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: Troost Dairy

Physical address of dairy:

Number and Street	City	County	Zip Code
27000 Road 9	Chowchilla	Madera	93610

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 04/01/1993

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

X025-X100-X024-XXXX

B. OPERATORS

Troost, Jeff

Operator name: Troost, Jeff

Telephone no.: Landline: ; Cellular: (559) 223-3091

Mailing Address Number and Street	City	State	Zip Code
27000 Road 9	Chowchilla	CA	93610

This operator is responsible for paying permit fees.

Troost, Johnny

Operator name: Troost, Johnny

Telephone no.: Landline: ; Cellular: (559) 645-2284

Mailing Address Number and Street	City	State	Zip Code
27000 Road 9	Chowchilla	CA	93610

C. OWNERS

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

Troost, Jeff

Legal owner name:	Troost, Jeff	Telephone no.:	Landline	Cellular (559) 223-3091
27000 Road 9	Chowchilla	CA	93610	
Mailing Address Number and Street	City	State	Zip Code	

This owner is responsible for paying permit fees.

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	900	800	200	0
Number under roof	2,310	460	0	0	0	0
Maximum number	2,350	500	900	800	200	0
Average number	2,310	460	900	800	200	0
Avg live weight (lbs)	1,300	1,350	900	650		

Predominant milk cow breed: Jersey-Holstein Cross

Average milk production: 71 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 83,312.98 *tons per reporting period*

Total nitrogen from manure: 1,033,772.63 *lbs per reporting period*

After ammonia losses (30% loss applied): 723,640.84 *lbs per reporting period*

Total phosphorus from manure: 170,914.65 *lbs per reporting period*

Total potassium from manure: 443,903.98 *lbs per reporting period*

Total salt from manure: 1,193,440.50 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 64,669,500 *gallons*

Total nitrogen generated: 232,512.35 *lbs*

Total phosphorus generated: 37,401.71 *lbs*

Total potassium generated: 296,015.62 *lbs*

Total salt generated: 1,999,546.33 *lbs*

	64,669,500	*gallons applied*
+	0	*gallons exported*
-	0	*gallons imported*
=	64,669,500	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Broadway Canal	Surface water
CWD-Chowchilla Canal	Surface water
CWD-Justin Canal	Surface water
IW 13	Ground water
IW 13-2	Ground water

Source Description	Type
IW 13-D	Ground water
IW 15	Ground water
IW 16	Ground water
IW 167	Ground water
IW 7	Ground water
IW-10	Ground water
IW-12-1	Ground water
IW-12-D	Ground water
IW-163	Ground water
IW-165	Ground water
IW-166	Ground water
IW-174	Ground water
IW-18	Ground water
IW-8A	Ground water
IW-8B	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.

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

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
01/23/2023	Solid commercial fertilizer *Urea*	33.09 *ton*	Dry-weight	0.1	46.000000	0.000000	0.000000	0.000000
04/24/2023	Solid commercial fertilizer *CAN 17*	27.75 *ton*	Dry-weight	0.1	17.000000	0.000000	0.000000	0.000000
05/23/2023	Solid commercial fertilizer *NPK*	161.91 *ton*	Dry-weight	0.1	7.900000	0.300000	9.700000	0.000000
06/08/2023	Solid commercial fertilizer *5-11-4*	10.92 *ton*	Dry-weight	0.1	5.000000	11.000000	4.000000	0.000000
06/21/2023	Solid commercial fertilizer *7-17-3*	21.98 *ton*	Dry-weight	0.1	7.000000	17.000000	3.000000	0.000000
06/29/2023	Solid commercial fertilizer *30.5-0-0*	28.18 *ton*	Dry-weight	0.1	30.500000	0.000000	0.000000	0.000000
07/21/2023	Solid commercial fertilizer *UN32*	63.49 *ton*	Dry-weight	0.1	32.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	127,324.73	10,836.21	33,569.34	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total imports for all materials	127,324.73	10,836.21	33,569.34	0.00

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/09/2023	Compost	1,250.00 *ton*	Dry-weight	9.8		23,900.00	3,700.00	11,000.00		33.60

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	53,894.50	8,343.50	24,805.00	757,680.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	53,894.50	8,343.50	24,805.00	757,680.00

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

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
401	44	44	2	process wastewater	X025-X100-X024-XXXX
402	30	30	2	process wastewater	X025-X100-X022-XXXX
403A	8	8	1	none	X025-X100-X022-XXXX
403B	8	8	1	none	X025-X100-X022-XXXX
404	28	28	1	none	X025-X100-X023-XXXX
405	37	37	2	process wastewater	X025-X100-X023-XXXX
406	37	37	2	process wastewater	X025-X100-X020-XXXX
407	35	35	2	process wastewater	X025-X100-X020-XXXX
408	37	37	2	process wastewater	X025-X100-X020-XXXX
409	56	56	2	process wastewater	X025-X100-X024-XXXX
410	55	55	1	none	X025-X100-X025-XXXX X025-X100-X026-XXXX X025-X100-X027-XXXX
411	39	39	2	manure	X025-X120-X011-XXXX
412A	58	58	2	manure	X025-X120-X013-XXXX
412B	56	56	1	none	X025-X120-X014-XXXX
413A	37	37	2	manure	X025-X110-X010-XXXX
413B	76	76	2	manure	X025-X110-X007-XXXX X025-X110-X013-XXXX X025-X110-X014-XXXX
414	38	38	2	process wastewater	X025-X040-X010-XXXX X025-X040-X011-XXXX
415	55	55	2	process wastewater	X025-X040-X012-XXXX X025-X040-X013-XXXX X025-X040-X014-XXXX
416	35	35	2	process wastewater	X025-X040-X015-XXXX X025-X040-X016-XXXX
417	40	40	1	none	X025-X160-X080-XXXX
418	40	40	1	none	X025-X160-X080-XXXX
419	18	18	1	none	X025-X160-X080-XXXX
420	32	32	1	manure	X025-X050-X014-XXXX
421	35	32	1	manure	X025-X110-X011-XXXX
Delta 1	115	115	2	manure	X129-X200-X150-XXXX
Delta 2	130	130	2	manure	X129-X200-X150-XXXX

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Delta 3	70	70	2	manure	X129-X200-X150-XXXX
Delta 4	99	99	2	manure	X129-X200-X150-XXXX
Delta 5 A	8	8	0	none	X129-X200-X150-XXXX
Delta 5 B	29	29	0	none	X129-X200-X150-XXXX
Delta 5 C	24	24	0	none	X129-X200-X150-XXXX
Delta 5 D	10	10	0	none	X129-X200-X150-XXXX
Totals for areas that were used for application	1,095	1,092	38		
Totals for areas that were not used for application	324	324	8		
Land application area totals	1,419	1,416	46		

B. CROPS AND HARVESTS

401

Field name: 401

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 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 (%)
05/15/2023	993.24 *ton*	As-is		71.5	6,000.00	1,400.00	8,200.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	22.57	270.88	63.21	370.21	1,402.50

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 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 (%)
10/04/2023	1,258.88 *ton*	As-is		66.5	4,700.00	1,100.00	4,800.00		6.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	28.61	268.94	62.94	274.66	1,265.17

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

402

Field name: 402

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 30 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 (%)
05/16/2023	851.77 *ton*	As-is		71.5	6,000.00	1,400.00	8,200.00		10.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	28.39	340.71	79.50	465.63	1,764.02

06/10/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	716.28 *ton*	As-is		64.7	5,700.00	1,200.00	7,100.00		7.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	23.88	272.19	57.30	339.04	1,264.23

403A

Field name: 403A

11/01/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 8 Plant date: 11/01/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	39.22 *ton*	As-is		15.7	18,700.00	2,300.00	18,400.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	4.90	183.35	22.55	180.41	710.84

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

403B

Field name: 403B

01/01/2022: Almond, in shell

Crop: Almond, in shell Acres planted: 8 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *ton*	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

404

Field name: 404

11/01/2015: Almond, in shell

Crop: Almond, in shell Acres planted: 13 Plant date: 11/01/2015

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	63.72 *ton*	As-is		15.7	18,700.00	2,300.00	18,400.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	4.90	183.32	22.55	180.38	710.70

405

Field name: 405

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

405

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

Crop: Wheat, silage, soft dough Acres planted: 37 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 (%)
04/25/2023	840.28 *ton*	As-is		65.5	6,000.00	900.00	8,600.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	22.71	272.52	40.88	390.62	1,237.94

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 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 (%)
10/05/2023	746.54 *ton*	As-is		61.9	5,800.00	1,400.00	6,700.00		6.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	20.18	234.05	56.49	270.37	1,060.85

406

Field name: 406

10/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	411.40 *ton*	As-is		40.0	12,700.00	1,500.00	7,400.00		6.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	11.12	282.42	33.36	164.56	893.96

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

406

05/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	932.56 *ton*	As-is		60.8	5,600.00	1,200.00	10,600.00		11.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	25.20	282.29	60.49	534.33	2,232.90

407

Field name: 407

10/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 35 Plant date: 10/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	588.53 *ton*	As-is		40.0	9,100.00	1,500.00	7,800.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	16.82	306.04	50.45	262.32	1,190.51

05/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	780.00 *ton*	As-is		60.9	4,600.00	800.00	8,400.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	22.29	205.03	35.66	374.40	1,376.77

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

408

Field name: 408

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

Crop: Wheat, silage, soft dough Acres planted: 37 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 (%)
05/15/2023	779.76 *ton*	As-is		65.9	5,700.00	1,200.00	10,000.00		8.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	21.07	240.25	50.58	421.49	1,264.81

06/08/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/08/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	1,153.53 *ton*	As-is		71.2	4,300.00	900.00	6,100.00		7.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	31.18	268.12	56.12	380.35	1,418.65

409

Field name: 409

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,139.95 *ton*	As-is		65.4	7,500.00	1,400.00	11,500.00		10.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	20.36	305.34	57.00	468.19	1,408.65

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

409

06/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 56 Plant date: 06/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/26/2023	1,584.54 *ton*	As-is		60.4	5,100.00	1,000.00	5,400.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	28.30	288.61	56.59	305.59	1,254.96

410

Field name: 410

11/19/2022: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 55 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 (%)
10/04/2023	360.66 *ton*	As-is		30.9	25,800.00	2,500.00	21,900.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	591.20	52.00	363.20	0.00
Total actual harvest content	6.56	338.36	32.79	287.22	978.74

411

Field name: 411

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

411

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

Crop: Wheat, silage, soft dough Acres planted: 39 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	797.99 *ton*	As-is		71.4	5,300.00	1,100.00	9,400.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	20.46	216.89	45.01	384.67	1,369.35

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/25/2023	1,007.62 *ton*	As-is		60.8	5,500.00	1,000.00	5,600.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	25.84	284.20	51.67	289.37	1,134.32

412A

Field name: 412A

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

Crop: Wheat, silage, soft dough Acres planted: 58 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	1,296.93 *ton*	As-is		65.1	8,400.00	1,500.00	13,000.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	22.36	375.66	67.08	581.38	1,794.91

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

412A

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 58 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/28/2023	1,668.35 *ton*	As-is		59.0	4,100.00	600.00	3,300.00		4.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	28.76	235.87	34.52	189.85	1,132.18

412B

Field name: 412B

01/01/2022: Almond, in shell

Crop: Almond, in shell Acres planted: 56 Plant date: 01/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	0.01 *ton*	As-is		0.1	0.00	0.00	0.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

413A

Field name: 413A

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

413A

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

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	769.50 *ton*	As-is		65.4	9,100.00	1,800.00	16,000.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	20.80	378.51	74.87	665.51	1,727.01

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	845.92 *ton*	As-is		60.2	5,400.00	1,000.00	4,000.00		5.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	22.86	246.92	45.73	182.90	928.13

413B

Field name: 413B

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,396.12 *ton*	As-is		65.6	6,500.00	1,700.00	16,000.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	18.37	238.81	62.46	587.84	1,364.96

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

413B

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/10/2023	1,731.64 *ton*	As-is		59.5	5,200.00	1,100.00	3,100.00		4.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	22.78	236.96	50.13	141.27	867.41

414

Field name: 414

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

Crop: Wheat, silage, soft dough Acres planted: 38 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 (%)
05/17/2023	880.63 *ton*	As-is		71.6	5,400.00	1,100.00	6,200.00		8.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	23.17	250.28	50.98	287.36	1,079.37

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 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 (%)
10/05/2023	1,192.34 *ton*	As-is		67.1	4,300.00	800.00	4,400.00		4.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	31.38	269.85	50.20	276.12	825.85

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

415

Field name: 415

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

Crop: Wheat, silage, soft dough Acres planted: 55 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,083.97 *ton*	As-is		65.9	7,300.00	1,100.00	5,700.00		7.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	19.71	287.74	43.36	224.68	1,034.97

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 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 (%)
10/06/2023	1,411.84 *ton*	As-is		68.8	3,700.00	700.00	4,200.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	25.67	189.96	35.94	215.63	929.04

416

Field name: 416

10/17/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 35 Plant date: 10/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/21/2023	546.64 *ton*	As-is		45.0	10,400.00	2,500.00	16,400.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	15.62	324.86	78.09	512.28	1,340.05

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

416

06/21/2023: Corn, silage

Crop: Corn, silage Acres planted: 35 Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	1,018.91 *ton*	As-is		67.2	3,900.00	700.00	4,100.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	29.11	227.07	40.76	238.72	1,222.23

417

Field name: 417

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 40 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	146.53 *ton*	As-is		8.3	21,900.00	2,500.00	18,100.00		8.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	3.66	160.45	18.32	132.61	564.35

418

Field name: 418

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

418

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 40 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	136.53 *ton*	As-is		6.4	24,000.00	2,800.00	15,300.00		13.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	3.41	163.84	19.11	104.45	881.77

419

Field name: 419

01/01/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 18 Plant date: 01/01/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2023	63.69 *ton*	As-is		6.3	22,100.00	2,600.00	16,800.00		8.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	4.00	143.20	17.60	196.00	0.00
Total actual harvest content	3.54	156.39	18.40	118.89	583.51

420

Field name: 420

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

420

04/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 Plant date: 04/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/14/2023	847.88 *ton*	As-is		68.0	3,800.00	900.00	5,200.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	26.50	201.37	47.69	275.56	1,051.37

421

Field name: 421

04/18/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 Plant date: 04/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/14/2023	648.45 *ton*	As-is		62.7	4,300.00	1,100.00	5,300.00		7.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	224.10	0.00
Total actual harvest content	20.26	174.27	44.58	214.80	1,133.77

Delta 1

Field name: Delta 1

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

Delta 1

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

Crop: Wheat, silage, soft dough Acres planted: 115 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,611.90 *ton*	As-is		72.6	4,100.00	700.00	5,300.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	14.02	114.94	19.62	148.58	983.17

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 115 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 (%)
10/15/2023	2,234.17 *ton*	As-is		64.8	4,000.00	1,600.00	5,000.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	19.43	155.42	62.17	194.28	776.85

Delta 2

Field name: Delta 2

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

Crop: Wheat, silage, soft dough Acres planted: 130 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 (%)
05/22/2023	1,832.80 *ton*	As-is		72.6	4,100.00	700.00	5,300.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	14.10	115.61	19.74	149.44	988.92

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

Delta 2

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 130 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/17/2023	2,548.90 *ton*	As-is		64.8	4,000.00	1,600.00	5,000.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	19.61	156.86	62.74	196.07	784.03

Delta 3

Field name: Delta 3

11/23/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 70 Plant date: 11/23/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	983.20 *ton*	As-is		72.6	4,100.00	700.00	5,300.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	14.05	115.17	19.66	148.88	985.22

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/14/2023	1,387.10 *ton*	As-is		64.8	4,000.00	1,600.00	5,000.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	19.82	158.53	63.41	198.16	792.37

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

Delta 4

Field name: Delta 4

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 99 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 (%)
05/19/2023	1,391.61 *ton*	As-is		72.6	4,100.00	700.00	5,300.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	261.00	48.60	149.40	0.00
Total actual harvest content	14.06	115.26	19.68	149.00	985.99

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 99 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/19/2023	1,913.47 *ton*	As-is		64.8	4,000.00	1,600.00	5,000.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	27.00	313.20	59.40	178.20	0.00
Total actual harvest content	19.33	154.62	61.85	193.28	772.87

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

401 - 11/22/2022: Wheat, silage, soft dough

Field name: 401

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/14/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.34	0.00	0.00	80.43	7,068,000.00 *gal*
Application event totals		1.34	0.00	0.00	80.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/13/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.55	0.00	0.00	33.08	2,907,000.00 *gal*
Application event totals		0.55	0.00	0.00	33.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	110.96	17.95	167.05	923.44	1,291,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.67	0.00	0.00	40.22	3,534,000.00 *gal*
Application event totals		111.63	17.95	167.05	963.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	121.79	19.71	183.35	1,013.53	1,417,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.97	0.00	0.00	58.38	5,130,000.00 *gal*
Application event totals		122.76	19.71	183.35	1,071.91	

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

401 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
WWS	Process wastewater	119.08	19.27	179.28	991.01	1,386,000.00 *gal*
CWD-Chowchilla Canal	Surface water	0.94	0.00	0.00	56.43	4,959,000.00 *gal*
Application event totals		120.02	19.27	179.28	1,047.44	

401 - 06/09/2023: Corn, silage

Field name: 401

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	105.55	17.08	158.90	878.40	1,228,500.00 *gal*
CWD-Chowchilla Canal	Surface water	1.39	0.00	0.00	83.67	7,353,000.00 *gal*
Application event totals		106.94	17.08	158.90	962.07	

06/09/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
IW-10	Ground water	1.55	0.00	0.00	292.55	7,174,440.00 *gal*
CWD-Justin Canal	Surface water	0.93	0.00	0.00	43.73	4,905,600.00 *gal*
Application event totals		43.02	0.00	0.00	336.28	

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

401 - 06/09/2023: 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
WWS	Process wastewater	87.86	14.51	76.73	858.14	1,197,000.00 *gal*
CWD-Justin Canal	Surface water	0.97	0.00	0.00	45.53	5,107,200.00 *gal*
Application event totals		88.83	14.51	76.73	903.67	

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
CWD-Justin Canal	Surface water	1.13	0.00	0.00	53.31	5,980,800.00 *gal*
Application event totals		1.13	0.00	0.00	53.31	

08/07/2023	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
CWD-Justin Canal	Surface water	0.70	0.00	0.00	32.95	3,696,000.00 *gal*
Application event totals		0.70	0.00	0.00	32.95	

08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.94	0.00	0.00	56.43	4,959,000.00 *gal*
Application event totals		0.94	0.00	0.00	56.43	

08/29/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.52	0.00	0.00	31.13	2,736,000.00 *gal*
Application event totals		0.52	0.00	0.00	31.13	

09/07/2023	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
WWS	Process wastewater	97.11	16.03	84.81	948.47	1,323,000.00 *gal*
CWD-Chowchilla Canal	Surface water	0.91	0.00	0.00	54.49	4,788,000.00 *gal*
Application event totals		98.01	16.03	84.81	1,002.96	

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

401 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.77	0.00	0.00	46.05	4,047,000.00 *gal*
Application event totals		0.77	0.00	0.00	46.05	

402 - 11/22/2022: Wheat, silage, soft dough

Field name: 402

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/08/2023	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
WWS	Process wastewater	115.11	18.63	173.30	957.98	913,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.70	0.00	0.00	41.86	2,508,000.00 *gal*
Application event totals		115.81	18.63	173.30	999.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.81	0.00	0.00	48.52	2,907,000.00 *gal*
Application event totals		0.81	0.00	0.00	48.52	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	95.26	15.41	143.42	792.81	756,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.27	0.00	0.00	76.11	4,560,000.00 *gal*
Application event totals		96.53	15.41	143.42	868.91	

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

402 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/24/2023	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
WWS	Process wastewater	127.02	20.55	191.23	1,057.08	1,008,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.49	0.00	0.00	89.43	5,358,000.00 *gal*
Application event totals		128.51	20.55	191.23	1,146.50	

402 - 06/10/2023: Corn, silage

Field name: 402

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	95.26	15.41	143.42	792.81	756,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.25	0.00	0.00	75.16	4,503,000.00 *gal*
Application event totals		96.52	15.41	143.42	867.96	

06/10/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Chowchilla Canal	Surface water	0.98	0.00	0.00	58.98	3,534,000.00 *gal*
Application event totals		41.52	0.00	0.00	58.98	

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

402 - 06/10/2023: 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
CWD-Chowchilla Canal	Surface water	1.08	0.00	0.00	64.69	3,876,000.00 *gal*
Application event totals		1.08	0.00	0.00	64.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	98.34	16.24	85.89	960.52	913,500.00 *gal*
CWD-Chowchilla Canal	Surface water	1.14	0.00	0.00	68.50	4,104,000.00 *gal*
Application event totals		99.48	16.24	85.89	1,029.01	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Chowchilla Canal	Surface water	1.08	0.00	0.00	64.69	3,876,000.00 *gal*
Application event totals		1.08	0.00	0.00	64.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Chowchilla Canal	Surface water	0.90	0.00	0.00	54.23	3,249,000.00 *gal*
Application event totals		0.90	0.00	0.00	54.23	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.00	0.00	0.00	59.93	3,591,000.00 *gal*
Application event totals		1.00	0.00	0.00	59.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	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
WWS	Process wastewater	101.73	16.80	88.85	993.64	945,000.00 *gal*
CWD-Chowchilla Canal	Surface water	0.78	0.00	0.00	46.62	2,793,000.00 *gal*
Application event totals		102.51	16.80	88.85	1,040.25	

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

402 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.11	0.00	0.00	66.59	3,990,000.00 *gal*
Application event totals		1.11	0.00	0.00	66.59	

403A - 11/01/2015: Almond, in shell

Field name: 403A

Crop: Almond, in shell

Plant date: 11/01/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
CAN 17	Solid commercial fertilizer	74.97	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.71	0.00	0.00	33.53	684,000.00 *gal*
Application event totals		75.68	0.00	0.00	33.53	

05/08/2023	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
CWD-Justin Canal	Surface water	1.04	0.00	0.00	48.90	997,500.00 *gal*
Application event totals		1.04	0.00	0.00	48.90	

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
NPK	Solid commercial fertilizer	146.39	5.19	179.74	0.00	
CWD-Justin Canal	Surface water	1.07	0.00	0.00	50.30	1,026,000.00 *gal*
Application event totals		147.46	5.19	179.74	50.30	

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

403A - 11/01/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	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
CWD-Justin Canal	Surface water	0.98	0.00	0.00	46.11	940,500.00 *gal*
Application event totals		0.98	0.00	0.00	46.11	

06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.13	0.00	0.00	53.10	1,083,000.00 *gal*
Application event totals		1.13	0.00	0.00	53.10	

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
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.51	969,000.00 *gal*
Application event totals		1.01	0.00	0.00	47.51	

07/13/2023	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
CWD-Justin Canal	Surface water	1.37	0.00	0.00	64.27	1,311,000.00 *gal*
Application event totals		1.37	0.00	0.00	64.27	

08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.19	0.00	0.00	55.89	1,140,000.00 *gal*
Application event totals		1.19	0.00	0.00	55.89	

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
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.51	969,000.00 *gal*
Application event totals		1.01	0.00	0.00	47.51	

403B - 01/01/2022: Almond, in shell

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

403B - 01/01/2022: Almond, in shell

Field name: 403B

Crop: Almond, in shell

Plant date: 01/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	9.87	0.00	0.00	463.89	9,462,000.00 *gal*
Application event totals		9.87	0.00	0.00	463.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/23/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN 17	Solid commercial fertilizer	80.33	0.00	0.00	0.00	
Application event totals		80.33	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/24/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	64.58	2.29	79.30	0.00	
Application event totals		64.58	2.29	79.30	0.00	

404 - 11/01/2015: Almond, in shell

Field name: 404

Crop: Almond, in shell

Plant date: 11/01/2015

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
CAN 17	Solid commercial fertilizer	74.97	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.80	0.00	0.00	37.83	1,254,000.00 *gal*
Application event totals		75.77	0.00	0.00	37.83	

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

404 - 11/01/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/08/2023	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
CWD-Justin Canal	Surface water	1.21	0.00	0.00	56.75	1,881,000.00 *gal*
Application event totals		1.21	0.00	0.00	56.75	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	146.39	5.19	179.74	0.00	
CWD-Justin Canal	Surface water	1.17	0.00	0.00	55.03	1,824,000.00 *gal*
Application event totals		147.56	5.19	179.74	55.03	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.43	0.00	0.00	67.07	2,223,000.00 *gal*
Application event totals		1.43	0.00	0.00	67.07	

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
CWD-Justin Canal	Surface water	1.59	0.00	0.00	74.81	2,479,500.00 *gal*
Application event totals		1.59	0.00	0.00	74.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	1.15	0.00	0.00	54.17	1,795,500.00 *gal*
Application event totals		1.15	0.00	0.00	54.17	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.99	0.00	0.00	46.43	1,539,000.00 *gal*
Application event totals		0.99	0.00	0.00	46.43	

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

404 - 11/01/2015: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.75	0.00	0.00	35.25	1,168,500.00 *gal*
Application event totals		0.75	0.00	0.00	35.25	

