

**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:** V2 Cattle

Physical address of dairy:

13902 Rd. 96  
Number and StreetTipton  
CityTulare  
County93272  
Zip Code

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

Date facility was originally placed in operation: 04/01/2002Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X293-X100-X016-XXXX**B. OPERATORS**

Visser, Keith

Operator name: Visser, KeithTelephone no.: (559) 967-1475Landline CellularPO Box MPixley  
CityCA  
State93256  
Zip Code

Mailing Address Number and Street

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

Schott, Frank V

Legal owner name: Schott, Frank VTelephone no.: (559) 901-4190Landline Cellular13955 Rd 96Tipton  
CityCA  
State93272  
Zip Code

Mailing Address Number and Street

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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	0	560	496	284	0
Number under roof	1,833	219	0	0	0	0
Maximum number	1,848	227	575	511	292	0
Average number	1,833	219	560	496	284	0
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 62,917.47 tons per reporting period

Total nitrogen from manure: 783,509.35 lbs per reporting period

After ammonia losses (30% loss applied): 548,456.55 lbs per reporting period

Total phosphorus from manure: 129,920.93 lbs per reporting period

Total potassium from manure: 357,057.82 lbs per reporting period

Total salt from manure: 913,427.10 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 65,684,536 gallons

Total nitrogen generated: 229,470.49 lbs

Total phosphorus generated: 30,814.55 lbs

Total potassium generated: 409,205.22 lbs

Total salt generated: 2,435,645.24 lbs

65,684,536 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 65,684,536 gallons generated

**D. FRESH WATER SOURCES**

Source Description	Type
#1 Barn Backup	Ground water
11	Ground water
2	Ground water
3	Ground water
4	Ground water

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Source Description	Type
5	Ground water
5 S	Ground water
5A	Ground water
7	Ground water
Domestic 104	Ground water
DW1	Ground water
DW2	Ground water
H	Ground water
IWM1	Ground water
Lower Tule	Surface water
M2	Ground water
M3	Ground water
M-Dom	Ground water
P	Ground water
Tulare ID	Surface water
V1	Ground water
V2	Ground water
V3	Ground water
V4	Ground water
W10	Ground water
W10 South	Ground water
W14	Ground water
W15	Ground water
W16	Ground water
W17	Ground water
W8	Ground water
W9	Ground water
W9-111N	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
3-21N	75	75	2	process wastewater	X293-X100-X016-XXXX
3-21S	25	25	2	process wastewater	X293-X100-X016-XXXX
3-22	75	75	1	process wastewater	X293-X100-X016-XXXX
3-23	60	60	1	process wastewater	X293-X100-X016-XXXX X293-X100-X017-XXXX
7-31	45	45	1	none	X293-X070-X013-XXXX X293-X070-X014-XXXX
7-32	50	50	2	process wastewater	X293-X070-X013-XXXX X293-X070-X014-XXXX
7-33	90	90	1	process wastewater	X293-X070-X012-XXXX X293-X070-X015-XXXX
7-34	70	70	1	none	X293-X070-X014-XXXX
7-35	45	45	1	none	X293-X070-X014-XXXX
7-36	35	35	1	none	X293-X070-X014-XXXX
8-103	78	78	1	process wastewater	X293-X110-X001-XXXX
8-104	78	78	1	process wastewater	X293-X110-X001-XXXX
9-111N	75	75	1	none	X293-X110-X011-XXXX X293-X110-X012-XXXX
9-111S	80	80	1	none	X293-X110-X011-XXXX X293-X110-X012-XXXX
G1	96	96	1	both	X293-X080-X003-XXXX X293-X080-X004-XXXX
G3	65	45	1	none	X293-X080-X003-XXXX
G4	36	36	1	process wastewater	X293-X080-X004-XXXX
G5	75	75	1	process wastewater	X293-X080-X004-XXXX
G6	36	36	2	both	X293-X080-X003-XXXX
Home East	150	150	1	manure	X293-X070-X020-XXXX
M-1	77	77	1	none	X239-X070-X017-XXXX
M-2	73	73	1	none	X293-X100-X009-XXXX
M-3	80	80	1	none	X293-X100-X009-XXXX
V1	40	40	1	none	X149-X020-X066-XXXX X149-X020-X069-XXXX
V2	40	40	1	none	X149-X020-X066-XXXX X149-X020-X069-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
V3	38	38	1	none	X119-X830-X003-XXXX
V4	146	146	1	none	X119-X830-X001-XXXX
					X119-X830-X002-XXXX
Totals for areas that were used for application	924	924	17		
Totals for areas that were not used for application	909	889	14		
Land application area totals	1,833	1,813	31		

**B. CROPS AND HARVESTS**

3-21N

Field name: 3-21N

11/18/2022: Wheat, grain

Crop: Wheat, grain Acres planted: 75 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 (%)
06/15/2023	209.00 ton	Dry-weight		11.4	45,000.00	3,500.00	35,000.00		10.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	174.00	32.70	150.00	300.00
Total actual harvest content	2.79	222.21	17.28	172.83	503.67

06/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 06/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,155.00 ton	Dry-weight		66.6	12,800.00	2,500.00	14,700.00		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	28.73	245.68	47.98	282.15	1,287.91

3-21S

Field name: 3-21S

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3-21S

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 25 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	475.00 ton	Dry-weight		62.5	13,100.00	1,800.00	8,000.00		10.40

	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	19.00	186.68	25.65	114.00	1,482.00

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	720.00 ton	Dry-weight		64.1	12,900.00	3,000.00	8,400.00		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	28.80	266.75	62.04	173.70	984.29

3-22

Field name: 3-22

05/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/03/2023	2,189.00 ton	Dry-weight		70.2	11,700.00	3,000.00	11,700.00		5.38

	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	29.19	203.52	52.19	203.52	935.86

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3-23

Field name: 3-23

11/19/2022: Wheat, grain

Crop: Wheat, grain Acres planted: 60 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/15/2023	169.00 <i>ton</i>	Dry-weight		11.1	43,000.00	3,400.00	34,700.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	174.00	32.70	150.00	300.00
Total actual harvest content	2.82	215.35	17.03	173.78	535.86

7-31

Field name: 7-31

10/01/2013: Almond, in shell

Crop: Almond, in shell Acres planted: 45 Plant date: 10/01/2013

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	62.50 <i>ton</i>	Dry-weight		9.9	26,600.00	3,400.00	10,900.00		6.22

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	30.00	150.00	300.00
Total actual harvest content	1.39	66.57	8.51	27.28	155.67

7-32

Field name: 7-32



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7-32

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

Crop: Wheat, silage, soft dough Acres planted: 50 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 (%)
05/25/2023	975.00 ton	Dry-weight		69.7	15,300.00	2,400.00	8,500.00		7.89

	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	19.50	180.80	28.36	100.44	932.36

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/14/2023

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	1,589.00 ton	Dry-weight		66.4	9,900.00	2,900.00	10,300.00		5.50

	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	31.78	211.43	61.93	219.97	1,174.59

7-33

Field name: 7-33

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 90 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 (%)
09/25/2023	2,669.00 ton	Dry-weight		64.9	9,300.00	2,800.00	9,000.00		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	29.66	193.61	58.29	187.36	968.05

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7-34

Field name: 7-34

10/01/2013: Pistachios

Crop: Pistachios Acres planted: 70 Plant date: 10/01/2013

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	104.00 <i>ton</i>	Dry-weight		52.7	30,500.00	3,100.00	21,300.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	166.60	19.04	140.00	280.00
Total actual harvest content	1.49	42.87	4.36	29.94	150.39

7-35

Field name: 7-35

10/01/2013: Pistachios

Crop: Pistachios Acres planted: 45 Plant date: 10/01/2013

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	65.90 <i>ton</i>	Dry-weight		50.4	29,000.00	2,400.00	15,700.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	166.60	19.04	140.00	280.00
Total actual harvest content	1.46	42.13	3.49	22.81	104.60

7-36

Field name: 7-36

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7-36

10/01/2013: Pistachios

Crop: Pistachios Acres planted: 35 Plant date: 10/01/2013

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	48.50 ton	Dry-weight		50.7	21,900.00	3,400.00	20,500.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	166.60	19.04	140.00	280.00
Total actual harvest content	1.39	29.92	4.65	28.01	138.00

8-103

Field name: 8-103

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 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 (%)
10/20/2023	2,119.00 ton	Dry-weight		64.3	14,100.00	2,500.00	13,100.00		6.22

	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	27.17	273.50	48.49	254.10	1,206.49

8-104

Field name: 8-104

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8-104

11/20/2022: Wheat, grain

Crop: Wheat, grain Acres planted: 78 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/15/2023	225.00 ton	Dry-weight		11.4	44,800.00	3,600.00	33,800.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	174.00	32.70	150.00	300.00
Total actual harvest content	2.88	229.00	18.40	172.77	552.05

9-111N

Field name: 9-111N

02/01/2015: Walnuts

Crop: Walnuts Acres planted: 75 Plant date: 02/01/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	102.80 ton	Dry-weight		46.5	18,300.00	2,300.00	26,000.00		19.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	60.00	27.00	54.00	300.00
Total actual harvest content	1.37	26.84	3.37	38.13	278.66

9-111S

Field name: 9-111S

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9-111S

02/01/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 80 Plant date: 02/01/2015

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	102.50 ton	Dry-weight		10.9	19,200.00	2,500.00	18,900.00		8.21

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	195.00	30.00	150.00	300.00
Total actual harvest content	1.28	43.84	5.71	43.15	187.45

G1

Field name: G1

11/20/2022: Wheat, grain

Crop: Wheat, grain Acres planted: 90 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/15/2023	251.00 ton	Dry-weight		11.8	45,200.00	3,580.00	34,700.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	174.00	32.70	150.00	300.00
Total actual harvest content	2.79	222.37	17.61	170.71	565.75

G3

Field name: G3

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G3

01/01/2018: Pistachios

Crop: Pistachios Acres planted: 45 Plant date: 01/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	72.40 ton	Dry-weight		51.3	27,500.00	2,800.00	20,600.00		10.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	178.50	20.40	150.00	300.00
Total actual harvest content	1.61	43.09	4.39	32.28	167.68

G4

Field name: G4

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

Crop: Wheat, silage, soft dough Acres planted: 36 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 (%)
05/20/2023	733.00 ton	Dry-weight		63.3	11,800.00	1,900.00	6,600.00		8.73

	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	20.36	176.35	28.40	98.64	1,304.70

G5

Field name: G5

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G5

11/22/2022: Wheat, grain

Crop: Wheat, grain Acres planted: 75 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/15/2023	216.00 ton	Dry-weight		10.9	44,900.00	3,460.00	34,200.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	3.00	174.00	32.70	150.00	300.00
Total actual harvest content	2.88	230.43	17.76	175.52	554.27

G6

Field name: G6

11/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	689.00 ton	Dry-weight		66.4	14,300.00	2,600.00	9,600.00		7.87

	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	19.14	183.92	33.44	123.47	1,012.19

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 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 (%)
09/26/2023	1,044.00 ton	Dry-weight		66.2	11,400.00	2,800.00	9,500.00		5.19

	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	29.00	223.49	54.89	186.24	1,017.45

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**Home East**

Field name: Home East

11/14/2022: Triticale, soft dough

Crop: Triticale, soft dough Acres planted: 150 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 (%)
05/20/2023	3,206.00 <i>ton</i>	Dry-weight		69.4	15,700.00	2,400.00	9,700.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	22.00	220.00	37.40	165.00	1,500.40
Total actual harvest content	21.37	205.36	31.39	126.88	1,033.36

**M-1**

Field name: M-1

11/01/2018: Almond, in shell

Crop: Almond, in shell Acres planted: 77 Plant date: 11/01/2018

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	75.00 <i>ton</i>	Dry-weight		10.4	17,600.00	3,400.00	13,000.00		6.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.00	130.00	20.00	100.00	200.00
Total actual harvest content	0.97	30.72	5.93	22.69	112.93

**M-2**

Field name: M-2



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M-2

12/01/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 73 Plant date: 12/01/2017

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	98.00 <i>ton</i>	Dry-weight		11.1	24,700.00	3,100.00	16,800.00		7.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	28.00	140.00	280.00
Total actual harvest content	1.34	58.96	7.40	40.10	187.37

M-3

Field name: M-3

12/01/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 80 Plant date: 12/01/2017

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	106.00 <i>ton</i>	Dry-weight		10.2	25,900.00	3,800.00	12,200.00		9.46

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	28.00	140.00	280.00
Total actual harvest content	1.33	61.63	9.04	29.03	225.12

V1

Field name: V1

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V1

11/01/2013: Walnuts

Crop: WalnutsAcres planted: 40 Plant date: 11/01/2013

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	58.50 ton	Dry-weight		46.6	19,000.00	2,400.00	18,500.00		8.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	60.00	27.00	54.00	300.00
Total actual harvest content	1.46	29.68	3.75	28.90	136.51

V2

Field name: V2

11/01/2013: Walnuts

Crop: WalnutsAcres planted: 40 Plant date: 11/01/2013

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	58.50 ton	Dry-weight		35.5	23,200.00	2,900.00	10,100.00		3.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	60.00	27.00	54.00	300.00
Total actual harvest content	1.46	43.77	5.47	19.05	67.73

V3

Field name: V3

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V3

11/01/2013: Walnuts

Crop: Walnuts Acres planted: 38 Plant date: 11/01/2013

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	56.50 ton	Dry-weight		50.5	16,500.00	2,800.00	22,300.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.50	60.00	27.00	54.00	300.00
Total actual harvest content	1.49	24.29	4.12	32.83	188.41

V4

Field name: v4

12/01/2017: Almond, in shell

Crop: Almond, in shell Acres planted: 146 Plant date: 12/01/2017

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	178.00 ton	Dry-weight		12.7	20,800.00	2,500.00	17,400.00		10.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	1.40	182.00	28.00	140.00	280.00
Total actual harvest content	1.22	44.28	5.32	37.04	219.25

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## NUTRIENT BUDGET

## A. LAND APPLICATIONS

3-21N - 11/18/2022: Wheat, grain

Field name: 3-21N

Crop: Wheat, grain

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/29/2022	Pipeline	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	91.10	11.23	137.70	1,425.28	1,886,540.00 <i>gal</i>
W15	Ground water	1.28	0.00	0.00	221.25	10,465,500.00 <i>gal</i>
Application event totals		92.38	11.23	137.70	1,646.53	
01/18/2023	Pipeline	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	91.27	15.21	147.05	895.79	1,687,810.00 <i>gal</i>
W15	Ground water	1.16	0.00	0.00	199.81	9,451,510.00 <i>gal</i>
Application event totals		92.43	15.21	147.05	1,095.60	
04/04/2023	Pipeline	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	79.86	11.58	149.00	445.54	1,888,780.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	16.28	4,878,656.00 <i>gal</i>
Application event totals		79.86	11.58	149.00	461.82	

3-21N - 06/25/2023: Corn, silage

Field name: 3-21N

Crop: Corn, silage

Plant date: 06/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**3-21N - 06/25/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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	78.39	11.37	146.26	437.33	1,854,000.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	36.31	10,877,400.00 <i>gal</i>
Application event totals		78.39	11.37	146.26	473.64	
07/15/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	36.65	10,978,410.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.65	
07/27/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	36.88	11,048,789.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.88	
08/08/2023	Pipeline	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	83.85	9.11	162.71	1,156.75	1,798,650.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	35.33	10,584,700.00 <i>gal</i>
Application event totals		83.85	9.11	162.71	1,192.08	
08/21/2023	Pipeline	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	75.46	8.19	146.43	1,041.02	1,618,700.00 <i>gal</i>
W15	Ground water	1.25	0.00	0.00	216.66	10,248,700.00 <i>gal</i>
Application event totals		76.72	8.19	146.43	1,257.68	

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## 3-21N - 06/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/03/2023	Pipeline	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	56.34	6.12	109.31	777.15	1,208,400.00 gal	
W15	Ground water	1.25	0.00	0.00	215.31	10,184,840.00 gal	
Application event totals		57.58	6.12	109.31	992.46		
09/16/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.22	0.00	0.00	211.13	9,987,000.00 gal	
Application event totals		1.22	0.00	0.00	211.13		

