:

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

1. Person Contacted: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____

2. Person Contacted: _____

Initiated By: _____

Problem: _____

Resolution: _____

(4018573)
Innovative Ag Services, LLC

VI 2346188

iv 09/13/2023 09:47:53
UT 2346188

(Please use the back of this sheet for add contacts)

: here

October 16, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Lab No. : VI 2346585
Customer No. : 4018573
Reference : 41438

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

- | | | |
|-----------------|-----------|---|
| Case Narrative | (1 page) | : An overview of the work performed at FGL. |
| Sample Results | (2 pages) | : Results for each sample submitted. |
| Quality Control | (1 page) | : Supporting Quality Control (QC) results. |

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Baker 1	09/29/2023	09/29/2023	VI 2346585-001	AGW
Baker 2	09/29/2023	09/29/2023	VI 2346585-002	AGW

Sampling and Receipt Information:

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

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

Test Summary

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.**  Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-10-16

Section: Case Narrative

Page 1 of 4

Page 1 of 4

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory
853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 CA ELAP Certification No. 1573	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empresia Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

October 16, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Baker 1
Project : 0070 Dover Dairy

Lab No. : VI 2346585-001
Customer No. : 4018573
Reference : 41438
Sampled On : September 29, 2023 at 09:15
Sampled By : Zeke
Received On : September 29, 2023 at 15:57
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	15:47	lcr
Nitrate Nitrogen	3.0	0.4	mg/L		1		10/03/2023	11:00	lfs	SM 4500-NO3 F	10/03/2023	13:04	lfs
Nitrogen, Total as Nitrogen	3.0	0.5	mg/L		1	1	10/11/2023	07:25	sta	Calc.	10/13/2023	15:47	lcr
Nitrate + Nitrite as N	3.0	0.4	mg/L		1		10/03/2023	11:00	lfs	SM 4500-NO3 F	10/03/2023	13:04	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	15:47	lcr
Conductivity	252	1	umhos/cm		1		10/05/2023	04:20	krh	SM 4500-H+B	10/05/2023	18:54	krh
Solids, Total Dissolved (TDS)	230	20	mg/L		1		10/03/2023	09:54	ctl	SM 2540 C	10/04/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

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

October 16, 2023

Innovative Ag Services, LLC
1201 Delta View Road
Suite 5
Hanford, CA 93230

Description : Baker 2
Project : 0070 Dover Dairy

Lab No. : VI 2346585-002
Customer No. : 4018573
Reference : 41438
Sampled On : September 29, 2023 at 09:30
Sampled By : Zeke
Received On : September 29, 2023 at 15:57
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U1	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	16:48	lcr
Nitrate Nitrogen	23.7	0.4	mg/L		1		10/03/2023	13:00	lfs	SM 4500-NO3 F	10/03/2023	15:09	lfs
Nitrogen, Total as Nitrogen	23.7	0.5	mg/L		1	1	10/11/2023	07:25	sta	Calc.	10/13/2023	16:48	lcr
Nitrate + Nitrite as N	23.7	0.4	mg/L		1		10/03/2023	13:00	lfs	SM 4500-NO3 F	10/03/2023	15:09	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U1	10/11/2023	07:25	sta	EPA 351.2	10/13/2023	16:48	lcr
Conductivity	802	1	umhos/cm		1		10/05/2023	04:20	krh	SM 4500-H+B	10/05/2023	18:12	krh
Solids, Total Dissolved (TDS)	620	20	mg/L		1		10/03/2023	09:54	ctl	SM 2540 C	10/04/2023	11:00	ctl

DQF Flags Definition:

U Constituent results were non-detect.