08/10/2023	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
CWD-Justin Canal	Surface water	0.73	0.00	0.00	34.39	1,140,000.00 *gal*
Application event totals		0.73	0.00	0.00	34.39	

405 - 11/15/2022: Wheat, silage, soft dough

Field name: 405

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
12/06/2022	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
WWS	Process wastewater	91.90	13.57	117.76	646.51	882,000.00 *gal*
CWD-Justin Canal	Surface water	0.54	0.00	0.00	25.38	2,394,000.00 *gal*
Application event totals		92.44	13.57	117.76	671.89	

01/13/2023	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
WWS	Process wastewater	119.08	19.27	179.28	991.01	1,165,500.00 *gal*
CWD-Justin Canal	Surface water	0.72	0.00	0.00	33.84	3,192,000.00 *gal*
Application event totals		119.80	19.27	179.28	1,024.85	

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

405 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.00	0.00	0.00	47.13	4,446,000.00 *gal*
Application event totals		1.00	0.00	0.00	47.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/22/2023	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
WWS	Process wastewater	106.21	17.19	159.89	883.87	1,039,500.00 *gal*
CWD-Justin Canal	Surface water	0.71	0.00	0.00	33.23	3,135,000.00 *gal*
Application event totals		106.91	17.19	159.89	917.11	

405 - 06/10/2023: Corn, silage

Field name: 405

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.72	0.00	0.00	33.84	3,192,000.00 *gal*
Application event totals		0.72	0.00	0.00	33.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/10/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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

405 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/28/2023	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
WWS	Process wastewater	122.30	19.79	184.12	1,017.79	1,197,000.00 *gal*
CWD-Justin Canal	Surface water	0.49	0.00	0.00	22.96	2,166,000.00 *gal*
Application event totals		122.79	19.79	184.12	1,040.76	

07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.94	0.00	0.00	44.11	4,161,000.00 *gal*
Application event totals		41.48	0.00	0.00	44.11	

07/27/2023	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
CWD-Justin Canal	Surface water	1.02	0.00	0.00	47.73	4,503,000.00 *gal*
Application event totals		1.02	0.00	0.00	47.73	

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
CWD-Justin Canal	Surface water	0.71	0.00	0.00	33.23	3,135,000.00 *gal*
Application event totals		0.71	0.00	0.00	33.23	

08/22/2023	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
CWD-Justin Canal	Surface water	0.95	0.00	0.00	44.71	4,218,000.00 *gal*
Application event totals		0.95	0.00	0.00	44.71	

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

405 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	123.73	20.43	108.06	1,208.48	1,417,500.00 *gal*
CWD-Justin Canal	Surface water	1.75	0.00	0.00	82.17	7,752,000.00 *gal*
Application event totals		125.47	20.43	108.06	1,290.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/14/2023	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
CWD-Justin Canal	Surface water	1.12	0.00	0.00	52.57	4,959,000.00 *gal*
Application event totals		1.12	0.00	0.00	52.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/21/2023	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
CWD-Justin Canal	Surface water	0.87	0.00	0.00	41.09	3,876,000.00 *gal*
Application event totals		0.87	0.00	0.00	41.09	

406 - 10/18/2022: Wheat, silage, soft dough

Field name: 406

Crop: Wheat, silage, soft dough

Plant date: 10/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/22/2022	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
CWD-Justin Canal	Surface water	1.43	0.00	0.00	67.07	6,327,000.00 *gal*
Application event totals		1.43	0.00	0.00	67.07	

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

406 - 10/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	199.54	32.29	300.41	1,660.61	1,953,000.00 *gal*
CWD-Justin Canal	Surface water	0.80	0.00	0.00	37.46	3,534,000.00 *gal*
Application event totals		200.33	32.29	300.41	1,698.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.69	0.00	0.00	32.63	3,078,000.00 *gal*
Application event totals		0.69	0.00	0.00	32.63	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/08/2023	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
CWD-Justin Canal	Surface water	0.68	0.00	0.00	32.02	3,021,000.00 *gal*
Application event totals		0.68	0.00	0.00	32.02	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/29/2023	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
WWS	Process wastewater	167.35	27.08	251.95	1,392.77	1,638,000.00 *gal*
CWD-Justin Canal	Surface water	0.67	0.00	0.00	31.42	2,964,000.00 *gal*
Application event totals		168.02	27.08	251.95	1,424.19	

406 - 05/16/2023: Corn, silage

Field name: 406

Crop: Corn, silage

Plant date: 05/16/2023

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

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

406 - 05/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.50	0.00	0.00	70.69	6,669,000.00 *gal*
Application event totals		1.50	0.00	0.00	70.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/09/2023	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
CWD-Justin Canal	Surface water	0.89	0.00	0.00	41.69	3,933,000.00 *gal*
Application event totals		0.89	0.00	0.00	41.69	

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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.80	0.00	0.00	37.46	3,534,000.00 *gal*
Application event totals		41.34	0.00	0.00	37.46	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/28/2023	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
WWS	Process wastewater	145.72	24.06	127.27	1,423.32	1,669,500.00 *gal*
CWD-Justin Canal	Surface water	1.54	0.00	0.00	72.51	6,840,000.00 *gal*
Application event totals		147.26	24.06	127.27	1,495.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	1.03	0.00	0.00	48.34	4,560,000.00 *gal*
Application event totals		1.03	0.00	0.00	48.34	

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

406 - 05/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	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
WWS	Process wastewater	129.22	21.34	112.86	1,262.19	1,480,500.00 *gal*
CWD-Justin Canal	Surface water	0.91	0.00	0.00	42.90	4,047,000.00 *gal*
Application event totals		130.14	21.34	112.86	1,305.09	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	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
CWD-Justin Canal	Surface water	1.45	0.00	0.00	68.28	6,441,000.00 *gal*
Application event totals		1.45	0.00	0.00	68.28	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.04	0.00	0.00	48.94	4,617,000.00 *gal*
Application event totals		1.04	0.00	0.00	48.94	

407 - 10/18/2022: Wheat, silage, soft dough

Field name: 407

Crop: Wheat, silage, soft dough

Plant date: 10/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/20/2022	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
CWD-Justin Canal	Surface water	1.54	0.00	0.00	72.18	6,441,000.00 *gal*
Application event totals		1.54	0.00	0.00	72.18	

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

407 - 10/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/30/2022	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
WWS	Process wastewater	138.79	20.49	177.85	976.37	1,260,000.00 *gal*
CWD-Justin Canal	Surface water	1.09	0.00	0.00	51.10	4,560,000.00 *gal*
Application event totals		139.88	20.49	177.85	1,027.47	

01/24/2023	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
CWD-Justin Canal	Surface water	0.87	0.00	0.00	40.88	3,648,000.00 *gal*
Application event totals		0.87	0.00	0.00	40.88	

02/13/2023	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
WWS	Process wastewater	193.93	31.38	291.96	1,613.93	1,795,500.00 *gal*
CWD-Justin Canal	Surface water	0.77	0.00	0.00	36.41	3,249,000.00 *gal*
Application event totals		194.70	31.38	291.96	1,650.34	

407 - 05/16/2023: Corn, silage

Field name: 407

Crop: Corn, silage

Plant date: 05/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/04/2023	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
CWD-Justin Canal	Surface water	1.30	0.00	0.00	61.32	5,472,000.00 *gal*
Application event totals		1.30	0.00	0.00	61.32	

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

407 - 05/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/17/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

06/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.98	0.00	0.00	45.99	4,104,000.00 *gal*
Application event totals		0.98	0.00	0.00	45.99	

06/28/2023	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
WWS	Process wastewater	125.88	20.37	189.52	1,047.64	1,165,500.00 *gal*
CWD-Justin Canal	Surface water	1.20	0.00	0.00	56.21	5,016,000.00 *gal*
Application event totals		127.08	20.37	189.52	1,103.85	

07/08/2023	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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.98	0.00	0.00	45.99	4,104,000.00 *gal*
Application event totals		41.52	0.00	0.00	45.99	

07/21/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.27	4,218,000.00 *gal*
Application event totals		1.01	0.00	0.00	47.27	

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

407 - 05/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/29/2023	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
WWS	Process wastewater	98.82	16.32	86.31	965.25	1,071,000.00 *gal*
CWD-Justin Canal	Surface water	1.05	0.00	0.00	49.18	4,389,000.00 *gal*
Application event totals		99.87	16.32	86.31	1,014.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.27	4,218,000.00 *gal*
Application event totals		1.01	0.00	0.00	47.27	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/20/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.06	0.00	0.00	49.82	4,446,000.00 *gal*
Application event totals		1.06	0.00	0.00	49.82	

408 - 11/15/2022: Wheat, silage, soft dough

Field name: 408

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
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.85	0.00	0.00	39.88	3,762,000.00 *gal*
Application event totals		0.85	0.00	0.00	39.88	

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

408 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/03/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	102.99	16.66	155.05	857.09	1,008,000.00 *gal*
CWD-Justin Canal	Surface water	0.82	0.00	0.00	38.67	3,648,000.00 *gal*
Application event totals		103.81	16.66	155.05	895.76	

03/31/2023	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
WWS	Process wastewater	151.26	24.48	227.73	1,258.85	1,480,500.00 *gal*
CWD-Justin Canal	Surface water	1.38	0.00	0.00	64.65	6,099,000.00 *gal*
Application event totals		152.64	24.48	227.73	1,323.50	

408 - 06/08/2023: Corn, silage

Field name: 408

Crop: Corn, silage

Plant date: 06/08/2023

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
CWD-Justin Canal	Surface water	1.29	0.00	0.00	60.42	5,700,000.00 *gal*
Application event totals		1.29	0.00	0.00	60.42	

06/08/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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

408 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.84	0.00	0.00	39.27	3,705,000.00 *gal*
Application event totals		0.84	0.00	0.00	39.27	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.77	0.00	0.00	36.25	3,420,000.00 *gal*
Application event totals		0.77	0.00	0.00	36.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.62	0.00	0.00	29.00	2,736,000.00 *gal*
Application event totals		41.16	0.00	0.00	29.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	1.12	0.00	0.00	52.57	4,959,000.00 *gal*
Application event totals		1.12	0.00	0.00	52.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	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
WWS	Process wastewater	115.48	19.07	100.86	1,127.91	1,323,000.00 *gal*
CWD-Justin Canal	Surface water	0.81	0.00	0.00	38.07	3,591,000.00 *gal*
Application event totals		116.29	19.07	100.86	1,165.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/07/2023	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
CWD-Justin Canal	Surface water	0.68	0.00	0.00	32.02	3,021,000.00 *gal*
Application event totals		0.68	0.00	0.00	32.02	

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

408 - 06/08/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.86	0.00	0.00	6.03	3,819,000.00 *gal*
Application event totals		0.86	0.00	0.00	6.03	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	164.97	27.24	144.08	1,611.31	1,890,000.00 *gal*
CWD-Justin Canal	Surface water	1.16	0.00	0.00	54.38	5,130,000.00 *gal*
Application event totals		166.12	27.24	144.08	1,665.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.08	0.00	0.00	50.75	4,788,000.00 *gal*
Application event totals		1.08	0.00	0.00	50.75	

409 - 11/15/2022: Wheat, silage, soft dough

Field name: 409

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
12/15/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	160.48	23.69	205.64	1,128.92	2,331,000.00 *gal*
CWD-Justin Canal	Surface water	1.58	0.00	0.00	74.25	10,602,000.00 *gal*
Application event totals		162.06	23.69	205.64	1,203.18	

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

409 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.81	0.00	0.00	37.93	5,415,000.00 *gal*
Application event totals		0.81	0.00	0.00	37.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/27/2023	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
WWS	Process wastewater	144.60	23.40	217.69	1,203.37	2,142,000.00 *gal*
CWD-Justin Canal	Surface water	0.86	0.00	0.00	40.32	5,757,000.00 *gal*
Application event totals		145.45	23.40	217.69	1,243.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/22/2023	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
CWD-Justin Canal	Surface water	1.23	0.00	0.00	57.89	8,265,000.00 *gal*
Application event totals		1.23	0.00	0.00	57.89	

409 - 06/20/2023: Corn, silage

Field name: 409

Crop: Corn, silage

Plant date: 06/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.38	0.00	0.00	65.07	9,291,000.00 *gal*
Application event totals		1.38	0.00	0.00	65.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/20/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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

409 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/28/2023	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
CWD-Justin Canal	Surface water	1.33	0.00	0.00	62.68	8,949,000.00 *gal*
Application event totals		1.33	0.00	0.00	62.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	121.71	20.10	106.30	1,188.82	2,110,500.00 *gal*
CWD-Justin Canal	Surface water	1.13	0.00	0.00	53.10	7,581,000.00 *gal*
Application event totals		122.84	20.10	106.30	1,241.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	1.12	0.00	0.00	52.70	7,524,000.00 *gal*
Application event totals		41.66	0.00	0.00	52.70	

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
CWD-Justin Canal	Surface water	0.86	0.00	0.00	40.32	5,757,000.00 *gal*
Application event totals		0.86	0.00	0.00	40.32	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	143.51	23.70	125.34	1,401.74	2,488,500.00 *gal*
CWD-Justin Canal	Surface water	0.89	0.00	0.00	41.92	5,985,000.00 *gal*
Application event totals		144.40	23.70	125.34	1,443.66	

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

409 - 06/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.83	0.00	0.00	39.12	5,586,000.00 *gal*
Application event totals		0.83	0.00	0.00	39.12	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	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
CWD-Justin Canal	Surface water	0.94	0.00	0.00	44.31	6,327,000.00 *gal*
Application event totals		0.94	0.00	0.00	44.31	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/29/2023	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
CWD-Justin Canal	Surface water	0.62	0.00	0.00	29.14	4,161,000.00 *gal*
Application event totals		0.62	0.00	0.00	29.14	

410 - 11/19/2022: Alfalfa, hay

Field name: 410

Crop: Alfalfa, hay

Plant date: 11/19/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/19/2022	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.07	0.00	0.00	50.40	7,068,000.00 *gal*
Application event totals		1.07	0.00	0.00	50.40	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.18	0.00	0.00	55.28	7,752,000.00 *gal*
Application event totals		1.18	0.00	0.00	55.28	

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

410 - 11/19/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.34	0.00	0.00	63.00	8,835,000.00 *gal*
Application event totals		1.34	0.00	0.00	63.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.18	0.00	0.00	55.28	7,752,000.00 *gal*
Application event totals		1.18	0.00	0.00	55.28	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	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
CWD-Justin Canal	Surface water	1.32	0.00	0.00	62.19	8,721,000.00 *gal*
Application event totals		1.32	0.00	0.00	62.19	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-10	Ground water	0.28	0.00	0.00	51.99	1,593,600.00 *gal*
CWD-Justin Canal	Surface water	0.72	0.00	0.00	33.74	4,731,000.00 *gal*
Application event totals		0.99	0.00	0.00	85.72	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	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
CWD-Justin Canal	Surface water	0.75	0.00	0.00	35.36	4,959,000.00 *gal*
Application event totals		0.75	0.00	0.00	35.36	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	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
IW-10	Ground water	0.17	0.00	0.00	32.57	998,400.00 *gal*
CWD-Justin Canal	Surface water	0.45	0.00	0.00	21.14	2,964,000.00 *gal*
Application event totals		0.62	0.00	0.00	53.71	

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

410 - 11/19/2022: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.55	0.00	0.00	72.76	10,203,000.00 *gal*
Application event totals		1.55	0.00	0.00	72.76	

411 - 11/16/2022: Wheat, silage, soft dough

Field name: 411

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/06/2022	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
Solid Manure	Corral solids	262.46	71.68	365.02	0.00	280.00 *ton*
Application event totals		262.46	71.68	365.02	0.00	

01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.66	0.00	0.00	77.96	7,752,000.00 *gal*
Application event totals		1.66	0.00	0.00	77.96	

04/13/2023	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
CWD-Justin Canal	Surface water	1.64	0.00	0.00	77.09	7,665,000.00 *gal*
Application event totals		1.64	0.00	0.00	77.09	

411 - 06/21/2023: Corn, silage

Field name: 411

Crop: Corn, silage Plant date: 06/21/2023

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

411 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/17/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	210.43	109.69	561.90	16,722.69	516.00 *ton*
Application event totals		210.43	109.69	561.90	16,722.69	

06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-12-1	Ground water	2.81	0.00	0.00	239.38	5,039,400.00 *gal*
Application event totals		2.81	0.00	0.00	239.38	

06/21/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-12-1	Ground water	1.08	0.00	0.00	91.75	1,931,400.00 *gal*
IW-12-D	Ground water	0.54	0.00	0.00	25.25	2,510,820.00 *gal*
Application event totals		1.62	0.00	0.00	117.00	

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
UN32	Solid commercial fertilizer	84.48	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.58	4,731,000.00 *gal*
Application event totals		85.49	0.00	0.00	47.58	

07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.88	0.00	0.00	41.27	4,104,000.00 *gal*
Application event totals		0.88	0.00	0.00	41.27	

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

411 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.73	0.00	0.00	34.39	3,420,000.00 *gal*
Application event totals		0.73	0.00	0.00	34.39	

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
CWD-Justin Canal	Surface water	1.17	0.00	0.00	55.03	5,472,000.00 *gal*
Application event totals		1.17	0.00	0.00	55.03	

08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.27	0.00	0.00	59.62	5,928,000.00 *gal*
Application event totals		1.27	0.00	0.00	59.62	

09/08/2023	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
CWD-Justin Canal	Surface water	0.88	0.00	0.00	41.27	4,104,000.00 *gal*
Application event totals		0.88	0.00	0.00	41.27	

09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.73	0.00	0.00	34.39	3,420,000.00 *gal*
Application event totals		0.73	0.00	0.00	34.39	

10/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.59	0.00	0.00	27.52	2,736,000.00 *gal*
Application event totals		0.59	0.00	0.00	27.52	

412A - 11/16/2022: Wheat, silage, soft dough

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

412A - 11/16/2022: Wheat, silage, soft dough

Field name: 412A

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
Solid Manure	Corral solids	327.75	89.51	455.82	0.00	520.00 *ton*
Application event totals		327.75	89.51	455.82	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.37	0.00	0.00	64.37	9,519,000.00 *gal*
Application event totals		1.37	0.00	0.00	64.37	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/09/2023	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
CWD-Justin Canal	Surface water	1.99	0.00	0.00	93.30	13,797,000.00 *gal*
Application event totals		1.99	0.00	0.00	93.30	

412A - 06/21/2023: Corn, silage

Field name: 412A

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/17/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	200.73	104.64	535.99	15,951.59	732.00 *ton*
Application event totals		200.73	104.64	535.99	15,951.59	

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

412A - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/04/2023	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
CWD-Justin Canal	Surface water	1.47	0.00	0.00	69.00	10,203,000.00 *gal*
Application event totals		1.47	0.00	0.00	69.00	

06/21/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-12-1	Ground water	0.91	0.00	0.00	77.29	2,419,800.00 *gal*
IW-12-D	Ground water	0.45	0.00	0.00	13.13	3,145,740.00 *gal*
Application event totals		1.36	0.00	0.00	90.42	

07/24/2023	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
UN32	Solid commercial fertilizer	84.48	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	1.05	0.00	0.00	49.34	7,296,000.00 *gal*
Application event totals		85.53	0.00	0.00	49.34	

08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.93	0.00	0.00	43.94	6,498,000.00 *gal*
Application event totals		0.93	0.00	0.00	43.94	

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
CWD-Justin Canal	Surface water	0.98	0.00	0.00	46.25	6,840,000.00 *gal*
Application event totals		0.98	0.00	0.00	46.25	

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

412A - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.98	0.00	0.00	46.25	6,840,000.00 *gal*
Application event totals		0.98	0.00	0.00	46.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	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
CWD-Justin Canal	Surface water	1.08	0.00	0.00	50.88	7,524,000.00 *gal*
Application event totals		1.08	0.00	0.00	50.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.59	0.00	0.00	27.75	4,104,000.00 *gal*
Application event totals		0.59	0.00	0.00	27.75	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.74	0.00	0.00	34.69	5,130,000.00 *gal*
Application event totals		0.74	0.00	0.00	34.69	

412B - 01/01/2022: Almond, in shell

Field name: 412B

Crop: Almond, in shell

Plant date: 01/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	8.29	0.00	0.00	389.76	55,650,000.00 *gal*
Application event totals		8.29	0.00	0.00	389.76	

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

412B - 01/01/2022: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/17/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN 17	Solid commercial fertilizer	40.41	0.00	0.00	0.00	
Application event totals		40.41	0.00	0.00	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/18/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	64.99	2.30	79.79	0.00	
Application event totals		64.99	2.30	79.79	0.00	

413A - 11/16/2022: Wheat, silage, soft dough

Field name: 413A

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/09/2022	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
Solid Manure	Corral solids	345.81	94.44	480.93	0.00	350.00 *ton*
Application event totals		345.81	94.44	480.93	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-166	Ground water	29.90	0.00	0.00	1,223.91	7,752,240.00 *gal*
Application event totals		29.90	0.00	0.00	1,223.91	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.56	0.00	0.00	73.13	6,898,500.00 *gal*
Application event totals		1.56	0.00	0.00	73.13	

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

413A - 06/13/2023: Corn, silage

Field name: 413A

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	190.86	99.49	509.63	15,167.09	444.00 *ton*
Application event totals		190.86	99.49	509.63	15,167.09	

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
IW-166	Ground water	23.03	0.00	0.00	942.74	5,971,320.00 *gal*
Application event totals		23.03	0.00	0.00	942.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/13/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Liquid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
IW-166	Ground water	19.80	0.00	0.00	810.43	5,133,240.00 *gal*
Application event totals		19.80	0.00	0.00	810.43	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/14/2023	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
UN32	Solid commercial fertilizer	84.48	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.95	0.00	0.00	44.71	4,218,000.00 *gal*
Application event totals		85.43	0.00	0.00	44.71	

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

413A - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.93	0.00	0.00	43.50	4,104,000.00 *gal*
Application event totals		0.93	0.00	0.00	43.50	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/19/2023	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
CWD-Justin Canal	Surface water	1.34	0.00	0.00	62.84	5,928,000.00 *gal*
Application event totals		1.34	0.00	0.00	62.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.95	0.00	0.00	44.71	4,218,000.00 *gal*
Application event totals		0.95	0.00	0.00	44.71	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/09/2023	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
CWD-Justin Canal	Surface water	1.54	0.00	0.00	72.51	6,840,000.00 *gal*
Application event totals		1.54	0.00	0.00	72.51	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.98	0.00	0.00	45.92	4,332,000.00 *gal*
Application event totals		0.98	0.00	0.00	45.92	

413B - 11/16/2022: Wheat, silage, soft dough

Field name: 413B

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

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

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

413B - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/11/2022	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
Solid Manure	Separator solids	117.92	14.41	34.72	0.00	984.00 *ton*
Application event totals		117.92	14.41	34.72	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/01/2023	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
Urea	Solid commercial fertilizer	150.00	0.00	0.00	0.00	
IW-12-1	Ground water	0.59	0.00	0.00	49.79	2,042,400.00 *gal*
IW-166	Ground water	18.10	0.00	0.00	740.79	9,637,920.00 *gal*
Application event totals		168.68	0.00	0.00	790.57	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/16/2023	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
CWD-Justin Canal	Surface water	1.40	0.00	0.00	65.89	12,768,000.00 *gal*
Application event totals		1.40	0.00	0.00	65.89	

413B - 06/12/2023: Corn, silage

Field name: 413B

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/16/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	188.35	98.18	502.92	14,967.52	900.00 *ton*
Application event totals		188.35	98.18	502.92	14,967.52	

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

413B - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.66	0.00	0.00	77.98	15,111,000.00 *gal*
Application event totals		1.66	0.00	0.00	77.98	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/12/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.25	0.00	0.00	58.83	11,400,000.00 *gal*
Application event totals		1.25	0.00	0.00	58.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Solid commercial fertilizer	84.48	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.91	0.00	0.00	42.95	8,322,000.00 *gal*
Application event totals		85.39	0.00	0.00	42.95	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/27/2023	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
CWD-Justin Canal	Surface water	0.86	0.00	0.00	40.59	7,866,000.00 *gal*
Application event totals		0.86	0.00	0.00	40.59	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.75	0.00	0.00	35.30	6,840,000.00 *gal*
Application event totals		0.75	0.00	0.00	35.30	

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

413B - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.13	0.00	0.00	52.95	10,260,000.00 *gal*
Application event totals		1.13	0.00	0.00	52.95	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/08/2023	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
CWD-Justin Canal	Surface water	1.53	0.00	0.00	72.07	13,965,000.00 *gal*
Application event totals		1.53	0.00	0.00	72.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/21/2023	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
CWD-Justin Canal	Surface water	0.97	0.00	0.00	45.59	8,835,000.00 *gal*
Application event totals		0.97	0.00	0.00	45.59	

414 - 11/15/2022: Wheat, silage, soft dough

Field name: 414

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
12/08/2022	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
WWS	Process wastewater	99.07	14.63	126.95	696.94	976,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.78	0.00	0.00	46.57	3,534,000.00 *gal*
Application event totals		99.85	14.63	126.95	743.51	