## 3-21S - 11/19/2022: Wheat, silage, soft dough

Field name: 3-21S

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
10/30/2022	Pipeline	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	99.45	12.26	150.32	1,555.95	686,500.00 gal	
W15	Ground water	1.21	0.00	0.00	208.95	3,294,550.00 gal	
Application event totals		100.66	12.26	150.32	1,764.90		
01/14/2023	Pipeline	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	81.25	13.54	130.90	797.45	500,840.00 gal	
Lower Tule	Surface water	0.00	0.00	0.00	28.99	2,894,540.00 gal	
Application event totals		81.25	13.54	130.90	826.44		

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**3-21S - 11/19/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/02/2023	Pipeline	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	65.43	9.49	122.08	365.04	515,840.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	21.11	2,108,400.00 <i>gal</i>
Application event totals		65.43	9.49	122.08	386.15	

**3-21S - 06/14/2023: Corn, silage**

Field name: 3-21S

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/29/2023	Pipeline	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	110.19	15.98	205.59	614.74	868,700.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.53	3,348,710.00 <i>gal</i>
Application event totals		110.19	15.98	205.59	648.27	
07/04/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	40.06	4,000,880.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.06	
07/16/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	43.14	4,308,460.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	43.14	

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**3-21S - 06/14/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/29/2023	Pipeline	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	95.06	10.32	184.46	1,311.39	679,700.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	31.89	3,184,800.00 <i>gal</i>
Application event totals		95.06	10.32	184.46	1,343.28	
08/12/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	35.04	3,498,890.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.04	
08/25/2023	Pipeline	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	82.20	8.93	159.49	1,133.89	587,700.00 <i>gal</i>
W15	Ground water	1.39	0.00	0.00	240.36	3,789,800.00 <i>gal</i>
Application event totals		83.59	8.93	159.49	1,374.24	
09/07/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.27	0.00	0.00	219.09	3,454,540.00 <i>gal</i>
Application event totals		1.27	0.00	0.00	219.09	

**3-22 - 05/19/2023: Corn, silage**

Field name: 3-22

Crop: Corn, silage Plant date: 05/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3-22 - 05/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/01/2023	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	84.05	12.19	156.81	468.89	1,987,780.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.11	9,918,730.00 <i>gal</i>
Application event totals		84.05	12.19	156.81	502.00	
06/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	36.71	10,996,540.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.71	
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
Lagoon	Process wastewater	91.46	9.93	177.47	1,261.69	1,961,830.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	32.26	9,665,710.00 <i>gal</i>
Application event totals		91.46	9.93	177.47	1,293.96	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	36.38	10,899,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.38	
07/09/2023	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	83.35	9.05	161.73	1,149.79	1,787,830.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	32.41	9,710,841.00 <i>gal</i>
Application event totals		83.35	9.05	161.73	1,182.21	

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## 3-22 - 05/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/19/2023	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
Lower Tule	Surface water	0.00	0.00	0.00	35.00	10,484,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.00	
08/03/2023	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
Lower Tule	Surface water	0.00	0.00	0.00	34.01	10,187,870.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.01	

## 3-23 - 11/19/2022: Wheat, grain

Field name: 3-23

Crop: Wheat, grain

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/01/2022	Pipeline	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	91.65	11.30	138.54	1,433.94	1,518,400.00 <i>gal</i>
W15	Ground water	1.11	0.00	0.00	192.49	7,284,000.00 <i>gal</i>
Application event totals		92.77	11.30	138.54	1,626.43	
01/24/2023	Pipeline	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	87.06	14.51	140.27	854.49	1,288,000.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	29.44	7,054,884.00 <i>gal</i>
Application event totals		87.06	14.51	140.27	883.93	

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3-23 - 11/19/2022: Wheat, grain

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/29/2023	Pipeline	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	90.42	13.11	168.71	504.45	1,710,840.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	16.73	4,008,484.00 <i>gal</i>
Application event totals		90.42	13.11	168.71	521.18	

7-31 - 10/01/2013: Almond, in shell

Field name: 7-31

Crop: Almond, in shell

Plant date: 10/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/31/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.21	6,150,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.21	
04/30/2023	Pipeline	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	25.00	0.00	0.00	0.00	
Lower Tule	Surface water	0.00	0.00	0.00	34.21	6,150,000.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	34.21	
05/31/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Lower Tule	Surface water	0.00	0.00	0.00	34.21	6,150,000.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	34.21	

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**7-31 - 10/01/2013: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.21	6,150,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.21	
07/31/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.21	6,150,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.21	
08/22/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.38	6,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.38	
09/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.38	6,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.38	

**7-32 - 11/15/2022: Wheat, silage, soft dough**

Field name: 7-32

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		
10/26/2022	Pipeline	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	82.58	10.18	124.81	1,291.91	1,140,000.00 <i>gal</i>
W15	Ground water	1.22	0.00	0.00	211.04	6,655,000.00 <i>gal</i>
Application event totals		83.80	10.18	124.81	1,502.94	

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## 7-32 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/20/2023	Pipeline	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	69.31	11.55	111.67	680.31	854,540.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	27.31	5,454,000.00 <i>gal</i>
Application event totals		69.31	11.55	111.67	707.62	
03/31/2023	Pipeline	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	79.56	11.54	148.44	443.84	1,254,400.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	15.29	3,054,000.00 <i>gal</i>
Application event totals		79.56	11.54	148.44	459.13	

## 7-32 - 06/14/2023: Corn, silage

Field name: 7-32

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	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
Lagoon	Process wastewater	99.94	14.49	186.47	557.58	1,575,840.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	32.77	6,544,210.00 <i>gal</i>
Application event totals		99.94	14.49	186.47	590.34	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	40.58	8,105,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.58	

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**7-32 - 06/14/2023: 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
Lagoon	Process wastewater	91.88	13.32	171.43	512.59	1,448,700.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,787,840.00 <i>gal</i>
Application event totals		91.88	13.32	171.43	546.58	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	39.38	7,865,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	39.38	
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
Lower Tule	Surface water	0.00	0.00	0.00	35.59	7,108,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.59	
08/16/2023	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	84.51	9.18	163.98	1,165.80	1,208,480.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	30.49	6,088,700.00 <i>gal</i>
Application event totals		84.51	9.18	163.98	1,196.29	
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
Lower Tule	Surface water	0.00	0.00	0.00	30.58	6,108,440.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	30.58	

**7-33 - 06/10/2023: Corn, silage**

Field name: 7-33

Crop: Corn, silage

Plant date: 06/10/2023

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**7-33 - 06/10/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/21/2023	Pipeline	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	90.86	13.18	169.53	506.92	2,578,800.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.60	12,078,400.00 <i>gal</i>
Application event totals		90.86	13.18	169.53	540.52	
06/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	38.62	13,884,100.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.62	
07/10/2023	Pipeline	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	81.35	8.83	157.85	1,122.25	2,094,000.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	34.63	12,450,800.00 <i>gal</i>
Application event totals		81.35	8.83	157.85	1,156.88	
07/21/2023	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
Lower Tule	Surface water	0.00	0.00	0.00	37.96	13,644,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.96	
08/02/2023	Pipeline	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	75.58	8.21	146.65	1,042.61	1,945,400.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	35.85	12,887,870.00 <i>gal</i>
Application event totals		75.58	8.21	146.65	1,078.46	

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**7-33 - 06/10/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
08/14/2023	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
W15			Ground water		1.38	0.00	0.00	238.63	13,545,400.00 <i>gal</i>
Application event totals					1.38	0.00	0.00	238.63	
08/28/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15			Ground water		1.23	0.00	0.00	212.89	12,084,000.00 <i>gal</i>
Application event totals					1.23	0.00	0.00	212.89	

**7-34 - 10/01/2013: Pistachios**

Field name: 7-34

Crop: Pistachios

Plant date: 10/01/2013

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
03/30/2023	Pipeline		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule			Surface water		0.00	0.00	0.00	34.01	9,510,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	34.01	
04/29/2023	Pipeline		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		25.00	0.00	0.00	0.00	
Lower Tule			Surface water		0.00	0.00	0.00	34.01	9,510,000.00 <i>gal</i>
Application event totals					25.00	0.00	0.00	34.01	
05/30/2023	Pipeline		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule			Surface water		0.00	0.00	0.00	34.01	9,510,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	34.01	



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**7-34 - 10/01/2013: Pistachios**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/30/2023	Pipeline		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	34.01	9,510,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	34.01	
07/30/2023	Pipeline		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	34.01	9,510,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	34.01	
08/30/2023	Pipeline		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15		Ground water	1.25	0.00	0.00	215.41	9,510,000.00 <i>gal</i>
Application event totals			1.25	0.00	0.00	215.41	
09/28/2023	Pipeline		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15		Ground water	1.25	0.00	0.00	215.18	9,500,000.00 <i>gal</i>
Application event totals			1.25	0.00	0.00	215.18	

**7-35 - 10/01/2013: Pistachios**

Field name: 7-35

Crop: Pistachios

Plant date: 10/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/01/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	33.99	

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**7-35 - 10/01/2013: Pistachios**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.99		
06/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.99		
07/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.99		
08/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.99		
08/28/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	6,110,000.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.99		
10/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.25	0.00	0.00	215.28	6,110,000.00 <i>gal</i>	
Application event totals		1.25	0.00	0.00	215.28		

**7-36 - 10/01/2013: Pistachios**

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7-36 - 10/01/2013: Pistachios

Field name: 7-36

Crop: Pistachios

Plant date: 10/01/2013

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
04/20/2023	Pipeline	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	25.00	0.00	0.00	0.00		
Lower Tule		Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>	
Application event totals			25.00	0.00	0.00	40.77		
05/20/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	40.77		
06/20/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	40.77		
07/20/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	40.77		
08/15/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	40.77		

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## 7-36 - 10/01/2013: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	40.77	5,700,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.77	

## 8-103 - 06/10/2023: Corn, silage

Field name: 8-103

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/22/2023	Pipeline	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	97.52	14.14	181.95	544.06	2,398,700.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	35.65	11,108,800.00 <i>gal</i>
Application event totals		97.52	14.14	181.95	579.71	
06/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	38.48	11,988,700.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.48	
07/10/2023	Pipeline	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	98.08	10.65	190.30	1,352.95	2,187,870.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	35.36	11,017,710.00 <i>gal</i>
Application event totals		98.08	10.65	190.30	1,388.31	

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**8-103 - 06/10/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/24/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	40.25	12,540,050.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.25	
08/07/2023	Pipeline	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	88.62	9.62	171.96	1,222.56	1,977,010.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	35.26	10,987,100.00 <i>gal</i>
Application event totals		88.62	9.62	171.96	1,257.82	
08/22/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.33	0.00	0.00	229.86	11,307,820.00 <i>gal</i>
Application event totals		1.33	0.00	0.00	229.86	
09/09/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.37	0.00	0.00	236.78	11,648,400.00 <i>gal</i>
Application event totals		1.37	0.00	0.00	236.78	

**8-104 - 11/20/2022: Wheat, grain**

Field name: 8-104

Crop: Wheat, grain

Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**8-104 - 11/20/2022: Wheat, grain**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/31/2022	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	92.33	11.38	139.55	1,444.46	1,988,400.00 <i>gal</i>
W15	Ground water	1.18	0.00	0.00	202.96	9,984,500.00 <i>gal</i>
Application event totals		93.50	11.38	139.55	1,647.42	
01/22/2023	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
Lagoon	Process wastewater	97.13	16.19	156.49	953.35	1,868,100.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	31.17	9,710,805.00 <i>gal</i>
Application event totals		97.13	16.19	156.49	984.51	
04/07/2023	Surface (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	73.17	10.61	136.52	408.23	1,799,840.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	16.99	5,294,840.00 <i>gal</i>
Application event totals		73.17	10.61	136.52	425.22	

**9-111N - 02/01/2015: Walnuts**

Field name: 9-111N

Crop: Walnuts

Plant date: 02/01/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/31/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	38.13	11,423,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.13	

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9-111N - 02/01/2015: Walnuts

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
04/27/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule	Surface water	0.00	0.00	0.00	38.13	11,423,000.00 gal	
Application event totals		0.00	0.00	0.00	38.13		
05/27/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
UN32	Liquid commercial fertilizer	15.00	0.00	0.00	0.00		
Lower Tule	Surface water	0.00	0.00	0.00	38.13	11,423,000.00 gal	
Application event totals		15.00	0.00	0.00	38.13		
06/27/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.40	0.00	0.00	241.49	11,423,000.00 gal	
Application event totals		1.40	0.00	0.00	241.49		
07/27/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.40	0.00	0.00	241.49	11,423,000.00 gal	
Application event totals		1.40	0.00	0.00	241.49		
08/27/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.40	0.00	0.00	241.49	11,423,000.00 gal	
Application event totals		1.40	0.00	0.00	241.49		
10/10/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
W15	Ground water	1.40	0.00	0.00	241.49	11,423,000.00 gal	
Application event totals		1.40	0.00	0.00	241.49		

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9-111S - 02/01/2015: Almond, in shell

Field name: 9-111S

Crop: Almond, in shell

Plant date: 02/01/2015

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
04/01/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	36.97	11,813,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	36.97		
05/01/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
UN32		Liquid commercial fertilizer	25.00	0.00	0.00	0.00		
W15		Ground water	1.36	0.00	0.00	234.13	11,813,300.00 <i>gal</i>	
Application event totals			26.36	0.00	0.00	234.13		
06/01/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	36.97	11,813,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	36.97		
07/01/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	36.97	11,813,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	36.97		
08/01/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	36.97	11,813,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	36.97		



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## 9-111S - 02/01/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/26/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.36	0.00	0.00	234.13	11,813,300.00 <i>gal</i>
Application event totals		1.36	0.00	0.00	234.13	
09/26/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.36	0.00	0.00	234.13	11,813,300.00 <i>gal</i>
Application event totals		1.36	0.00	0.00	234.13	

## G1 - 11/20/2022: Wheat, grain

Field name: G1

Crop: Wheat, grain

Plant date: 11/20/2022

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
Dry Manure	Corral solids	171.47	67.55	161.08	0.00	450.00 <i>ton</i>
Application event totals		171.47	67.55	161.08	0.00	
10/30/2022	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.23	0.00	0.00	212.89	12,084,400.00 <i>gal</i>
Application event totals		1.23	0.00	0.00	212.89	
01/14/2023	Pipeline	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	83.17	13.86	134.00	816.30	1,845,650.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.04	11,876,650.00 <i>gal</i>
Application event totals		83.17	13.86	134.00	849.34	

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**G1 - 11/20/2022: Wheat, grain**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/10/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	25.26	9,079,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.26	

**G3 - 01/01/2018: Pistachios**

Field name: G3

Crop: Pistachios

Plant date: 01/01/2018

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
04/03/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	33.56		
05/03/2023	Pipeline	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		
Lower Tule		Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>	
Application event totals			30.00	0.00	0.00	33.56		
06/03/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	33.56		
07/03/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Lower Tule		Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	33.56		

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**G3 - 01/01/2018: Pistachios**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/25/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.56	
08/17/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.56	
10/01/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.56	6,031,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.56	

**G4 - 11/17/2022: Wheat, silage, soft dough**

Field name: G4

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		
10/28/2022	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	76.34	9.41	115.38	1,194.30	758,784.00 <i>gal</i>
W15	Ground water	1.17	0.00	0.00	201.89	4,584,000.00 <i>gal</i>
Application event totals		77.51	9.41	115.38	1,396.19	

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**G4 - 11/17/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	78.62	13.10	126.67	771.69	697,910.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	28.57	4,108,400.00 <i>gal</i>
Application event totals		78.62	13.10	126.67	800.26	
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
Lagoon	Process wastewater	70.60	10.24	131.72	393.86	801,454.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	20.77	2,987,400.00 <i>gal</i>
Application event totals		70.60	10.24	131.72	414.63	

**G5 - 11/22/2022: Wheat, grain**

Field name: G5

Crop: Wheat, grain

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
11/02/2022	Pipeline	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	97.48	12.02	147.35	1,525.13	2,018,700.00 <i>gal</i>
W15		Ground water	1.23	0.00	0.00	213.08	10,078,940.00 <i>gal</i>
Application event totals			98.72	12.02	147.35	1,738.20	
01/29/2023	Pipeline	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	98.09	16.35	158.04	962.77	1,814,000.00 <i>gal</i>
Lower Tule		Surface water	0.00	0.00	0.00	31.60	9,467,800.00 <i>gal</i>
Application event totals			98.09	16.35	158.04	994.37	