1 The MS/MSD did not meet QC criteria.

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

October 16, 2023

Innovative Ag Services, LLC

Lab No. : VI 2346585

Customer No. : 4018573

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2346585-002)	Dup	umhos/cm		0.1%	5	
Solids, Total Dissolved	2540CE	10/03/2023:211103CTL (SP 2316497-003) (SP 2316497-003)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	991.5	ND 101% 1.92% 0.09%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	10/11/2023:211433STA (SP 2316536-001) (VI 2346585-001)	Blank LCS MS MSD MSRPD MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 93.1% 96.2% 94.4% 1.8% 81.5% 85.4% 4.5%	<0.5 73-124 90-110 90-110 ≤20 90-110 90-110 ≤20	
Nitrate + Nitrite as N	4500NO3F	10/03/2023:211118LFS (CH 2378429-001) (STK2353580-001)	Blank LCS MS MSD MSRPD Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609 11.22 5.609 5.609 5.609 5.609	ND 97.9% 92.4% 93.4% 0.5% ND 96.8% 99.1% 101% 1.8%	<0.4 80-120 66-125 66-125 ≤30.4 <0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	10/03/2023:211118LFS (CH 2378429-001) (STK2353580-001)	Blank LCS MS MSD MSRPD Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609 11.22 5.609 5.609 5.609 5.609	ND 97.9% 92.4% 93.4% 0.5% ND 96.8% 99.1% 101% 1.8%	<0.4 80-120 66-125 66-125 ≤30.4 <0.4 80-120 66-125 66-125 ≤30.4	

Definition

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

Explanation

- 435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



Laboratory Analysis Work Order

Nº 41438

ID: # 0070

2346585

SITE NAME: DOVER DAIRYBilling: IAS
ANALYSIS TO BE COMPLETED:
Irrigation/Ground Water (ELAP Standards)
W1 EC, NO₃N (Dom)W2 EC, NO₃N, TDS, TN (Irr)W3 NH₄-N (Ammonium)W4 EC, NO₃N, Ca, Mg, Na, K, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)W6 NO₃N, NO₂ (Dom ILRP, Annually)W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)

W8 Other: _____

Plant Tissue
P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN, %M

P5 % Moisture

P6 NIR

P7 Other: _____

LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

Process Waste Water (lagoon)
L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)L3 L1 + Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)

L4 Other: _____

Manure

M1 TN, TP, TK, %M (2/year)

M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)

M3 Other: _____

Soil
S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄SS2 S1 + CEC, CaCO₃, OM, C:N, TNS3 NO₃N, NH₄N

S4 Other: _____

Sample ID	Description	Analysis	Date/Time	Sampled by	IAS USE ONLY: FIELD TESTS		
					NH ₃ N *	pH	Temp
1	BAILER 1	IRR	W2 9-29/19:15	Zek			
2	BAILER 2	IRR	W2 9-29/19:30	Zek			
3							
4							
5							
6							
7							
8							

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

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

NOTES: 11

GLS

40711.1C

9/30/23

13:20

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>C</u>	IAS		9-29-23 / 1:20
2 nd	<u>ASB</u>	FGL	9/29/23 1545	
3 rd	<u>ASB</u>	FGL		9/29/23 1557
4 th	<u>MZC</u>	FGL	9/29/23 1557	

LABORATORY USE ONLY

Logged In By: Mike 9/29/23 1730

Total Samples: _____

Laboratory #: _____

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

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

2. Were samples received in a chilled condition? Temps: 11.1°4 / / / / T6407

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

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

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

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

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

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

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

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

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

Sample Receipt Review completed by (initials): MJ

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 24 / / / /
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 560214794

3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. Were sample custody seals intact? Yes No N/A

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

Sample Verification, Labeling and Distribution:

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

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

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

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

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

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

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

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

Discrepancy Documentation:

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

- | | |
|---|---|
| <p>1. Person Contacted: _____</p> <p>Initiated By: _____</p> <p>Problem: _____</p> <p>Resolution: _____</p> | <p>Phone Number: _____</p> <p>Date: _____</p> |
| <p>2. Person Contacted: _____</p> <p>Initiated By: _____</p> <p>Problem: _____</p> <p>Resolution: _____</p> | |

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

(4018573)
Innovative Ag Services, LLC
VI 2346585