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

414 - 11/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/09/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	122.21	19.78	183.99	1,017.09	1,228,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.73	0.00	0.00	43.56	3,306,000.00 *gal*
Application event totals		122.94	19.78	183.99	1,060.65	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.90	0.00	0.00	54.08	4,104,000.00 *gal*
Application event totals		0.90	0.00	0.00	54.08	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/03/2023	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
WWS	Process wastewater	90.88	14.70	136.82	756.30	913,500.00 *gal*
CWD-Chowchilla Canal	Surface water	1.43	0.00	0.00	85.62	6,498,000.00 *gal*
Application event totals		92.30	14.70	136.82	841.92	

414 - 06/10/2023: Corn, silage

Field name: 414

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	134.75	21.80	202.86	1,121.41	1,354,500.00 *gal*
CWD-Justin Canal	Surface water	1.08	0.00	0.00	50.60	4,902,000.00 *gal*
Application event totals		135.82	21.80	202.86	1,172.00	

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

414 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/10/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

07/03/2023	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
CWD-Justin Canal	Surface water	1.24	0.00	0.00	58.24	5,643,000.00 *gal*
Application event totals		1.24	0.00	0.00	58.24	

07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	1.04	0.00	0.00	48.83	4,731,000.00 *gal*
Application event totals		41.58	0.00	0.00	48.83	

07/28/2023	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
CWD-Justin Canal	Surface water	1.15	0.00	0.00	54.13	5,244,000.00 *gal*
Application event totals		1.15	0.00	0.00	54.13	

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
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.65	4,617,000.00 *gal*
Application event totals		1.01	0.00	0.00	47.65	

08/19/2023	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
WWS	Process wastewater	117.79	19.45	102.88	1,150.53	1,386,000.00 *gal*
CWD-Justin Canal	Surface water	1.00	0.00	0.00	47.07	4,560,000.00 *gal*
Application event totals		118.79	19.45	102.88	1,197.60	

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

414 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/03/2023	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
CWD-Justin Canal	Surface water	0.93	0.00	0.00	43.54	4,218,000.00 *gal*
Application event totals		0.93	0.00	0.00	43.54	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.10	0.00	0.00	51.77	5,016,000.00 *gal*
Application event totals		1.10	0.00	0.00	51.77	

415 - 11/16/2022: Wheat, silage, soft dough

Field name: 415

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/09/2022	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
WWS	Process wastewater	134.69	19.88	172.59	947.52	1,921,500.00 *gal*
CWD-Chowchilla Canal	Surface water	0.80	0.00	0.00	47.74	5,244,000.00 *gal*
Application event totals		135.49	19.88	172.59	995.26	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	90.93	14.71	136.90	756.77	1,323,000.00 *gal*
CWD-Chowchilla Canal	Surface water	0.82	0.00	0.00	49.30	5,415,000.00 *gal*
Application event totals		91.75	14.71	136.90	806.07	

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

415 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.02	0.00	0.00	61.23	6,726,000.00 *gal*
Application event totals		1.02	0.00	0.00	61.23	

03/08/2023	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
WWS	Process wastewater	108.25	17.52	162.98	900.92	1,575,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.08	0.00	0.00	64.86	7,125,000.00 *gal*
Application event totals		109.33	17.52	162.98	965.78	

415 - 06/09/2023: Corn, silage

Field name: 415

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/22/2023	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
WWS	Process wastewater	110.42	17.87	166.24	918.94	1,606,500.00 *gal*
CWD-Justin Canal	Surface water	0.91	0.00	0.00	42.65	5,980,800.00 *gal*
Application event totals		111.33	17.87	166.24	961.59	

06/09/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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

415 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.14	0.00	0.00	53.66	7,524,000.00 *gal*
Application event totals		1.14	0.00	0.00	53.66	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.99	0.00	0.00	46.74	6,555,000.00 *gal*
Application event totals		41.53	0.00	0.00	46.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.09	0.00	0.00	51.22	7,182,000.00 *gal*
Application event totals		1.09	0.00	0.00	51.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/10/2023	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
CWD-Justin Canal	Surface water	0.76	0.00	0.00	35.77	5,016,000.00 *gal*
Application event totals		0.76	0.00	0.00	35.77	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/22/2023	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
WWS	Process wastewater	90.63	14.96	79.16	885.24	1,543,500.00 *gal*
CWD-Justin Canal	Surface water	0.80	0.00	0.00	37.40	5,244,000.00 *gal*
Application event totals		91.43	14.96	79.16	922.64	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.24	0.00	0.00	58.13	8,151,000.00 *gal*
Application event totals		1.24	0.00	0.00	58.13	

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

415 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/13/2023	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
CWD-Justin Canal	Surface water	1.11	0.00	0.00	52.03	7,296,000.00 *gal*
Application event totals		1.11	0.00	0.00	52.03	

416 - 10/17/2022: Wheat, silage, soft dough

Field name: 416

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/07/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	124.91	18.44	160.06	878.73	1,134,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.10	0.00	0.00	66.05	4,617,000.00 *gal*
Application event totals		126.02	18.44	160.06	944.78	

01/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	0.80	0.00	0.00	48.11	3,363,000.00 *gal*
Application event totals		0.80	0.00	0.00	48.11	

01/24/2023	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
CWD-Chowchilla Canal	Surface water	0.77	0.00	0.00	46.48	3,249,000.00 *gal*
Application event totals		0.77	0.00	0.00	46.48	

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

416 - 10/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	108.87	17.62	163.91	906.07	1,008,000.00 *gal*
CWD-Chowchilla Canal	Surface water	1.30	0.00	0.00	78.28	5,472,000.00 *gal*
Application event totals		110.18	17.62	163.91	984.35	

03/08/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	102.07	16.52	153.66	849.44	945,000.00 *gal*
CWD-Chowchilla Canal	Surface water	0.91	0.00	0.00	54.63	3,819,000.00 *gal*
Application event totals		102.98	16.52	153.66	904.07	

416 - 06/21/2023: Corn, silage

Field name: 416

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.35	0.00	0.00	63.26	5,644,800.00 *gal*
Application event totals		1.35	0.00	0.00	63.26	

06/21/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
5-11-4	Solid commercial fertilizer	2.58	5.67	2.06	0.00	
Application event totals		2.58	5.67	2.06	0.00	

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

416 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.98	0.00	0.00	45.94	4,099,200.00 *gal*
Application event totals		0.98	0.00	0.00	45.94	

07/21/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30.5-0-0	Solid commercial fertilizer	40.54	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	1.01	0.00	0.00	47.44	4,233,600.00 *gal*
Application event totals		41.55	0.00	0.00	47.44	

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
WWS	Process wastewater	87.20	14.40	76.16	851.69	945,000.00 *gal*
CWD-Justin Canal	Surface water	0.72	0.00	0.00	33.89	3,024,000.00 *gal*
Application event totals		87.92	14.40	76.16	885.58	

08/09/2023	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
CWD-Justin Canal	Surface water	0.83	0.00	0.00	39.16	3,494,400.00 *gal*
Application event totals		0.83	0.00	0.00	39.16	

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
CWD-Justin Canal	Surface water	1.23	0.00	0.00	57.99	5,174,400.00 *gal*
Application event totals		1.23	0.00	0.00	57.99	

08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.77	0.00	0.00	36.15	3,225,600.00 *gal*
Application event totals		0.77	0.00	0.00	36.15	

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

416 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	107.54	17.76	93.93	1,050.42	1,165,500.00 *gal*
CWD-Justin Canal	Surface water	0.88	0.00	0.00	41.42	3,696,000.00 *gal*
Application event totals		108.42	17.76	93.93	1,091.84	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/21/2023	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
CWD-Justin Canal	Surface water	1.25	0.00	0.00	58.74	5,241,600.00 *gal*
Application event totals		1.25	0.00	0.00	58.74	

417 - 01/01/2020: Almond, in shell

Field name: 417

Crop: Almond, in shell Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/22/2023	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
CAN 17	Solid commercial fertilizer	57.89	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.57	0.00	0.00	26.69	2,721,600.00 *gal*
Application event totals		58.46	0.00	0.00	26.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/08/2023	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
CWD-Justin Canal	Surface water	0.97	0.00	0.00	45.47	4,636,800.00 *gal*
Application event totals		0.97	0.00	0.00	45.47	

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

417 - 01/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
NPK	Solid commercial fertilizer	189.25	6.71	232.37	0.00	
CWD-Justin Canal	Surface water	1.08	0.00	0.00	50.74	5,174,400.00 *gal*
Application event totals		190.33	6.71	232.37	50.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.11	0.00	0.00	52.05	5,308,800.00 *gal*
Application event totals		1.11	0.00	0.00	52.05	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.78	0.00	0.00	83.68	8,534,400.00 *gal*
Application event totals		1.78	0.00	0.00	83.68	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.40	0.00	0.00	65.89	6,720,000.00 *gal*
Application event totals		1.40	0.00	0.00	65.89	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.00	0.00	0.00	46.78	4,771,200.00 *gal*
Application event totals		1.00	0.00	0.00	46.78	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.76	0.00	0.00	35.58	3,628,800.00 *gal*
Application event totals		0.76	0.00	0.00	35.58	

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

417 - 01/01/2020: Almond, in shell

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
CWD-Justin Canal	Surface water	0.64	0.00	0.00	30.31	3,091,200.00 *gal*
Application event totals		0.64	0.00	0.00	30.31	

418 - 01/01/2020: Almond, in shell

Field name: 418

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CAN 17	Solid commercial fertilizer	47.43	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.86	0.00	0.00	40.19	4,099,200.00 *gal*
Application event totals		48.29	0.00	0.00	40.19	

05/09/2023	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
CWD-Justin Canal	Surface water	0.97	0.00	0.00	45.47	4,636,800.00 *gal*
Application event totals		0.97	0.00	0.00	45.47	

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
NPK	Solid commercial fertilizer	189.25	6.71	232.37	0.00	
CWD-Justin Canal	Surface water	1.08	0.00	0.00	50.74	5,174,400.00 *gal*
Application event totals		190.33	6.71	232.37	50.74	

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

418 - 01/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.50	0.00	0.00	70.50	7,190,400.00 *gal*
Application event totals		1.50	0.00	0.00	70.50	

06/21/2023	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
CWD-Justin Canal	Surface water	1.39	0.00	0.00	65.23	6,652,800.00 *gal*
Application event totals		1.39	0.00	0.00	65.23	

07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.40	0.00	0.00	65.89	6,720,000.00 *gal*
Application event totals		1.40	0.00	0.00	65.89	

07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	1.00	0.00	0.00	46.78	4,771,200.00 *gal*
Application event totals		1.00	0.00	0.00	46.78	

08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.76	0.00	0.00	35.58	3,628,800.00 *gal*
Application event totals		0.76	0.00	0.00	35.58	

08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.64	0.00	0.00	30.31	3,091,200.00 *gal*
Application event totals		0.64	0.00	0.00	30.31	

419 - 01/01/2020: Almond, in shell

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

419 - 01/01/2020: Almond, in shell

Field name: 419

Crop: Almond, in shell

Plant date: 01/01/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/24/2023	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
CAN 17	Solid commercial fertilizer	47.91	0.00	0.00	0.00	
CWD-Justin Canal	Surface water	0.62	0.00	0.00	29.29	1,344,000.00 *gal*
Application event totals		48.53	0.00	0.00	29.29	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/10/2023	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
CWD-Justin Canal	Surface water	1.07	0.00	0.00	50.52	2,318,400.00 *gal*
Application event totals		1.07	0.00	0.00	50.52	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	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
NPK	Solid commercial fertilizer	189.25	6.71	232.37	0.00	
CWD-Justin Canal	Surface water	1.20	0.00	0.00	56.37	2,587,200.00 *gal*
Application event totals		190.45	6.71	232.37	56.37	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/04/2023	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
CWD-Justin Canal	Surface water	1.34	0.00	0.00	62.96	2,889,600.00 *gal*
Application event totals		1.34	0.00	0.00	62.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/22/2023	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
CWD-Justin Canal	Surface water	1.25	0.00	0.00	58.57	2,688,000.00 *gal*
Application event totals		1.25	0.00	0.00	58.57	

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

419 - 01/01/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	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
CWD-Justin Canal	Surface water	1.56	0.00	0.00	73.21	3,360,000.00 *gal*
Application event totals		1.56	0.00	0.00	73.21	

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
CWD-Justin Canal	Surface water	0.87	0.00	0.00	41.00	1,881,600.00 *gal*
Application event totals		0.87	0.00	0.00	41.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.69	0.00	0.00	32.21	1,478,400.00 *gal*
Application event totals		0.69	0.00	0.00	32.21	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.56	0.00	0.00	26.36	1,209,600.00 *gal*
Application event totals		0.56	0.00	0.00	26.36	

420 - 04/19/2023: Corn, silage

Field name: 420

Crop: Corn, silage

Plant date: 04/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/06/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	132.41	21.97	57.36	0.00	432.00 *ton*
Application event totals		132.41	21.97	57.36	0.00	

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

420 - 04/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/22/2023	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
CWD-Chowchilla Canal	Surface water	2.01	0.00	0.00	120.40	7,695,000.00 *gal*
Application event totals		2.01	0.00	0.00	120.40	

04/19/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

05/22/2023	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
CWD-Chowchilla Canal	Surface water	1.07	0.00	0.00	64.21	4,104,000.00 *gal*
Application event totals		1.07	0.00	0.00	64.21	

06/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Liquid commercial fertilizer	84.48	0.00	0.00	0.00	
CWD-Chowchilla Canal	Surface water	0.79	0.00	0.00	47.27	3,021,000.00 *gal*
Application event totals		85.27	0.00	0.00	47.27	

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
CWD-Chowchilla Canal	Surface water	0.86	0.00	0.00	51.73	3,306,000.00 *gal*
Application event totals		0.86	0.00	0.00	51.73	

06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.04	0.00	0.00	62.43	3,990,000.00 *gal*
Application event totals		1.04	0.00	0.00	62.43	

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

420 - 04/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.17	0.00	0.00	70.46	4,503,000.00 *gal*
Application event totals		1.17	0.00	0.00	70.46	

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
CWD-Chowchilla Canal	Surface water	0.85	0.00	0.00	50.84	3,249,000.00 *gal*
Application event totals		0.85	0.00	0.00	50.84	

07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.06	0.00	0.00	63.32	4,047,000.00 *gal*
Application event totals		1.06	0.00	0.00	63.32	

421 - 04/18/2023: Corn, silage

Field name: 421

Crop: Corn, silage

Plant date: 04/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/08/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	121.38	20.14	52.58	0.00	396.00 *ton*
Application event totals		121.38	20.14	52.58	0.00	

04/10/2023	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
CWD-Justin Canal	Surface water	1.04	0.00	0.00	48.90	3,990,000.00 *gal*
Application event totals		1.04	0.00	0.00	48.90	

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

421 - 04/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/18/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

05/08/2023	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
CWD-Justin Canal	Surface water	0.68	0.00	0.00	32.14	2,622,000.00 *gal*
Application event totals		0.68	0.00	0.00	32.14	

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
CWD-Justin Canal	Surface water	1.28	0.00	0.00	60.08	4,902,000.00 *gal*
Application event totals		1.28	0.00	0.00	60.08	

05/27/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Solid commercial fertilizer	84.48	0.00	0.00	0.00	
Application event totals		84.48	0.00	0.00	0.00	

06/13/2023	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
CWD-Justin Canal	Surface water	0.83	0.00	0.00	39.12	3,192,000.00 *gal*
Application event totals		0.83	0.00	0.00	39.12	

06/24/2023	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
CWD-Justin Canal	Surface water	1.04	0.00	0.00	48.90	3,990,000.00 *gal*
Application event totals		1.04	0.00	0.00	48.90	

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

421 - 04/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
CWD-Justin Canal	Surface water	0.86	0.00	0.00	40.52	3,306,000.00 *gal*
Application event totals		0.86	0.00	0.00	40.52	

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
CWD-Justin Canal	Surface water	0.77	0.00	0.00	36.33	2,964,000.00 *gal*
Application event totals		0.77	0.00	0.00	36.33	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/24/2023	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
CWD-Justin Canal	Surface water	1.09	0.00	0.00	51.00	4,161,000.00 *gal*
Application event totals		1.09	0.00	0.00	51.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Justin Canal	Surface water	0.76	0.00	0.00	35.63	2,907,000.00 *gal*
Application event totals		0.76	0.00	0.00	35.63	

Delta 1 - 11/18/2022: Wheat, silage, soft dough

Field name: Delta 1

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/28/2022	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
Solid Manure	Separator solids	105.49	12.89	31.06	0.00	1,332.00 *ton*
Application event totals		105.49	12.89	31.06	0.00	

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

Delta 1 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Urea	Solid commercial fertilizer	46.00	0.00	0.00	0.00	
Broadway Canal	Surface water	1.11	0.00	0.00	189.48	15,360,000.00 *gal*
Application event totals		47.11	0.00	0.00	189.48	

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
Broadway Canal	Surface water	1.38	0.00	0.00	235.37	19,080,000.00 *gal*
Application event totals		1.38	0.00	0.00	235.37	

Delta 1 - 06/14/2023: Corn, silage

Field name: Delta 1

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	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
Solid Manure	Corral solids	129.45	67.48	345.66	10,287.24	936.00 *ton*
Application event totals		129.45	67.48	345.66	10,287.24	

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
Broadway Canal	Surface water	1.29	0.00	0.00	219.09	17,760,000.00 *gal*
Application event totals		1.29	0.00	0.00	219.09	

06/14/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

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

Delta 1 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Broadway Canal	Surface water	0.99	0.00	0.00	168.76	13,680,000.00 *gal*
Application event totals		0.99	0.00	0.00	168.76	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.86	0.00	0.00	146.55	11,880,000.00 *gal*
Application event totals		0.86	0.00	0.00	146.55	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	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
UN32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Broadway Canal	Surface water	0.94	0.00	0.00	159.88	12,960,000.00 *gal*
Application event totals		43.18	0.00	0.00	159.88	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.89	0.00	0.00	150.99	12,240,000.00 *gal*
Application event totals		0.89	0.00	0.00	150.99	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
CWD-Chowchilla Canal	Surface water	1.05	0.00	0.00	63.22	14,520,000.00 *gal*
Application event totals		1.05	0.00	0.00	63.22	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.01	0.00	0.00	171.72	13,920,000.00 *gal*
Application event totals		1.01	0.00	0.00	171.72	

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

Delta 1 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/25/2023	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
Broadway Canal	Surface water	0.82	0.00	0.00	139.15	11,280,000.00 *gal*
Application event totals		0.82	0.00	0.00	139.15	

Delta 2 - 11/20/2022: Wheat, silage, soft dough

Field name: Delta 2

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
11/01/2022	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
Solid Manure	Separator solids	104.25	12.74	30.70	0.00	1,488.00 *ton*
Application event totals		104.25	12.74	30.70	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/29/2023	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
Urea	Solid commercial fertilizer	46.00	0.00	0.00	0.00	
Broadway Canal	Surface water	1.42	0.00	0.00	240.95	22,080,000.00 *gal*
Application event totals		47.42	0.00	0.00	240.95	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/09/2023	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
Broadway Canal	Surface water	1.29	0.00	0.00	218.69	20,040,000.00 *gal*
Application event totals		1.29	0.00	0.00	218.69	

Delta 2 - 06/17/2023: Corn, silage

Field name: Delta 2

Crop: Corn, silage

Plant date: 06/17/2023

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

Delta 2 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/29/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	127.24	66.33	339.75	10,111.39	1,040.00 *ton*
Application event totals		127.24	66.33	339.75	10,111.39	

06/17/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

06/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.33	0.00	0.00	226.55	20,760,000.00 *gal*
Application event totals		1.33	0.00	0.00	226.55	

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
Broadway Canal	Surface water	1.16	0.00	0.00	196.43	18,000,000.00 *gal*
Application event totals		1.16	0.00	0.00	196.43	

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
Broadway Canal	Surface water	0.96	0.00	0.00	163.69	15,000,000.00 *gal*
Application event totals		0.96	0.00	0.00	163.69	

08/07/2023	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
UN32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Broadway Canal	Surface water	1.02	0.00	0.00	172.86	15,840,000.00 *gal*
Application event totals		43.26	0.00	0.00	172.86	

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

Delta 2 - 06/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Broadway Canal	Surface water	0.95	0.00	0.00	161.07	14,760,000.00 *gal*
Application event totals		0.95	0.00	0.00	161.07	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/04/2023	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
Broadway Canal	Surface water	0.86	0.00	0.00	146.67	13,440,000.00 *gal*
Application event totals		0.86	0.00	0.00	146.67	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.84	0.00	0.00	142.74	13,080,000.00 *gal*
Application event totals		0.84	0.00	0.00	142.74	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/28/2023	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
Broadway Canal	Surface water	0.79	0.00	0.00	134.88	12,360,000.00 *gal*
Application event totals		0.79	0.00	0.00	134.88	

Delta 3 - 11/23/2022: Wheat, silage, soft dough

Field name: Delta 3

Crop: Wheat, silage, soft dough

Plant date: 11/23/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/04/2022	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
Solid Manure	Separator solids	107.73	13.17	31.72	0.00	828.00 *ton*
Application event totals		107.73	13.17	31.72	0.00	

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

Delta 3 - 11/23/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Urea	Solid commercial fertilizer	46.00	0.00	0.00	0.00	
Broadway Canal	Surface water	1.19	0.00	0.00	201.85	9,960,000.00 *gal*
Application event totals		47.19	0.00	0.00	201.85	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/13/2023	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
Broadway Canal	Surface water	1.56	0.00	0.00	265.08	13,080,000.00 *gal*
Application event totals		1.56	0.00	0.00	265.08	

Delta 3 - 06/16/2023: Corn, silage

Field name: Delta 3

Crop: Corn, silage

Plant date: 06/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	130.87	68.22	349.46	10,400.29	576.00 *ton*
Application event totals		130.87	68.22	349.46	10,400.29	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/16/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.33	0.00	0.00	226.17	11,160,000.00 *gal*
Application event totals		1.33	0.00	0.00	226.17	

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

Delta 3 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.03	0.00	0.00	175.10	8,640,000.00 *gal*
Application event totals		1.03	0.00	0.00	175.10	

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
Broadway Canal	Surface water	1.09	0.00	0.00	184.83	9,120,000.00 *gal*
Application event totals		1.09	0.00	0.00	184.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Broadway Canal	Surface water	0.99	0.00	0.00	167.81	8,280,000.00 *gal*
Application event totals		43.23	0.00	0.00	167.81	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.83	0.00	0.00	141.05	6,960,000.00 *gal*
Application event totals		0.83	0.00	0.00	141.05	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.00	0.00	0.00	170.24	8,400,000.00 *gal*
Application event totals		1.00	0.00	0.00	170.24	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/10/2023	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
Broadway Canal	Surface water	0.90	0.00	0.00	153.21	7,560,000.00 *gal*
Application event totals		0.90	0.00	0.00	153.21	

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

Delta 3 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.90	0.00	0.00	153.21	7,560,000.00 *gal*
Application event totals		0.90	0.00	0.00	153.21	

Delta 4 - 11/22/2022: Wheat, silage, soft dough

Field name: Delta 4

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/05/2022	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
Solid Manure	Separator solids	112.61	13.76	33.16	0.00	1,224.00 *ton*
Application event totals		112.61	13.76	33.16	0.00	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
02/07/2023	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
Urea	Solid commercial fertilizer	46.00	0.00	0.00	0.00	
Broadway Canal	Surface water	1.12	0.00	0.00	190.87	13,320,000.00 *gal*
Application event totals		47.12	0.00	0.00	190.87	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/15/2023	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
Broadway Canal	Surface water	1.43	0.00	0.00	242.46	16,920,000.00 *gal*
Application event totals		1.43	0.00	0.00	242.46	

Delta 4 - 06/19/2023: Corn, silage

Field name: Delta 4

Crop: Corn, silage

Plant date: 06/19/2023

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

Delta 4 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/26/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	138.81	72.36	370.64	11,030.61	864.00 *ton*
Application event totals		138.81	72.36	370.64	11,030.61	

06/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	1.18	0.00	0.00	201.19	14,040,000.00 *gal*
Application event totals		1.18	0.00	0.00	201.19	

06/19/2023	Sidedress	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
7-17-3	Solid commercial fertilizer	4.47	10.86	1.92	0.00	
Application event totals		4.47	10.86	1.92	0.00	

07/13/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.99	0.00	0.00	168.52	11,760,000.00 *gal*
Application event totals		0.99	0.00	0.00	168.52	

07/28/2023	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
Broadway Canal	Surface water	1.02	0.00	0.00	173.68	12,120,000.00 *gal*
Application event totals		1.02	0.00	0.00	173.68	

08/10/2023	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
UN32	Solid commercial fertilizer	42.24	0.00	0.00	0.00	
Broadway Canal	Surface water	1.08	0.00	0.00	183.99	12,840,000.00 *gal*
Application event totals		43.32	0.00	0.00	183.99	

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

Delta 4 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/23/2023	Pipeline	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.94	0.00	0.00	159.92	11,160,000.00 *gal*
Application event totals		0.94	0.00	0.00	159.92	

