

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 StreetHanford
CityKings
County93230
Zip Code

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

Date facility was originally placed in operation: 01/01/1990Regional 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: de Jong, JohnnieTelephone no.: (559) 583-9004

Landline

Cellular

4265 Dover AVEHanfordCA93230

Mailing Address Number and Street

City

State

Zip Code

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

de Jong, Johnnie

Legal owner name: de Jong, JohnnieTelephone no.: (559) 583-9004

Landline

Cellular

4265 Dover AVEHanfordCA93230

Mailing Address Number and Street

City

State

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

54,708,748 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 54,708,748 gallons generated

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: <u>BAR#2</u>

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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 ton	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#3

Field 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 ton	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 ton	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#4

Field 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 <i>ton</i>	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 <i>ton</i>	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#5

Field 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 <i>ton</i>	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 ton	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 ton	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 ton	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 <i>ton</i>	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 <i>ton</i>	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#3

Field 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#4

Field 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 <i>ton</i>	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 <i>ton</i>	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#5

Field 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 <i>ton</i>	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 ton	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#6

Field 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 ton	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#7

Field 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 ton	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 ton	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 ton	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 <i>ton</i>	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 <i>ton</i>	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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Reporting period 01/01/2023 to 12/31/2023.

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

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

Field name: **BAR#2**

Crop: **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 <i>ton</i>
Application event totals			192.60	72.90	206.10	0.00	
11/11/2022	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
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	34.20	2,458,993.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	34.20	
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	32.91	2,365,995.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	32.91	
02/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	48.12	3,459,668.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	48.12	

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

Field name: **BCL#3**

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

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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>ton</i>
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																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>50.06</td><td>5,698,442.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>50.06</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	50.06	
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 <i>gal</i>																			
Application event totals		0.00	0.00	0.00	50.06																				
06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>50.06</td><td>5,698,335.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>50.06</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	50.06	
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 <i>gal</i>																			
Application event totals		0.00	0.00	0.00	50.06																				
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>48.22</td><td>5,489,665.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>48.22</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	48.22	
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 <i>gal</i>																			
Application event totals		0.00	0.00	0.00	48.22																				
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>47.17</td><td>5,369,885.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>47.17</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	47.17	
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 <i>gal</i>																			
Application event totals		0.00	0.00	0.00	47.17																				
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>46.11</td><td>5,248,996.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>46.11</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	46.11	
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 <i>gal</i>																			
Application event totals		0.00	0.00	0.00	46.11																				
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																					
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Peoples Ditch Hanford ID</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>48.22</td><td>5,489,667.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>48.22</td><td></td></tr></table>					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 <i>gal</i>	Application event totals		0.00	0.00	0.00	48.22	
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 <i>gal</i>																			
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 <i>gal</i>
Application event totals				0.00	0.00	0.00	47.06	
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	48.13	5,478,669.00 <i>gal</i>
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 <i>gal</i>
B2		Ground water	34.04	0.00	0.00	748.80	3,058,996.00 <i>gal</i>
Application event totals			139.02	41.45	202.39	1,870.16	
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	89.75	35.43	173.02	958.60	646,556.00 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	39.60	3,558,775.00 <i>gal</i>
Application event totals			89.75	35.43	173.02	998.20	

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

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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.39	4,258,996.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.39	4,258,996.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.28	4,159,357.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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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Reporting period 01/01/2023 to 12/31/2023.

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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	42.35	9,895,668.00 <i>gal</i>
Application event totals		72.88	28.77	140.51	820.86	
01/16/2023	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	77.54	30.61	149.48	828.18	1,452,336.00 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	40.91	9,558,996.00 <i>gal</i>
Application event totals		77.54	30.61	149.48	869.09	
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
Lagoon	Process wastewater	77.75	30.69	149.89	830.46	1,456,335.00 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.63	8,559,665.00 <i>gal</i>
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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.32	11,525,664.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	53.60	12,524,558.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Baker 1	Ground water	2.87	0.00	0.00	219.96	4,698,559.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	38.99	4,789,665.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	40.41	4,963,558.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	43.07	5,289,887.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	53.31	6,548,558.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	54.92	6,745,669.00 <i>gal</i>
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 <i>gal</i>
	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 <i>gal</i>
	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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>
Application event totals		30.00	0.00	0.00	43.44	
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	44.37	14,754,889.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	44.37	
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	43.48	14,456,993.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	43.48	
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	37.20	12,369,559.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.20	
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	37.46	12,457,884.00 <i>gal</i>
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 <i>gal</i>	
Baker 2		Ground water	21.06	0.00	0.00	550.87	5,962,335.00 <i>gal</i>	
Application event totals			106.93	33.90	165.56	1,468.15		
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	
Lagoon		Process wastewater	92.62	36.57	178.56	989.31	1,245,562.00 <i>gal</i>	
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	37.94	6,365,228.00 <i>gal</i>	
Application event totals			92.62	36.57	178.56	1,027.25		
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	34.20	13.50	65.92	365.25	459,865.00 <i>gal</i>	
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	37.89	6,356,884.00 <i>gal</i>	
Application event totals			34.20	13.50	65.92	403.15		

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

Field name: DVR#2

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
Lagoon	Process wastewater	105.30	41.57	203.00	1,124.76	1,896,557.00 <i>gal</i>
Baker 2	Ground water	22.60	0.00	0.00	591.16	8,569,335.00 <i>gal</i>
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 <i>gal</i>	
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	37.64	8,456,779.00 <i>gal</i>	
Application event totals			96.75	38.20	186.52	1,071.06		
02/22/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	37.64	8,456,992.00 <i>gal</i>	
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 <i>gal</i>
Peoples Ditch Hanford ID			Surface water	0.00	0.00	0.00	38.21	8,585,664.00 <i>gal</i>
Application event totals				61.36	11.22	80.58	872.42	
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
Peoples Ditch Hanford ID			Surface water	0.00	0.00	0.00	46.95	10,548,996.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.95	10,547,889.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	47.42	10,654,889.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.55	10,459,885.00 <i>gal</i>
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 <i>gal</i>
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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.93	10,684,559.00 <i>gal</i>
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>ton</i>
Application event totals		192.60	72.90	206.10	0.00	
11/17/2022	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
D7	Ground water	1.94	0.00	0.00	222.54	9,159,753.00 <i>gal</i>
Application event totals		1.94	0.00	0.00	222.54	
01/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	46.31	18.28	89.28	494.65	878,559.00 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.59	8,895,667.00 <i>gal</i>
Application event totals		46.31	18.28	89.28	532.24	
02/19/2023	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	36.25	8,578,944.00 <i>gal</i>
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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	48.41	11,456,889.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	49.25	11,654,775.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>	
D5		Ground water	39.53	0.00	0.00	710.99	3,521,559.00 <i>gal</i>	
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 <i>gal</i>	
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	38.73	3,596,554.00 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	44.04	4,089,665.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	44.28	4,112,255.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	38.32	3,558,996.00 <i>gal</i>
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 <i>gal</i>
Application event totals				0.00	0.00	0.00	50.16	
08/27/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID			Surface water	0.00	0.00	0.00	50.59	4,698,552.00 <i>gal</i>
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 <i>gal</i>
D5	Ground water	43.41	0.00	0.00	780.69	9,854,122.00 <i>gal</i>
Application event totals		113.07	27.50	134.29	1,524.76	
01/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	59.32	23.42	114.37	633.65	1,125,448.00 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	41.35	9,785,448.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	32.31	7,645,882.00 <i>gal</i>
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 <i>gal</i>
D7	Ground water	2.22	0.00	0.00	255.61	8,789,664.00 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	37.71	7,456,992.00 <i>gal</i>
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 <i>gal</i>
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 <i>ton</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	35.58	12,789,445.00 <i>gal</i>
Application event totals		192.60	72.90	206.10	35.58	
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
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	33.09	11,896,554.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.09	
02/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	36.03	12,951,753.00 <i>gal</i>
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 <i>ton</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	46.33	5,413,556.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID	Surface water	0.00	0.00	0.00	44.90	5,245,882.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	50.22	5,866,995.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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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Reporting period 01/01/2023 to 12/31/2023.