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**G5 - 11/22/2022: Wheat, grain**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/15/2023	Pipeline	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	75.59	10.96	141.04	421.73	1,787,878.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	23.33	6,988,400.00 <i>gal</i>
Application event totals		75.59	10.96	141.04	445.06	

**G6 - 11/20/2022: Wheat, silage, soft dough**

Field name: G6

Crop: Wheat, silage, soft dough Plant date: 11/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/26/2022	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
Dry Manure	Corral solids	171.47	67.55	161.08	0.00	180.00 <i>ton</i>
Application event totals		171.47	67.55	161.08	0.00	
11/01/2022	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
W15	Ground water	1.24	0.00	0.00	214.87	4,878,700.00 <i>gal</i>
Application event totals		1.24	0.00	0.00	214.87	
01/16/2023	Pipeline	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	69.97	11.66	112.72	686.70	621,050.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	28.57	4,108,440.00 <i>gal</i>
Application event totals		69.97	11.66	112.72	715.27	

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G6 - 11/20/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/06/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	25.44	3,658,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	25.44	

G6 - 06/09/2023: Corn, silage

Field name: G6

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/24/2023	Surface (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	104.68	15.18	195.31	584.01	1,188,400.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	27.68	3,980,840.00 <i>gal</i>
Application event totals		104.68	15.18	195.31	611.70	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.07	4,898,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.07	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.55	4,968,411.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.55	

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**G6 - 06/09/2023: 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
Lagoon	Process wastewater	96.62	10.49	187.48	1,332.88	994,810.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	33.30	4,788,848.00 <i>gal</i>
Application event totals		96.62	10.49	187.48	1,366.18	
07/31/2023	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
Lower Tule	Surface water	0.00	0.00	0.00	32.60	4,688,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	32.60	
08/13/2023	Surface (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	77.60	8.43	150.57	1,070.50	798,980.00 <i>gal</i>
Lower Tule	Surface water	0.00	0.00	0.00	29.66	4,264,400.00 <i>gal</i>
Application event totals		77.60	8.43	150.57	1,100.16	
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
W15	Ground water	1.14	0.00	0.00	196.80	4,468,400.00 <i>gal</i>
Application event totals		1.14	0.00	0.00	196.80	

**Home East - 11/14/2022: Triticale, soft dough**

Field name: Home East

Crop: Triticale, 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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**Home East - 11/14/2022: Triticale, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/26/2022	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
Lower Tule	Surface water	0.00	0.00	0.00	36.46	21,846,644.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.46	
10/24/2022	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	240.06	94.57	225.51	0.00	1,050.00 <i>ton</i>
Application event totals		240.06	94.57	225.51	0.00	
02/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.69	20,187,840.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.69	

**M-1 - 11/01/2018: Almond, in shell**

Field name: M-1

Crop: Almond, in shell

Plant date: 11/01/2018

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	Pipeline		No precipitation	No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	
05/01/2023	Pipeline		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	25.00	0.00	0.00	0.00	
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			25.00	0.00	0.00	33.98	



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**M-1 - 11/01/2018: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
06/01/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	
07/01/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	
08/01/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	
09/01/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	
10/01/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule		Surface water	0.00	0.00	0.00	33.98	10,450,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.98	

**M-2 - 12/01/2017: Almond, in shell**

Field name: M-2

Crop: Almond, in shell

Plant date: 12/01/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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M-2 - 12/01/2017: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/15/2023	Pipeline	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	25.00	0.00	0.00	0.00	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	33.99	
05/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.99	
06/10/2023	Pipeline	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	25.00	0.00	0.00	0.00	
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	33.99	
06/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.99	
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.99	
08/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.99	

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**M-2 - 12/01/2017: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.99	9,910,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.99	

**M-3 - 12/01/2017: Almond, in shell**

Field name: M-3

Crop: Almond, in shell

Plant date: 12/01/2017

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
04/25/2023	Pipeline		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	25.00	0.00	0.00	0.00	
Lower Tule			Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals				25.00	0.00	0.00	34.11	
05/25/2023	Pipeline		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	25.00	0.00	0.00	0.00	
Lower Tule			Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals				25.00	0.00	0.00	34.11	
06/25/2023	Pipeline		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule			Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	34.11	

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**M-3 - 12/01/2017: Almond, in shell**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.11	
07/29/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.11	
08/15/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	34.11	10,900,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.11	
10/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lower Tule	Surface water	0.00	0.00	0.00	33.48	10,700,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	33.48	

**V1 - 11/01/2013: Walnuts**

Field name: V1

Crop: Walnuts

Plant date: 11/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/30/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	25.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	43.18	6,899,700.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	43.18	

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**V1 - 11/01/2013: Walnuts**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
04/30/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	41.31	6,599,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	41.31		
05/28/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	41.36	6,608,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	41.36		
06/22/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	41.31	6,599,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	41.31		
07/16/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	41.31	6,599,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	41.31		
08/16/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	41.31	6,599,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	41.31		
10/08/2023	Pipeline	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID		Surface water	0.00	0.00	0.00	38.86	6,208,300.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	38.86		

**V2 - 11/01/2013: Walnuts**

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V2 - 11/01/2013: Walnuts

Field name: V2

Crop: Walnuts

Plant date: 11/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/04/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	20.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals		20.00	0.00	0.00	40.90	
05/05/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.90	
06/04/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.90	
07/01/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.90	
07/22/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.90	

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**V2 - 11/01/2013: Walnuts**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/14/2023	Pipeline		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID			Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	40.90	
10/07/2023	Pipeline		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID			Surface water	0.00	0.00	0.00	40.90	6,534,600.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	40.90	

**V3 - 11/01/2013: Walnuts**

Field name: V3

Crop: Walnuts

Plant date: 11/01/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/06/2023	Pipeline	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	15.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		15.00	0.00	0.00	36.54	
05/06/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	
06/05/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	

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**V3 - 11/01/2013: Walnuts**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/03/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	
07/23/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	
08/14/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	
10/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Tulare ID	Surface water	0.00	0.00	0.00	36.54	5,546,344.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.54	

**V4 - 12/01/2017: Almond, in shell**

Field name: V4

Crop: Almond, in shell

Plant date: 12/01/2017

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/10/2023	Pipeline	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	25.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>
Application event totals		25.00	0.00	0.00	33.76	



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V4 - 12/01/2017: Almond, in shell

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/10/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		
06/10/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		
07/10/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		
08/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		
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	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		
10/01/2023	Pipeline	No precipitation		No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Tulare ID	Surface water	0.00	0.00	0.00	33.76	19,690,200.00 <i>gal</i>	
Application event totals		0.00	0.00	0.00	33.76		

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

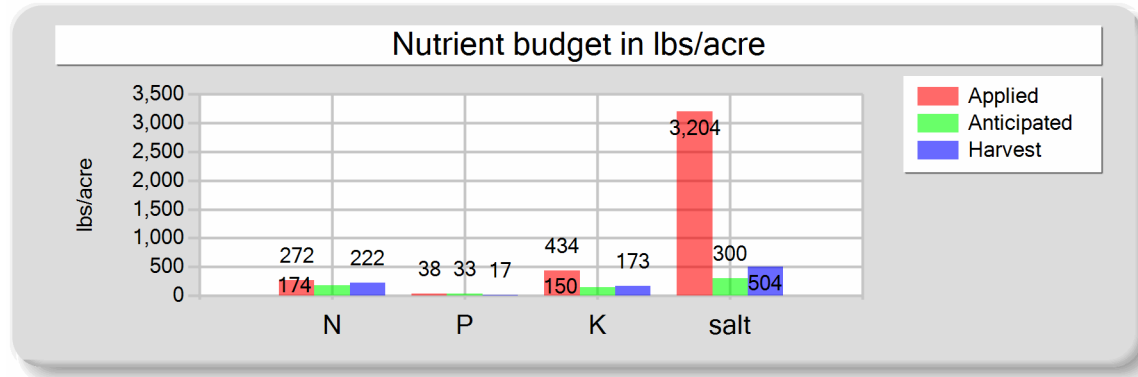
## B. NUTRIENT BUDGET

3-21N - 11/18/2022: Wheat, grain

Field name: 3-21N

Crop: Wheat, grain

Plant date: 11/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	24,795,666.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	913.14 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.18 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	262.23	38.02	433.75	2,766.61	Process wastewater applied
Fresh water	2.44	0.00	0.00	437.34	5,463,130.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	201.19 acre-inches
Total nutrients applied	271.67	38.02	433.75	3,203.95	2.68 inches/acre
Anticipated crop nutrient removal	174.00	32.70	150.00	300.00	
Actual crop nutrient removal	222.21	17.28	172.83	503.67	Total harvests for the crop
Nutrient balance	49.46	20.74	260.92	2,700.28	1 harvests
Applied to removed ratio	1.22	2.20	2.51	6.36	

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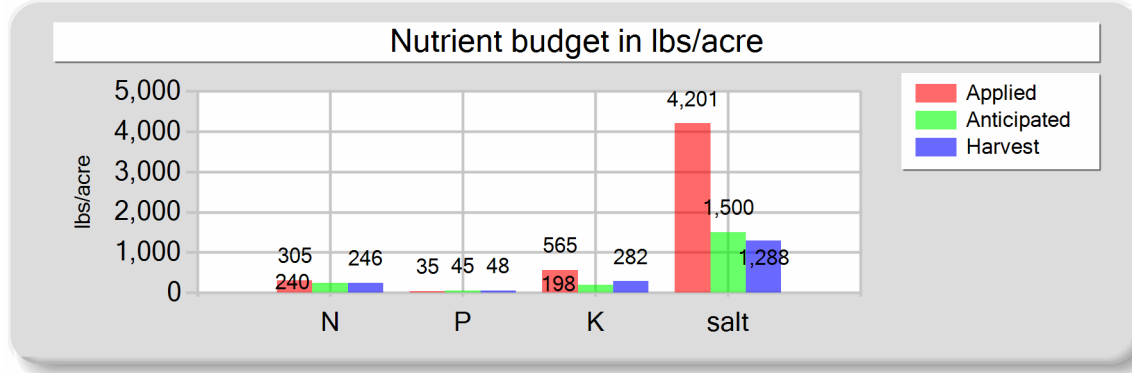
Reporting period 01/01/2023 to 12/31/2023.

3-21N - 06/25/2023: Corn, silage

Field name: 3-21N

Crop: Corn, silage

Plant date: 06/25/2023



	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	294.05	34.78	564.70	3,412.25
Fresh water	3.72	0.00	0.00	788.28
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>304.77</b>	<b>34.78</b>	<b>564.70</b>	<b>4,200.53</b>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	245.68	47.98	282.15	1,287.91
<b>Nutrient balance</b>	<b>59.09</b>	<b>-13.20</b>	<b>282.55</b>	<b>2,912.62</b>
Applied to removed ratio	1.24	0.72	2.00	3.26

Fresh water applied
73,909,839.00 <i>gallons</i>
2,721.85 <i>acre-inches</i>
36.29 <i>inches/acre</i>

Process wastewater applied
6,479,750.00 <i>gallons</i>
238.63 <i>acre-inches</i>
3.18 <i>inches/acre</i>

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

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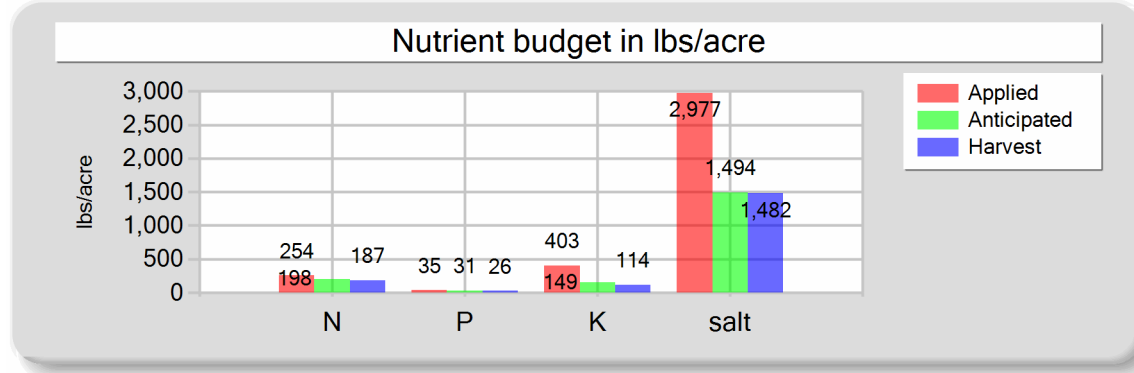
Reporting period 01/01/2023 to 12/31/2023.

3-21S - 11/19/2022: Wheat, silage, soft dough

Field name: 3-21S

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022



	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	246.13	35.29	403.31	2,718.44
Fresh water	1.21	0.00	0.00	259.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	254.34	35.29	403.31	2,977.49
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	186.68	25.65	114.00	1,482.00
Nutrient balance	67.67	9.64	289.31	1,495.49
Applied to removed ratio	1.36	1.38	3.54	2.01

Fresh water applied
8,297,490.00 gallons
305.57 acre-inches
12.22 inches/acre

Process wastewater applied
1,703,180.00 gallons
62.72 acre-inches
2.51 inches/acre

Total harvests for the crop
1 harvests

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

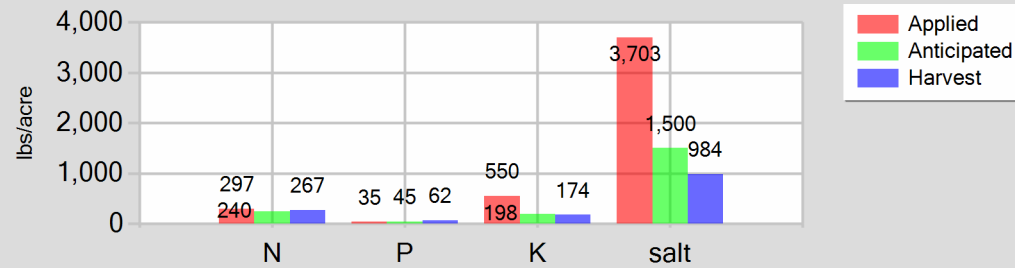
3-21S - 06/14/2023: Corn, silage

Field name: 3-21S

Crop: Corn, silage

Plant date: 06/14/2023

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	0.00	0.00	0.00	0.00
Process wastewater	287.45	35.23	549.54	3,060.02
Fresh water	2.66	0.00	0.00	643.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	297.11	35.23	549.54	3,703.14
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	266.75	62.04	173.70	984.29
Nutrient balance	30.36	-26.81	375.84	2,718.85
Applied to removed ratio	1.11	0.57	3.16	3.76

Fresh water applied
25,586,080.00 gallons
942.25 acre-inches
37.69 inches/acre
Process wastewater applied
2,136,100.00 gallons
78.67 acre-inches
3.15 inches/acre
Total harvests for the crop
1 harvests

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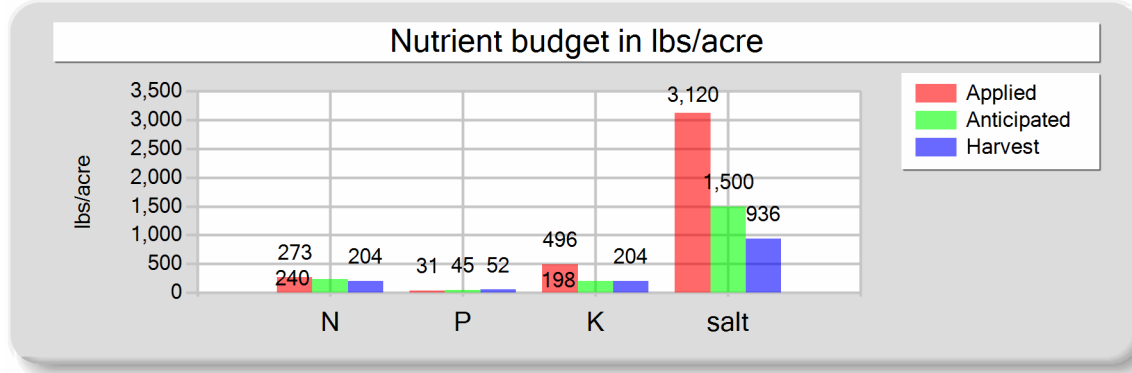
Reporting period 01/01/2023 to 12/31/2023.