09/07/2023	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
Broadway Canal	Surface water	0.91	0.00	0.00	154.76	10,800,000.00 *gal*
Application event totals		0.91	0.00	0.00	154.76	

09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.86	0.00	0.00	146.16	10,200,000.00 *gal*
Application event totals		0.86	0.00	0.00	146.16	

09/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

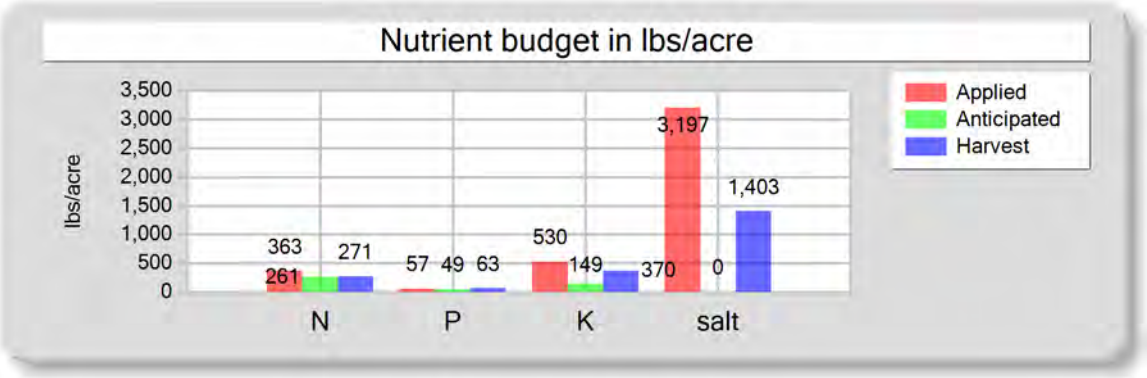
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Broadway Canal	Surface water	0.83	0.00	0.00	141.01	9,840,000.00 *gal*
Application event totals		0.83	0.00	0.00	141.01	

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

B. NUTRIENT BUDGET

401 - 11/22/2022: Wheat, silage, soft dough

Field name: 401 Crop: Wheat, silage, soft dough Plant date: 11/22/2022



	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	351.82	56.93	529.68	2,927.99
Fresh water	4.48	0.00	0.00	268.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	363.30	56.93	529.68	3,196.52
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	270.88	63.21	370.21	1,402.50
Nutrient balance	92.42	-6.28	159.47	1,794.02
Applied to removed ratio	1.34	0.90	1.43	2.28

Fresh water applied	
23,598,000.00	*gallons*
869.03	*acre-inches*
19.75	*inches/acre*

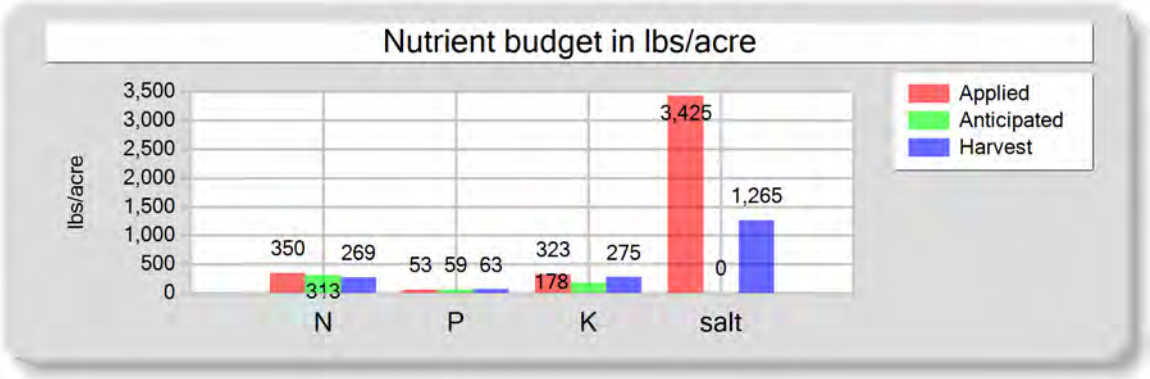
Process wastewater applied	
4,095,000.00	*gallons*
150.80	*acre-inches*
3.43	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

401 - 06/09/2023: Corn, silage

Field name: 401 Crop: Corn, silage Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	290.51	47.62	320.45	2,685.01
Fresh water	9.82	0.00	0.00	739.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	350.45	53.29	322.51	3,424.85
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	268.94	62.94	274.66	1,265.17
Nutrient balance	81.50	-9.65	47.84	2,159.68
Applied to removed ratio	1.30	0.85	1.17	2.71

Fresh water applied	
50,747,040.00	*gallons*
1,868.84	*acre-inches*
42.47	*inches/acre*

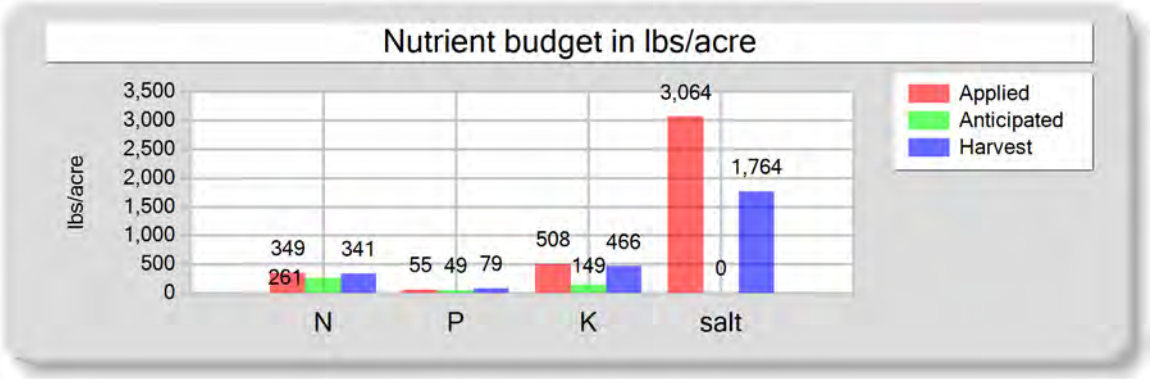
Process wastewater applied	
3,748,500.00	*gallons*
138.04	*acre-inches*
3.14	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

402 - 11/22/2022: Wheat, silage, soft dough

Field name: 402 Crop: Wheat, silage, soft dough Plant date: 11/22/2022



	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	337.39	54.59	507.95	2,807.86
Fresh water	4.27	0.00	0.00	255.91
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	348.66	54.59	507.95	3,063.77
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	340.71	79.50	465.63	1,764.02
Nutrient balance	7.95	-24.91	42.31	1,299.76
Applied to removed ratio	1.02	0.69	1.09	1.74

Fresh water applied	
15,333,000.00	*gallons*
564.66	*acre-inches*
18.82	*inches/acre*

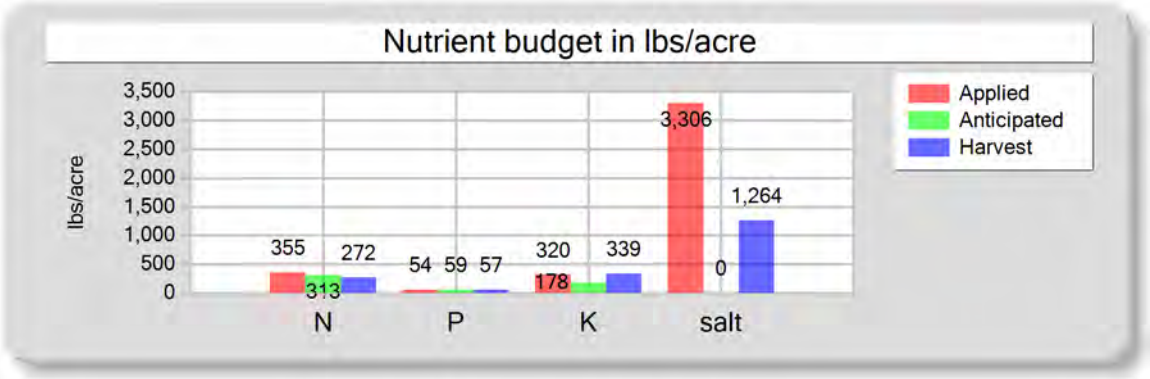
Process wastewater applied	
2,677,500.00	*gallons*
98.60	*acre-inches*
3.29	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

402 - 06/10/2023: Corn, silage

Field name: 402 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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	295.33	48.45	318.16	2,746.97
Fresh water	9.32	0.00	0.00	559.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	354.77	54.12	320.22	3,306.35
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	272.19	57.30	339.04	1,264.23
Nutrient balance	82.59	-3.18	-18.82	2,042.11
Applied to removed ratio	1.30	0.94	0.94	2.62

Fresh water applied	
33,516,000.00	*gallons*
1,234.28	*acre-inches*
41.14	*inches/acre*

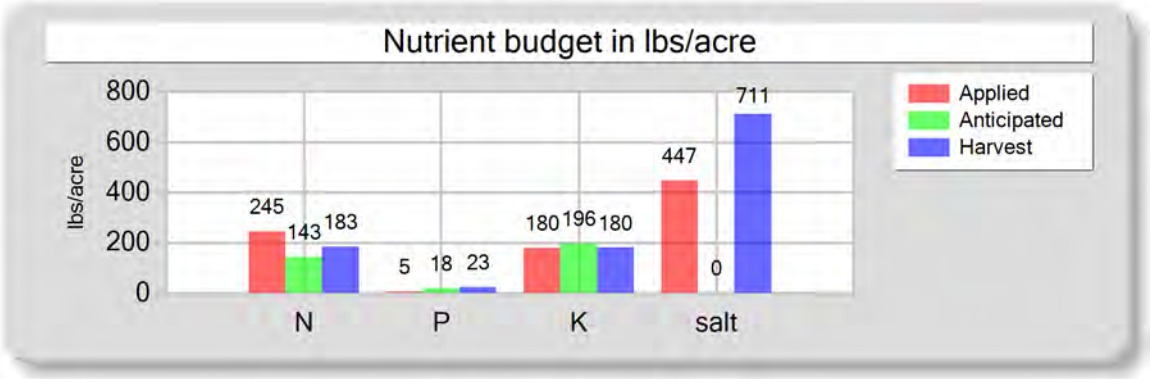
Process wastewater applied	
2,614,500.00	*gallons*
96.28	*acre-inches*
3.21	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

403A - 11/01/2015: Almond, in shell

Field name: 403A Crop: Almond, in shell Plant date: 11/01/2015



	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	221.36	5.19	179.74	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.51	0.00	0.00	447.13
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	244.87	5.19	179.74	447.13
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	183.35	22.55	180.41	710.84
Nutrient balance	61.52	-17.36	-0.67	-263.72
Applied to removed ratio	1.34	0.23	1.00	0.63

Fresh water applied	
9,120,000.00	*gallons*
335.86	*acre-inches*
41.98	*inches/acre*

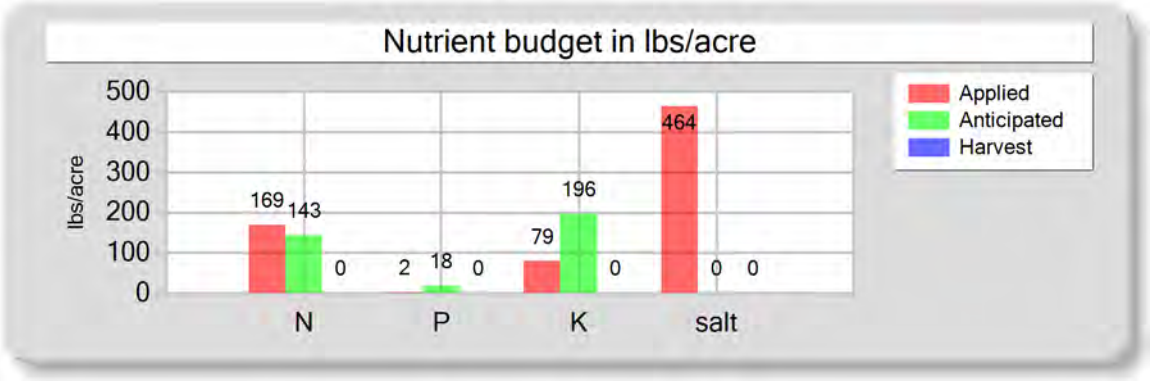
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

403B - 01/01/2022: Almond, in shell

Field name: 403B Crop: Almond, in shell Plant date: 01/01/2022



	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	144.91	2.29	79.30	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.87	0.00	0.00	463.89
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	168.78	2.29	79.30	463.89
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	168.78	2.29	79.30	463.89
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
9,462,000.00	*gallons*
348.45	*acre-inches*
43.56	*inches/acre*

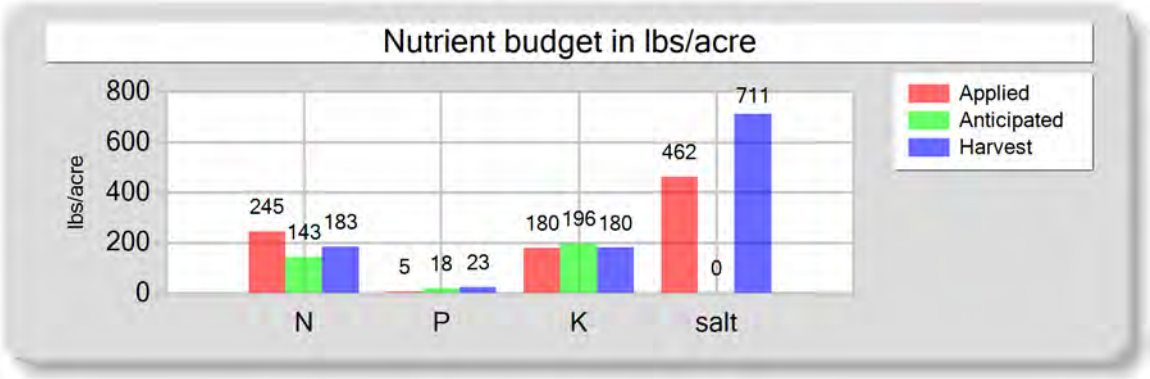
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

404 - 11/01/2015: Almond, in shell

Field name: 404 Crop: Almond, in shell Plant date: 11/01/2015



	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	221.36	5.19	179.74	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.82	0.00	0.00	461.74
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	245.18	5.19	179.74	461.74
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	183.32	22.55	180.38	710.70
Nutrient balance	61.87	-17.36	-0.64	-248.96
Applied to removed ratio	1.34	0.23	1.00	0.65

Fresh water applied	
15,304,500.00	*gallons*
563.61	*acre-inches*
43.35	*inches/acre*

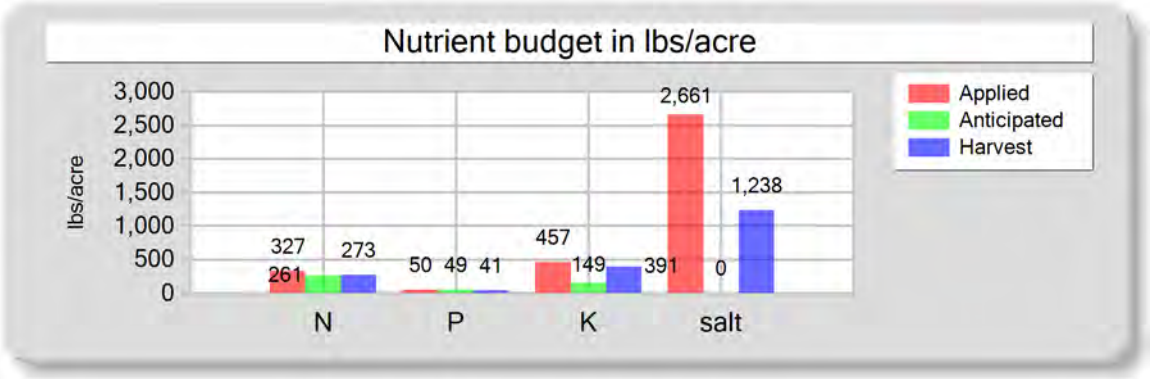
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

405 - 11/15/2022: Wheat, silage, soft dough

Field name: 405 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	317.19	50.02	456.93	2,521.40
Fresh water	2.97	0.00	0.00	139.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.16	50.02	456.93	2,660.97
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	272.52	40.88	390.62	1,237.94
Nutrient balance	54.64	9.14	66.32	1,423.04
Applied to removed ratio	1.20	1.22	1.17	2.15

Fresh water applied	
13,167,000.00	*gallons*
484.90	*acre-inches*
13.11	*inches/acre*

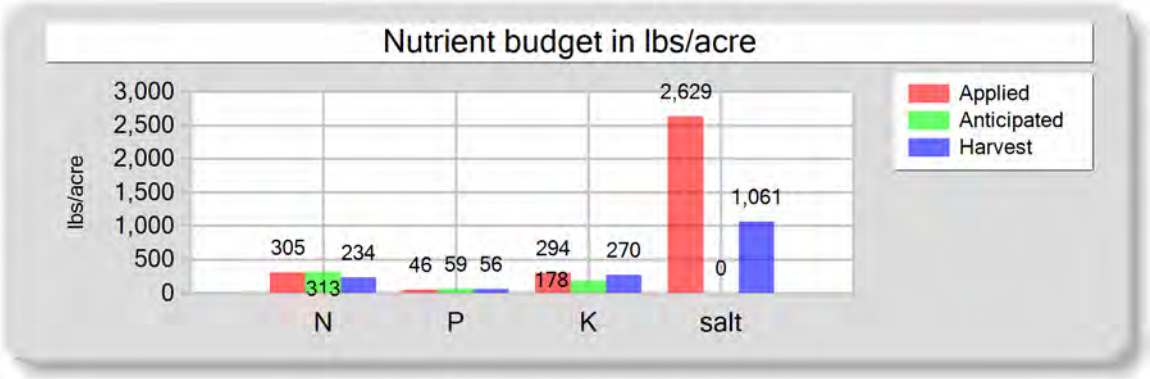
Process wastewater applied	
3,087,000.00	*gallons*
113.68	*acre-inches*
3.07	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

405 - 06/10/2023: Corn, silage

Field name: 405 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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	246.02	40.22	292.18	2,226.27
Fresh water	8.56	0.00	0.00	402.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.70	45.89	294.24	2,628.69
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	234.05	56.49	270.37	1,060.85
Nutrient balance	70.65	-10.61	23.87	1,567.83
Applied to removed ratio	1.30	0.81	1.09	2.48

Fresh water applied	
37,962,000.00	*gallons*
1,398.01	*acre-inches*
37.78	*inches/acre*

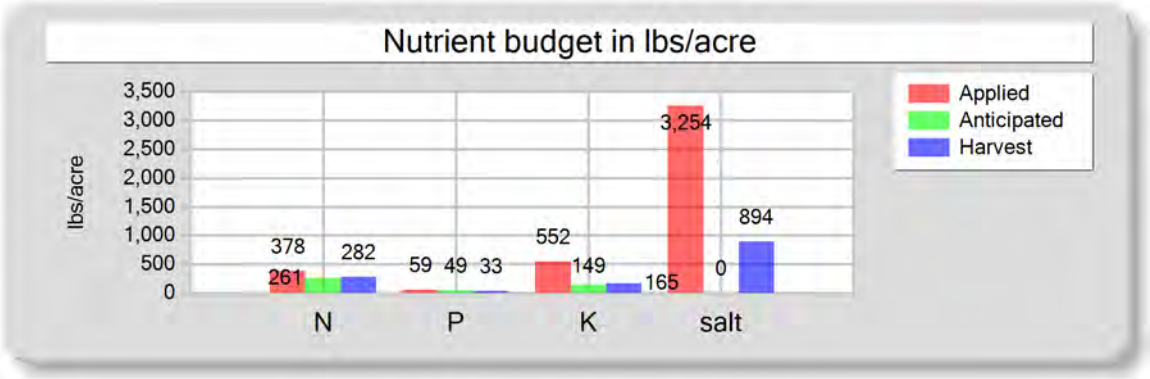
Process wastewater applied	
2,614,500.00	*gallons*
96.28	*acre-inches*
2.60	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

406 - 10/18/2022: Wheat, silage, soft dough

Field name: 406 Crop: Wheat, silage, soft dough Plant date: 10/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	366.89	59.37	552.36	3,053.38
Fresh water	4.27	0.00	0.00	200.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	378.16	59.37	552.36	3,253.99
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	282.42	33.36	164.56	893.96
Nutrient balance	95.74	26.01	387.80	2,360.02
Applied to removed ratio	1.34	1.78	3.36	3.64

Fresh water applied	
18,924,000.00	*gallons*
696.91	*acre-inches*
18.84	*inches/acre*

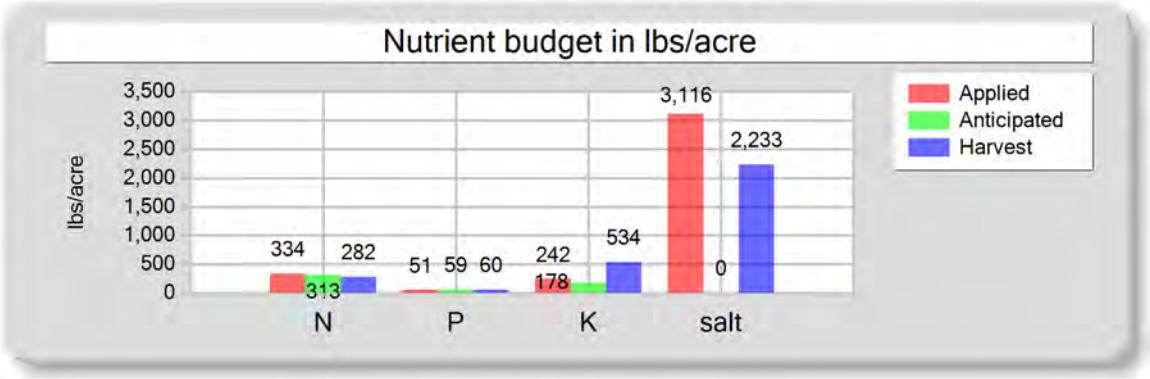
Process wastewater applied	
3,591,000.00	*gallons*
132.24	*acre-inches*
3.57	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

406 - 05/16/2023: Corn, silage

Field name: 406 Crop: Corn, silage Plant date: 05/16/2023



	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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	274.95	45.40	240.13	2,685.51
Fresh water	9.17	0.00	0.00	430.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	334.23	51.07	242.19	3,116.32
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	282.29	60.49	534.33	2,232.90
Nutrient balance	51.94	-9.42	-292.14	883.42
Applied to removed ratio	1.18	0.84	0.45	1.40

Fresh water applied	
40,641,000.00	*gallons*
1,496.67	*acre-inches*
40.45	*inches/acre*

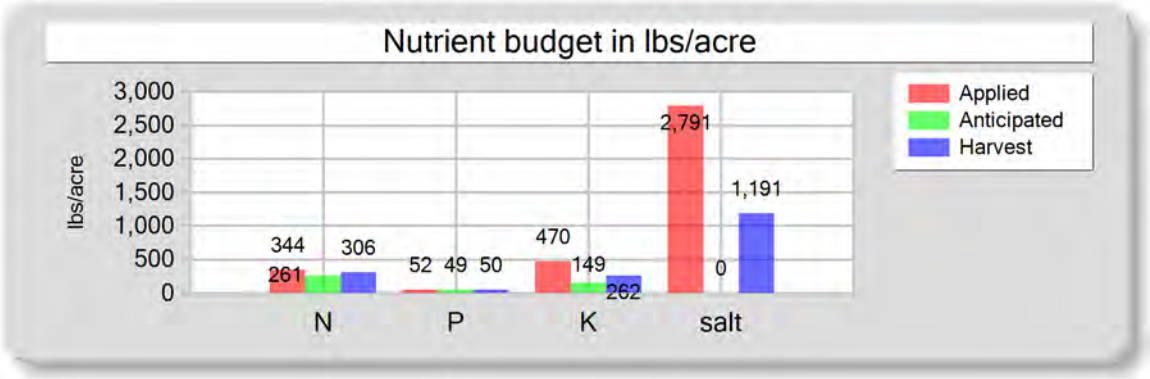
Process wastewater applied	
3,150,000.00	*gallons*
116.00	*acre-inches*
3.14	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

407 - 10/18/2022: Wheat, silage, soft dough

Field name: 407 Crop: Wheat, silage, soft dough Plant date: 10/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	332.72	51.87	469.81	2,590.30
Fresh water	4.27	0.00	0.00	200.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	343.99	51.87	469.81	2,790.86
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	306.04	50.45	262.32	1,190.51
Nutrient balance	37.95	1.42	207.50	1,600.35
Applied to removed ratio	1.12	1.03	1.79	2.34

Fresh water applied	
17,898,000.00	*gallons*
659.12	*acre-inches*
18.83	*inches/acre*