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 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	51.07	1,529,882.00 <i>gal</i>
Application event totals			90.10	16.48	118.31	1,275.88	
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	53.06	1,589,566.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	53.06	
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	88.09	16.11	115.68	1,197.55	375,668.00 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	51.88	1,554,112.00 <i>gal</i>
Application event totals			88.09	16.11	115.68	1,249.43	
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	51.48	1,542,116.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	51.48	
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	83.84	14.07	89.92	1,062.02	291,223.00 <i>gal</i>
Peoples Ditch Hanford ID		Surface water	0.00	0.00	0.00	48.61	1,456,223.00 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>		
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 <i>gal</i>		
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 <i>gal</i>		
Application event totals			0.00	0.00	0.00	42.49			

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

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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>	
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
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 <i>gal</i>
Application event totals				0.00	0.00	0.00	43.67	
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	43.66	2,354,118.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	43.66	

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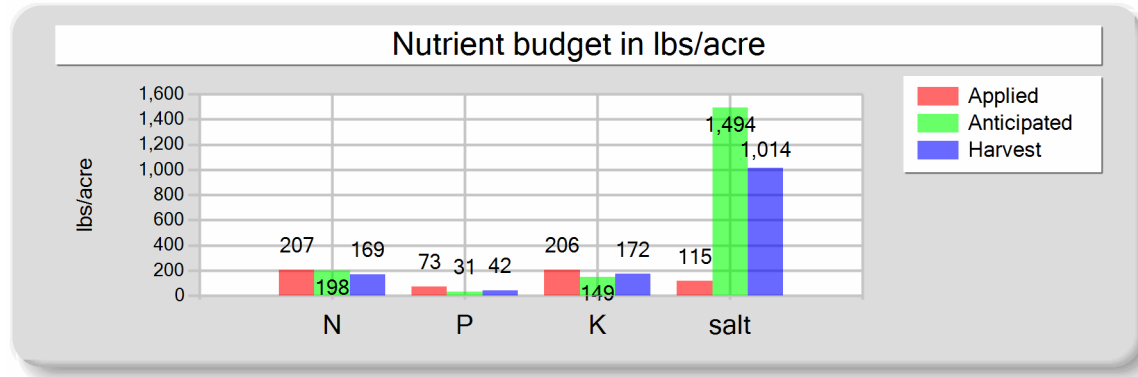
B. NUTRIENT BUDGET

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,284,656.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	305.10 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.71 <i>inches/acre</i>
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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

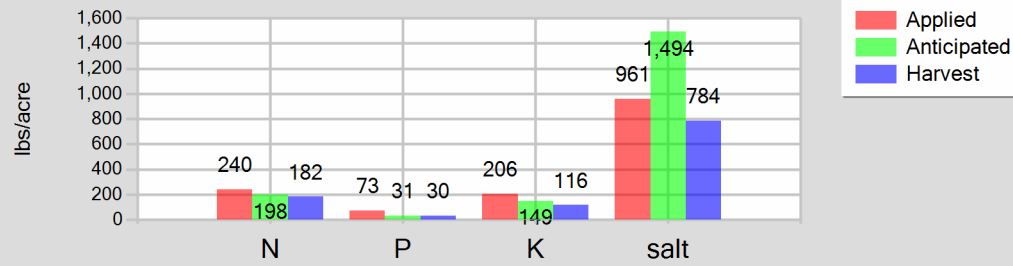
BCL#3 - 11/14/2022: Wheat, silage, soft dough

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	13,008,991.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	479.08 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.61 <i>inches/acre</i>
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	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

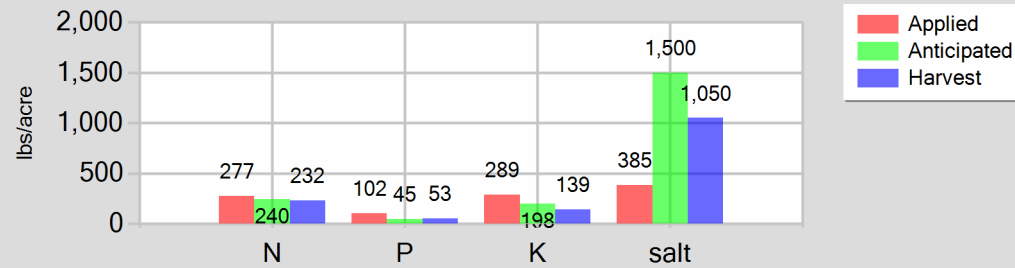
BCL#3 - 06/11/2023: Corn, silage

Field name: BCL#3

Crop: Corn, silage

Plant date: 06/11/2023

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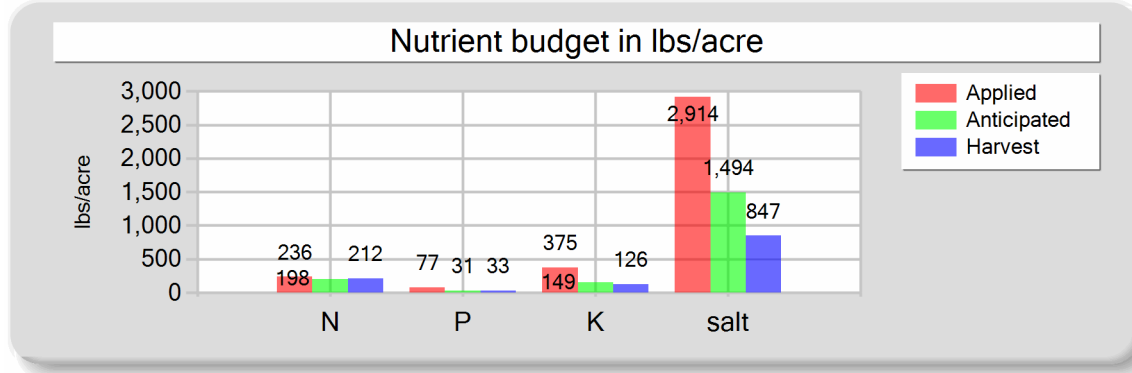
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
395.57 <i>acre-inches</i>
13.19 <i>inches/acre</i>

Process wastewater applied
1,402,888.00 <i>gallons</i>
51.66 <i>acre-inches</i>
1.72 <i>inches/acre</i>

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

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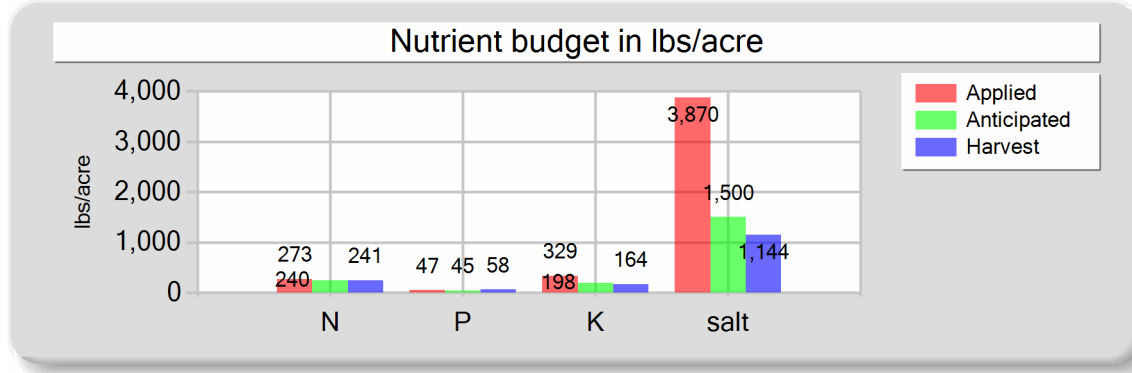
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,094.63 <i>acre-inches</i>
36.49 <i>inches/acre</i>

Process wastewater applied
3,207,818.00 <i>gallons</i>
118.13 <i>acre-inches</i>
3.94 <i>inches/acre</i>