3-22 - 05/19/2023: Corn, silage

Field name: 3-22

Crop: Corn, silage

Plant date: 05/19/2023



	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	258.86	31.17	496.01	2,880.37
Fresh water	0.00	0.00	0.00	239.88
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	272.86	31.17	496.01	3,120.26
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	203.52	52.19	203.52	935.86
Nutrient balance	69.33	-21.02	292.48	2,184.39
Applied to removed ratio	1.34	0.60	2.44	3.33

Fresh water applied
71,863,891.00 gallons
2,646.50 acre-inches
35.29 inches/acre

Process wastewater applied
5,737,440.00 gallons
211.29 acre-inches
2.82 inches/acre

Total harvests for the crop
1 harvests

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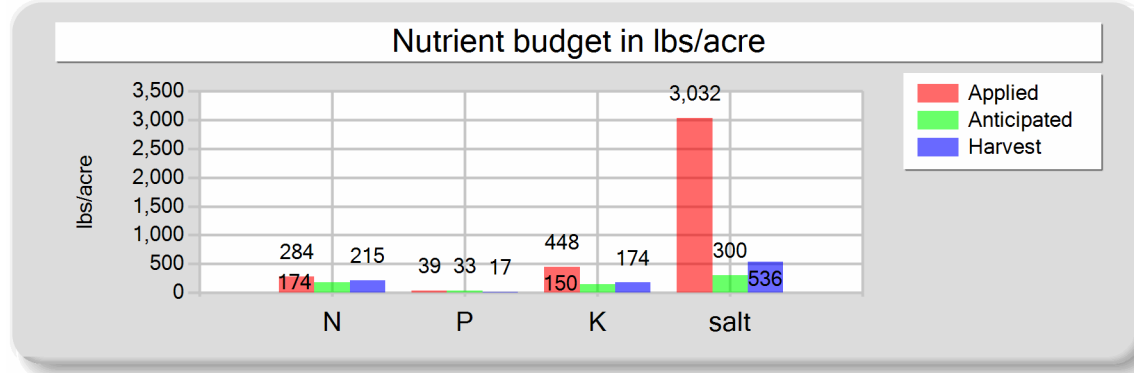
Reporting period 01/01/2023 to 12/31/2023.

3-23 - 11/19/2022: Wheat, grain

Field name: 3-23

Crop: Wheat, grain

Plant date: 11/19/2022



	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	269.14	38.92	447.51	2,792.89
Fresh water	1.11	0.00	0.00	238.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	284.25	38.92	447.51	3,031.54
Anticipated crop nutrient removal	174.00	32.70	150.00	300.00
Actual crop nutrient removal	215.35	17.03	173.78	535.86
Nutrient balance	68.91	21.89	273.73	2,495.68
Applied to removed ratio	1.32	2.29	2.58	5.66

Fresh water applied
18,347,368.00 gallons
675.67 acre-inches
11.26 inches/acre

Process wastewater applied
4,517,240.00 gallons
166.35 acre-inches
2.77 inches/acre

Total harvests for the crop
1 harvests

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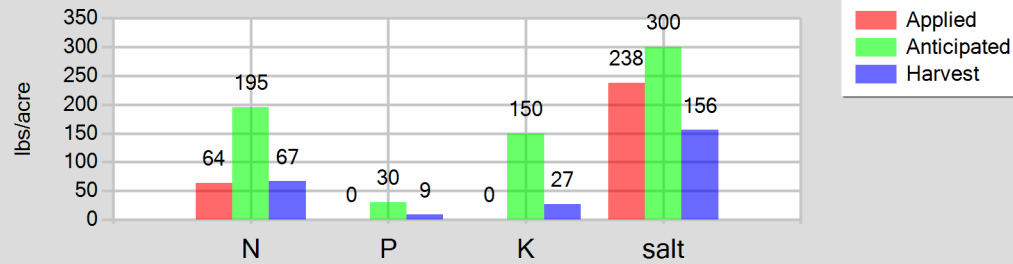
7-31 - 10/01/2013: Almond, in shell

Field name: 7-31

Crop: Almond, in shell

Plant date: 10/01/2013

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	50.00	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	237.83
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	64.00	0.00	0.00	237.83
Anticipated crop nutrient removal	195.00	30.00	150.00	300.00
Actual crop nutrient removal	66.57	8.51	27.28	155.67
Nutrient balance	-2.57	-8.51	-27.28	82.16
Applied to removed ratio	0.96	0.00	0.00	1.53

Fresh water applied
42,750,000.00 gallons
1,574.34 acre-inches
34.99 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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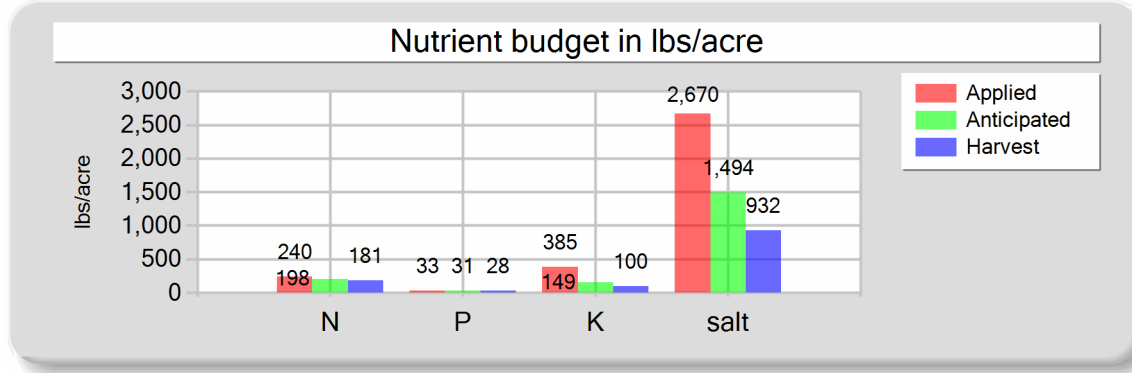
Reporting period 01/01/2023 to 12/31/2023.

7-32 - 11/15/2022: Wheat, silage, soft dough

Field name: 7-32

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	231.45	33.27	384.92	2,416.06
Fresh water	1.22	0.00	0.00	253.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.67	33.27	384.92	2,669.69
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	180.80	28.36	100.44	932.36
Nutrient balance	58.87	4.91	284.48	1,737.33
Applied to removed ratio	1.33	1.17	3.83	2.86

Fresh water applied
15,163,000.00 <i>gallons</i>
558.40 <i>acre-inches</i>
11.17 <i>inches/acre</i>

Process wastewater applied
3,248,940.00 <i>gallons</i>
119.65 <i>acre-inches</i>
2.39 <i>inches/acre</i>

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

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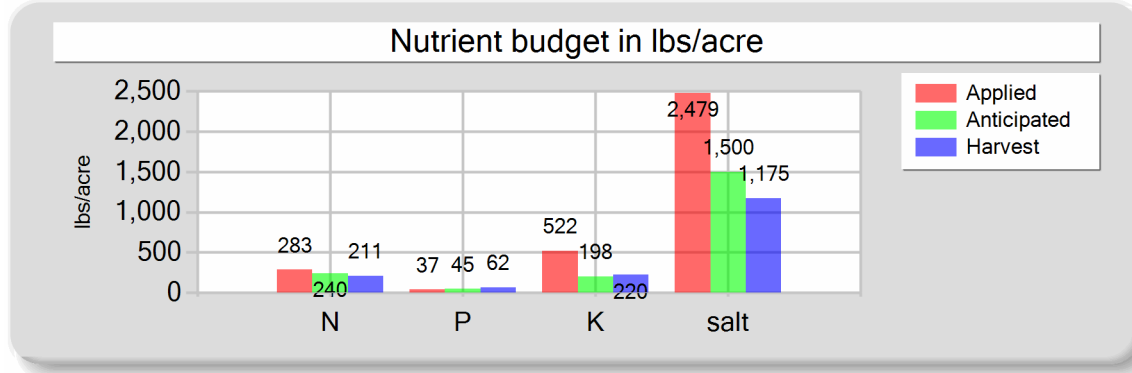
Reporting period 01/01/2023 to 12/31/2023.

7-32 - 06/14/2023: Corn, silage

Field name: 7-32

Crop: Corn, silage

Plant date: 06/14/2023



	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	276.33	36.99	521.88	2,235.97
Fresh water	0.00	0.00	0.00	243.38
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>283.33</b>	<b>36.99</b>	<b>521.88</b>	<b>2,479.35</b>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	211.43	61.93	219.97	1,174.59
<b>Nutrient balance</b>	<b>71.91</b>	<b>-24.94</b>	<b>301.91</b>	<b>1,304.76</b>
Applied to removed ratio	1.34	0.60	2.37	2.11

Fresh water applied
48,608,470.00 <i>gallons</i>
1,790.08 <i>acre-inches</i>
35.80 <i>inches/acre</i>

Process wastewater applied
4,233,020.00 <i>gallons</i>
155.89 <i>acre-inches</i>
3.12 <i>inches/acre</i>

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

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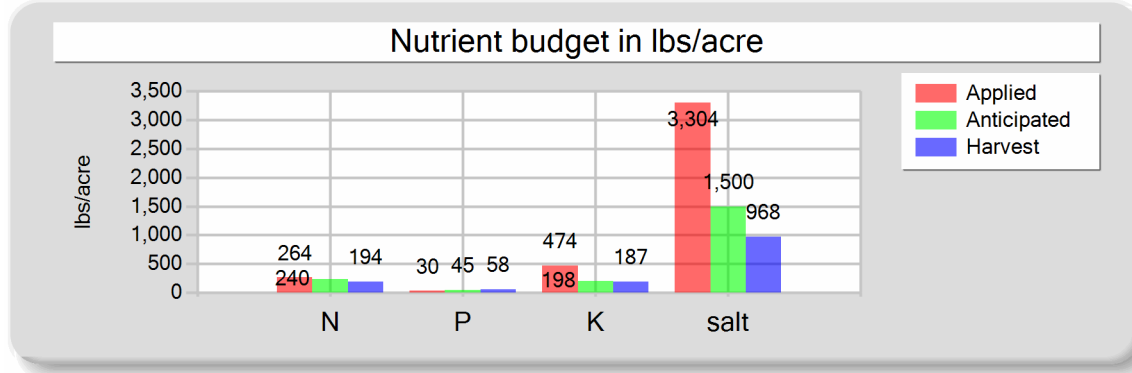
Reporting period 01/01/2023 to 12/31/2023.

7-33 - 06/10/2023: Corn, silage

Field name: 7-33

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	247.80	30.22	474.03	2,671.77
Fresh water	2.61	0.00	0.00	632.18
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	264.41	30.22	474.03	3,303.95
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	193.61	58.29	187.36	968.05
Nutrient balance	70.80	-28.07	286.67	2,335.90
Applied to removed ratio	1.37	0.52	2.53	3.41

Fresh water applied
90,575,410.00 gallons
3,335.58 acre-inches
37.06 inches/acre

Process wastewater applied
6,618,200.00 gallons
243.73 acre-inches
2.71 inches/acre

Total harvests for the crop
1 harvests

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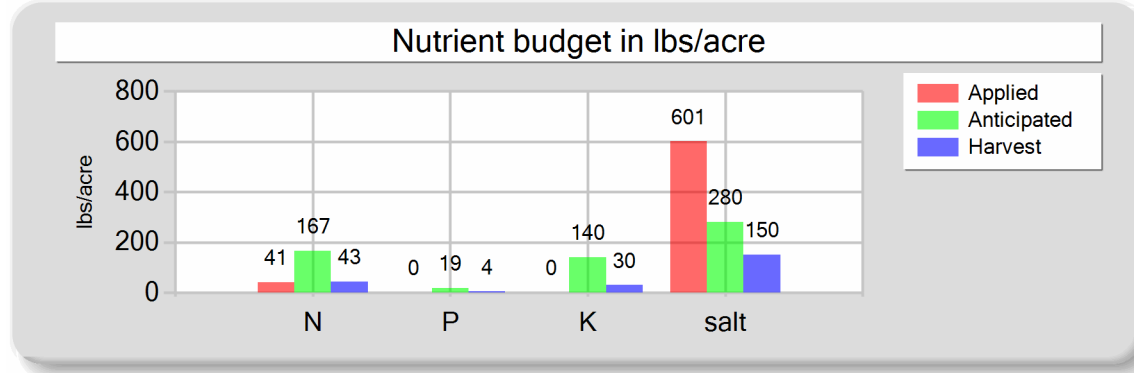
Reporting period 01/01/2023 to 12/31/2023.

7-34 - 10/01/2013: Pistachios

Field name: 7-34

Crop: Pistachios

Plant date: 10/01/2013



	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	25.00	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	2.49	0.00	0.00	600.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	41.49	0.00	0.00	600.65
Anticipated crop nutrient removal	166.60	19.04	140.00	280.00
Actual crop nutrient removal	42.87	4.36	29.94	150.39
Nutrient balance	-1.37	-4.36	-29.94	450.26
Applied to removed ratio	0.97	0.00	0.00	3.99

Fresh water applied
66,560,000.00 gallons
2,451.18 acre-inches
35.02 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.

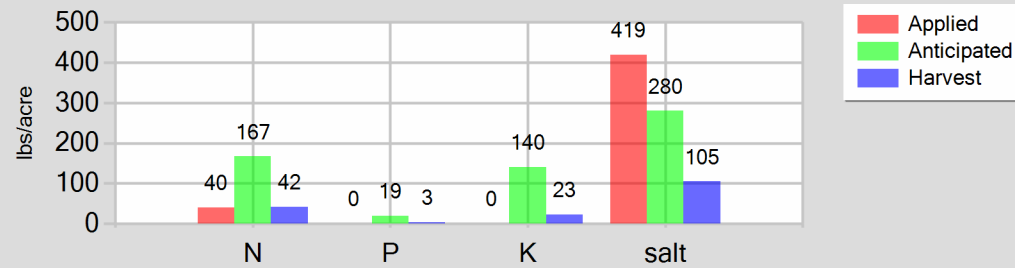
7-35 - 10/01/2013: Pistachios

Field name: 7-35

Crop: Pistachios

Plant date: 10/01/2013

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	25.00	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	1.25	0.00	0.00	419.23
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	40.25	0.00	0.00	419.23
Anticipated crop nutrient removal	166.60	19.04	140.00	280.00
Actual crop nutrient removal	42.13	3.49	22.81	104.60
Nutrient balance	-1.88	-3.49	-22.81	314.64
Applied to removed ratio	0.96	0.00	0.00	4.01

Fresh water applied
42,770,000.00 gallons
1,575.07 acre-inches
35.00 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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

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

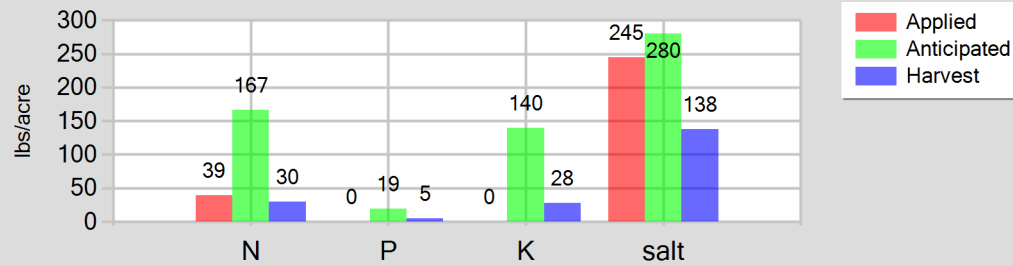
7-36 - 10/01/2013: Pistachios

Field name: 7-36

Crop: Pistachios

Plant date: 10/01/2013

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	25.00	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	244.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	39.00	0.00	0.00	244.63
Anticipated crop nutrient removal	166.60	19.04	140.00	280.00
Actual crop nutrient removal	29.92	4.65	28.01	138.00
Nutrient balance	9.08	-4.65	-28.01	106.63
Applied to removed ratio	1.30	0.00	0.00	1.77