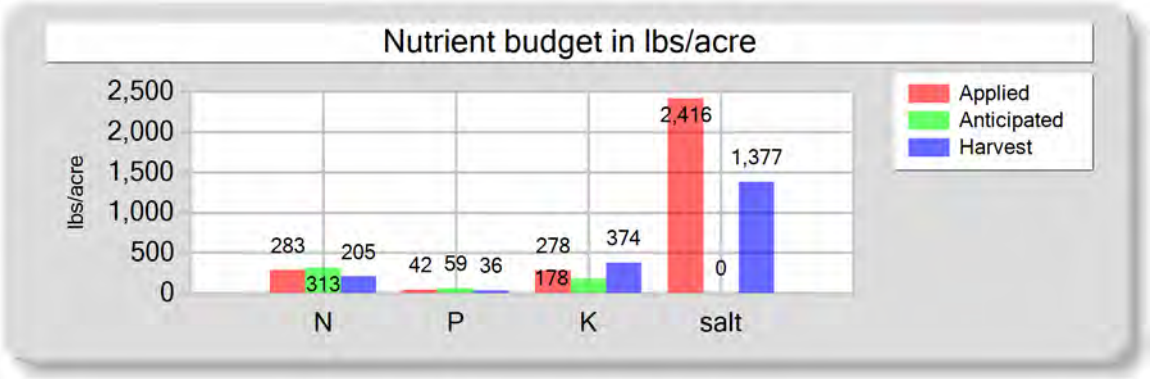
Process wastewater applied	
3,055,500.00	*gallons*
112.52	*acre-inches*
3.21	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

407 - 05/16/2023: Corn, silage

Field name: 407 Crop: Corn, silage Plant date: 05/16/2023



	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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	224.71	36.69	275.83	2,012.89
Fresh water	8.58	0.00	0.00	403.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	283.40	42.36	277.89	2,415.94
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	205.03	35.66	374.40	1,376.77
Nutrient balance	78.37	6.70	-96.51	1,039.17
Applied to removed ratio	1.38	1.19	0.74	1.75

Fresh water applied	
35,967,000.00	*gallons*
1,324.54	*acre-inches*
37.84	*inches/acre*

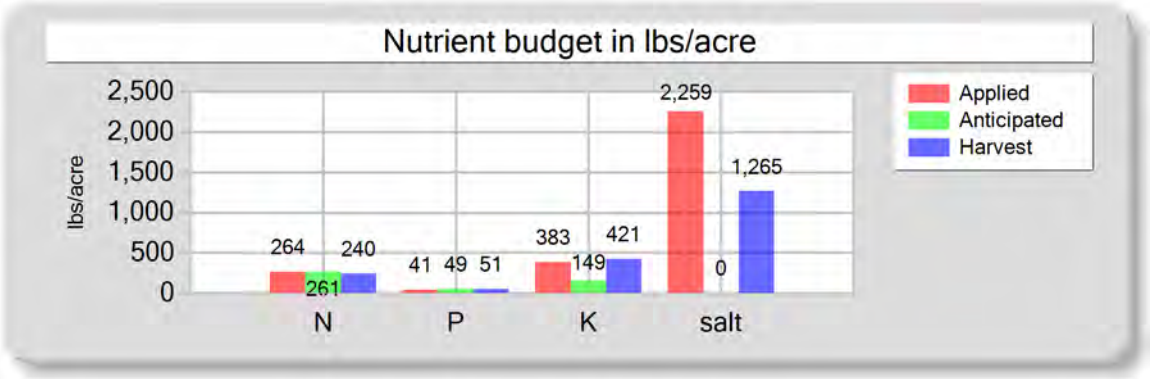
Process wastewater applied	
2,236,500.00	*gallons*
82.36	*acre-inches*
2.35	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

408 - 11/15/2022: Wheat, silage, soft dough

Field name: 408 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	254.25	41.14	382.78	2,115.94
Fresh water	3.05	0.00	0.00	143.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.30	41.14	382.78	2,259.14
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	240.25	50.58	421.49	1,264.81
Nutrient balance	24.05	-9.44	-38.71	994.33
Applied to removed ratio	1.10	0.81	0.91	1.79

Fresh water applied	
13,509,000.00	*gallons*
497.49	*acre-inches*
13.45	*inches/acre*

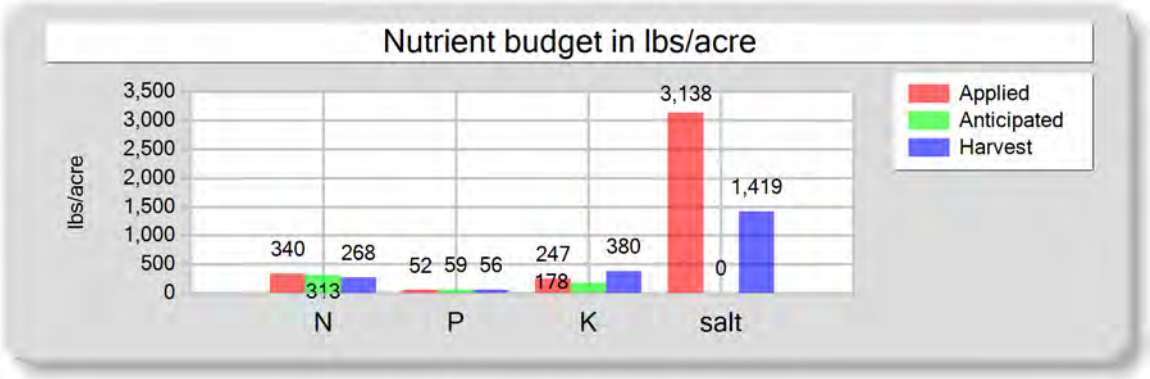
Process wastewater applied	
2,488,500.00	*gallons*
91.64	*acre-inches*
2.48	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

408 - 06/08/2023: Corn, silage

Field name: 408 Crop: Corn, silage Plant date: 06/08/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	280.44	46.31	244.94	2,739.22
Fresh water	9.22	0.00	0.00	398.77
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	339.78	51.98	247.00	3,138.00
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	268.12	56.12	380.35	1,418.65
Nutrient balance	71.66	-4.14	-133.36	1,719.34
Applied to removed ratio	1.27	0.93	0.65	2.21

Fresh water applied	
40,869,000.00	*gallons*
1,505.07	*acre-inches*
40.68	*inches/acre*

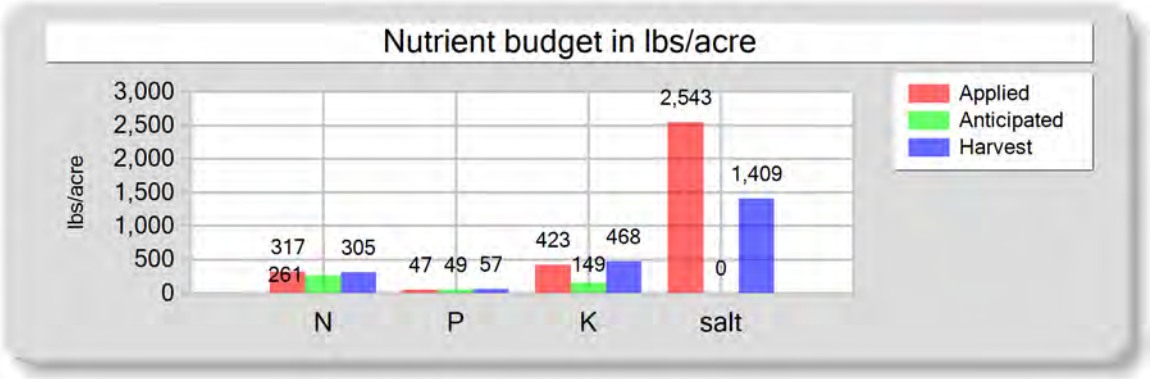
Process wastewater applied	
3,213,000.00	*gallons*
118.32	*acre-inches*
3.20	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

409 - 11/15/2022: Wheat, silage, soft dough

Field name: 409 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	305.08	47.09	423.33	2,332.29
Fresh water	4.48	0.00	0.00	210.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.55	47.09	423.33	2,542.68
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	305.34	57.00	468.19	1,408.65
Nutrient balance	11.21	-9.91	-44.86	1,134.03
Applied to removed ratio	1.04	0.83	0.90	1.81

Fresh water applied	
30,039,000.00	*gallons*
1,106.23	*acre-inches*
19.75	*inches/acre*

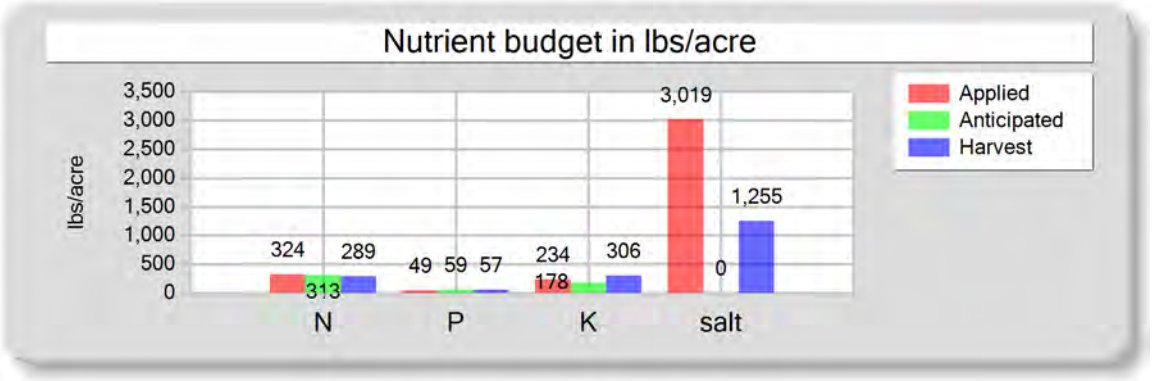
Process wastewater applied	
4,473,000.00	*gallons*
164.73	*acre-inches*
2.94	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

409 - 06/20/2023: Corn, silage

Field name: 409 Crop: Corn, silage Plant date: 06/20/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	265.22	43.79	231.64	2,590.56
Fresh water	9.11	0.00	0.00	428.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	324.46	49.46	233.70	3,018.92
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	288.61	56.59	305.59	1,254.96
Nutrient balance	35.85	-7.13	-71.89	1,763.97
Applied to removed ratio	1.12	0.87	0.76	2.41

Fresh water applied	
61,161,000.00	*gallons*
2,252.35	*acre-inches*
40.22	*inches/acre*

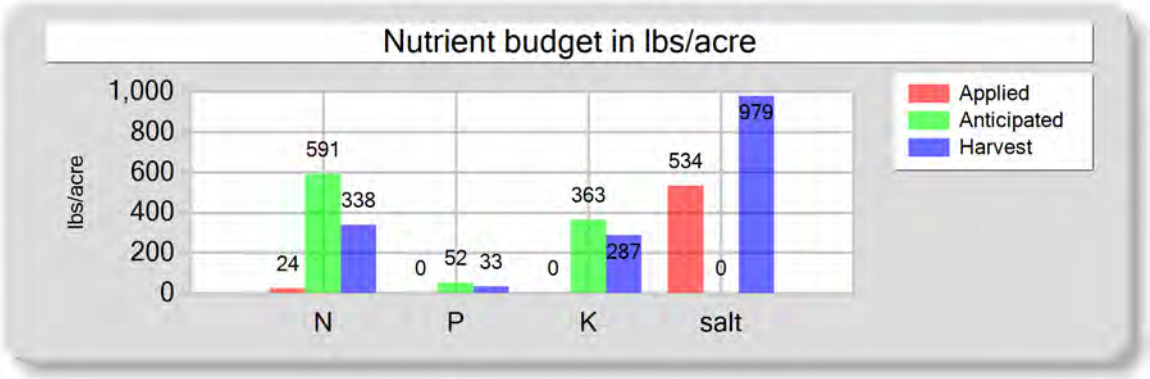
Process wastewater applied	
4,599,000.00	*gallons*
169.37	*acre-inches*
3.02	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

410 - 11/19/2022: Alfalfa, hay

Field name: 410 Crop: Alfalfa, hay 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	0.00	0.00	0.00	0.00
Fresh water	10.00	0.00	0.00	533.71
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	24.00	0.00	0.00	533.71
Anticipated crop nutrient removal	591.20	52.00	363.20	0.00
Actual crop nutrient removal	338.36	32.79	287.22	978.74
Nutrient balance	-314.36	-32.79	-287.22	-445.03
Applied to removed ratio	0.07	0.00	0.00	0.55

Fresh water applied	
65,577,000.00	*gallons*
2,414.98	*acre-inches*
43.91	*inches/acre*

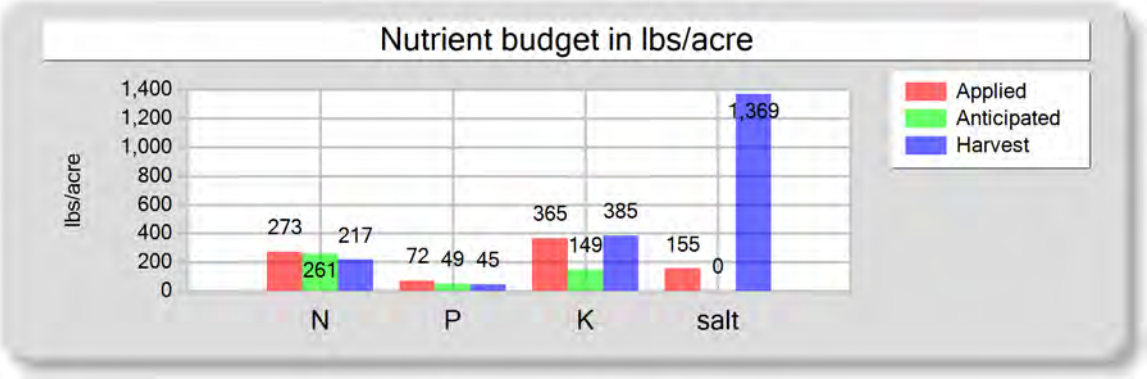
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

411 - 11/16/2022: Wheat, silage, soft dough

Field name: 411 Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	262.46	71.68	365.02	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.30	0.00	0.00	155.05
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.76	71.68	365.02	155.05
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	216.89	45.01	384.67	1,369.35
Nutrient balance	55.87	26.67	-19.66	-1,214.31
Applied to removed ratio	1.26	1.59	0.95	0.11

Fresh water applied	
15,417,000.00	*gallons*
567.76	*acre-inches*
14.56	*inches/acre*

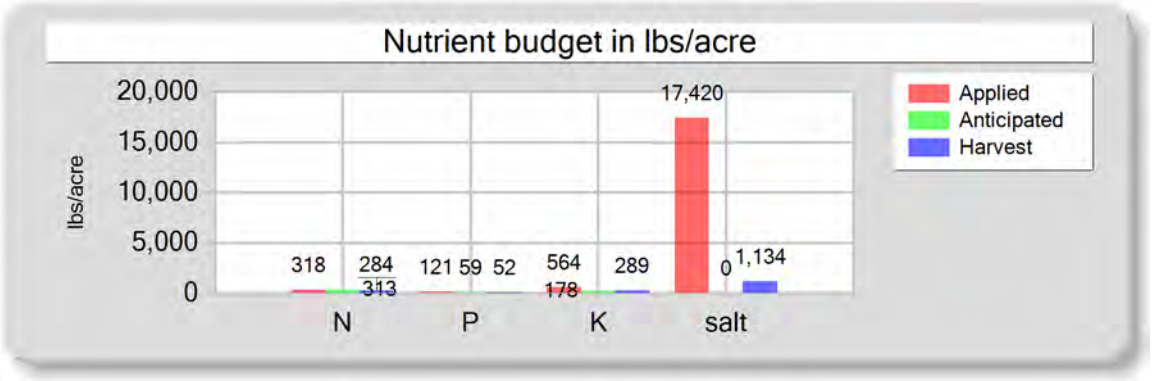
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

411 - 06/21/2023: Corn, silage

Field name: 411 Crop: Corn, silage Plant date: 06/21/2023



	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	88.95	10.86	1.92	0.00
Dry manure	210.43	109.69	561.90	16,722.69
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	11.69	0.00	0.00	697.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	318.07	120.55	563.82	17,420.14
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	284.20	51.67	289.37	1,134.32
Nutrient balance	33.87	68.88	274.45	16,285.82
Applied to removed ratio	1.12	2.33	1.95	15.36

Fresh water applied	
43,396,620.00	*gallons*
1,598.15	*acre-inches*
40.98	*inches/acre*

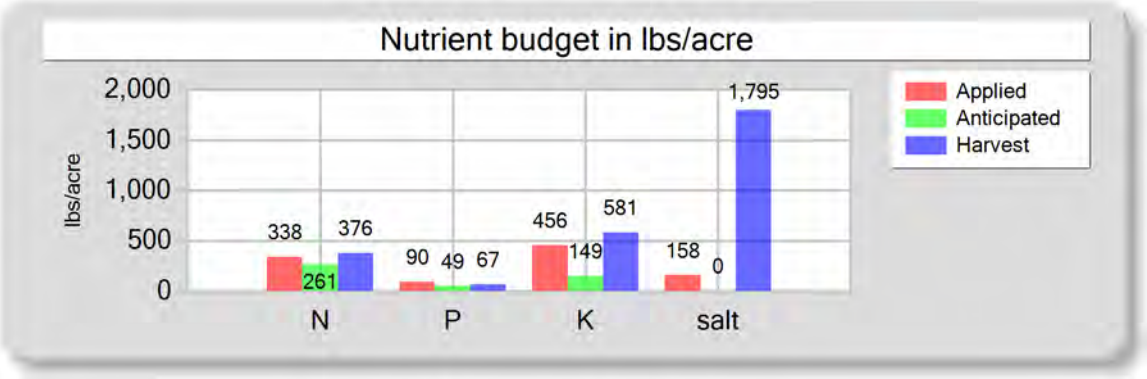
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

412A - 11/16/2022: Wheat, silage, soft dough

Field name: 412A Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	327.75	89.51	455.82	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	3.35	0.00	0.00	157.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	338.11	89.51	455.82	157.67
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	375.66	67.08	581.38	1,794.91
Nutrient balance	-37.56	22.43	-125.56	-1,637.24
Applied to removed ratio	0.90	1.33	0.78	0.09

Fresh water applied	
23,316,000.00	*gallons*
858.65	*acre-inches*
14.80	*inches/acre*

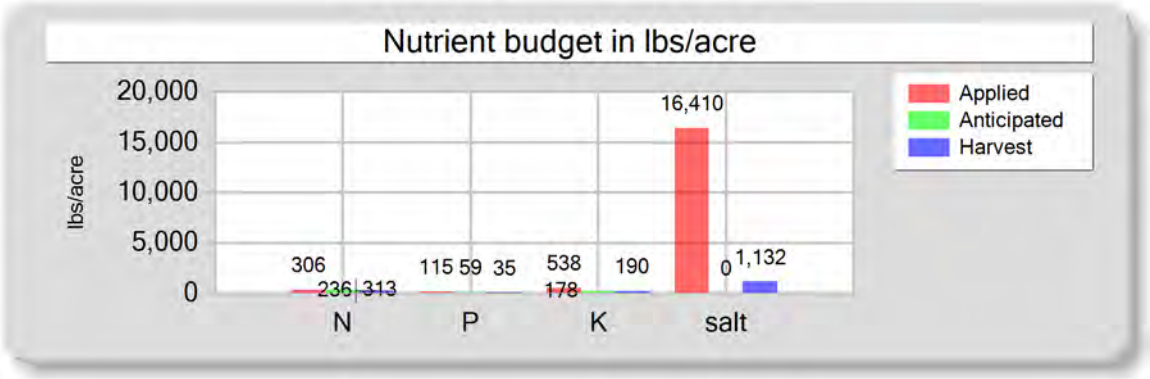
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

412A - 06/21/2023: Corn, silage

Field name: 412A Crop: Corn, silage Plant date: 06/21/2023



	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	88.95	10.86	1.92	0.00
Dry manure	200.73	104.64	535.99	15,951.59
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.19	0.00	0.00	458.52
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.87	115.50	537.91	16,410.12
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	235.87	34.52	189.85	1,132.18
Nutrient balance	70.00	80.98	348.06	15,277.94
Applied to removed ratio	1.30	3.35	2.83	14.49

Fresh water applied	
60,000,540.00	*gallons*
2,209.62	*acre-inches*
38.10	*inches/acre*

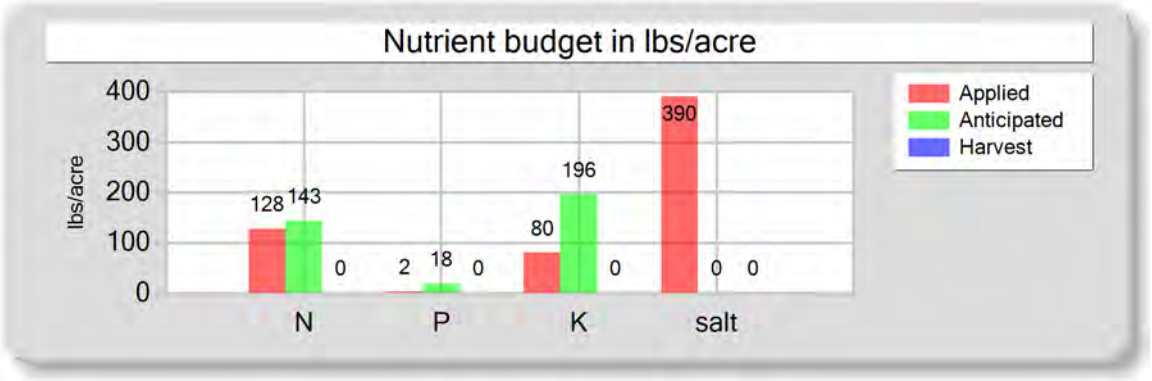
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

412B - 01/01/2022: Almond, in shell

Field name: 412B Crop: Almond, in shell Plant date: 01/01/2022



	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	105.40	2.30	79.79	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.29	0.00	0.00	389.76
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	127.69	2.30	79.79	389.76
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	0.00	0.00	0.00	0.00
Nutrient balance	127.69	2.30	79.79	389.76
Applied to removed ratio	0.00	0.00	0.00	0.00

Fresh water applied	
55,650,000.00	*gallons*
2,049.40	*acre-inches*
36.60	*inches/acre*

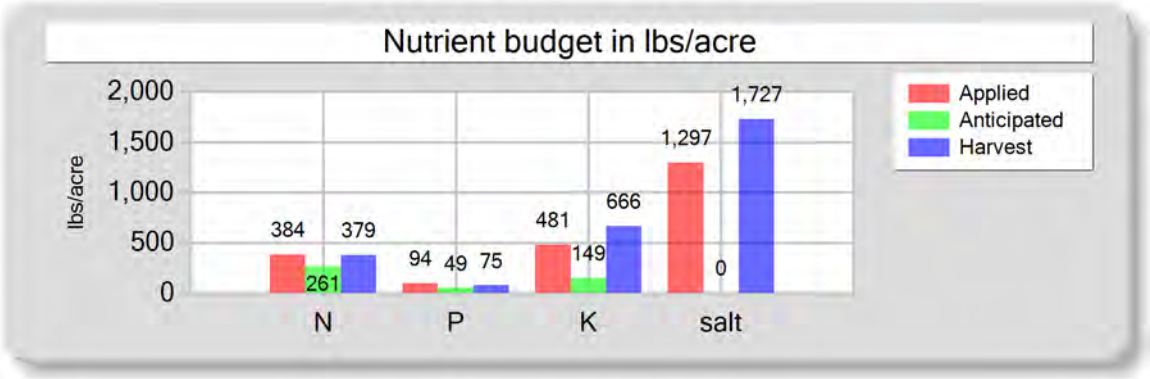
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

413A - 11/16/2022: Wheat, silage, soft dough

Field name: 413A Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	345.81	94.44	480.93	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	31.45	0.00	0.00	1,297.04
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	384.26	94.44	480.93	1,297.04
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	378.51	74.87	665.51	1,727.01
Nutrient balance	5.75	19.57	-184.58	-429.97
Applied to removed ratio	1.02	1.26	0.72	0.75

Fresh water applied	
14,650,740.00	*gallons*
539.54	*acre-inches*
14.58	*inches/acre*

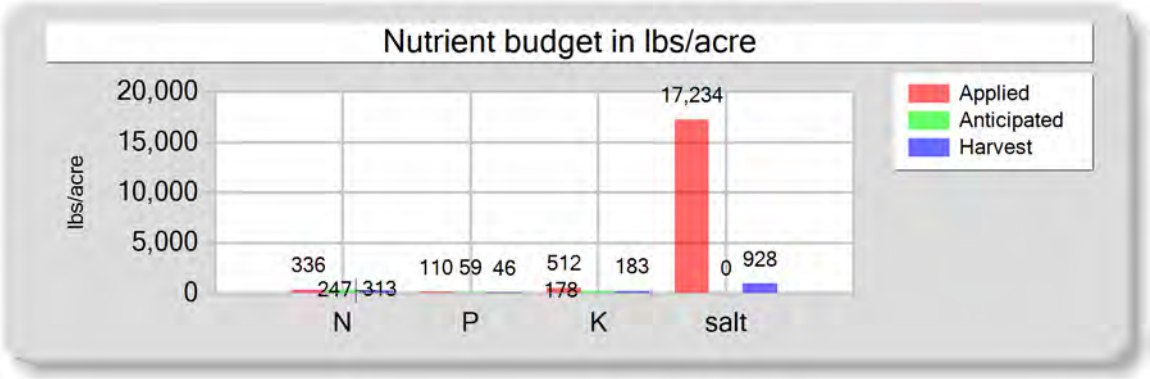
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