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

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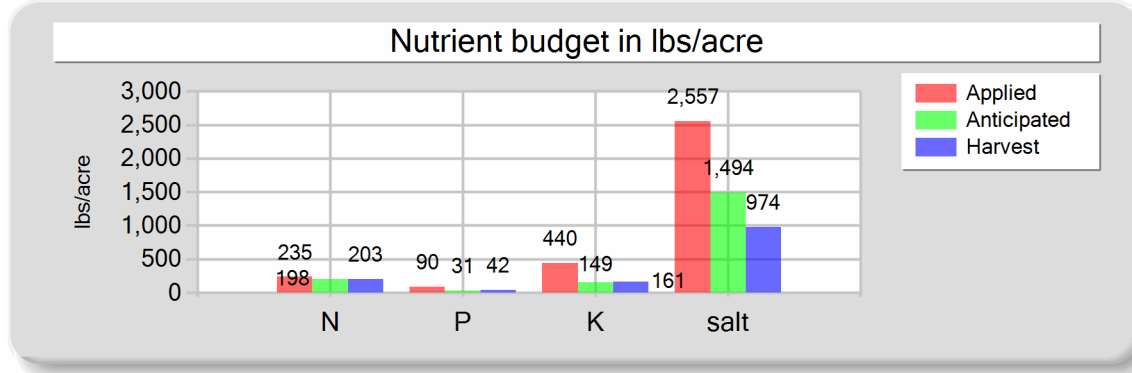
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,031.67 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.23 <i>inches/acre</i>
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 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	157.39 <i>acre-inches</i>
Total nutrients applied	235.17	90.08	439.88	2,557.04	2.02 <i>inches/acre</i>
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 <i>harvests</i>
Applied to removed ratio	1.16	2.14	2.73	2.62	

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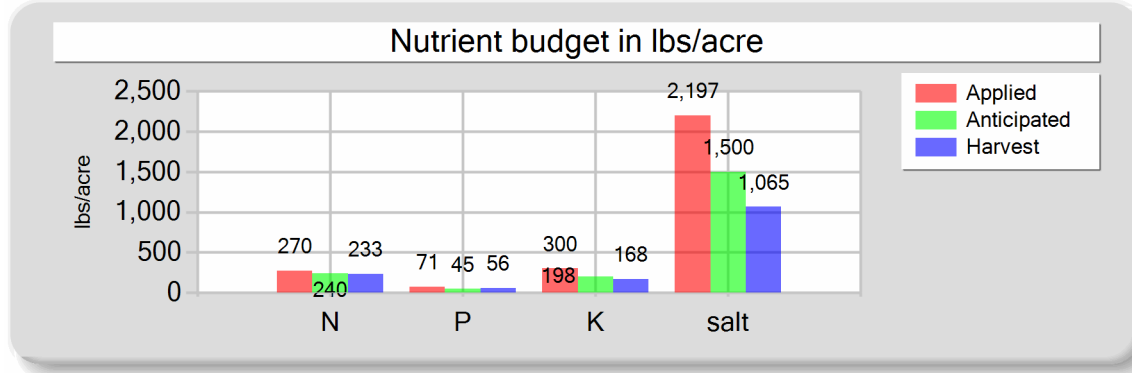
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
3,067.41 <i>acre-inches</i>
39.33 <i>inches/acre</i>

Process wastewater applied
4,246,552.00 <i>gallons</i>
156.39 <i>acre-inches</i>
2.00 <i>inches/acre</i>

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

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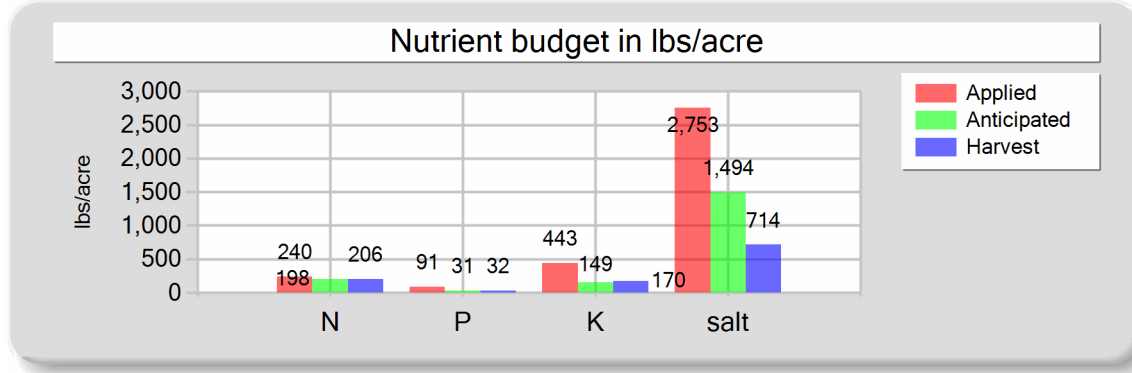
Reporting period 01/01/2023 to 12/31/2023.

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)
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	229.67	90.67	442.78	2,453.22
Fresh water	2.87	0.00	0.00	299.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.54	90.67	442.78	2,752.58
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	205.55	31.90	170.11	713.53
Nutrient balance	33.99	58.78	272.66	2,039.05
Applied to removed ratio	1.17	2.84	2.60	3.86

Fresh water applied
14,451,782.00 <i>gallons</i>
532.21 <i>acre-inches</i>
12.98 <i>inches/acre</i>

Process wastewater applied
2,261,346.00 <i>gallons</i>
83.28 <i>acre-inches</i>
2.03 <i>inches/acre</i>

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

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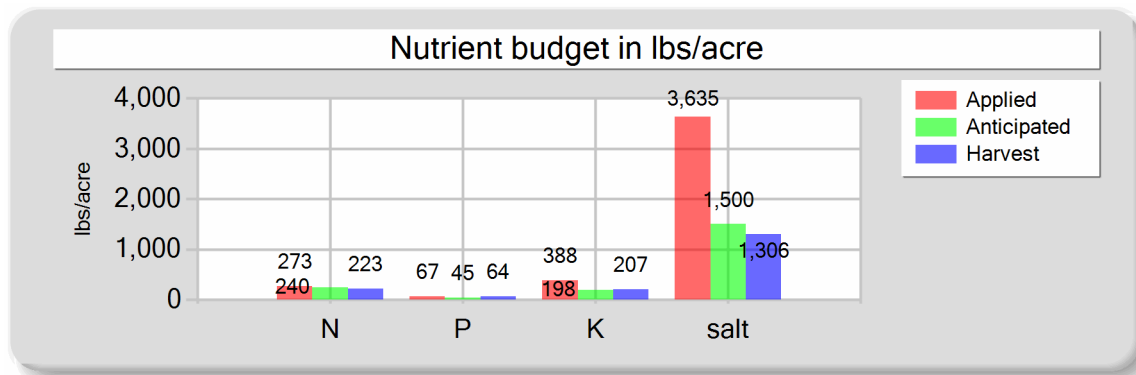
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,653.33 <i>acre-inches</i>
40.33 <i>inches/acre</i>

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

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

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

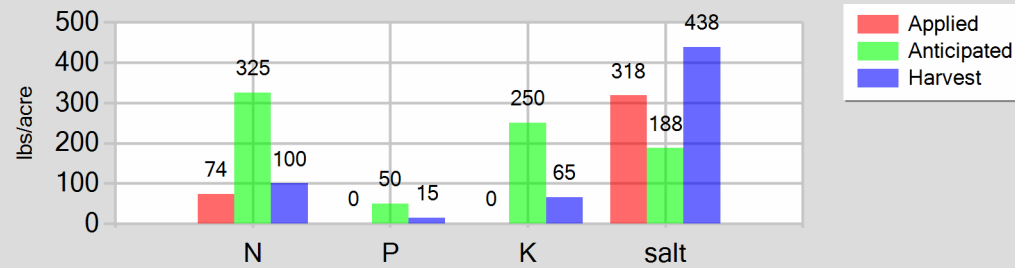
DB#2 - 03/05/2018: Almond, in shell

Field name: DB#2

Crop: Almond, in shell

Plant date: 03/05/2018

Nutrient budget in lbs/acre



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

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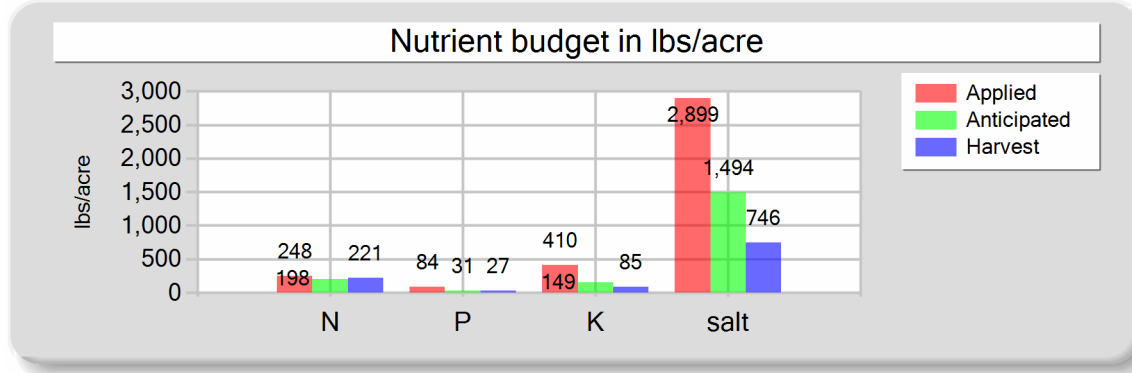
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
688.08 <i>acre-inches</i>
12.29 <i>inches/acre</i>