Fresh water applied
34,200,000.00 gallons
1,259.47 acre-inches
35.98 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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

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

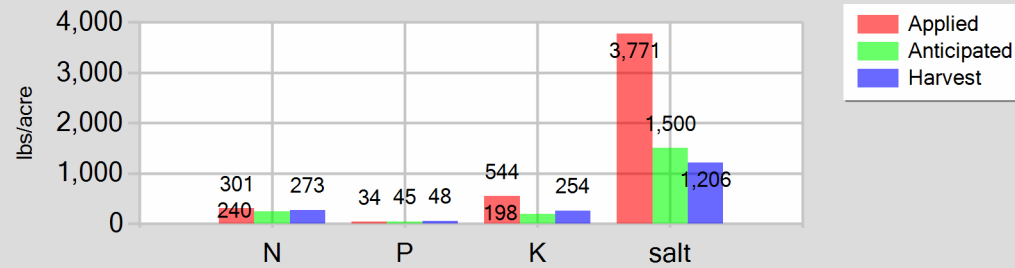
8-103 - 06/10/2023: Corn, silage

Field name: 8-103

Crop: Corn, silage

Plant date: 06/10/2023

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	0.00	0.00	0.00	0.00
Process wastewater	284.22	34.41	544.21	3,119.56
Fresh water	2.70	0.00	0.00	651.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	300.92	34.41	544.21	3,771.21
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	273.50	48.49	254.10	1,206.49
Nutrient balance	27.43	-14.08	290.11	2,564.72
Applied to removed ratio	1.10	0.71	2.14	3.13

Fresh water applied
80,598,580.00 gallons
2,968.17 acre-inches
38.05 inches/acre
Process wastewater applied
6,563,580.00 gallons
241.71 acre-inches
3.10 inches/acre
Total harvests for the crop
1 harvests

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

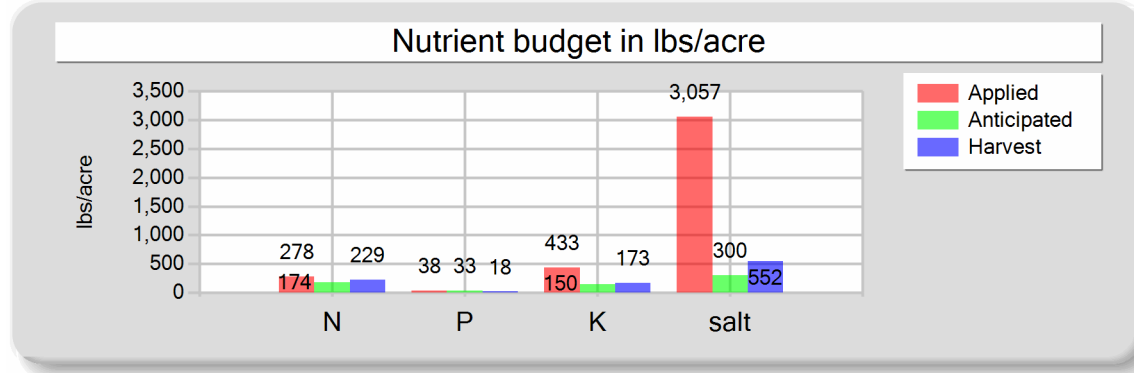
Reporting period 01/01/2023 to 12/31/2023.

8-104 - 11/20/2022: Wheat, grain

Field name: 8-104

Crop: Wheat, grain

Plant date: 11/20/2022



	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	24,990,145.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	920.30 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.80 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	262.63	38.18	432.57	2,806.03	
Fresh water	1.18	0.00	0.00	251.12	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	277.81	38.18	432.57	3,057.15	
Anticipated crop nutrient removal	174.00	32.70	150.00	300.00	
Actual crop nutrient removal	229.00	18.40	172.77	552.05	
Nutrient balance	48.81	19.78	259.80	2,505.11	
Applied to removed ratio	1.21	2.07	2.50	5.54	
					Process wastewater applied
					5,656,340.00 <i>gallons</i>
					208.30 <i>acre-inches</i>
					2.67 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>



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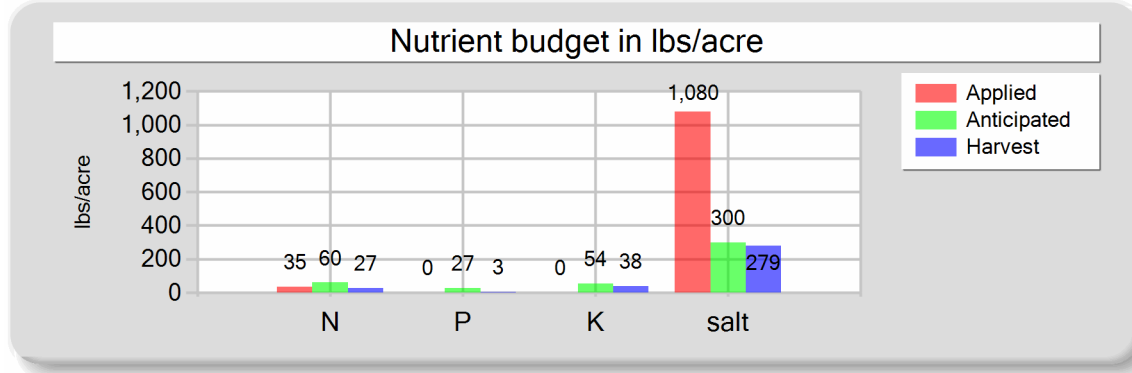
Reporting period 01/01/2023 to 12/31/2023.

9-111N - 02/01/2015: Walnuts

Field name: 9-111N

Crop: Walnuts

Plant date: 02/01/2015



	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	15.00	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	5.59	0.00	0.00	1,080.35
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	34.59	0.00	0.00	1,080.35
Anticipated crop nutrient removal	60.00	27.00	54.00	300.00
Actual crop nutrient removal	26.84	3.37	38.13	278.66
Nutrient balance	7.75	-3.37	-38.13	801.69
Applied to removed ratio	1.29	0.00	0.00	3.88

Fresh water applied
79,961,000.00 gallons
2,944.69 acre-inches
39.26 inches/acre

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

Total harvests for the crop
1 harvests

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

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

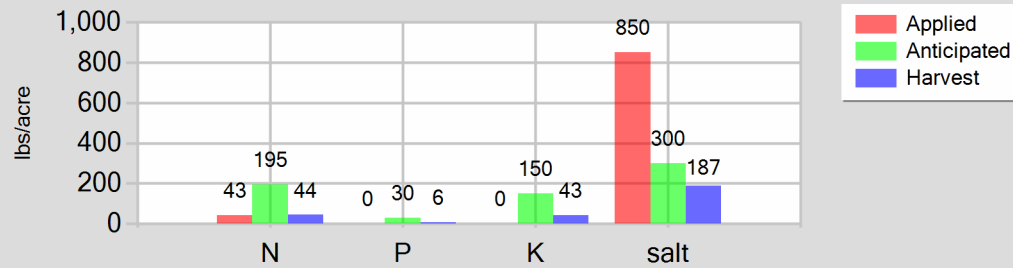
9-111S - 02/01/2015: Almond, in shell

Field name: 9-111S

Crop: Almond, in shell

Plant date: 02/01/2015

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	25.00	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	4.07	0.00	0.00	850.27
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	43.07	0.00	0.00	850.27
Anticipated crop nutrient removal	195.00	30.00	150.00	300.00
Actual crop nutrient removal	43.84	5.71	43.15	187.45
Nutrient balance	-0.77	-5.71	-43.15	662.82
Applied to removed ratio	0.98	0.00	0.00	4.54

Fresh water applied
82,693,100.00 gallons
3,045.31 acre-inches
38.07 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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

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

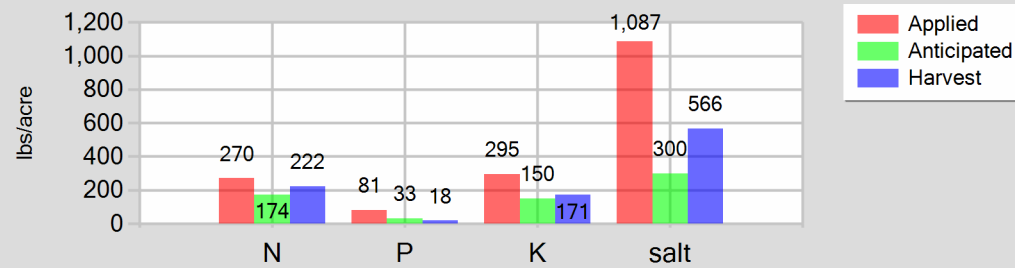
G1 - 11/20/2022: Wheat, grain

Field name: G1

Crop: Wheat, grain

Plant date: 11/20/2022

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	171.47	67.55	161.08	0.00
Process wastewater	83.17	13.86	134.00	816.30
Fresh water	1.23	0.00	0.00	271.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	269.87	81.41	295.07	1,087.49
Anticipated crop nutrient removal	174.00	32.70	150.00	300.00
Actual crop nutrient removal	222.37	17.61	170.71	565.75
Nutrient balance	47.51	63.80	124.36	521.74
Applied to removed ratio	1.21	4.62	1.73	1.92

Fresh water applied
33,040,450.00 <i>gallons</i>
1,216.77 <i>acre-inches</i>
13.52 <i>inches/acre</i>
Process wastewater applied
1,845,650.00 <i>gallons</i>
67.97 <i>acre-inches</i>
0.76 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

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

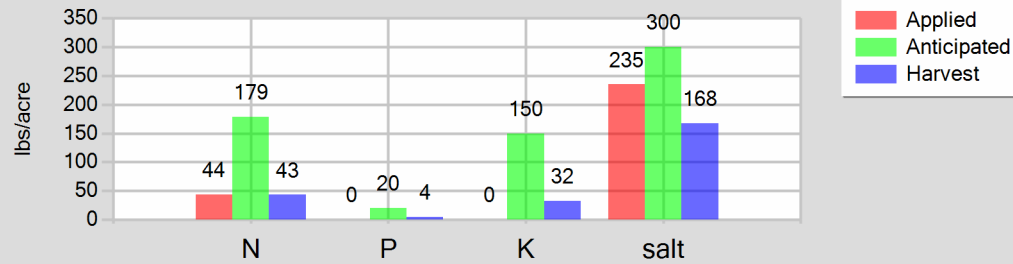
G3 - 01/01/2018: Pistachios

Field name: G3

Crop: Pistachios

Plant date: 01/01/2018

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	30.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	234.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	44.00	0.00	0.00	234.90
Anticipated crop nutrient removal	178.50	20.40	150.00	300.00
Actual crop nutrient removal	43.09	4.39	32.28	167.68
Nutrient balance	0.91	-4.39	-32.28	67.22
Applied to removed ratio	1.02	0.00	0.00	1.40

Fresh water applied
42,222,600.00 gallons
1,554.91 acre-inches
34.55 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

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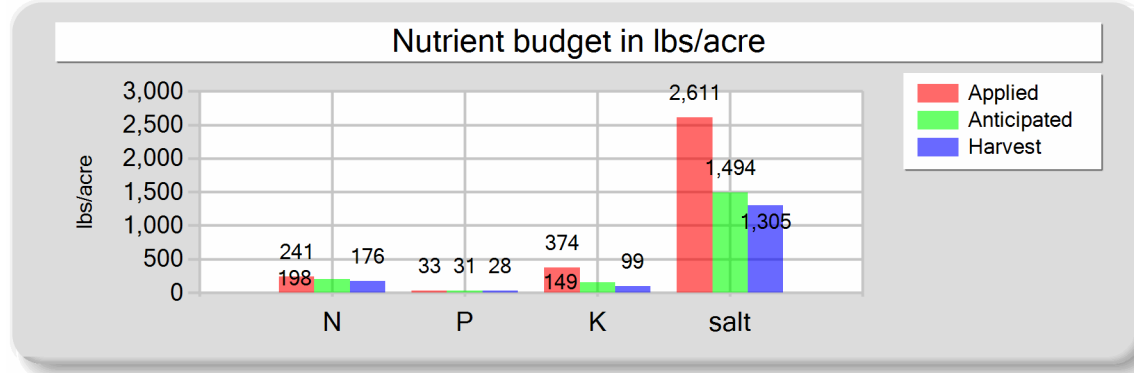
Reporting period 01/01/2023 to 12/31/2023.

G4 - 11/17/2022: Wheat, silage, soft dough

Field name: G4

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	225.56	32.75	373.78	2,359.84
Fresh water	1.17	0.00	0.00	251.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	240.73	32.75	373.78	2,611.08
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	176.35	28.40	98.64	1,304.70
Nutrient balance	64.38	4.36	275.14	1,306.38
Applied to removed ratio	1.37	1.15	3.79	2.00

Fresh water applied
11,679,800.00 <i>gallons</i>
430.13 <i>acre-inches</i>
11.95 <i>inches/acre</i>

Process wastewater applied
2,258,148.00 <i>gallons</i>
83.16 <i>acre-inches</i>
2.31 <i>inches/acre</i>

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

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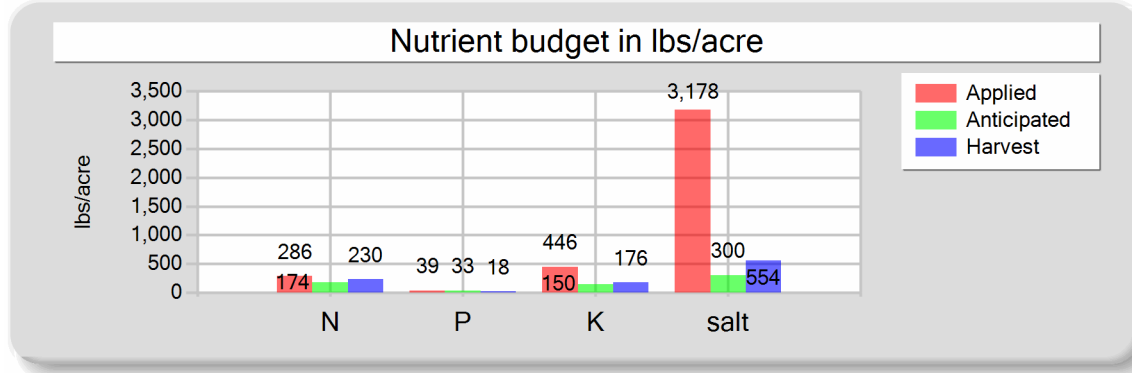
Reporting period 01/01/2023 to 12/31/2023.

G5 - 11/22/2022: Wheat, grain

Field name: G5

Crop: Wheat, grain

Plant date: 11/22/2022



	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	26,535,140.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	977.20 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.03 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	271.17	39.33	446.43	2,909.63	Process wastewater applied
Fresh water	1.23	0.00	0.00	268.01	5,620,578.00 <i>gallons</i>
Atmospheric deposition	14.00	0.00	0.00	0.00	206.99 <i>acre-inches</i>
Total nutrients applied	286.40	39.33	446.43	3,177.64	2.76 <i>inches/acre</i>
Anticipated crop nutrient removal	174.00	32.70	150.00	300.00	
Actual crop nutrient removal	230.43	17.76	175.52	554.27	Total harvests for the crop
Nutrient balance	55.97	21.57	270.91	2,623.36	1 <i>harvests</i>
Applied to removed ratio	1.24	2.21	2.54	5.73	

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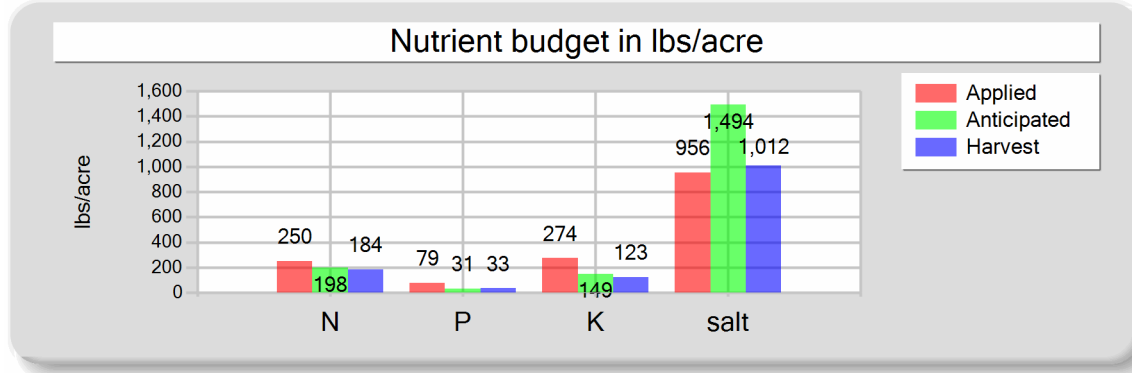
Reporting period 01/01/2023 to 12/31/2023.