413A - 06/13/2023: Corn, silage

Field name: 413A Crop: Corn, silage Plant date: 06/13/2023



	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	88.95	10.86	1.92	0.00
Dry manure	190.86	99.49	509.63	15,167.09
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	49.51	0.00	0.00	2,067.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	336.32	110.35	511.55	17,234.45
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	246.92	45.73	182.90	928.13
Nutrient balance	89.40	64.62	328.65	16,306.32
Applied to removed ratio	1.36	2.41	2.80	18.57

Fresh water applied	
40,744,560.00	*gallons*
1,500.48	*acre-inches*
40.55	*inches/acre*

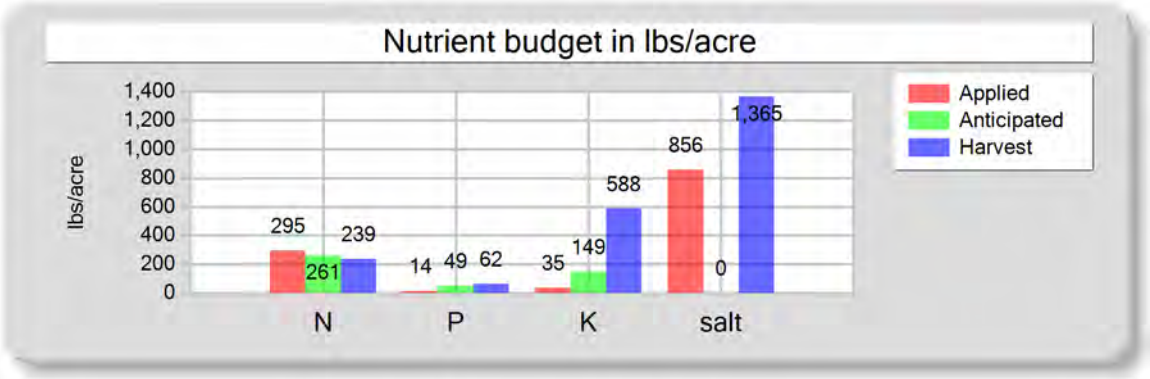
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

413B - 11/16/2022: Wheat, silage, soft dough

Field name: 413B Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	150.00	0.00	0.00	0.00
Dry manure	117.92	14.41	34.72	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	20.08	0.00	0.00	856.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	295.01	14.41	34.72	856.47
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	238.81	62.46	587.84	1,364.96
Nutrient balance	56.20	-48.04	-553.12	-508.50
Applied to removed ratio	1.24	0.23	0.06	0.63

Fresh water applied	
24,448,320.00	*gallons*
900.35	*acre-inches*
11.85	*inches/acre*

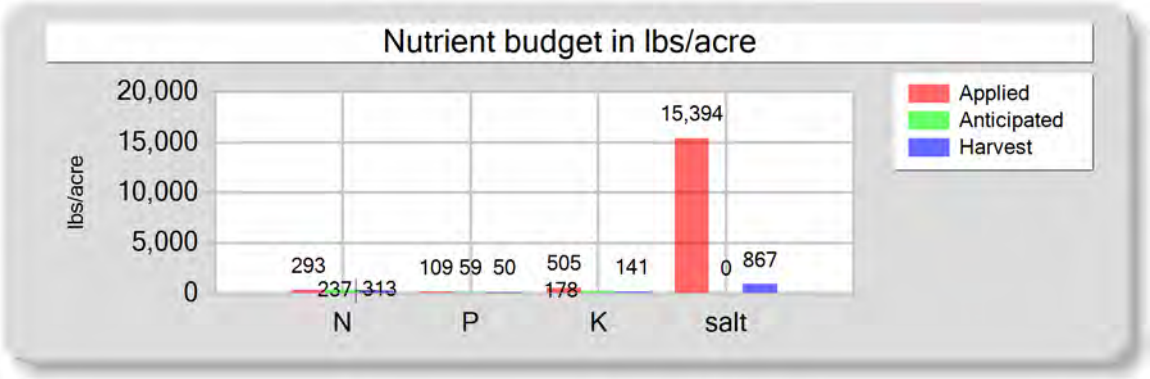
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

413B - 06/12/2023: Corn, silage

Field name: 413B Crop: Corn, silage Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	88.95	10.86	1.92	0.00
Dry manure	188.35	98.18	502.92	14,967.52
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.07	0.00	0.00	426.27
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.37	109.04	504.84	15,393.79
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	236.96	50.13	141.27	867.41
Nutrient balance	56.40	58.91	363.58	14,526.38
Applied to removed ratio	1.24	2.18	3.57	17.75

Fresh water applied	
82,599,000.00	*gallons*
3,041.84	*acre-inches*
40.02	*inches/acre*

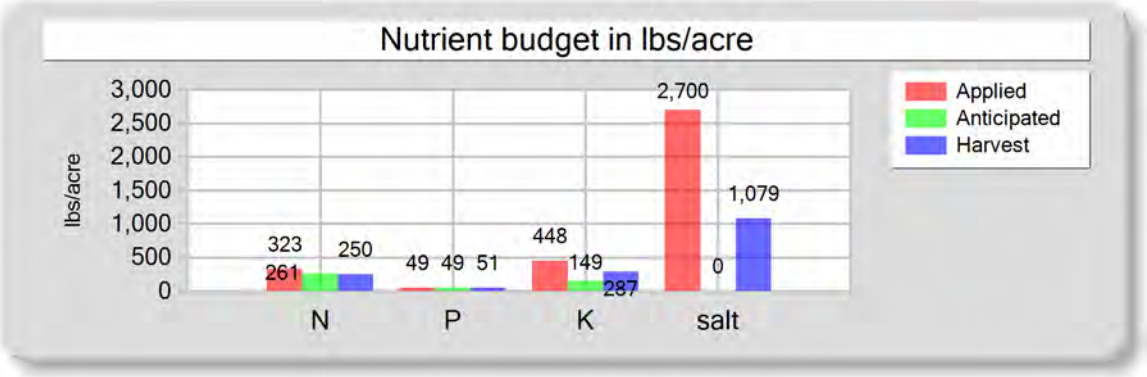
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

414 - 11/15/2022: Wheat, silage, soft dough

Field name: 414 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	312.16	49.11	447.76	2,470.33
Fresh water	3.83	0.00	0.00	229.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	322.99	49.11	447.76	2,700.15
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	250.28	50.98	287.36	1,079.37
Nutrient balance	72.71	-1.88	160.40	1,620.78
Applied to removed ratio	1.29	0.96	1.56	2.50

Fresh water applied	
17,442,000.00	*gallons*
642.33	*acre-inches*
16.90	*inches/acre*

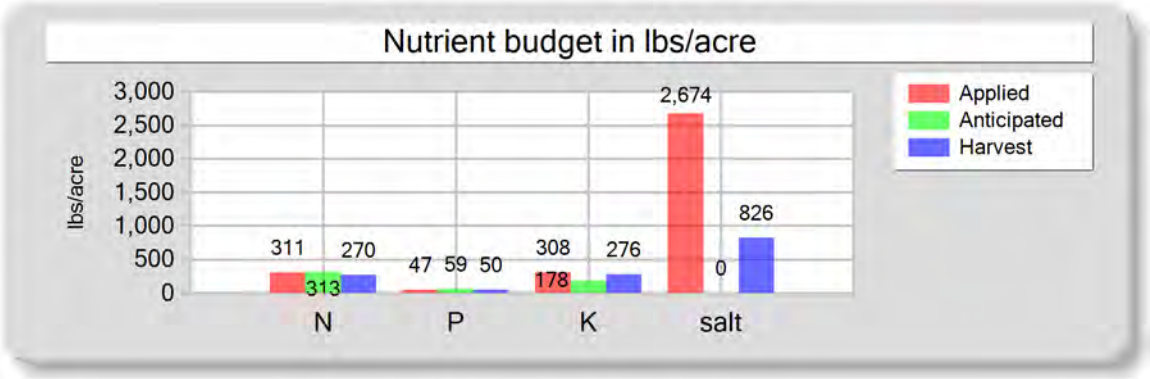
Process wastewater applied	
3,118,500.00	*gallons*
114.84	*acre-inches*
3.02	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

414 - 06/10/2023: Corn, silage

Field name: 414 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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	252.54	41.25	305.74	2,271.94
Fresh water	8.55	0.00	0.00	401.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.21	46.92	307.80	2,673.76
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	269.85	50.20	276.12	825.85
Nutrient balance	41.36	-3.28	31.68	1,847.91
Applied to removed ratio	1.15	0.93	1.11	3.24

Fresh water applied	
38,931,000.00	*gallons*
1,433.70	*acre-inches*
37.73	*inches/acre*

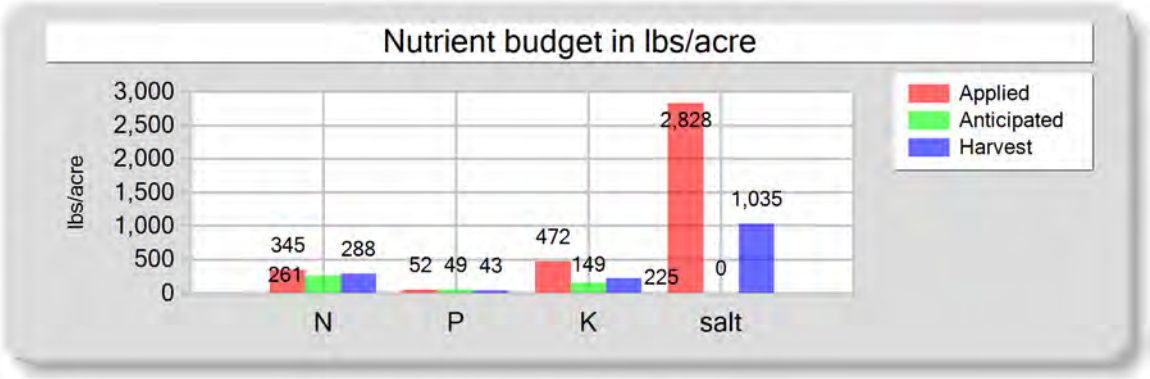
Process wastewater applied	
2,740,500.00	*gallons*
100.92	*acre-inches*
2.66	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

415 - 11/16/2022: Wheat, silage, soft dough

Field name: 415 Crop: Wheat, silage, soft dough Plant date: 11/16/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	333.88	52.11	472.47	2,605.21
Fresh water	3.72	0.00	0.00	223.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	344.60	52.11	472.47	2,828.34
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	287.74	43.36	224.68	1,034.97
Nutrient balance	56.85	8.75	247.80	1,793.36
Applied to removed ratio	1.20	1.20	2.10	2.73

Fresh water applied	
24,510,000.00	*gallons*
902.62	*acre-inches*
16.41	*inches/acre*

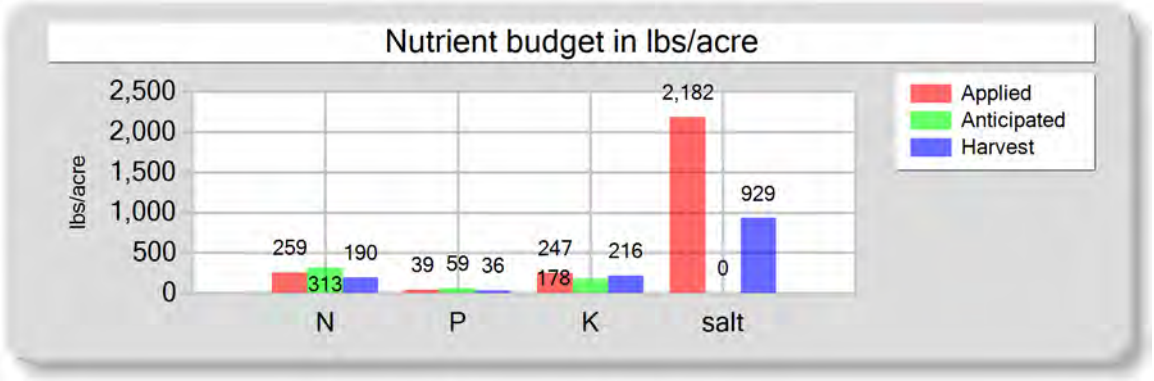
Process wastewater applied	
4,819,500.00	*gallons*
177.49	*acre-inches*
3.23	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

415 - 06/09/2023: Corn, silage

Field name: 415 Crop: Corn, silage Plant date: 06/09/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	201.05	32.83	245.39	1,804.18
Fresh water	8.03	0.00	0.00	377.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.20	38.50	247.45	2,181.77
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	189.96	35.94	215.63	929.04
Nutrient balance	69.25	2.56	31.83	1,252.72
Applied to removed ratio	1.36	1.07	1.15	2.35

Fresh water applied	
52,948,800.00	*gallons*
1,949.92	*acre-inches*
35.45	*inches/acre*

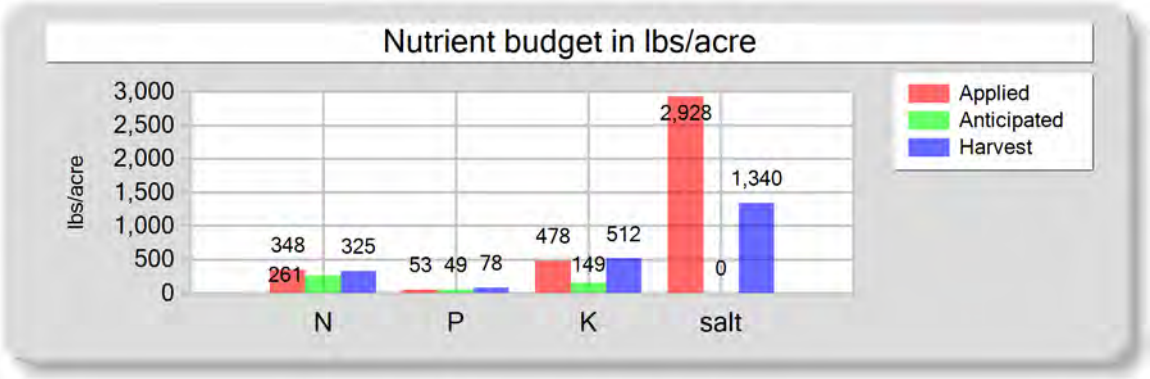
Process wastewater applied	
3,150,000.00	*gallons*
116.00	*acre-inches*
2.11	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

416 - 10/17/2022: Wheat, silage, soft dough

Field name: 416 Crop: Wheat, silage, soft dough Plant date: 10/17/2022



	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	335.85	52.57	477.64	2,634.23
Fresh water	4.89	0.00	0.00	293.55
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	347.75	52.57	477.64	2,927.79
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	324.86	78.09	512.28	1,340.05
Nutrient balance	22.89	-25.52	-34.64	1,587.74
Applied to removed ratio	1.07	0.67	0.93	2.18

Fresh water applied	
20,520,000.00	*gallons*
755.68	*acre-inches*
21.59	*inches/acre*

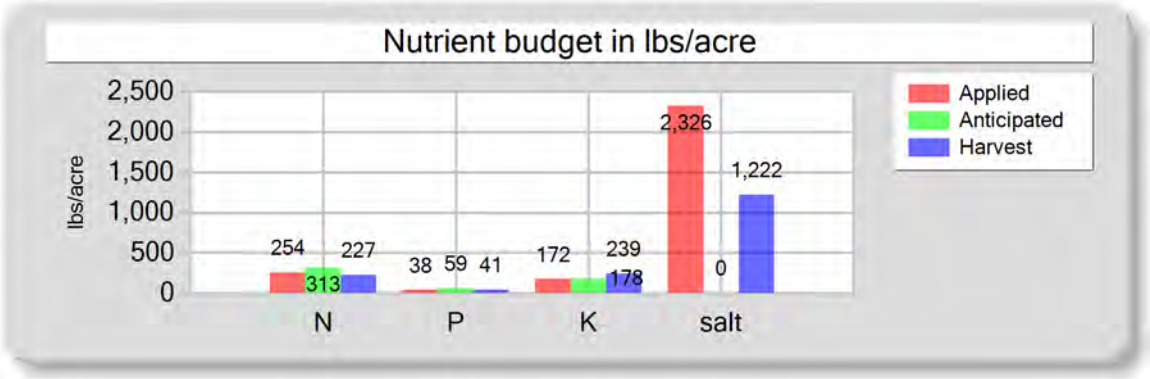
Process wastewater applied	
3,087,000.00	*gallons*
113.68	*acre-inches*
3.25	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

416 - 06/21/2023: Corn, silage

Field name: 416 Crop: Corn, silage Plant date: 06/21/2023



	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	43.12	5.67	2.06	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	194.74	32.15	170.08	1,902.11
Fresh water	9.02	0.00	0.00	423.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	253.88	37.82	172.14	2,326.08
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	227.07	40.76	238.72	1,222.23
Nutrient balance	26.81	-2.93	-66.57	1,103.85
Applied to removed ratio	1.12	0.93	0.72	1.90

Fresh water applied	
37,833,600.00	*gallons*
1,393.28	*acre-inches*
39.81	*inches/acre*

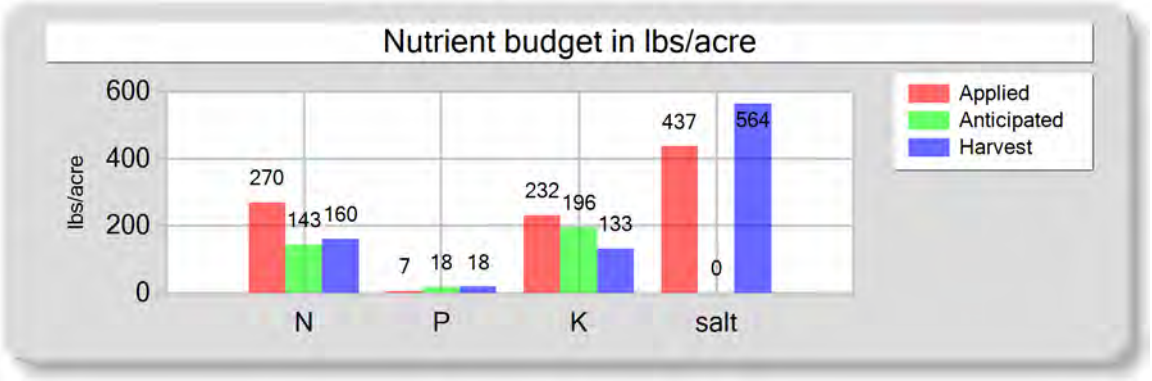
Process wastewater applied	
2,110,500.00	*gallons*
77.72	*acre-inches*
2.22	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

417 - 01/01/2020: Almond, in shell

Field name: 417 Crop: Almond, in shell Plant date: 01/01/2020



	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	247.14	6.71	232.37	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.30	0.00	0.00	437.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	270.44	6.71	232.37	437.19
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	160.45	18.32	132.61	564.35
Nutrient balance	109.99	-11.61	99.76	-127.15
Applied to removed ratio	1.69	0.37	1.75	0.77

Fresh water applied	
44,587,200.00	*gallons*
1,641.99	*acre-inches*
41.05	*inches/acre*

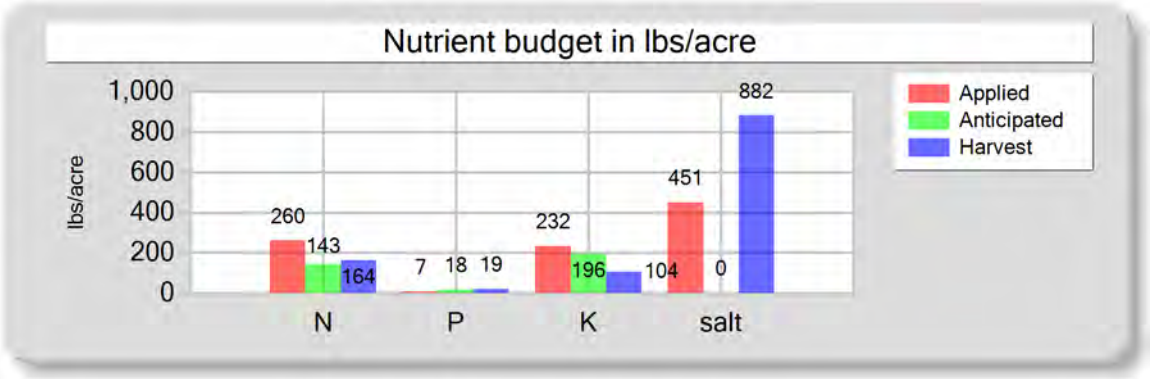
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

418 - 01/01/2020: Almond, in shell

Field name: 418 Crop: Almond, in shell Plant date: 01/01/2020



	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	236.68	6.71	232.37	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.59	0.00	0.00	450.70
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	260.27	6.71	232.37	450.70
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	163.84	19.11	104.45	881.77
Nutrient balance	96.43	-12.40	127.92	-431.06
Applied to removed ratio	1.59	0.35	2.22	0.51

Fresh water applied	
45,964,800.00	*gallons*
1,692.73	*acre-inches*
42.32	*inches/acre*

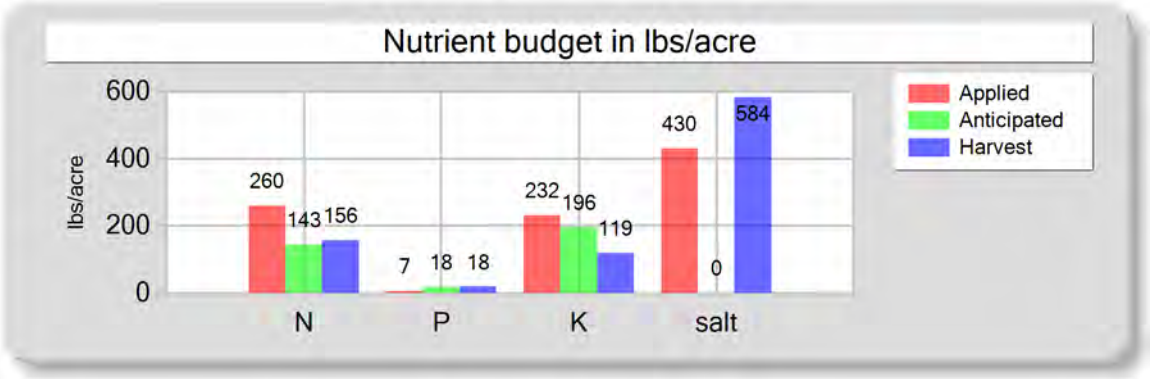
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

419 - 01/01/2020: Almond, in shell

Field name: 419 Crop: Almond, in shell Plant date: 01/01/2020



	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	237.16	6.71	232.37	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.16	0.00	0.00	430.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	260.32	6.71	232.37	430.50
Anticipated crop nutrient removal	143.20	17.60	196.00	0.00
Actual crop nutrient removal	156.39	18.40	118.89	583.51
Nutrient balance	103.93	-11.69	113.48	-153.02
Applied to removed ratio	1.66	0.36	1.95	0.74

Fresh water applied	
19,756,800.00	*gallons*
727.58	*acre-inches*
40.42	*inches/acre*

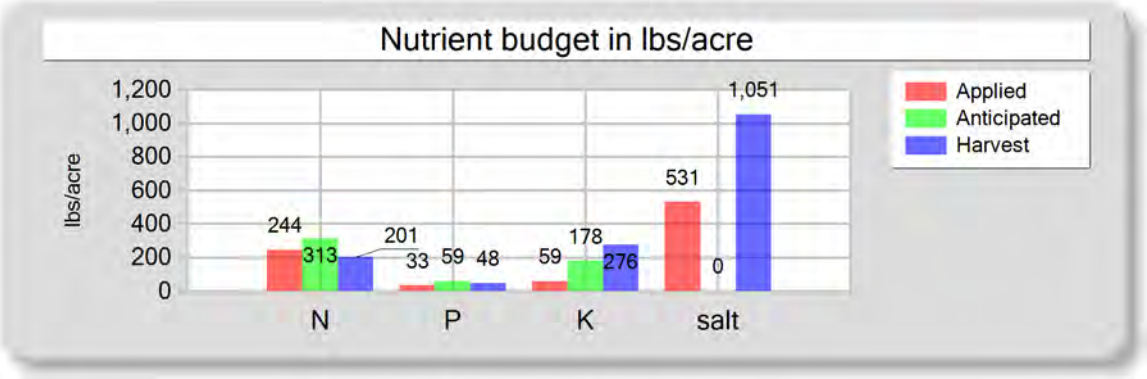
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

420 - 04/19/2023: Corn, silage

Field name: 420 Crop: Corn, silage Plant date: 04/19/2023



	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	88.95	10.86	1.92	0.00
Dry manure	132.41	21.97	57.36	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.84	0.00	0.00	530.66
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	244.21	32.83	59.28	530.66
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	201.37	47.69	275.56	1,051.37
Nutrient balance	42.84	-14.87	-216.28	-520.71
Applied to removed ratio	1.21	0.69	0.22	0.50