Process wastewater applied
2,860,312.00 <i>gallons</i>
105.34 <i>acre-inches</i>
1.88 <i>inches/acre</i>

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

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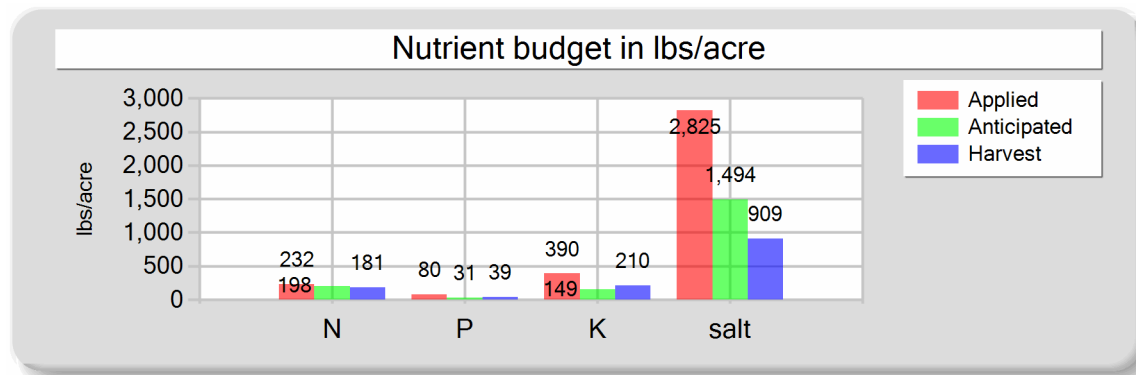
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
938.46 <i>acre-inches</i>
12.51 <i>inches/acre</i>

Process wastewater applied
3,639,101.00 <i>gallons</i>
134.02 <i>acre-inches</i>
1.79 <i>inches/acre</i>

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

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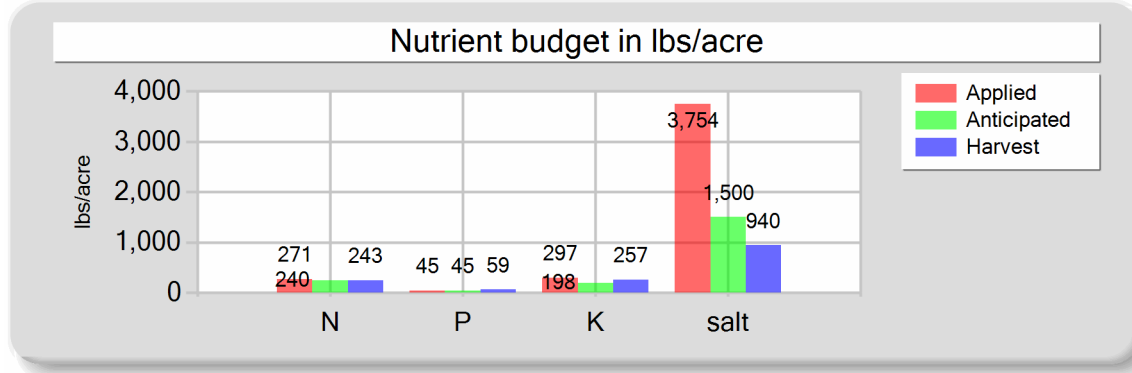
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
2,964.05 <i>acre-inches</i>
39.52 <i>inches/acre</i>

Process wastewater applied
7,229,990.00 <i>gallons</i>
266.26 <i>acre-inches</i>
3.55 <i>inches/acre</i>

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

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

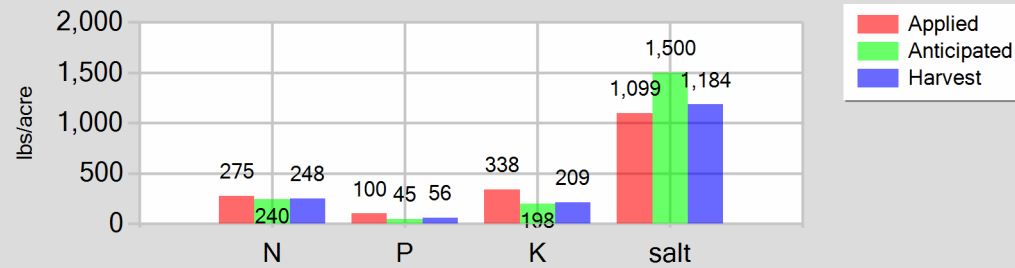
DVR#3 - 04/15/2023: Corn, silage

Field name: DVR#3

Crop: Corn, silage

Plant date: 04/15/2023

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	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 <i>gallons</i>
3,100.19 <i>acre-inches</i>
40.79 <i>inches/acre</i>
Process wastewater applied
1,245,665.00 <i>gallons</i>
45.87 <i>acre-inches</i>
0.60 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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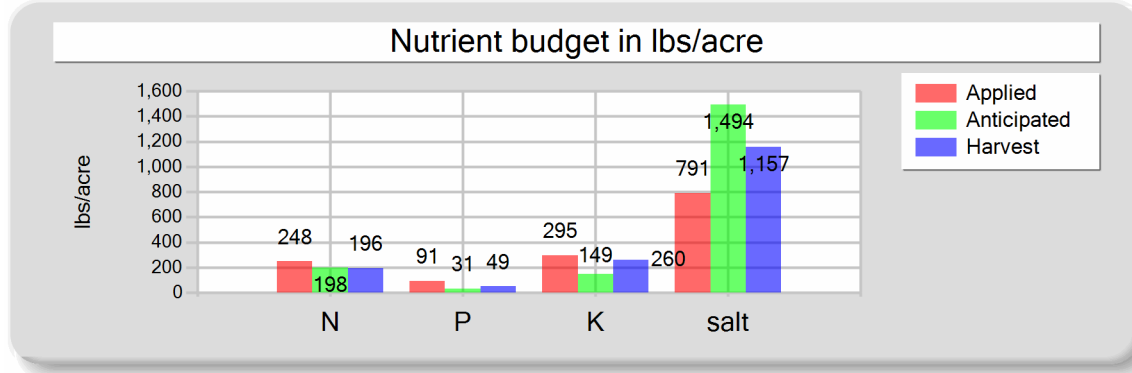
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: DVR#4

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	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 <i>gallons</i>
980.85 <i>acre-inches</i>
12.42 <i>inches/acre</i>

Process wastewater applied
878,559.00 <i>gallons</i>
32.35 <i>acre-inches</i>
0.41 <i>inches/acre</i>

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

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

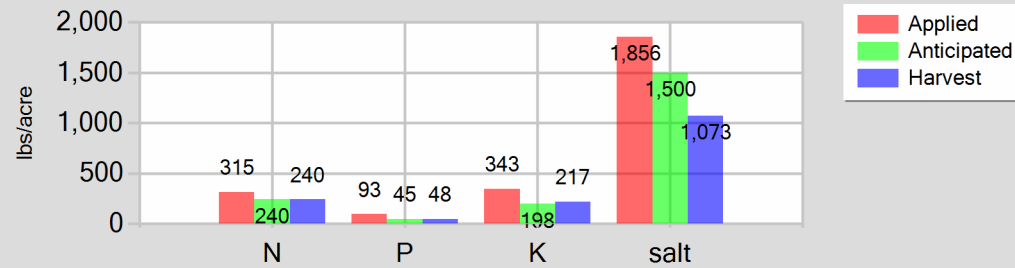
DVR#4 - 06/12/2023: Corn, silage

Field name: DVR#4

Crop: Corn, silage

Plant date: 06/12/2023

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	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 <i>gallons</i>
2,968.85 <i>acre-inches</i>
37.58 <i>inches/acre</i>

Process wastewater applied
3,502,333.00 <i>gallons</i>
128.98 <i>acre-inches</i>
1.63 <i>inches/acre</i>