G6 - 11/20/2022: Wheat, silage, soft dough

Field name: G6

Crop: Wheat, silage, soft dough

Plant date: 11/20/2022



	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	171.47	67.55	161.08	0.00
Process wastewater	69.97	11.66	112.72	686.70
Fresh water	1.24	0.00	0.00	268.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	249.68	79.21	273.80	955.59
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	183.92	33.44	123.47	1,012.19
Nutrient balance	65.76	45.77	150.33	-56.60
Applied to removed ratio	1.36	2.37	2.22	0.94

Fresh water applied
12,645,540.00 <i>gallons</i>
465.69 <i>acre-inches</i>
12.94 <i>inches/acre</i>

Process wastewater applied
621,050.00 <i>gallons</i>
22.87 <i>acre-inches</i>
0.64 <i>inches/acre</i>

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

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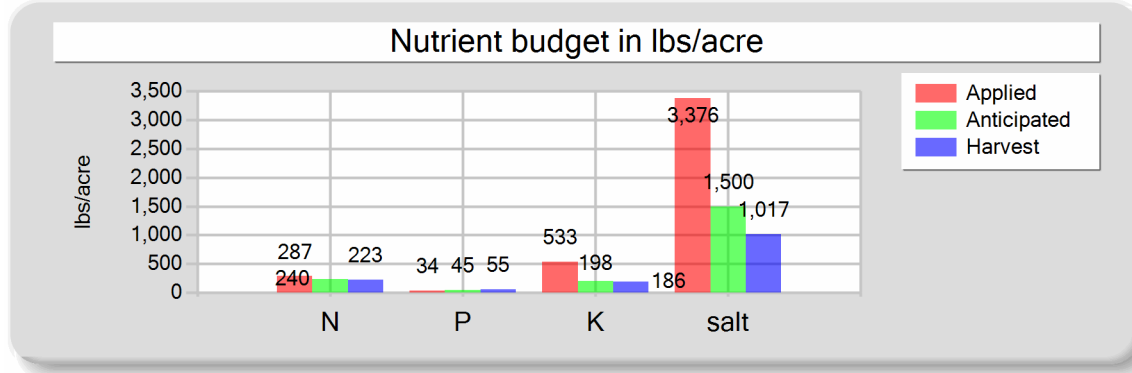
Reporting period 01/01/2023 to 12/31/2023.

G6 - 06/09/2023: Corn, silage

Field name: G6

Crop: Corn, silage

Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	32,058,139.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,180.59 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.79 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	278.91	34.10	533.37	2,987.40	Process wastewater applied
Fresh water	1.14	0.00	0.00	388.67	2,982,190.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	109.82 <i>acre-inches</i>
Total nutrients applied	287.05	34.10	533.37	3,376.06	3.05 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00	
Actual crop nutrient removal	223.49	54.89	186.24	1,017.45	Total harvests for the crop
Nutrient balance	63.56	-20.79	347.13	2,358.62	1 <i>harvests</i>
Applied to removed ratio	1.28	0.62	2.86	3.32	



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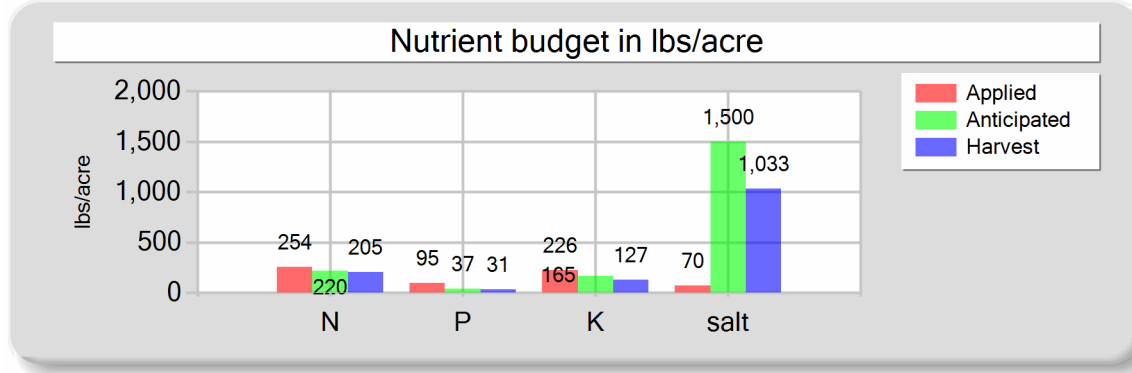
Reporting period 01/01/2023 to 12/31/2023.

Home East - 11/14/2022: Triticale, soft dough

Field name: Home East

Crop: Triticale, 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	240.06	94.57	225.51	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	70.16
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	254.06	94.57	225.51	70.16
Anticipated crop nutrient removal	220.00	37.40	165.00	1,500.40
Actual crop nutrient removal	205.36	31.39	126.88	1,033.36
Nutrient balance	48.69	63.17	98.63	-963.20
Applied to removed ratio	1.24	3.01	1.78	0.07

Fresh water applied
42,034,484.00 <i>gallons</i>
1,547.99 <i>acre-inches</i>
10.32 <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.

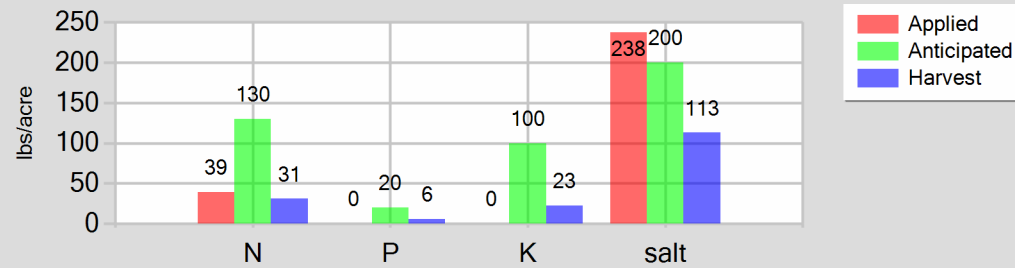
M-1 - 11/01/2018: Almond, in shell

Field name: M-1

Crop: Almond, in shell

Plant date: 11/01/2018

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	25.00	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	237.83
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	39.00	0.00	0.00	237.83
Anticipated crop nutrient removal	130.00	20.00	100.00	200.00
Actual crop nutrient removal	30.72	5.93	22.69	112.93
Nutrient balance	8.28	-5.93	-22.69	124.90
Applied to removed ratio	1.27	0.00	0.00	2.11

Fresh water applied
73,150,000.00 <i>gallons</i>
2,693.87 <i>acre-inches</i>
34.99 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

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

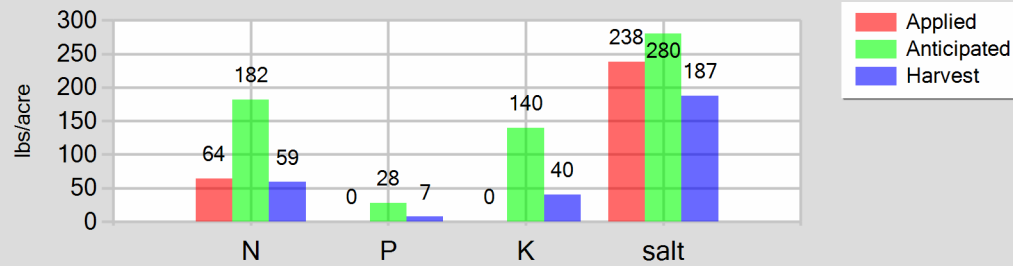
M-2 - 12/01/2017: Almond, in shell

Field name: M-2

Crop: Almond, in shell

Plant date: 12/01/2017

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	50.00	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	237.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	64.00	0.00	0.00	237.90
Anticipated crop nutrient removal	182.00	28.00	140.00	280.00
Actual crop nutrient removal	58.96	7.40	40.10	187.37
Nutrient balance	5.04	-7.40	-40.10	50.53
Applied to removed ratio	1.09	0.00	0.00	1.27

Fresh water applied
69,370,000.00 <i>gallons</i>
2,554.66 <i>acre-inches</i>
35.00 <i>inches/acre</i>
Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

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

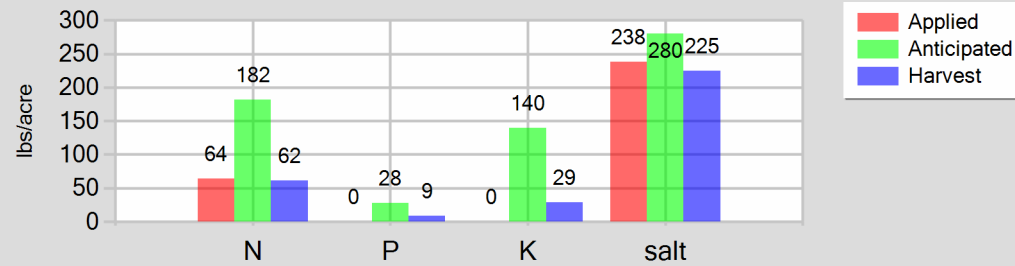
M-3 - 12/01/2017: Almond, in shell

Field name: M-3

Crop: Almond, in shell

Plant date: 12/01/2017

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	50.00	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	238.15
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	64.00	0.00	0.00	238.15
Anticipated crop nutrient removal	182.00	28.00	140.00	280.00
Actual crop nutrient removal	61.63	9.04	29.03	225.12
Nutrient balance	2.37	-9.04	-29.03	13.03
Applied to removed ratio	1.04	0.00	0.00	1.06

Fresh water applied
76,100,000.00 <i>gallons</i>
2,802.50 <i>acre-inches</i>
35.03 <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.

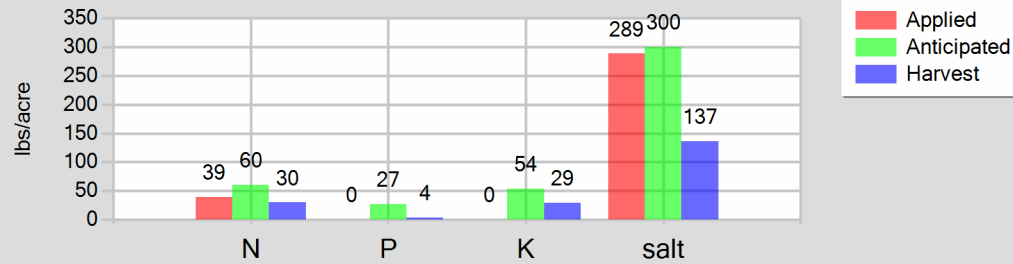
V1 - 11/01/2013: Walnuts

Field name: V1

Crop: Walnuts

Plant date: 11/01/2013

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	25.00	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	288.62
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	39.00	0.00	0.00	288.62
Anticipated crop nutrient removal	60.00	27.00	54.00	300.00
Actual crop nutrient removal	29.68	3.75	28.90	136.51
Nutrient balance	9.32	-3.75	-28.90	152.11
Applied to removed ratio	1.31	0.00	0.00	2.11

Fresh water applied
46,115,100.00 gallons
1,698.26 acre-inches
42.46 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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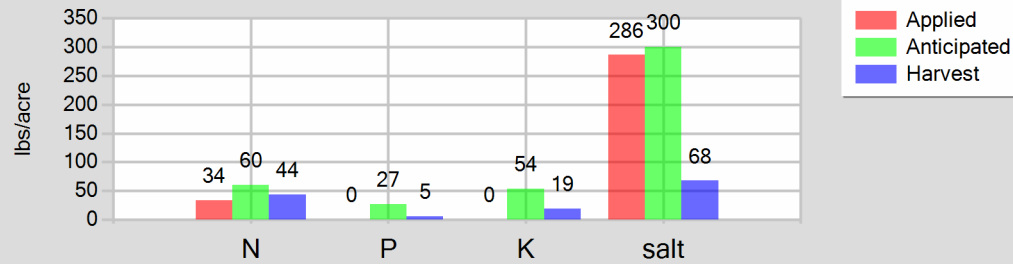
V2 - 11/01/2013: Walnuts

Field name: V2

Crop: Walnuts

Plant date: 11/01/2013

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	20.00	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	286.29
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	34.00	0.00	0.00	286.29
Anticipated crop nutrient removal	60.00	27.00	54.00	300.00
Actual crop nutrient removal	43.77	5.47	19.05	67.73
Nutrient balance	-9.77	-5.47	-19.05	218.56
Applied to removed ratio	0.78	0.00	0.00	4.23

Fresh water applied
45,742,200.00 gallons
1,684.53 acre-inches
42.11 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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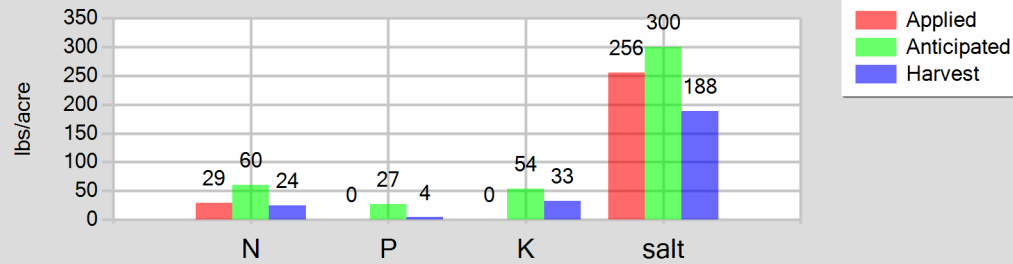
V3 - 11/01/2013: Walnuts

Field name: V3

Crop: Walnuts

Plant date: 11/01/2013

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	15.00	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	255.78
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	29.00	0.00	0.00	255.78
Anticipated crop nutrient removal	60.00	27.00	54.00	300.00
Actual crop nutrient removal	24.29	4.12	32.83	188.41
Nutrient balance	4.71	-4.12	-32.83	67.37
Applied to removed ratio	1.19	0.00	0.00	1.36

Fresh water applied
38,824,408.00 <i>gallons</i>
1,429.77 <i>acre-inches</i>
37.63 <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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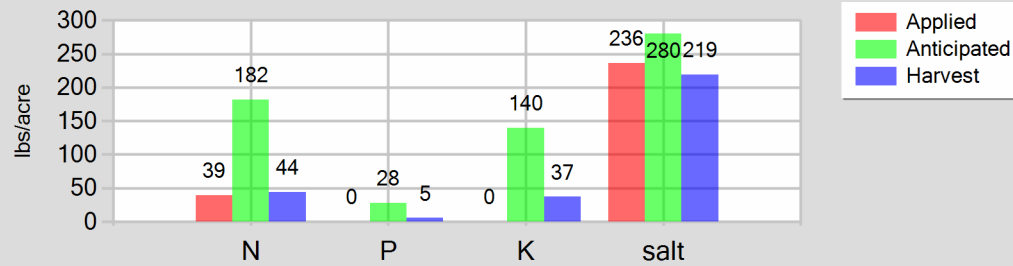
V4 - 12/01/2017: Almond, in shell

Field name: V4

Crop: Almond, in shell

Plant date: 12/01/2017

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	25.00	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	236.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	39.00	0.00	0.00	236.34
Anticipated crop nutrient removal	182.00	28.00	140.00	280.00
Actual crop nutrient removal	44.28	5.32	37.04	219.25
Nutrient balance	-5.28	-5.32	-37.04	17.09
Applied to removed ratio	0.88	0.00	0.00	1.08

Fresh water applied
137,831,400.00 <i>gallons</i>
5,075.86 <i>acre-inches</i>
34.77 <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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## NUTRIENT ANALYSES