Fresh water applied	
33,915,000.00	*gallons*
1,248.97	*acre-inches*
39.03	*inches/acre*

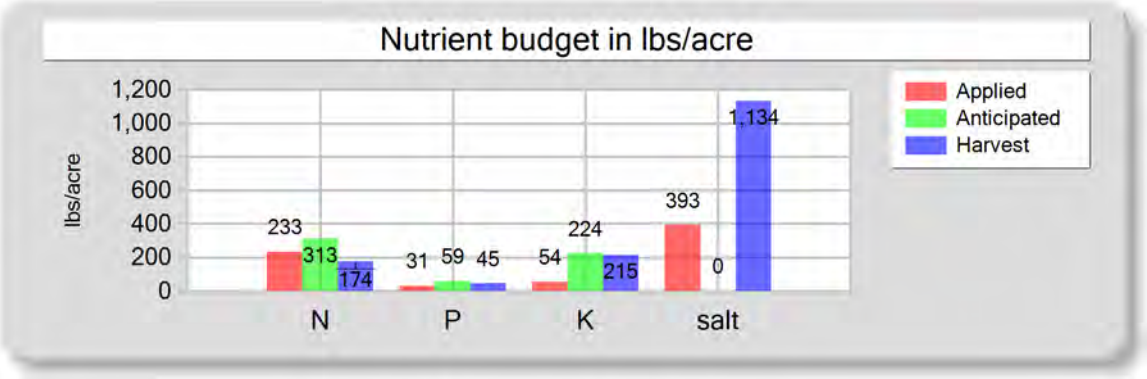
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

421 - 04/18/2023: Corn, silage

Field name: 421 Crop: Corn, silage Plant date: 04/18/2023



	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	88.95	10.86	1.92	0.00
Dry manure	121.38	20.14	52.58	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.35	0.00	0.00	392.63
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	232.68	31.00	54.50	392.63
Anticipated crop nutrient removal	313.20	59.40	224.10	0.00
Actual crop nutrient removal	174.27	44.58	214.80	1,133.77
Nutrient balance	58.41	-13.58	-160.30	-741.14
Applied to removed ratio	1.34	0.70	0.25	0.35

Fresh water applied	
32,034,000.00	*gallons*
1,179.70	*acre-inches*
36.87	*inches/acre*

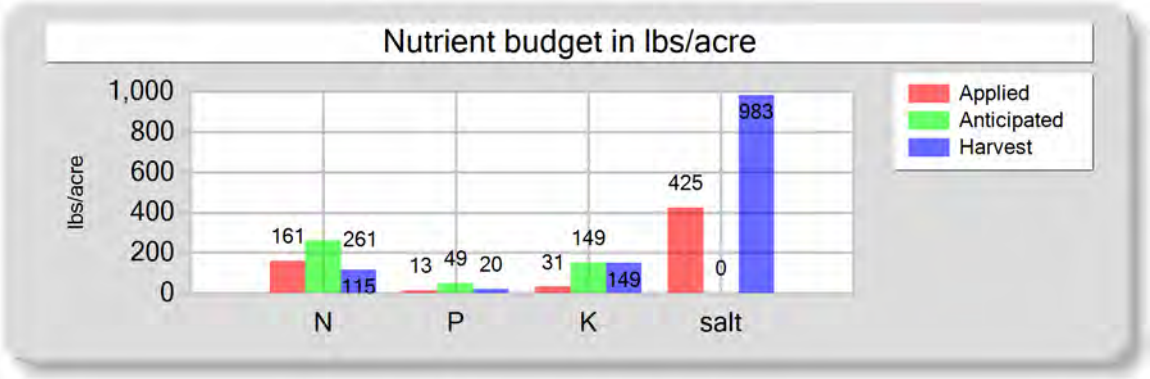
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 1 - 11/18/2022: Wheat, silage, soft dough

Field name: Delta 1 Crop: Wheat, silage, soft dough Plant date: 11/18/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	46.00	0.00	0.00	0.00
Dry manure	105.49	12.89	31.06	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.50	0.00	0.00	424.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	160.99	12.89	31.06	424.85
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	114.94	19.62	148.58	983.17
Nutrient balance	46.06	-6.73	-117.51	-558.32
Applied to removed ratio	1.40	0.66	0.21	0.43

Fresh water applied	
34,440,000.00	*gallons*
1,268.31	*acre-inches*
11.03	*inches/acre*

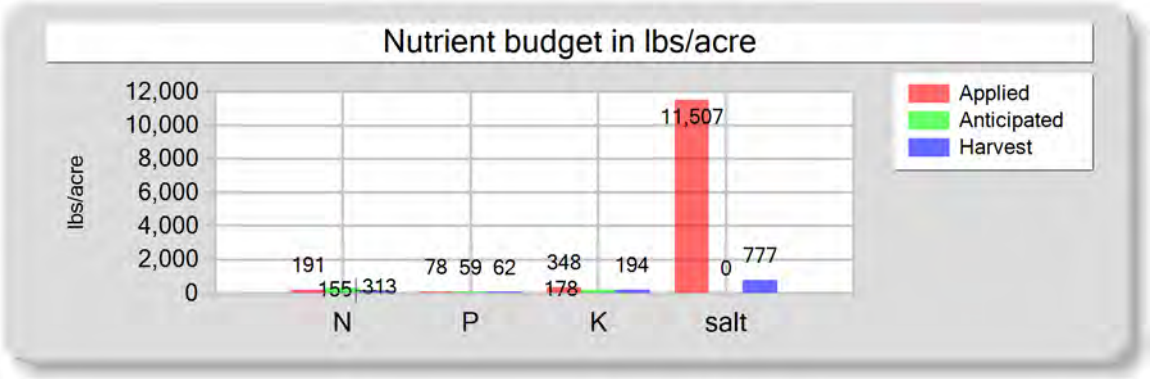
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 1 - 06/14/2023: Corn, silage

Field name: Delta 1 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	46.71	10.86	1.92	0.00
Dry manure	129.45	67.48	345.66	10,287.24
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.85	0.00	0.00	1,219.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	191.02	78.34	347.58	11,506.60
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	155.42	62.17	194.28	776.85
Nutrient balance	35.60	16.17	153.31	10,729.75
Applied to removed ratio	1.23	1.26	1.79	14.81

Fresh water applied	
108,240,000.00	*gallons*
3,986.11	*acre-inches*
34.66	*inches/acre*

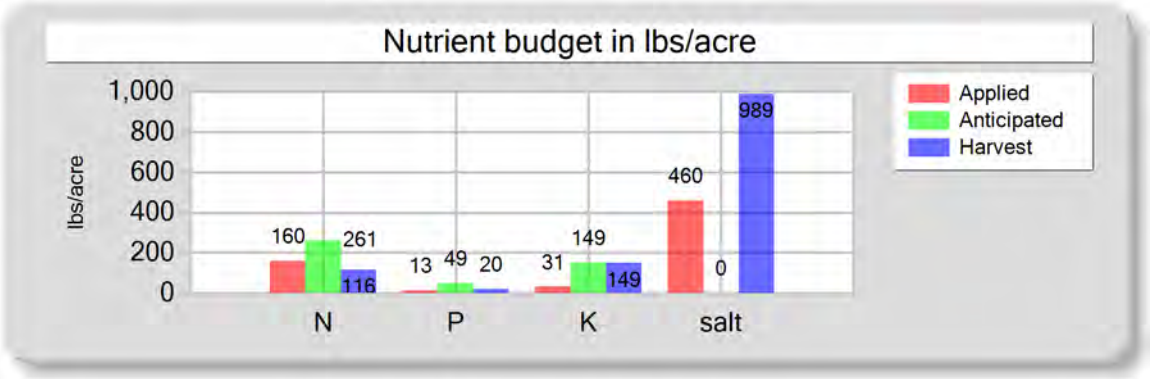
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 2 - 11/20/2022: Wheat, silage, soft dough

Field name: Delta 2 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	46.00	0.00	0.00	0.00
Dry manure	104.25	12.74	30.70	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.70	0.00	0.00	459.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.96	12.74	30.70	459.64
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	115.61	19.74	149.44	988.92
Nutrient balance	44.35	-7.00	-118.75	-529.28
Applied to removed ratio	1.38	0.65	0.21	0.46

Fresh water applied	
42,120,000.00	*gallons*
1,551.14	*acre-inches*
11.93	*inches/acre*

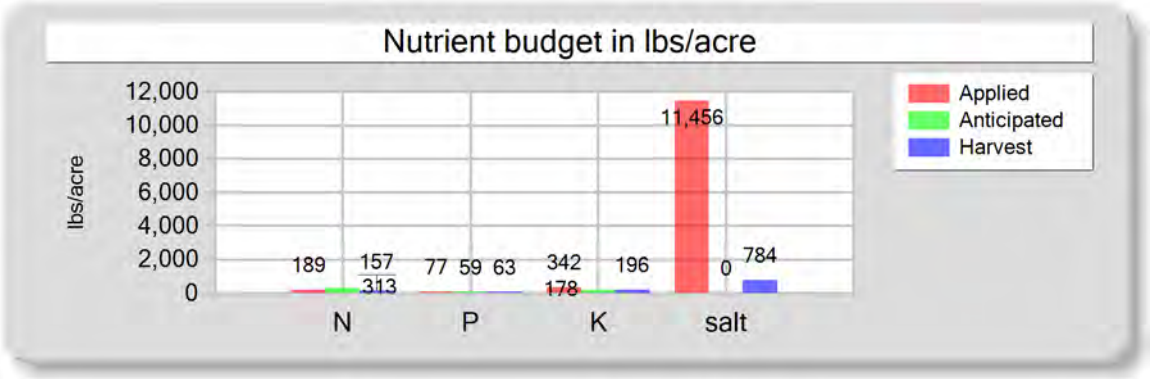
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 2 - 06/17/2023: Corn, silage

Field name: Delta 2 Crop: Corn, silage Plant date: 06/17/2023



	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	46.71	10.86	1.92	0.00
Dry manure	127.24	66.33	339.75	10,111.39
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.91	0.00	0.00	1,344.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	188.86	77.19	341.67	11,456.27
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	156.86	62.74	196.07	784.03
Nutrient balance	32.00	14.44	145.60	10,672.25
Applied to removed ratio	1.20	1.23	1.74	14.61

Fresh water applied	
123,240,000.00	*gallons*
4,538.51	*acre-inches*
34.91	*inches/acre*

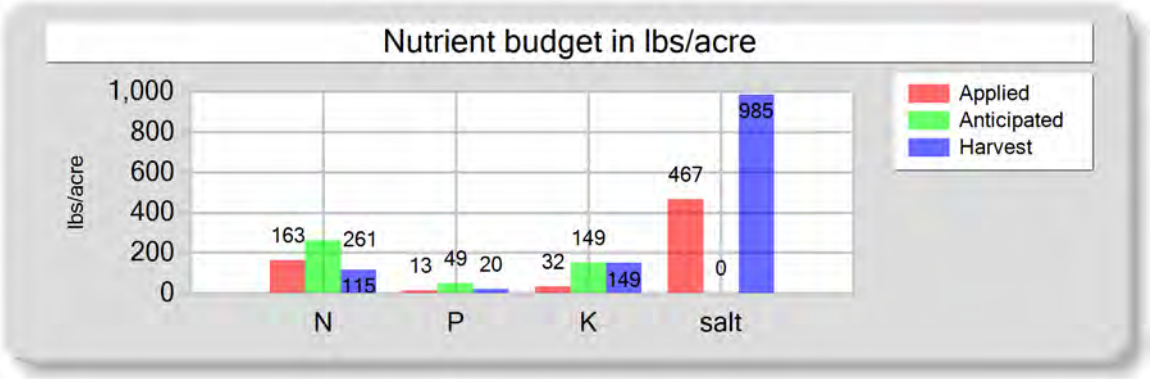
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 3 - 11/23/2022: Wheat, silage, soft dough

Field name: Delta 3 Crop: Wheat, silage, soft dough Plant date: 11/23/2022



	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	46.00	0.00	0.00	0.00
Dry manure	107.73	13.17	31.72	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.75	0.00	0.00	466.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	163.48	13.17	31.72	466.94
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	115.17	19.66	148.88	985.22
Nutrient balance	48.31	-6.50	-117.16	-518.28
Applied to removed ratio	1.42	0.67	0.21	0.47

Fresh water applied	
23,040,000.00	*gallons*
848.48	*acre-inches*
12.12	*inches/acre*

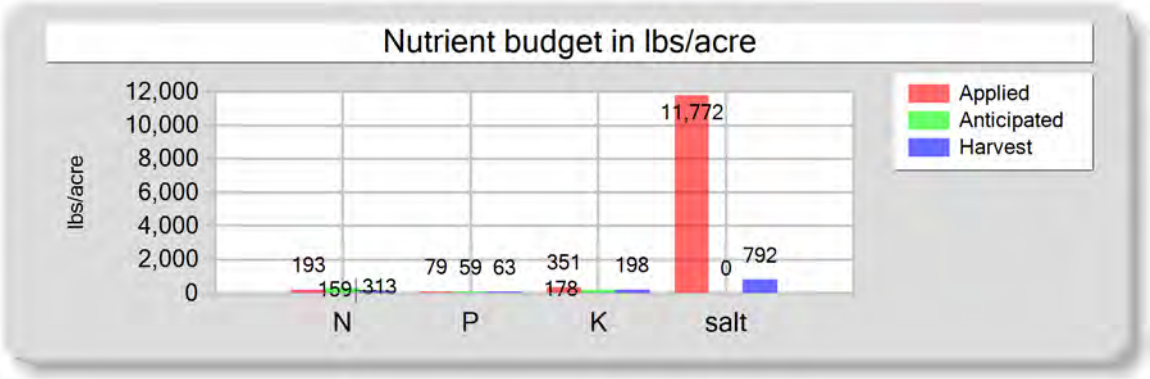
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 3 - 06/16/2023: Corn, silage

Field name: Delta 3 Crop: Corn, silage Plant date: 06/16/2023



	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	46.71	10.86	1.92	0.00
Dry manure	130.87	68.22	349.46	10,400.29
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.07	0.00	0.00	1,371.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	192.65	79.08	351.38	11,771.92
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	158.53	63.41	198.16	792.37
Nutrient balance	34.13	15.67	153.22	10,979.55
Applied to removed ratio	1.22	1.25	1.77	14.86

Fresh water applied	
67,680,000.00	*gallons*
2,492.42	*acre-inches*
35.61	*inches/acre*

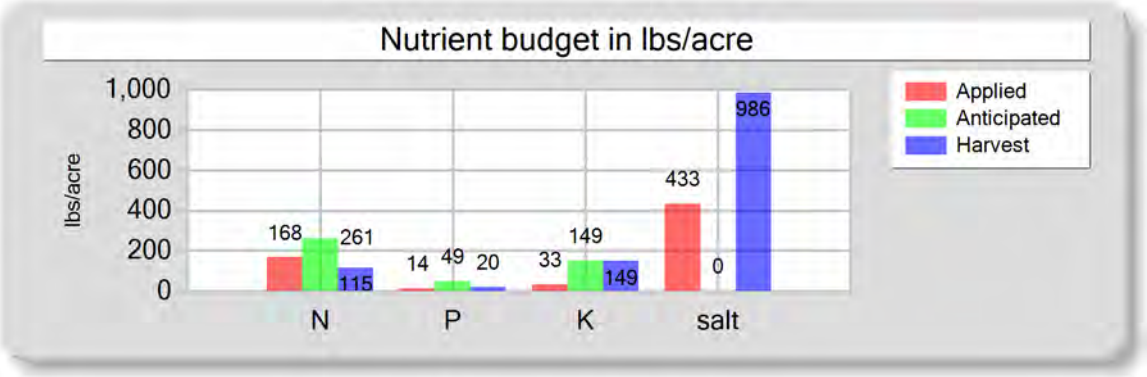
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 4 - 11/22/2022: Wheat, silage, soft dough

Field name: Delta 4 Crop: Wheat, silage, soft dough Plant date: 11/22/2022



	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	46.00	0.00	0.00	0.00
Dry manure	112.61	13.76	33.16	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	2.55	0.00	0.00	433.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	168.16	13.76	33.16	433.33
Anticipated crop nutrient removal	261.00	48.60	149.40	0.00
Actual crop nutrient removal	115.26	19.68	149.00	985.99
Nutrient balance	52.89	-5.92	-115.84	-552.66
Applied to removed ratio	1.46	0.70	0.22	0.44

Fresh water applied	
30,240,000.00	*gallons*
1,113.64	*acre-inches*
11.25	*inches/acre*

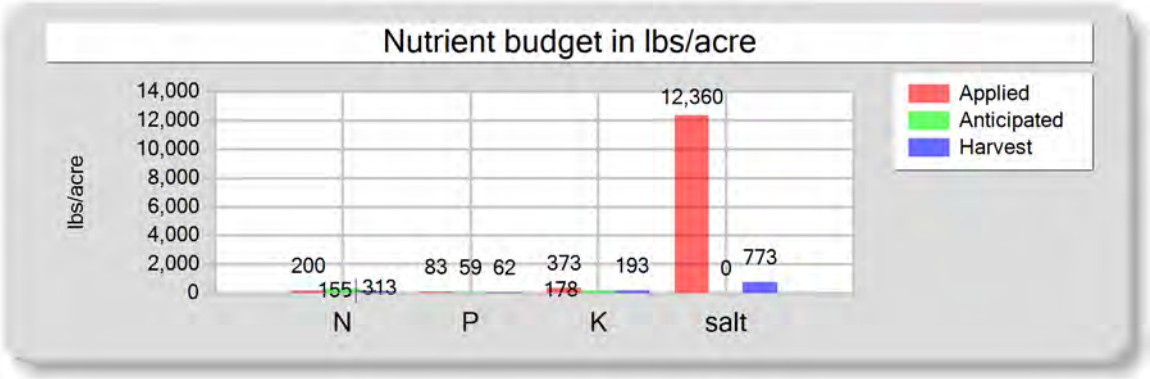
Process wastewater applied	
0.00	*gallons*
0.00	*acre-inches*
0.00	*inches/acre*

Total harvests for the crop	
1	*harvests*

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

Delta 4 - 06/19/2023: Corn, silage

Field name: Delta 4 Crop: Corn, silage Plant date: 06/19/2023



	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	46.71	10.86	1.92	0.00
Dry manure	138.81	72.36	370.64	11,030.61
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.82	0.00	0.00	1,329.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	200.33	83.22	372.56	12,359.84
Anticipated crop nutrient removal	313.20	59.40	178.20	0.00
Actual crop nutrient removal	154.62	61.85	193.28	772.87
Nutrient balance	45.71	21.37	179.28	11,586.97
Applied to removed ratio	1.30	1.35	1.93	15.99

Fresh water applied	
92,760,000.00	*gallons*
3,416.04	*acre-inches*
34.51	*inches/acre*

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

Total harvests for the crop	
1	*harvests*

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

2022 Corral Solids

Sample and source description: 2022 Corral Solids
Sample date: 09/28/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 23.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,800.00	6,500.00	33,100.00							0.00
DL	100.00	100.00	100.00							0.01

2022 Drying Solids

Sample and source description: 2022 Drying Solids
Sample date: 09/28/2022 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 36.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,300.00	1,900.00	4,500.00							0.00
DL	100.00	100.00	100.00							0.01

2022 Separated Solids

Sample and source description: 2022 Separated Solids
Sample date: 09/28/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 74.7 %

	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 (%)
Value	18,000.00	2,200.00	5,300.00							0.00
DL	100.00	100.00	100.00							0.01

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

Spring Corral Solids

Sample and source description: Spring Corral Solids
Sample date: 04/20/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 15.4 %

	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 (%)
Value	9,400.00	4,900.00	25,100.00	11,800.00	7,800.00	2,900.00	2,400.00	6,000.00		74.70
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

Spring Drying Solids

Sample and source description: Spring Drying Solids
Sample date: 04/20/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 17.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,900.00	3,400.00	8,500.00							0.00
DL	100.00	100.00	100.00							0.01

Spring Separated Solids

Sample and source description: Spring Separated Solids
Sample date: 04/20/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 77.4 %

	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 (%)
Value	21,700.00	3,600.00	9,400.00							0.00
DL	100.00	100.00	100.00							0.01

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

Fall Corral Solids

Sample and source description: Fall Corral Solids
Sample date: 10/13/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 9.7 %

	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 (%)
Value	23,200.00	4,000.00	13,400.00	13,600.00	6,500.00	3,600.00	2,100.00	2,000.00		39.00
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

Fall Drying Solids

Sample and source description: Fall Drying Solids
Sample date: 10/13/2023 Material type: Compost Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 9.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,900.00	3,700.00	11,000.00	13,700.00	6,200.00	3,500.00	2,100.00	2,000.00		33.60
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

Fall Separator Solids

Sample and source description: Fall Separator Solids
Sample date: 10/13/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight
Moisture: 76.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,200.00	3,600.00	10,700.00	11,300.00	5,100.00	3,000.00	2,400.00	2,000.00		24.40
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1,000.00		0.01

B. PROCESS WASTEWATER ANALYSES

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

2022 WWSQ4

Sample and source description: 2022 WWSQ4

Sample date: 10/20/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.50

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	462.00	331.00	0.00	1.60	68.20	592.00								7,070.00	3,250
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWSQ1

Sample and source description: WWSQ1

Sample date: 02/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	453.00	291.00	0.00	2.90	73.30	682.00								6,590.00	3,770
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWSQ2

Sample and source description: WWSQ2

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	5.13	4.84	0.00	4.62	3.37	31.20								7,510.00	730
DL	1.00	0.50	0.50	0.10	0.10	0.10								10.00	10

WWSQ3

Sample and source description: WWSQ3

Sample date: 09/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.20

	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)
Value	29.40	21.60	0.00	3.70	4.90	43.10	48.40	18.40	9.80	0.00	0.00	39.00	63.50	810.00	430
DL	1.00	0.50	0.50	0.10	0.10	0.50	0.10	0.10	0.10	5.00	1.00	0.10	0.10	10.00	10

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

WWSQ3

Sample and source description: WWSQ3

Sample date: 09/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	387.00	306.00	0.00	3.90	63.90	338.00								6,080.00	3,780
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

WWSQ4

Sample and source description: WWSQ4

Sample date: 10/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.40

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	230.00	151.00	0.00	0.10	95.20	402.00								3,680.00	3,450
DL	1.00	0.50	0.50	0.10	0.10	0.50								10.00	10

C. FRESH WATER ANALYSES

Broadway Canal

Canal

Sample description: Canal

Sample date: 05/24/2022 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.00	0.00	0.30								359.00	170
DL	1.00	0.50	0.10								10.00	10

CWD-Chowchilla Canal

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

CWD-Chowchilla Canal

Canal

Sample description: Canal

Sample date: 06/20/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.00	0.00	0.20								95.80	60
DL	1.00	0.50	0.10								10.00	10

CWD-Justin Canal

Canal

Sample description: Canal

Sample date: 06/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.00	0.00	0.20								59.10	47
DL	1.00	0.50	0.10								10.00	10

IW-10

Irrigation Well

Sample description: Irrigation Well

Sample date: 08/31/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.14	0.00	1.10								242.00	215
DL	1.00	0.50	0.10								10.00	10

IW-12-1

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

IW-12-1

Irrigation Well

Sample description: Irrigation Well

Sample date: 12/07/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.61	0.00	2.40								297.00	222
DL	1.00	0.50	0.10								10.00	10

IW-12-D

Irrigation Well

Sample description: Irrigation Well

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)
Value	1.00	0.00	0.10								26.40	29
DL	1.00	0.50	0.10								10.00	10

IW-163

Irrigation Well

Sample description: Irrigation Well

Sample date: 11/28/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.83	0.00	2.30								941.00	610
DL	1.00	0.50	0.10								10.00	10

IW-165

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

IW-165

Irrigation Well

Sample description: Irrigation 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)
Value	1.00	0.00	0.30								316.00	190
DL	1.00	0.50	0.10								10.00	10

IW-166

Irrigation Well

Sample description: Irrigation Well

Sample date: 08/31/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	17.10	0.00	16.80								1,000.00	700
DL	1.00	0.50	0.10								10.00	10

IW-174

Irrigation Well

Sample description: Irrigation Well

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)
Value	19.20	0.00	5.30								536.00	317
DL	1.00	0.50	0.10								10.00	10

IW-18

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

IW-18

Irrigation Well

Sample description: Irrigation Well

Sample date: 11/28/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	49.40	0.00	49.40								1,550.00	1,070
DL	1.00	0.50	0.10								10.00	10

Irrigation Well

Sample description: Irrigation 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)
Value	3.07	0.00	2.50								1,150.00	680
DL	1.00	0.50	0.10								10.00	10

IW-8A

Irrigation Well

Sample description: Irrigation Well

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)
Value	11.10	0.00	11.10								612.00	360
DL	1.00	0.50	0.10								10.00	10