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

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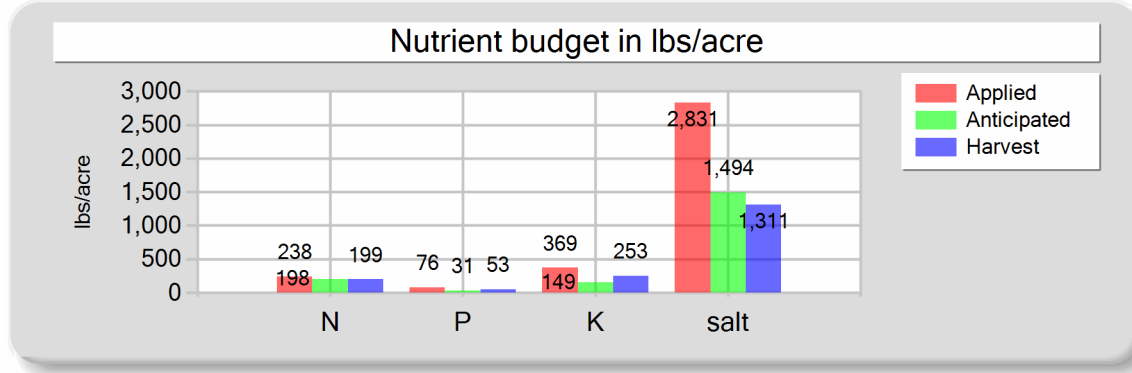
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
392.73 <i>acre-inches</i>
12.67 <i>inches/acre</i>

Process wastewater applied
1,423,990.00 <i>gallons</i>
52.44 <i>acre-inches</i>
1.69 <i>inches/acre</i>

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

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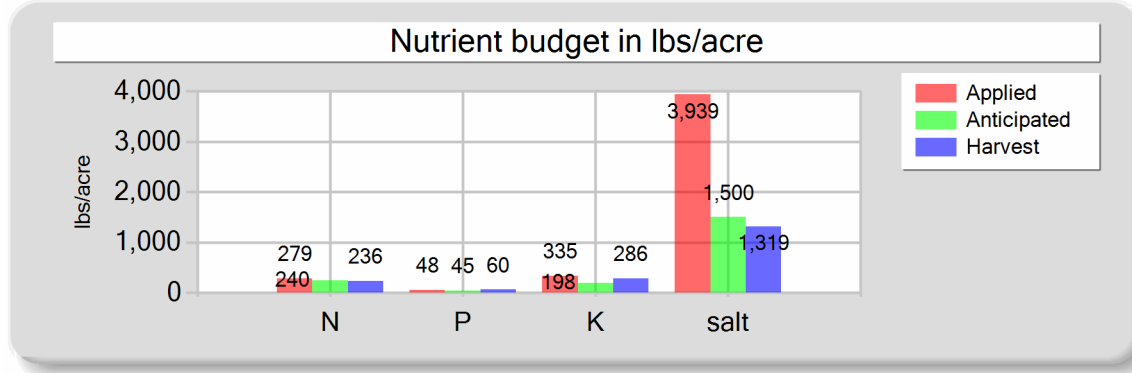
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,128.38 <i>acre-inches</i>
36.40 <i>inches/acre</i>

Process wastewater applied
3,372,894.00 <i>gallons</i>
124.21 <i>acre-inches</i>
4.01 <i>inches/acre</i>

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

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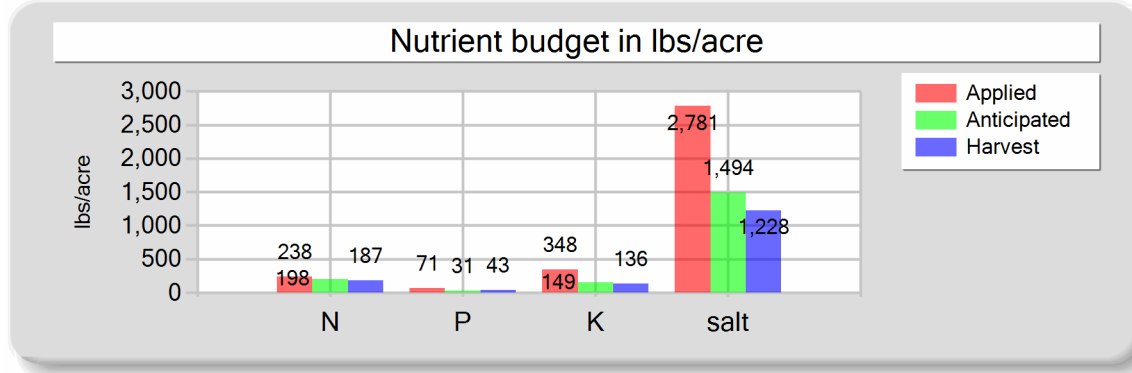
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,004.83 <i>acre-inches</i>
12.72 <i>inches/acre</i>

Process wastewater applied
3,422,634.00 <i>gallons</i>
126.04 <i>acre-inches</i>
1.60 <i>inches/acre</i>

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

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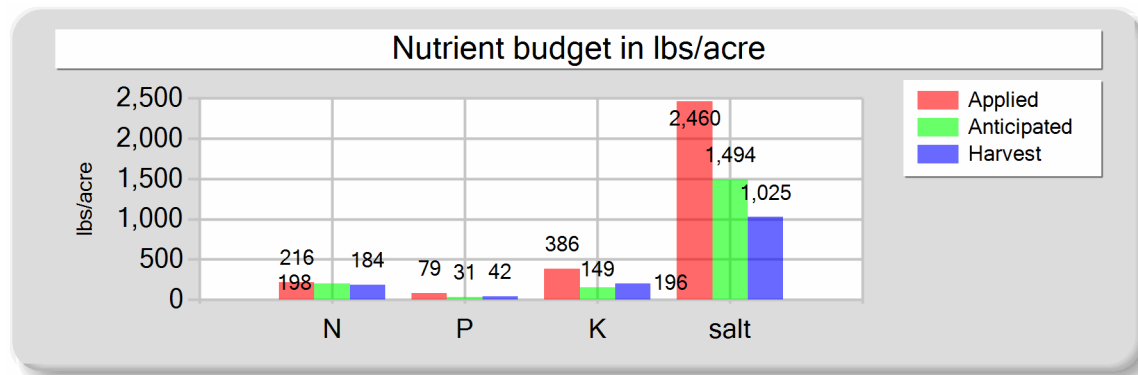
Reporting period 01/01/2023 to 12/31/2023.

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)
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	200.17	79.03	385.90	2,138.12
Fresh water	2.22	0.00	0.00	321.64
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	216.40	79.03	385.90	2,459.76
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
Nutrient balance	32.78	36.57	189.55	1,434.49
Applied to removed ratio	1.18	1.86	1.97	2.40

Fresh water applied
21,845,210.00 <i>gallons</i>
804.48 <i>acre-inches</i>
12.19 <i>inches/acre</i>

Process wastewater applied
3,172,653.00 <i>gallons</i>
116.84 <i>acre-inches</i>
1.77 <i>inches/acre</i>

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

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

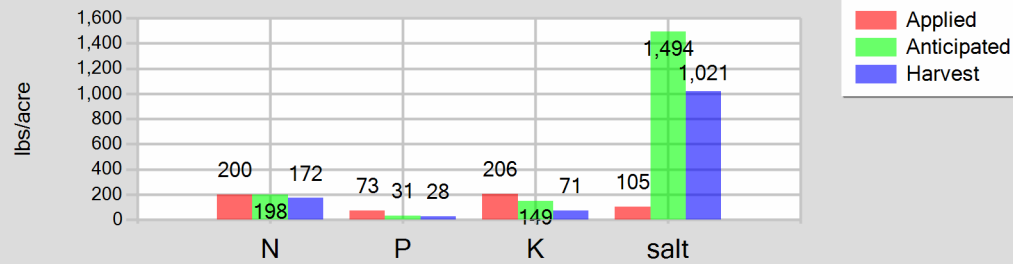
Elder Ranch - 11/15/2022: Wheat, silage, soft dough