### A. MANURE ANALYSES

#### Dry Manure

Sample and source description: Dry Manure

Sample date: 10/24/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 13.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,800.00	7,800.00	18,600.00							
<b>DL</b>	100.00	200.00	200.00							

#### Dry Manure

Sample and source description: Dry Manure

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

Moisture: 52.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,000.00	2,000.00	2,000.00							
<b>DL</b>	100.00	200.00	200.00							

#### Dry Manure

Sample and source description: Dry Manure

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

Moisture: 25.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,800.00	7,200.00	16,200.00							
<b>DL</b>	100.00	200.00	200.00							

### B. PROCESS WASTEWATER ANALYSES

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## Lagoon

Sample and source description: Lagoon

Sample date: 11/28/2022 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)
<b>Value</b>	434.00	302.00	0.00	0.00	53.50	656.00								10,200.00	6,790
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.20								100.00	10

## Lagoon

Sample and source description: Lagoon

Sample date: 03/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.20

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	486.00	337.00	0.00	0.00	81.00	783.00								7,190.00	4,770
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.05								100.00	10

## Lagoon

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	380.00	332.00	0.00	0.00	55.10	709.00								3,200.00	2,120
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

## Lagoon

Sample and source description: Lagoon

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	419.00	416.00	0.00	0.00	45.50	813.00								8,700.00	5,780
<b>DL</b>	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: 11/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	505.00	502.00	0.00	0.00	62.90	651.00								7,200.00	4,780
<b>DL</b>	2.00	2.00	2.00	0.20	0.20	0.50								100.00	10

## C. FRESH WATER ANALYSES

### DW2

#### Domestic well

Sample description: Domestic well

Sample date: 12/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>			0.70								212.00	
<b>DL</b>			0.40								1.00	

### H

#### Domestic well

Sample description: Domestic well

Sample date: 12/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>			5.40								464.00	
<b>DL</b>			0.40								1.00	

### Lower Tule

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**Lower Tule**

**Irrigation Water**

Sample description: Irrigation Water

Sample date: 06/23/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	0.00	0.00	0.00								40.00	30
<b>DL</b>	0.50	0.20	0.20								1.00	20

**Tulare ID**

**Canal Water**

Sample description: Canal Water

Sample date: 06/23/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	0.00	0.00	0.00								44.00	30
<b>DL</b>	0.50	0.40	0.40								1.00	20

**W15**

**Irrigation Water**

Sample description: Irrigation Water

Sample date: 09/14/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	1.10	0.00	1.10								275.00	190
<b>DL</b>	0.50	0.20	0.20								1.00	20

**D. SOIL ANALYSES**

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

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

3-21N - 11/18/2022: Wheat, grain

**Wheat Grain**Sample and source description: Wheat GrainSample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 11.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	45,000.00	3,500.00	35,000.00		10.20
<b>DL</b>	500.00	200.00	200.00		0.05

3-21N - 06/25/2023: Corn, silage

**Corn Silage**Sample and source description: Corn SilageSample date: 10/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,800.00	2,500.00	14,700.00		6.71
<b>DL</b>	500.00	200.00	200.00		0.05

3-21S - 11/19/2022: Wheat, silage, soft dough

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3-21S - 11/19/2022: Wheat, silage, soft dough

**Wheat**

Sample and source description: Wheat

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,100.00	1,800.00	8,000.00		10.40
<b>DL</b>	500.00	200.00	200.00		0.05

3-21S - 06/14/2023: Corn, silage

**Corn Silage**

Sample and source description: Corn Silage

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

Moisture: 64.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,900.00	3,000.00	8,400.00		4.76
<b>DL</b>	500.00	200.00	200.00		0.05

3-22 - 05/19/2023: Corn, silage

**Corn**

Sample and source description: Corn

Sample date: 09/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,700.00	3,000.00	11,700.00		5.38
<b>DL</b>	500.00	200.00	200.00		0.05

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3-23 - 11/19/2022: Wheat, grain

**Wheat Grain**

Sample and source description: Wheat Grain

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	43,000.00	3,400.00	34,700.00		10.70
<b>DL</b>	500.00	200.00	200.00		0.05

7-31 - 10/01/2013: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 9.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	26,600.00	3,400.00	10,900.00		6.22
<b>DL</b>	500.00	200.00	200.00		0.05

7-32 - 11/15/2022: Wheat, silage, soft dough

**Wheat**

Sample and source description: Wheat

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,300.00	2,400.00	8,500.00		7.89
<b>DL</b>	500.00	200.00	200.00		0.05

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7-32 - 06/14/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,900.00	2,900.00	10,300.00		5.50
<b>DL</b>	500.00	200.00	200.00		0.05

7-33 - 06/10/2023: Corn, silage

Corn

Sample and source description: Corn

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

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	9,300.00	2,800.00	9,000.00		4.65
<b>DL</b>	500.00	200.00	200.00		0.05

7-34 - 10/01/2013: Pistachios

Pistachios

Sample and source description: Pistachios

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

Moisture: 52.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	30,500.00	3,100.00	21,300.00		10.70
<b>DL</b>	500.00	200.00	200.00		0.05



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**7-35 - 10/01/2013: Pistachios**

**Pistachios**

Sample and source description: Pistachios

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

Moisture: 50.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	29,000.00	2,400.00	15,700.00		7.20
<b>DL</b>	500.00	200.00	200.00		0.05

**7-36 - 10/01/2013: Pistachios**

**Pistachios**

Sample and source description: Pistachios

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

Moisture: 50.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,900.00	3,400.00	20,500.00		10.10
<b>DL</b>	500.00	200.00	200.00		0.05

**8-103 - 06/10/2023: Corn, silage**

**Corn**

Sample and source description: Corn

Sample date: 10/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,100.00	2,500.00	13,100.00		6.22
<b>DL</b>	500.00	200.00	200.00		0.05

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8-104 - 11/20/2022: Wheat, grain

**Wheat Grain**

Sample and source description: Wheat Grain

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	44,800.00	3,600.00	33,800.00		10.80
<b>DL</b>	500.00	200.00	200.00		0.05

9-111N - 02/01/2015: Walnuts

**Walnuts**

Sample and source description: Walnuts

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 46.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,300.00	2,300.00	26,000.00		19.00
<b>DL</b>	500.00	200.00	200.00		0.05

9-111S - 02/01/2015: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 10.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,200.00	2,500.00	18,900.00		8.21
<b>DL</b>	500.00	200.00	200.00		0.05

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G1 - 11/20/2022: Wheat, grain

**Wheat Grain**

Sample and source description: Wheat Grain

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	45,200.00	3,580.00	34,700.00		11.50
<b>DL</b>	500.00	200.00	200.00		0.05

G3 - 01/01/2018: Pistachios

**Pistachios**

Sample and source description: Pistachios

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

Moisture: 51.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	27,500.00	2,800.00	20,600.00		10.70
<b>DL</b>	500.00	200.00	200.00		0.05

G4 - 11/17/2022: Wheat, silage, soft dough

**Wheat**

Sample and source description: Wheat

Sample date: 05/20/2023 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 (%)
<b>Value</b>	11,800.00	1,900.00	6,600.00		8.73
<b>DL</b>	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.*

G5 - 11/22/2022: Wheat, grain

**Wheat Grain**

Sample and source description: Wheat Grain

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 10.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	44,900.00	3,460.00	34,200.00		10.80
<b>DL</b>	500.00	200.00	200.00		0.05

G6 - 11/20/2022: Wheat, silage, soft dough

**Wheat**

Sample and source description: Wheat

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,300.00	2,600.00	9,600.00		7.87
<b>DL</b>	500.00	200.00	200.00		0.05

G6 - 06/09/2023: Corn, silage

**Corn**

Sample and source description: Corn

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,400.00	2,800.00	9,500.00		5.19
<b>DL</b>	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.

Home East - 11/14/2022: Triticale, soft dough

**Triticale**Sample and source description: TriticaleSample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,700.00	2,400.00	9,700.00		7.90
<b>DL</b>	100.00	200.00	200.00		0.10

M-1 - 11/01/2018: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 10.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,600.00	3,400.00	13,000.00		6.47
<b>DL</b>	500.00	200.00	200.00		0.05

M-2 - 12/01/2017: Almond, in shell

**Almonds**Sample and source description: AlmondsSample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 11.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	24,700.00	3,100.00	16,800.00		7.85
<b>DL</b>	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.*

M-3 - 12/01/2017: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 10.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	25,900.00	3,800.00	12,200.00		9.46
<b>DL</b>	500.00	200.00	200.00		0.05

V1 - 11/01/2013: Walnuts

**Walnuts**

Sample and source description: Walnuts

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 46.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	19,000.00	2,400.00	18,500.00		8.74
<b>DL</b>	500.00	200.00	200.00		0.05

V2 - 11/01/2013: Walnuts

**Walnuts**

Sample and source description: Walnuts

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 35.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	23,200.00	2,900.00	10,100.00		3.59
<b>DL</b>	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.*

V3 - 11/01/2013: Walnuts

**Walnuts**

Sample and source description: Walnuts

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 50.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,500.00	2,800.00	22,300.00		12.80
<b>DL</b>	500.00	200.00	200.00		0.05

V4 - 12/01/2017: Almond, in shell

**Almonds**

Sample and source description: Almonds

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

Moisture: 12.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,800.00	2,500.00	17,400.00		10.30
<b>DL</b>	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**

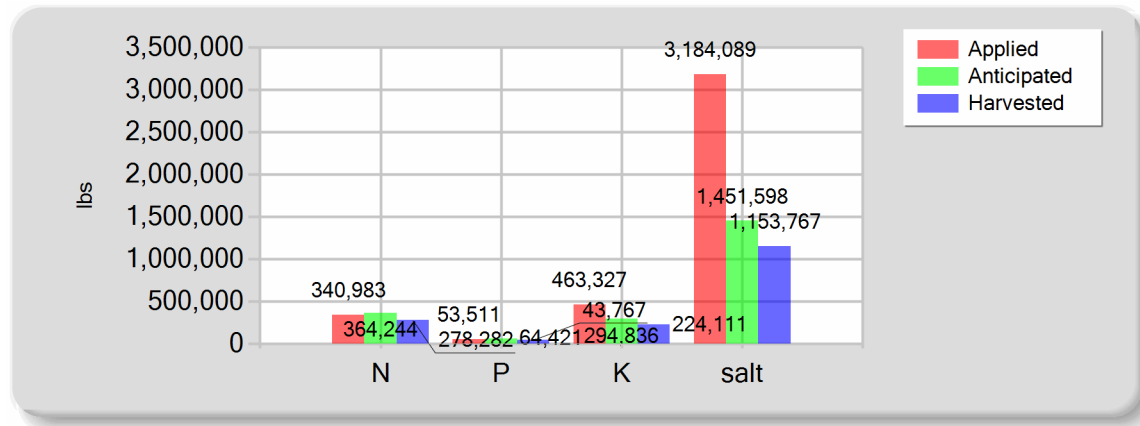
Reporting period 01/01/2023 to 12/31/2023.

**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	26,070.00	0.00	0.00	0.00
Dry manure	57,613.25	22,696.13	54,121.54	0.00
Process wastewater	229,470.49	30,814.55	409,205.22	2,435,645.24
Fresh water	2,531.08	0.00	0.00	748,443.71
Atmospheric deposition	25,298.00	0.00	0.00	0.00
Total nutrients applied	340,982.82	53,510.67	463,326.75	3,184,088.95
Anticipated crop nutrient removal	364,243.50	64,420.80	294,835.80	1,451,598.00
Actual crop nutrient removal	278,282.34	43,766.79	224,111.44	1,153,767.05
Nutrient balance	62,700.48	9,743.88	239,215.32	2,030,321.90
Applied to removed ratio	1.23	1.22	2.07	2.76

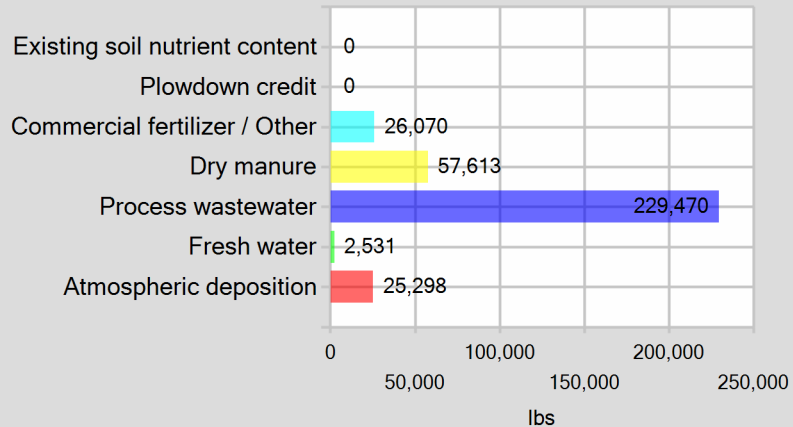
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**



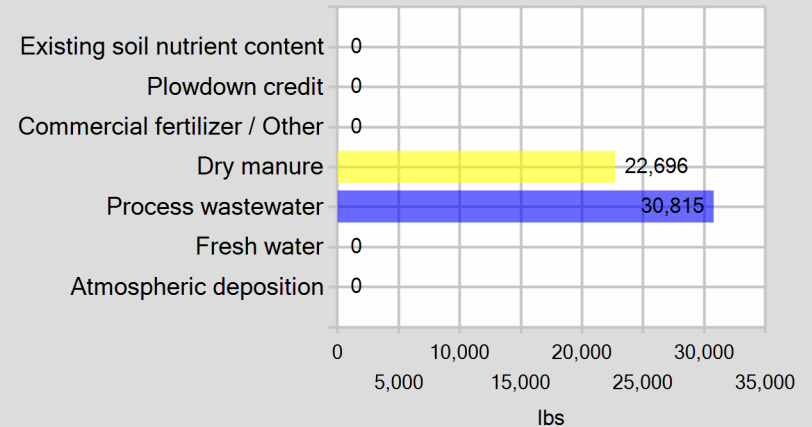


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

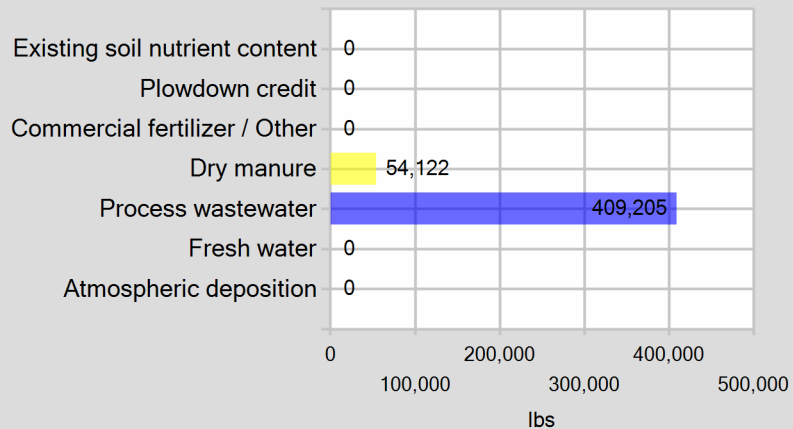
Pounds of nitrogen applied



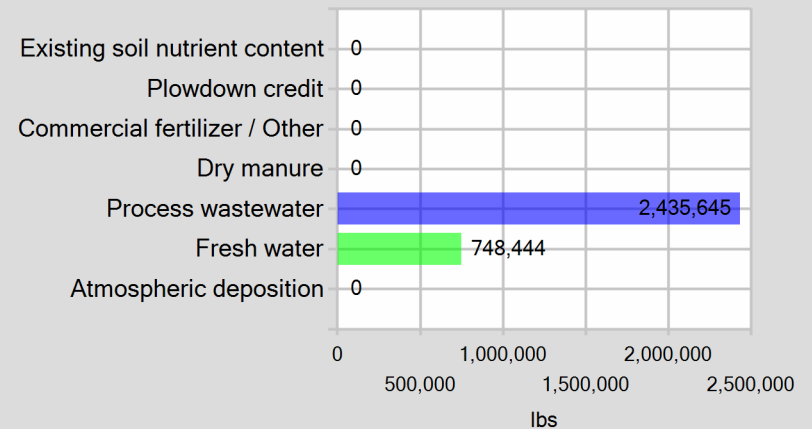
Pounds of phosphorus applied



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 2, 3, 4, 11, IWM1, 5, 5A, 5S, 7, W9-111N, W14, W16, W17, P, M2, M3, W10s, W10, W9, W8, V1, V2, V3, V4, DW1, #1 Barn Backup, M-Dom, Domestic 104 were Out of Service in 2023.

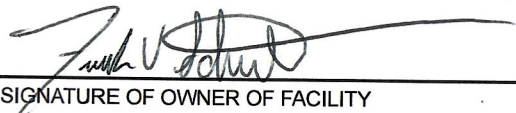
**Annual Report - General Order No. R5-2007-0035**

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

**CERTIFICATION**

**A. OWNER AND/OR OPERATOR CERTIFICATION**

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



SIGNATURE OF OWNER OF FACILITY

Frank V Schott

PRINT OR TYPE NAME

6-17-24

DATE



SIGNATURE OF OPERATOR OF FACILITY

Keith Visser

PRINT OR TYPE NAME

6-20-24

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.

July 11, 2023

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

**Lab No. : VI 2344187**  
**Customer No. : 4019696**  
**Reference : 3043**

### 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
Lower Tule I.D.	06/23/2023	06/23/2023	VI 2344187-001	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: 2023-07-11

July 11, 2023

**Sentry Ag Services**

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

Description : Lower Tule I.D.  
 Project : Lower Tule I.D.

Lab No. : VI 2344187-001  
 Customer No. : 4019696  
 Reference : 3043  
 Sampled On : June 23, 2023 at 08:45  
 Sampled By : Klay  
 Received On : June 23, 2023 at 10:28  
 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	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:43	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:33	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:43	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:33	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:43	lcr
Conductivity	40	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	22:57	sta
Solids, Total Dissolved (TDS)	30	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	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

July 11, 2023  
Sentry Ag Service

Lab No. : VI 2344187  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2343994-001)	Dup	umhos/cm		1.38%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
			(STK2338352-001)	mg/L		3.55%	5	
			(STK2338352-001)	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		102%	73-124	
			MS	mg/L		89.5%	54-136	
			(VI 2343914-005)	MSD		96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L		97.0%	54-136	
			(VI 2343914-006)	MSD		98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			(SP 2310989-001)	MSD		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			(SP 2310989-001)	MSD		98.1%	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.





# Laboratory Analysis Work Order

2344187

3043

SITE NAME: Lower Tule I.D.

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, NO<sub>3</sub>N (Dom)
- W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)
- W3 NH<sub>4</sub>-N (Ammonium)
- W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)
- W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)
- W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)
- W8 Other: \_\_\_\_\_

### Plant Tissue

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, 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, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, 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, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S
- S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN
- S3 NO<sub>3</sub>N, NH<sub>4</sub>N
- S4 Other: \_\_\_\_\_

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N *	pH	Temp
1	Lower Tule I.D.	Canal	W2	6/23/23 8:45	Klay	-		
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:

AGLS 6/24/23  
1634

### CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 <sup>st</sup>	<u>Klay</u>	<u>SAI</u>		<u>6/23/23 10:28</u>
2 <sup>nd</sup>	<u>COOS</u>	<u>FGL</u>	<u>6-23-2023 1028</u>	
3 <sup>rd</sup>	<u>COOS</u>	<u>FGL</u>		<u>6-23-2023 1028</u>
4 <sup>th</sup>	<u>GLS</u>		<u>6-23-2023 1028</u>	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_ Total Samples: \_\_\_\_\_ Laboratory No.: \_\_\_\_\_

6-6<sup>0</sup>  
ROI

### 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: 6.6° ROT /     /     /    

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

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

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

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

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

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

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

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

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

Sample Receipt Review completed by (initials):    

#### Sample Receipt at SP:

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

559648785 / 7 / 56 / 64 / 75

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):    

#### 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 cor contacts)

(4019696)  
Sentry Ag Service  
VI 2344187  
iv 06/24/2023 09:55:15  
0501-1101

July 11, 2023

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

**Lab No. : VI 2344188**  
**Customer No. : 4019696**  
**Reference : 3041**

### 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
Tulare I.D.	06/23/2023	06/23/2023	VI 2344188-001	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: 2023-07-11

July 11, 2023

**Sentry Ag Services**

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

Description : Tulare I.D.  
 Project : Tulare I.D.

Lab No. : VI 2344188-001  
 Customer No. : 4019696  
 Reference : 3041  
 Sampled On : June 23, 2023 at 09:10  
 Sampled By : Klay  
 Received On : June 23, 2023 at 10:28  
 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	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:44	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:41	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:44	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:41	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:44	lcr
Conductivity	44	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	21:39	sta
Solids, Total Dissolved (TDS)	30	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	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  
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 TEL: (559)734-9473  
 FAX: (559)734-8435  
 CA ELAP Certification No. 2810

July 11, 2023  
Sentry Ag Service

Lab No. : VI 2344188  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
			(STK2338352-001)	mg/L		3.55%	5	
			(STK2338352-001)	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		102%	73-124	
			MS	mg/L		89.5%	54-136	
			(VI 2343914-005)	MSD		96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L		97.0%	54-136	
			(VI 2343914-006)	MSD		98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			(SP 2310989-001)	MSD		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			(SP 2310989-001)	MSD		98.1%	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.



# Laboratory Analysis Work Order 2344188

3041

SITE NAME: Tulare I.D.

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, NO<sub>3</sub>N (Dom)  
W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)  
W3 NH<sub>4</sub>-N (Ammonium)  
W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)  
W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)  
W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)  
W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)  
W8 Other: \_\_\_\_\_

### Plant Tissue

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, 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, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)  
L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)  
L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, 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, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S  
S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN  
S3 NO<sub>3</sub>N, NH<sub>4</sub>N  
S4 Other: \_\_\_\_\_

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N*	pH	Temp
1	Tulare I.D.	Canal	W2	6/23/23 9:10	Klay	-		
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 <sup>st</sup>	Klay	SAS		6/23/23 10:28
2 <sup>nd</sup>	COOS	FGL	6-23-2023 1028	
3 <sup>rd</sup>	COOS	FGL		6-23-2023 1730
4 <sup>th</sup>	GIL		6-23-2023 1028	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_ Total Samples: \_\_\_\_\_ Laboratory No.: \_\_\_\_\_

6.6°  
ROT

### 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: 6.6° ROL /        /        /       

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

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

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

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

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

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

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

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

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

Sample Receipt Review completed by (initials): COB

### Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 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:  
559648785 / 7 / 56 / 64 / 75

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): ODA

### 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 com-  
contacts)

(4019696)  
Sentry Ag Service  
VI 2344188

iv 06/24/2023 09:55:11



UI 2344188

October 4, 2023

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

**Lab No. : VI 2346274**  
**Customer No. : 4019696**  
**Reference : 3157**

### 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
W15	09/14/2023	09/14/2023	VI 2346274-001	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: 2023-10-05



October 4, 2023

**Sentry Ag Services**

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : W15  
Project : Schott/V2

Lab No. : VI 2346274-001  
 Customer No. : 4019696  
 Reference : 3157  
 Sampled On : September 14, 2023 at 09:10  
 Sampled By : Brandon  
 Received On : September 14, 2023 at 15:14  
 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	09/28/2023	10:26	sta	EPA 351.2	10/03/2023	22:21	lcr
Nitrate Nitrogen	1.1	0.4	mg/L		1		09/15/2023	13:00	lfs	SM 4500-NO3 F	09/15/2023	15:47	lfs
Nitrogen, Total as Nitrogen	1.1	0.5	mg/L		1	I	09/28/2023	10:26	sta	Calc.	10/03/2023	22:21	lcr
Nitrate + Nitrite as N	1.1	0.4	mg/L		1		09/15/2023	13:00	lfs	SM 4500-NO3 F	09/15/2023	15:47	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	09/28/2023	10:26	sta	EPA 351.2	10/03/2023	22:21	lcr
Conductivity	275	1	umhos/cm		1	I	09/21/2023	11:31	krh	SM 4500-H+B	09/21/2023	15:31	krh
Solids, Total Dissolved (TDS)	190	20	mg/L		1		09/19/2023	11:20	ctl	SM 2540 C	09/20/2023	11:00	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**

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**

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 FAX: (209)942-0423  
 CA ELAP Certification No. 1563

**Office & Laboratory**

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

**Office & Laboratory**

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

**Office & Laboratory**

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

October 4, 2023  
Sentry Ag Service

Lab No. : VI 2346274  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2346257-001)	Dup	umhos/cm		110%	5	440
Solids, Total Dissolved	2540CE	09/19/2023:210493CTL	Blank	mg/L	991.5	ND	<20	
			LCS	mg/L		101%	90-110	
		(CC 2383155-001)	Dup	mg/L		0.4%	5	
		(CC 2383155-001)	Dup	mg/L		2.89%	5	
Nitrogen, Total Kjeldahl	351.2	09/28/2023:210923STA	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		91.0%	73-124	
			MS	mg/L		89.3%	90-110	
		(SP 2315701-001)	MSD	mg/L		89.7%	90-110	
			MSRPD	mg/L		0.4%	≤20	
			MS	mg/L		89.9%	90-110	
		(SP 2315701-003)	MSD	mg/L		92.8%	90-110	
			MSRPD	mg/L		3.2%	≤20	
Nitrate + Nitrite as N	4500NO3F	09/15/2023:210406LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		95.2%	80-120	
			MS	mg/L		94.5%	66-125	
		(CH 2377879-001)	MSD	mg/L		96.2%	66-125	
			MSRPD	mg/L		1.3%	≤30.4	
Nitrate Nitrogen	4500NO3F	09/15/2023:210406LFS	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		95.2%	80-120	
			MS	mg/L		94.5%	66-125	
		(CH 2377879-001)	MSD	mg/L		96.2%	66-125	
			MSRPD	mg/L		1.3%	≤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

3157

SITE NAME:

Schott/V2

23416274

LABORATORY:

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, NO<sub>3</sub>N (Dom)  
W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)  
W3 NH<sub>4</sub>-N (Ammonium)  
W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)  
W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)  
W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)  
W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)  
W8 Other: \_\_\_\_\_

### Plant Tissue

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, 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, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)  
L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)  
L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, 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, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S  
S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN  
S3 NO<sub>3</sub>N, NH<sub>4</sub>N  
S4 Other: \_\_\_\_\_

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N*	pH	Temp
1	W15	Irrigation	W2	9/14/23 9:00	Brandon	2		
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 <sup>st</sup>	[Signature]	SAS	9/14/23 1514	9/14/23 15:114
2 <sup>nd</sup>	[Signature]	GLC	9/14/23 1514	9/14/23 1755
3 <sup>rd</sup>	[Signature]			
4 <sup>th</sup>	[Signature]			

LABORATORY USE ONLY

Logged In By:

Total Samples:

Laboratory No.:

GLS  
ML

9/15/23  
1145

**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 101/14.0C  
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?              | <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): ADH

**Sample Receipt at SP:**

1. Were samples received in a chilled condition? Temps: 22 /      /      /      /     

Acceptable is above freezing to  $6^{\circ}\text{C}$ . If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers:

560126075  
068

- |   |            |    |            |
|---|------------|----|------------|
| 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?<br>[Exception: Oil & Grease, VOA and CrVI verified in lab] | <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): MDL

**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 cc contacts)

(4019696)  
**Sentry Ag Service**  
**VI 2346274**

mdc 09/14/2023 18:05:06



VI 2346274

January 2, 2024

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

**Lab No. : VI 2348543**  
**Customer No. : 4019696**  
**Reference : 3500**

### 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
H	12/14/2023	12/14/2023	VI 2348543-001	DW
DW8	12/14/2023	12/14/2023	VI 2348543-002	DW

### 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

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

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

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.**

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

January 2, 2024

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

Description : H  
 Project : VZ Cattle

Lab No. : VI 2348543-001  
 Customer No. : 4019696  
 Reference : 3500  
 Sampled On : December 14, 2023 at 10:05  
 Sampled By : Brandon  
 Received On : December 14, 2023 at 13:37  
 Matrix : Drinking Water

### Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	5.4	0.4	mg/L	10	1		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:41	lfs
Conductivity	464	1	umhos/cm	1600 <sup>2</sup>	1		12/21/2023	09:19	krh	SM 4500-H+B	12/21/2023	11:49	krh

DQF Flags Definition:

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

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

January 2, 2024

**Sentry Ag Services**

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

DW2

Description :

DW8

Project :

VZ Cattle

Lab No. : VI 2348543-002

Customer No. : 4019696

Reference : 3500

Sampled On : December 14, 2023 at 09:52

Sampled By : Brandon

Received On : December 14, 2023 at 13:37

Matrix : Drinking Water

**Sample Results - Inorganic**

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	0.7	0.4	mg/L	10	1		12/15/2023	13:00	lfs	SM 4500-NO3 F	12/15/2023	16:44	lfs
Conductivity	212	1	umhos/cm	1600 <sup>2</sup>	1		12/22/2023	09:20	krh	SM 4500-H+B	12/22/2023	12:10	krh

DQF Flags Definition:

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

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

January 2, 2024  
Sentry Ag Service

Lab No. : VI 2348543  
Customer No. : 4019696

### Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
<b>Wet Chem</b>								
E. C.	2320B	(VI 2348655-001)	Dup	umhos/cm		0.07%	5	
	2320B	(VI 2348803-002)	Dup	umhos/cm		0.1%	5	
Nitrate Nitrogen	4500NO3F	12/15/2023:214153LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	93.3%	80-120	
			MS	mg/L	5.609	93.1%	66-125	
			MSD	mg/L	5.609	94.3%	66-125	
		(VI 2348536-001)	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

3500

SITE NAME:

VZ cattle

LABORATORY: VT

FGL 4-19698

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, NO<sub>3</sub>N (Dom)
- W2 EC, NO<sub>3</sub>N, TDS, TN (Irr)
- W3 NH<sub>4</sub>-N (Ammonium)
- W4 EC, NO<sub>3</sub>N, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl, TDS (Dom, GM)
- W5 EC, NO<sub>3</sub>N, TDS, TN, Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, Cl (Irr, GM)
- W6 NO<sub>3</sub>N, NO<sub>2</sub> (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl + Lab Filtering (GWM)
- W8 Other: \_\_\_\_\_

### Plant Tissue

- P1 TN, NO<sub>3</sub>N, PO<sub>4</sub>P, 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, NH<sub>4</sub>N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO<sub>3</sub>N, NH<sub>4</sub>N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>S, 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, NO<sub>3</sub>N, PO<sub>4</sub>P, K-AA, Zn, Mn, Fe, Cu, SO<sub>4</sub>S
- S2 S1 + CEC, CaCO<sub>3</sub>, OM, C:N, TN
- S3 NO<sub>3</sub>N, NH<sub>4</sub>N
- S4 Other: \_\_\_\_\_

10.0°C  
RSE  
TH 407

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH <sub>3</sub> N*	pH	Temp
1	H	domestic well	W1	12/14/23 10:05am	Brundley	0		
2	DW8	domestic well	W1	12/14/23 9:52am	Brundley	0		
3	DW2							
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 <sup>st</sup>		SAS		12/14/23 13:37
2 <sup>nd</sup>		FGL	12/14/23 13:57	
3 <sup>rd</sup>		FGL		12/14/23 17:30
4 <sup>th</sup>		GLS	12/14/23 17:30	

LABORATORY USE ONLY

Logged In By: \_\_\_\_\_

Total Samples: \_\_\_\_\_

Laboratory No.: \_\_\_\_\_

611 12/15/23 11:55

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK (VI)

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

2. Temp IR Gun ID #: 407

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

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

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

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

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

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

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

Sample Receipt Review completed by (initials): AB

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): SW003734, SW003940, SW003943

2. Temp IR Gun ID #: 260

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

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

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

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

Sample Verification, Labeling and Distribution:

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

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

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

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

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

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

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

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

Discrepancy Documentation:

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

1. Person Contacted: Phone Number:

Initiated By: Date:

Problem:

Resolution:

2. Person Contacted:

Initiated By:

Problem:

Resolution:

(4019696)  
Sentry Ag Service  
VI 2348543

iv 12/15/2023 09:47:14



2348543