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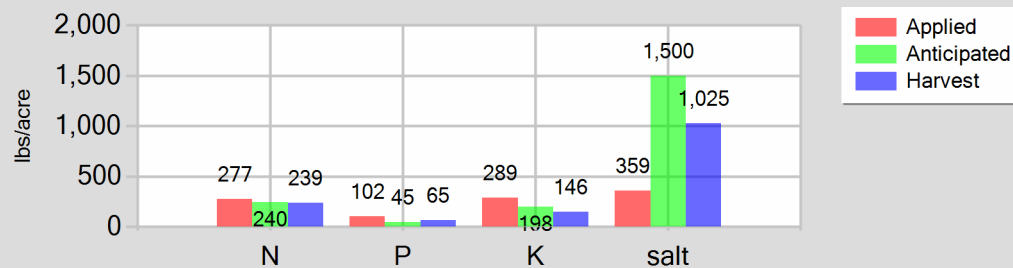
Elder Ranch - 06/12/2023: Corn, silage

Field name: Elder Ranch

Crop: Corn, silage

Plant date: 06/12/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	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 <i>gallons</i>
4,746.56 <i>acre-inches</i>
39.55 <i>inches/acre</i>

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

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

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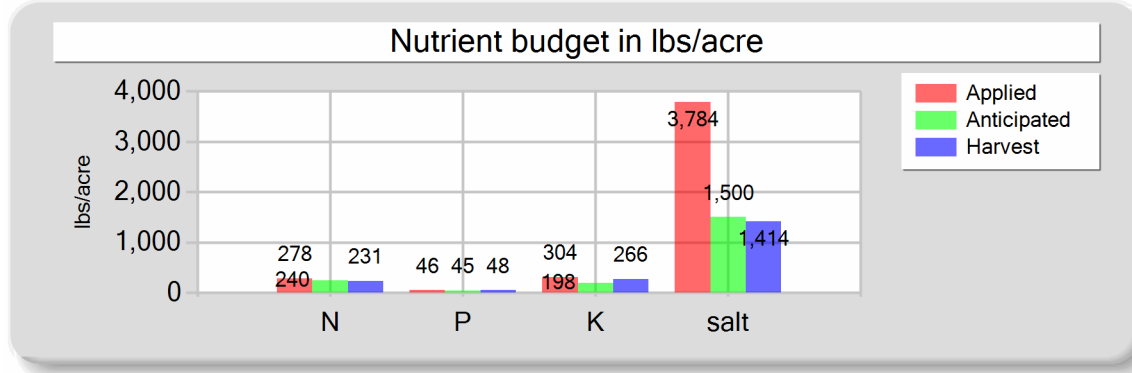
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
1,545.69 <i>acre-inches</i>
39.63 <i>inches/acre</i>

Process wastewater applied
3,846,220.00 <i>gallons</i>
141.64 <i>acre-inches</i>
3.63 <i>inches/acre</i>

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

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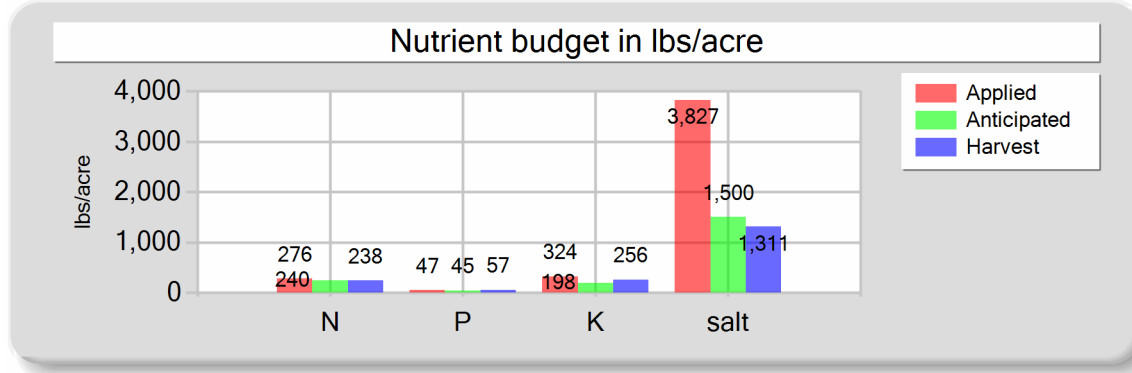
Reporting period 01/01/2023 to 12/31/2023.

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 <i>gallons</i>
378.28 <i>acre-inches</i>
37.83 <i>inches/acre</i>

Process wastewater applied
1,051,112.00 <i>gallons</i>
38.71 <i>acre-inches</i>
3.87 <i>inches/acre</i>

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

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

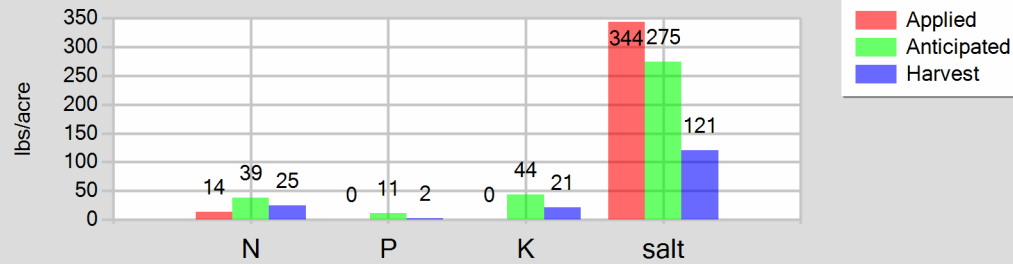
Horse Ranch - 03/01/2020: Cherries

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 <i>gallons</i>
758.95 <i>acre-inches</i>
37.95 <i>inches/acre</i>

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

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

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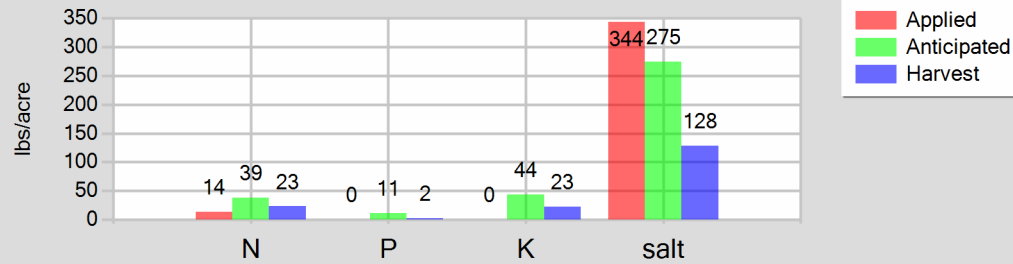
Raisin Ranch - 03/01/2020: Cherries

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 <i>gallons</i>
682.29 <i>acre-inches</i>
37.90 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

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

B2

Irrigation Well

Sample description: Irrigation WellSample 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 (µmhos/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 WellSample 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 (µmhos/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 WellSample 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 (µmhos/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 Well

Sample 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 Well

Sample 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 Water

Sample 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

WheatSample and source description: WheatSample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 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

WheatSample and source description: WheatSample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 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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Reporting period 01/01/2023 to 12/31/2023.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

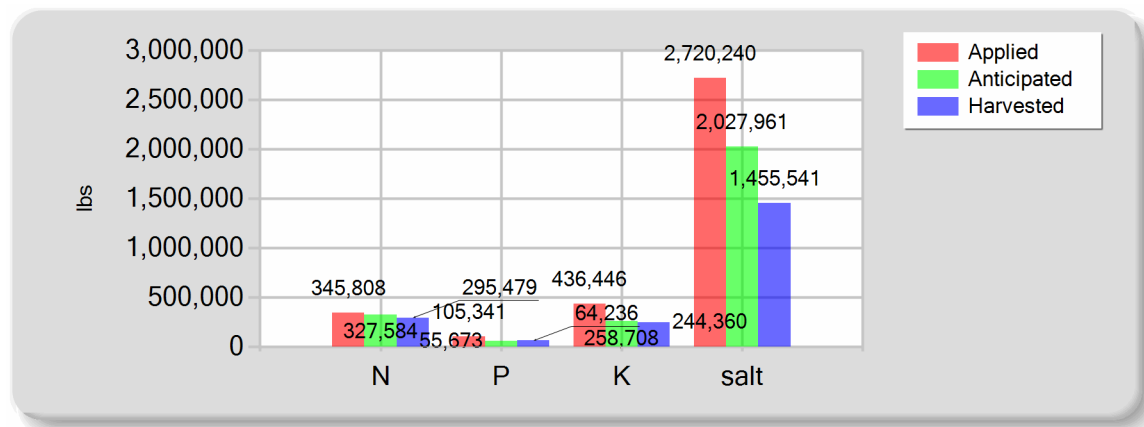
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

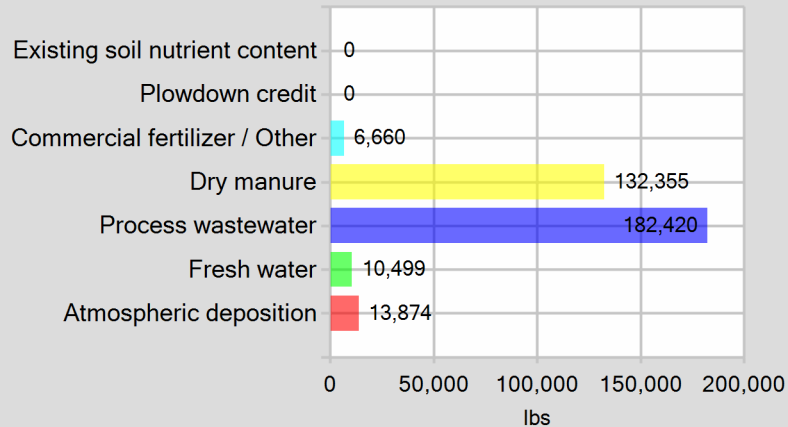
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	6,660.00	0.00	0.00	0.00
Dry manure	132,354.72	50,096.88	141,631.92	0.00
Process wastewater	182,419.99	55,244.20	294,814.37	2,131,825.17
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

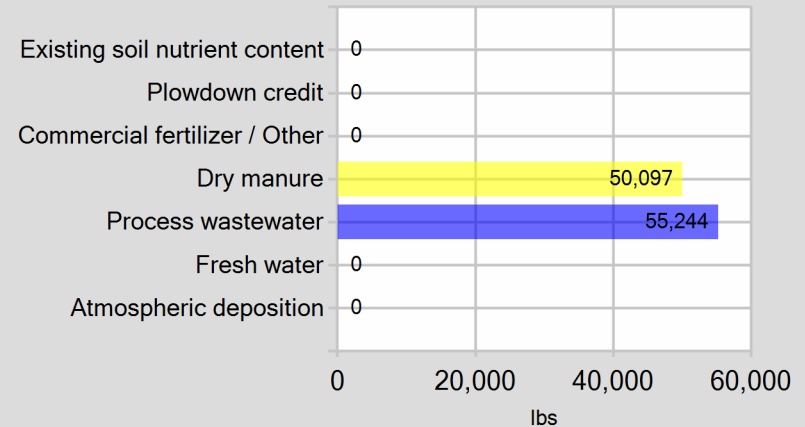


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

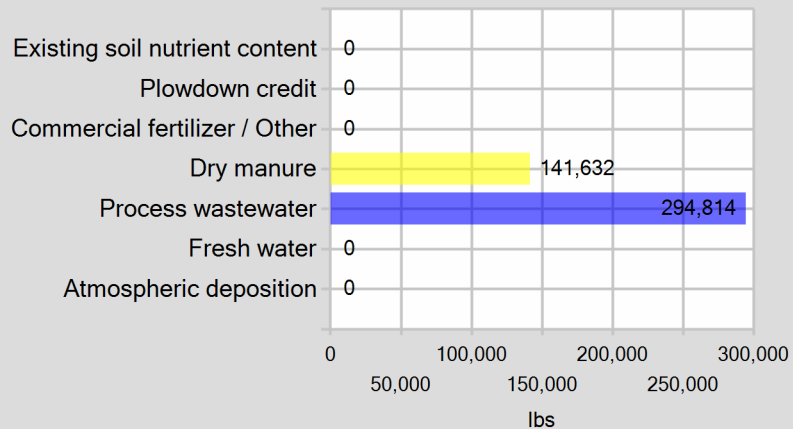
Pounds of nitrogen applied



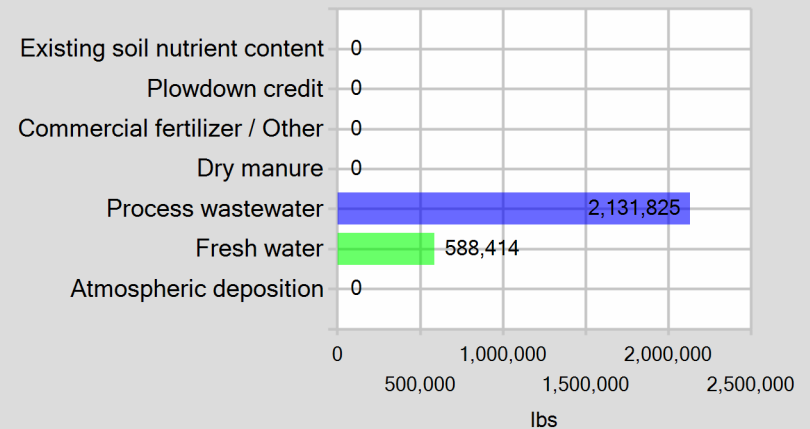
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

ADDITIONAL NOTES

A. NOTES

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Johnnie de Jong

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

August 11, 2023

Sentry Ag Services
 Attn: Monique Baldiviez
 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

August 11, 2023

Sentry Ag Services

Attn: Monique Baldiviez

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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
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

Corporate Offices & Laboratory

853 Corporation Street

Santa Paula, CA 93060

TEL: (805)392-2000

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

CA ELAP Certification No. 1573

Office & Laboratory

2500 Stagecoach Road

Stockton, CA 95215

TEL: (209)942-0182

FAX: (209)942-0423

CA ELAP Certification No. 1563

Office & Laboratory

563 E. Lindo Avenue

Chico, CA 95926

TEL: (530)343-5818

FAX: (530)343-3807

CA ELAP Certification No. 2670

Office & Laboratory

3442 Empresa Drive, Suite D

San Luis Obispo, CA 93401

TEL: (805)783-2940

FAX: (805)783-2912

CA ELAP Certification No. 2775

Office & Laboratory

9415 W. Goshen Avenue

Visalia, CA 93291

TEL: (559)734-9473

FAX: (559)734-8435

CA ELAP Certification No. 2810

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	mg/L	993.7	ND	<20	
			LCS	mg/L		102%	90-110	
			Dup	mg/L		0.4%	5	
			Dup	mg/L		1.98%	5	
Nitrogen, Total Kjeldahl	351.2	08/08/2023:208707STA (VI 2344654-002) (VI 2344644-003)	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		91.3%	73-124	
			MS	mg/L		85.5%	54-136	
			MSD	mg/L		85.3%	54-136	
			MSRPD	mg/L		0.3%	≤27	
			MS	mg/L		82.8%	54-136	
			MSD	mg/L		82.5%	54-136	
			MSRPD	mg/L		0.3%	≤27	
Nitrate + Nitrite as N	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.7%	80-120	
			MS	mg/L		90.8%	66-125	
			MSD	mg/L		92.7%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	
Nitrate Nitrogen	4500NO3F	07/19/2023:207926LFS (SP 2312214-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.7%	80-120	
			MS	mg/L		90.8%	66-125	
			MSD	mg/L		92.7%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

Definition

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



Laboratory Analysis Work Order

3058

SITE NAME: People's Ditch - Hartford

LABORATORY: VT | FGL 4-19696

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

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

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

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	<i>W D. H.</i>	SAS		7/18/23 3:27 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°C GLS 7/19/23
MLC 1100

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: 201 / 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? | <u>Yes</u> | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <u>Yes</u> | No | |
| 5. VOAs checked for Headspace? | Yes | No | <u>N/A</u> |
| 6. Were sample custody seals intact? | Yes | No | <u>N/A</u> |
| 7. If required, was sample split for pH analysis? | Yes | No | <u>N/A</u> |
| 8. Were all analyses within holding times at time of receipt? | <u>Yes</u> | No | |
| 9. Verify sample date, time and sampler name | <u>Yes</u> | 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): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 30 / / / /
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: 559787246
6815

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

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

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

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

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: _____
Problem: _____
Resolution: _____

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

(4019696)
Sentry Ag Service
VI 2344656

iv 07/19/2023 08:11:30



VI 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

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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	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	UI	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

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FAX: (530)343-3807
CA ELAP Certification No. 2670

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FAX: (805)783-2912
CA ELAP Certification No. 2775

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

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	Blank	mg/L	991.5	ND	<20	
			LCS	mg/L		96.9%	90-110	
			Dup	mg/L		1.61%	5	
			Dup	mg/L		2.05%	5	
Nitrogen, Total Kjeldahl	351.2	09/08/2023:210053STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		93.0%	73-124	
			MS	mg/L		97.5%	90-110	
			(STK2351641-005) MSD	mg/L		82.0%	90-110	435
			MSRPD	mg/L		7.7%	≤20	
			MS	mg/L		91.6%	90-110	
			(STK2351641-008) MSD	mg/L		90.9%	90-110	
			MSRPD	mg/L		0.7%	≤20	
Nitrate + Nitrite as N	4500NO3F	08/25/2023:209573LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		93.9%	80-120	
			MS	mg/L		85.7%	66-125	
			(SP 2314578-001) MSD	mg/L		87.4%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	08/25/2023:209573LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		93.9%	80-120	
			MS	mg/L		85.7%	66-125	
			(SP 2314578-001) MSD	mg/L		87.4%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	

Definition

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

Explanation

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



Laboratory Analysis Work Order

N° 41254

ID: # 0070

2345649

LABORATORY: FGL

SITE NAME: Dover Dairy

Billing: IAS

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

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: _____

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, SO₄S

S2 S1 + CEC, CaCO₃, OM, C:N, TN

S3 NO₃N, NH₄N

S4 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	WZ	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	<u>Monte R...</u>	<u>IAS</u>		<u>8/24/23 3:25</u>
2 nd	<u>Ena</u>	<u>FGL</u>	<u>8/24/23 15:57</u>	
3 rd	<u>Ena</u>	<u>FGL</u>		<u>8/24/23 1:6:04</u>
4 th	<u>Ad</u>		<u>8/24/23 16:04</u>	

LABORATORY USE ONLY

Logged In By: Ena

Total Samples: 2

Laboratory #: 8/24/23 11:49

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 / 19.1°C / 1 / 1 / 1
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 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): [Signature]

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 21 21 21 / 1 / 1 / 1

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: 760009023, 540009043, 760009377

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

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

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

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

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

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

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

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

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: _____ Date: _____

Problem: _____

Resolution: _____

(Please use the back of this sheet for additional 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

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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	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	I	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	UI	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.
- I 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

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FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory

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FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory

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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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	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	I	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	UI	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.
- I 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

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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	mg/L	991.5	ND	<20	
			LCS	mg/L		102%	90-110	
			Dup	mg/L		2.16%	5	
			Dup	mg/L		3.68%	5	
Nitrogen, Total Kjeldahl	351.2	09/26/2023:210792STA (STK2352326-001) (STK2352326-002)	Blank	mg/L	12.00	ND	<0.5	435
			LCS	mg/L		92.1%	73-124	
			MS	mg/L		91.7%	90-110	
			MSD	mg/L		94.2%	90-110	
			MSRPD	mg/L		2.5%	≤20	
			MS	mg/L		89.4%	90-110	
			MSD	mg/L		90.7%	90-110	
			MSRPD	mg/L		1.4%	≤20	
Nitrate + Nitrite as N	4500NO3F	09/13/2023:210275LFS (SP 2315466-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.3%	80-120	
			MS	mg/L		94.1%	66-125	
			MSD	mg/L		96.5%	66-125	
			MSRPD	mg/L		2.1%	≤30.4	
Nitrate Nitrogen	4500NO3F	09/13/2023:210275LFS (SP 2315466-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.3%	80-120	
			MS	mg/L		94.1%	66-125	
			MSD	mg/L		96.5%	66-125	
			MSRPD	mg/L		2.1%	≤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

N° 41336

ID: # 0070

SITE NAME: DOVER DAIRY

Billing: IAS

LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

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: _____

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, SO₄S

S2 S1 + CEC, CaCO₃, OM, C:N, TN

S3 NO₃N, NH₄N

S4 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	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		IAS		9-12-23 / 3:20
2 nd	AB	FGL	9/12/23 1600	
3 rd	AB	FGL	9/12/23 1619	
4 th	ADH		9/12/23 1619	

LABORATORY USE ONLY

Logged In By: GL

Total Samples: 11

Laboratory #: GL

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: 61 3.4 C 1 1

Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, 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): HA

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 61 4.5 1 1

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: 560109302 560109894 5601009886

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? ☒ Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]

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

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

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

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

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

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: _____

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

(4018573)
Innovative Ag Services, LLC
VI 2346188

iv 09/13/2023 09:47:53



VI 2346188

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

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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	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	UI	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			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	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	UI	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

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FAX: (559)734-8435
CA ELAP Certification No. 2810

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	Blank	mg/L	991.5	ND	<20	
			LCS	mg/L		101%	90-110	
			Dup	mg/L		1.92%	5	
			Dup	mg/L		0.09%	5	
Nitrogen, Total Kjeldahl	351.2	10/11/2023:211433STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		93.1%	73-124	
			MS	mg/L		96.2%	90-110	
			(SP 2316497-003)	MSD		94.4%	90-110	
			(SP 2316497-003)	MSRPD		1.8%	≤20	
			MS	mg/L		81.5%	90-110	435
			(VI 2346585-001)	MSD		85.4%	90-110	435
			MSRPD	mg/L		4.5%	≤20	
Nitrate + Nitrite as N	4500NO3F	10/03/2023:211118LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.9%	80-120	
			MS	mg/L		92.4%	66-125	
			(CH 2378429-001)	MSD		93.4%	66-125	
			MSRPD	mg/L		0.5%	≤30.4	
			Blank	mg/L		ND	<0.4	
			LCS	mg/L		96.8%	80-120	
			MS	mg/L		99.1%	66-125	
			(STK2353580-001)	MSD		101%	66-125	
			MSRPD	mg/L		1.8%	≤30.4	
			Blank	mg/L		ND	<0.4	
			LCS	mg/L		96.8%	80-120	
			MS	mg/L		99.1%	66-125	
			(STK2353580-001)	MSD		101%	66-125	
			MSRPD	mg/L		1.8%	≤30.4	
Nitrate Nitrogen	4500NO3F	10/03/2023:211118LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		97.9%	80-120	
			MS	mg/L		92.4%	66-125	
			(CH 2378429-001)	MSD		93.4%	66-125	
			MSRPD	mg/L		0.5%	≤30.4	
			Blank	mg/L		ND	<0.4	
			LCS	mg/L		96.8%	80-120	
			MS	mg/L		99.1%	66-125	
			(STK2353580-001)	MSD		101%	66-125	
			MSRPD	mg/L		1.8%	≤30.4	
			Blank	mg/L		ND	<0.4	
			LCS	mg/L		96.8%	80-120	
			MS	mg/L		99.1%	66-125	
			(STK2353580-001)	MSD		101%	66-125	
			MSRPD	mg/L		1.8%	≤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

N° 41438

ID: # 0070

SITE NAME: DOVER DAIRY

Billing: IAS

2346585

LABORATORY: FGL

Authorized Copy Release to:

Innovative Ag Services LLC

(559) 587-2800

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: _____

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, SO₄S

S2 S1 + CEC, CaCO₃, OM, C:N, TN

S3 NO₃N, NH₄N

S4 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	BAKER 1	IRR	W2	9-29/9:15	Zelke			
2	BAKER 2	IRR	W2	9-29/9:30	Zelke			
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: TH 40111.12 GLS 9/30/23 13:20

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>[Signature]</u>	<u>IAS</u>	<u>[Signature]</u>	<u>9-22-23 / 1:20</u>
2 nd	<u>ASB</u>	<u>FGL</u>	<u>9/29/23 1545</u>	
3 rd	<u>ASB</u>	<u>FGL</u>	<u>9/29/23 1557</u>	
4 th	<u>WZee</u>	<u>FGL</u>	<u>9/29/23 1557</u>	

LABORATORY USE ONLY

Logged In By: WZee 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: 1 Shipping tracking # OTC

2. Were samples received in a chilled condition? Temps: 11.1°C / 1 / 1 / 16407

Surface water SWTR bact samples: A sample that has a temperature upon receipt of $>10^{\circ}\text{C}$, 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): WPA

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 20.1 / 1 / 1 / 1

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? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]

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

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

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

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

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

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: _____

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

(4018573)
Innovative Ag Services, LLC
VI 2346585

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