IW-8B

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

IW-8B

Irrigation Well

Sample description: Irrigation Well

Sample date: 12/07/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	2.67	0.00	2.40								312.00	218
DL	1.00	0.50	0.10								10.00	10

D. SOIL ANALYSES

401

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			60.00				
DL			2.00				

402

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			61.00				
DL			2.00				

404

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

404

Soil

Sample and source description: Soil

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			105.00				
DL			2.00				

405

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			105.00				
DL			2.00				

406

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			140.00				
DL			2.00				

407

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

407

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			161.00				
DL			2.00				

408

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			122.00				
DL			2.00				

409

Soil

Sample and source description: Soil

Sample date: 10/19/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			86.00				
DL			2.00				

411

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

411

Soil

Sample and source description: Soil

Sample date: 10/31/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			80.00				
DL			2.00				

412A

Soil

Sample and source description: Soil

Sample date: 10/31/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			77.00				
DL			2.00				

413A

Soil

Sample and source description: Soil

Sample date: 10/19/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			38.00				
DL			2.00				

413B

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

413B

Soil

Sample and source description: Soil

Sample date: 10/19/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			11.00				
DL			2.00				

414

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			99.00				
DL			2.00				

415

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			119.00				
DL			2.00				

416

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

416

Soil

Sample and source description: Soil

Sample date: 10/19/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			107.00				
DL			2.00				

417

Soil

Sample and source description: Soil

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			23.00				
DL			2.00				

418

Soil

Sample and source description: Soil

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			13.00				
DL			2.00				

419

419

Soil

Sample and source description: Soil

Sample date: 11/14/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			33.00				
DL			2.00				

420

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			92.00				
DL			2.00				

421

Soil

Sample and source description: Soil

Sample date: 10/10/2023 Source of analysis: Lab analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (µmhos/cm)	Organic matter (%)	Total salt (mg/kg)
Value			73.00				
DL			2.00				

E. PLANT TISSUE ANALYSES

401 - 11/22/2022: Wheat, silage, soft dough

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

401 - 11/22/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	1,400.00	8,200.00		10.90
DL	1,000.00	20.00	100.00		0.01

401 - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,100.00	4,800.00		6.60
DL	1,000.00	20.00	20.00		0.01

402 - 11/22/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	1,400.00	8,200.00		10.90
DL	1,000.00	20.00	20.00		0.01

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

402 - 06/10/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,200.00	7,100.00		7.50
DL	1,000.00	20.00	20.00		0.01

403A - 11/01/2015: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 15.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,700.00	2,300.00	18,400.00		8.60
DL	1,000.00	20.00	20.00		0.01

404 - 11/01/2015: Almond, in shell

Almonds

Sample and source description: Almonds

Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 15.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,700.00	2,300.00	18,400.00		8.60
DL	1,000.00	20.00	20.00		0.01

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

405 - 11/15/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,000.00	900.00	8,600.00		7.90
DL	1,000.00	20.00	20.00		0.01

405 - 06/10/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 61.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	1,400.00	6,700.00		6.90
DL	1,000.00	20.00	20.00		0.01

406 - 10/18/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 40.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,700.00	1,500.00	7,400.00		6.70
DL	100.00	100.00	100.00		0.01

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

406 - 05/16/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	1,200.00	10,600.00		11.30
DL	1,000.00	20.00	20.00		0.01

407 - 10/18/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 40.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,100.00	1,500.00	7,800.00		5.90
DL	100.00	100.00	100.00		0.01

407 - 05/16/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	800.00	8,400.00		7.90
DL	1,000.00	20.00	20.00		0.01

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

408 - 11/15/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,700.00	1,200.00	10,000.00		8.80
DL	1,000.00	20.00	20.00		0.01

408 - 06/08/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/24/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	900.00	6,100.00		7.90
DL	1,000.00	20.00	20.00		0.01

409 - 11/15/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,500.00	1,400.00	11,500.00		10.00
DL	1,000.00	20.00	20.00		0.01

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

409 - 06/20/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 69.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,700.00	1,000.00	6,400.00		7.70
DL	1,000.00	20.00	20.00		0.01

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,000.00	5,400.00		5.60
DL	1,000.00	20.00	20.00		0.01

410 - 11/19/2022: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa
Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 30.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,800.00	2,500.00	21,900.00		10.80
DL	1,000.00	20.00	20.00		0.01

411 - 11/16/2022: Wheat, silage, soft dough

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

411 - 11/16/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,300.00	1,100.00	9,400.00		11.70
DL	1,000.00	20.00	20.00		0.01

411 - 06/21/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,500.00	1,000.00	5,600.00		5.60
DL	1,000.00	20.00	20.00		0.01

412A - 11/16/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,400.00	1,500.00	13,000.00		11.50
DL	1,000.00	20.00	20.00		0.01

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

412A - 06/21/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 59.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	600.00	3,300.00		4.80
DL	1,000.00	20.00	20.00		0.01

413A - 11/16/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,100.00	1,800.00	16,000.00		12.00
DL	1,000.00	20.00	20.00		0.01

413A - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 60.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	1,000.00	4,000.00		5.10
DL	1,000.00	20.00	20.00		0.01

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

413A - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,600.00	600.00	3,700.00		6.00
DL	1,000.00	20.00	20.00		0.01

413B - 11/16/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,700.00	16,000.00		10.80
DL	1,000.00	20.00	20.00		0.01

413B - 06/12/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/12/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 59.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,200.00	1,100.00	3,100.00		4.70
DL	1,000.00	20.00	20.00		0.01

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

414 - 11/15/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,400.00	1,100.00	6,200.00		8.20
DL	1,000.00	20.00	20.00		0.01

414 - 06/10/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	800.00	4,400.00		4.00
DL	1,000.00	20.00	20.00		0.01

415 - 11/16/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	1,100.00	5,700.00		7.70
DL	1,000.00	20.00	20.00		0.01

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

415 - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 11/09/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,700.00	700.00	4,200.00		5.80
DL	1,000.00	20.00	20.00		0.01

416 - 10/17/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 45.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,400.00	2,500.00	16,400.00		7.80
DL	100.00	100.00	100.00		0.01

416 - 06/21/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,900.00	700.00	4,100.00		6.40
DL	1,000.00	20.00	20.00		0.01

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

417 - 01/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 8.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,900.00	2,500.00	18,100.00		8.40
DL	1,000.00	20.00	20.00		0.01

418 - 01/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 6.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,000.00	2,800.00	15,300.00		13.80
DL	1,000.00	20.00	20.00		0.01

419 - 01/01/2020: Almond, in shell

Almonds

Sample and source description: Almonds
Sample date: 08/31/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 6.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,100.00	2,600.00	16,800.00		8.80
DL	1,000.00	20.00	20.00		0.01

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

420 - 04/19/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	900.00	5,200.00		6.20
DL	1,000.00	20.00	20.00		0.01

421 - 04/18/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 08/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	1,100.00	5,300.00		7.50
DL	100.00	100.00	100.00		0.01

Delta 1 - 11/18/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	5,300.00		12.80
DL	1,000.00	20.00	20.00		0.01

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

Delta 1 - 06/14/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/15/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,600.00	5,000.00		5.68
DL	1,000.00	20.00	20.00		0.01

Delta 2 - 11/20/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	5,300.00		12.80
DL	1,000.00	20.00	20.00		0.01

Delta 2 - 06/17/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/17/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,600.00	5,000.00		5.68
DL	1,000.00	20.00	20.00		0.01

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

Delta 3 - 11/23/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/18/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	5,300.00		12.80
DL	1,000.00	20.00	20.00		0.01

Delta 3 - 06/16/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage
Sample date: 10/14/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,600.00	5,000.00		5.68
DL	1,000.00	20.00	20.00		0.01

Delta 4 - 11/22/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage
Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is
Moisture: 72.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,100.00	700.00	5,300.00		12.80
DL	1,000.00	20.00	20.00		0.01

Delta 4 - 06/19/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	1,600.00	5,000.00		5.68
DL	1,000.00	20.00	20.00		0.01

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

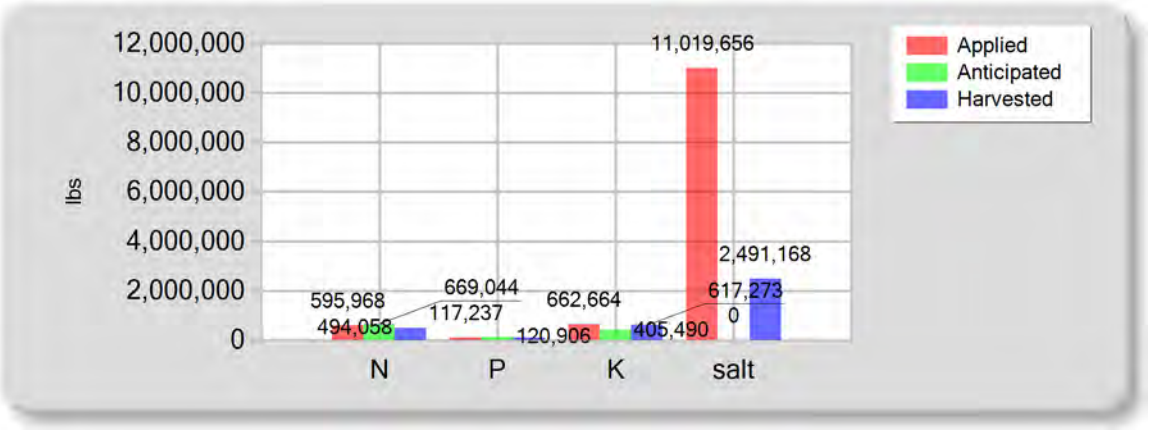
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

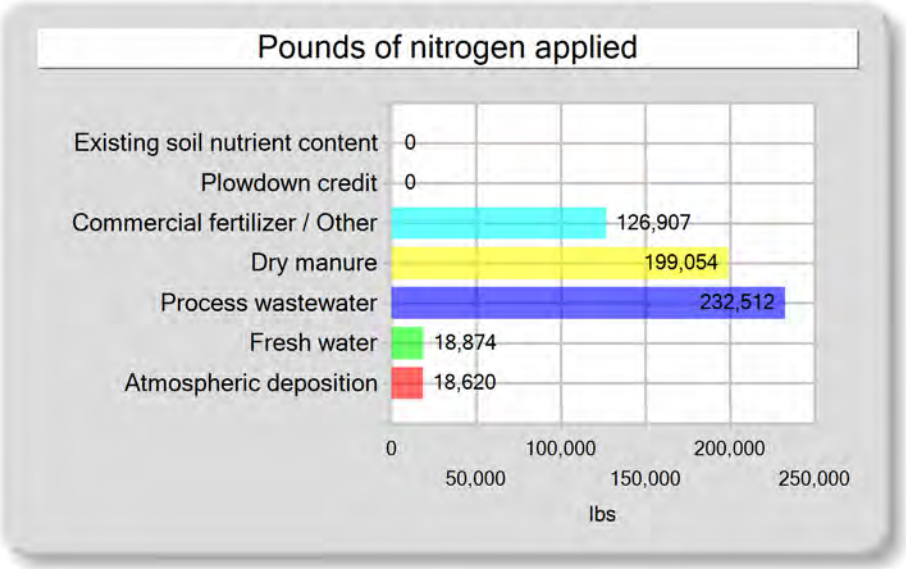
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	126,906.64	10,676.05	33,802.64	0.00
Dry manure	199,054.16	69,158.95	332,845.42	7,593,655.39
Process wastewater	232,512.35	37,401.71	296,015.62	1,999,546.33
Fresh water	18,874.39	0.00	0.00	1,426,454.00
Atmospheric deposition	18,620.00	0.00	0.00	0.00
Total nutrients applied	595,967.54	117,236.71	662,663.68	11,019,655.72
Anticipated crop nutrient removal	669,044.00	120,906.40	405,490.40	0.00
Actual crop nutrient removal	494,058.27	106,173.27	617,273.45	2,491,168.49
Nutrient balance	101,909.27	11,063.44	45,390.23	8,528,487.23
Applied to removed ratio	1.21	1.10	1.07	4.42

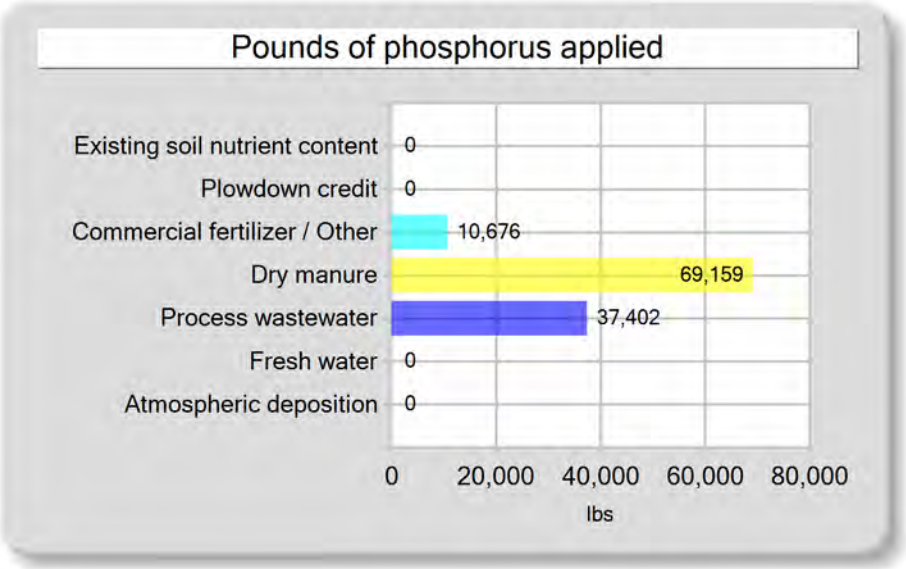
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

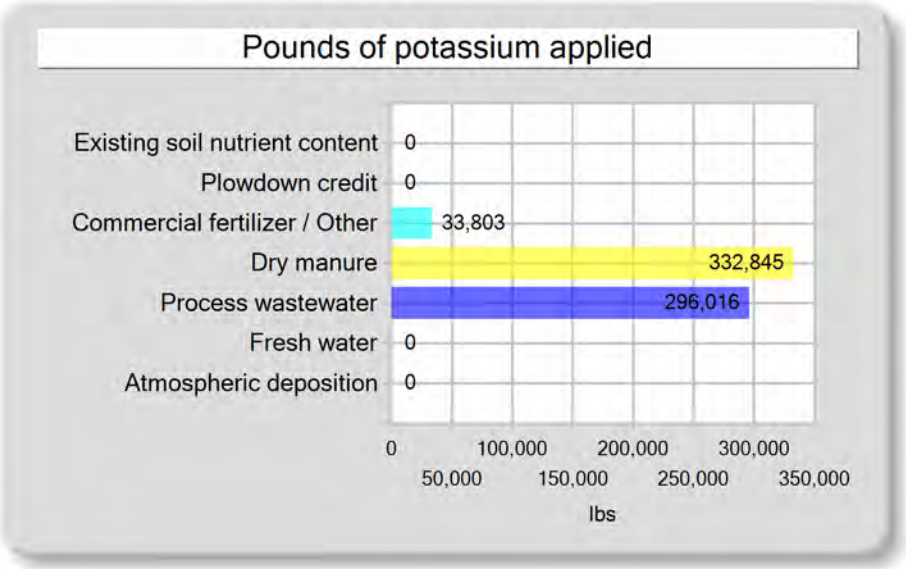


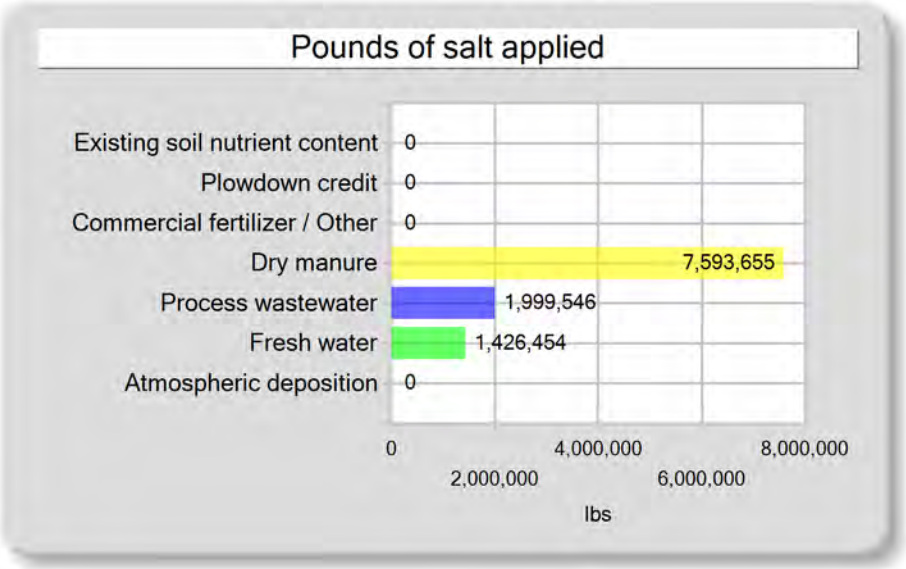
Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period?	No
Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes
Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order?	Yes

B. EXPORT AGREEMENT STATEMENT

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

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

ADDITIONAL NOTES

A. NOTES

Precipitation utilized to meet freshwater needs of winter forage.

Irrigation wells 13, 13-2, 13-D, 15, 16, & 167 were not used or not operational in 2023. All wells will be sampled once the wells become operational and used during the cropping season. Heavy rains during the winter season allowed for a greater amount of surface water allocation to grow crops. IW 7 has been retired and will no longer be in use.

Fields Delta 1 Winter Forage, Delta 2 Winter Forage, 407 Corn, 415 Corn, 420 Corn, 421 Corn, Delta 1 Corn, Delta 2 Corn, Delta 3 Corn, Delta 4 Corn & 410 Alfalfa had lower than anticipated removal rates. This was due to lower than expected yields and/or lower than expected %N. The %N removed, which is based on analysis derived through a certified laboratory, did not meet the anticipated values for these crops. Nutrient removal rates were lower than expected yet the 1.4 threshold was met.

Fields Delta 3 Winter Forage, Delta 4 Winter Forage, 417 Almonds, 418 Almonds, & 419 Almonds had lower than anticipated removal rates. This was due to a lower than expected yield and/or lower than expected %N. The %N was based on analysis that was derived through a certified laboratory. The low removal rate resulted in a field ratio slightly exceeding target limits, even though application rates did not exceed expected removals.

Nutrients applied to permanent crops, such as trees and vines, are used for tree growth, vine development and fruit production (grapes, nuts, etc.). Comparing nutrient applications to nutrient content of harvested material for permanent crops is not appropriate and will result in high field ratios. A more accurate reporting methodology will need to be developed in order to account for nutrients retained in the permanent crops. All applications will continue to be monitored closely to ensure that over application of nutrients does not occur.

Fields 403A Almonds, 403B Almonds, 404 Almonds, 410 Alfalfa, 412B Almonds, 417 Almonds, 418 Almonds, & 419 Almonds received no wastewater or solid manure in 2023. All nutrients applied to these fields was contributed through freshwater applications and/or commercial fertilizer only.

Fields 420 & 421 were fallow during the 2023 winter cropping season. Fields Delta 5A, Delta 5B, Delta 5C, and Delta 5D were fallow all of 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.

DocuSigned by: 0A95F0BB44D8493...	DocuSigned by: 0A95F0BB44D8493...
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Jeff Troost	Johnny Troost
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6/25/2024	6/25/2024
DATE	DATE

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

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

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

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

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

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

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Johnny Troost

Name of Dairy Facility: Troost Dairy

Facility Address:

27000 Road 9	Chowchilla	Madera	93610
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Johnny Troost (559) 645-2284
Name Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Shut Eye Transco, LLC

Address of Hauling Company/Person:

24662 Road 9	Chowchilla	CA	93610
Number and Street	City	State	Zip Code

Contact Person: Johnny Troost (559) 645-2284
Name Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Blech Farms (559) 479-1813
Name Phone Number

21342 Road 15 1/2	Chowchilla	CA	93610
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

21342 Road 15 1/2	Chowchilla	93610
Address	City	Zip Code

Merced
Street and nearest cross street (if no address) County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 12/09/2023

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 1,250.00 tons

Manure Solids Content: 90.2 %

Method used to determine amount of manure:

Number of loads multiplied by load weight

CERTIFICATION

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

DocuSigned by:
0A95F0BB44D8493...
6/25/2024

Operator Signature — Date

DocuSigned by:
0A95F0BB44D8493...
6/25/2024

Hauler Signature — Date

DocuSign Envelope ID: D27F90BE-389E-4B46-B14D-C5C03E181CBB

DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
24662 Rd 9
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
22E2129-01	Broadway Canal	Canal Water			05/23/2022 0:00

Default Cooler Temperature on Receipt °C: 23.5
Containers Intact
COC/Labels Agree
Preservation Confirmed

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com

DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
24662 Rd 9
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Sample Results

Sample: Broadway Canal
22E2129-01 (Water)

Sampled: 5/23/2022 0:00
Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.36**	mmhos/cm	0.01	1		05/27/22 13:34	SM 2510 B		BDE1125
Electrical Conductivity umhos	**359**	umhos/cm	10.0	1		05/27/22 13:34	SM 2510 B		BDE1125
Nitrate Nitrogen as NO3N	**0.3**	mg/L	0.1	1	10	05/24/22 21:20	EPA 300.0		BDE0898
pH	**7.5**	units	1.0	1		05/27/22 13:34	SM 4500-H+	H	BDE1125
Total Filterable Solids (TDS)	**170**	mg/L	10.0	1		05/27/22 15:32	SM 2540 C		BDE0983
Temperature	**25.0**	°C	0.0	1		05/27/22 13:34	SM 2510 B		BDE1125
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		05/31/22 11:09	SM 4500-NH3 C		BDE1144
Total Nitrogen	ND	mg/L	1.00	1		05/31/22 11:09	SM 4500-NH3 C		BDE1144

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
24662 Rd 9
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0898										
Blank (BDE0898-BLK1)					Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BDE0898-BLK2)					Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BDE0898-BLK3)					Prepared & Analyzed: 5/25/2022					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BDE0898-BS1)					Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L	5.000		109	90-110		
LCS (BDE0898-BS2)					Prepared & Analyzed: 5/25/2022					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		103	90-110		
Duplicate (BDE0898-DUP1)		**Source: 22E2087-01**			Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	11.4		0.1	mg/L		11.0			3.85	10
Duplicate (BDE0898-DUP2)		**Source: 22E2102-01**			Prepared & Analyzed: 5/25/2022					
Nitrate Nitrogen as NO3N	14.7		0.1	mg/L		14.7			0.565	10
Matrix Spike (BDE0898-MS1)		**Source: 22E2087-01**			Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	16.9		0.1	mg/L	5.000	11.0	119	90-110		
Matrix Spike (BDE0898-MS2)		**Source: 22E2102-01**			Prepared & Analyzed: 5/25/2022					
Nitrate Nitrogen as NO3N	20.0		0.1	mg/L	5.000	14.7	105	90-110		
Reference (BDE0898-SRM1)					Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.01		98.7	90-110		
Reference (BDE0898-SRM2)					Prepared & Analyzed: 5/24/2022					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.01		98.3	90-110		
Reference (BDE0898-SRM3)					Prepared & Analyzed: 5/25/2022					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.01		98.2	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
24662 Rd 9
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE0983										
Blank (BDE0983-BLK1)					Prepared: 5/25/2022 Analyzed: 5/27/2022					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
Duplicate (BDE0983-DUP1)			**Source: 22E1903-01**		Prepared: 5/25/2022 Analyzed: 5/27/2022					
Total Filterable Solids (TDS)	2750		10.0	mg/L		2850			3.57	5
Duplicate (BDE0983-DUP2)			**Source: 22E2129-01**		Prepared: 5/25/2022 Analyzed: 5/27/2022					
Total Filterable Solids (TDS)	165		10.0	mg/L		170			2.99	5
Reference (BDE0983-SRM1)					Prepared: 5/25/2022 Analyzed: 5/27/2022					
Total Filterable Solids (TDS)	317			mg/L	325.0		97.4	90-110		

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Account Manager: Ben Nydam
Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE1125										
Blank (BDE1125-BLK1)					Prepared & Analyzed: 5/27/2022					
pH	4.9		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BDE1125-BLK2)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BDE1125-BLK3)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BDE1125-DUP1)		**Source: 22E0159-03**			Prepared & Analyzed: 5/27/2022					
pH	7.5		1.0	units		7.5			0.133	10
Electrical Conductivity	0.77		0.01	mmhos/cm		0.77			0.233	10
Electrical Conductivity umhos	773		10.0	umhos/cm		771			0.233	10
Duplicate (BDE1125-DUP2)		**Source: 22E2264-01**			Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	0.86		0.01	mmhos/cm		0.87			0.197	10
pH	7.8		1.0	units		7.8			0.385	10
Electrical Conductivity umhos	864		10.0	umhos/cm		866			0.197	10
Reference (BDE1125-SRM1)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	519			umhos/cm	538.0		96.5	90-110		
Reference (BDE1125-SRM2)					Prepared & Analyzed: 5/27/2022					
pH	8.0			units	7.900		101	73418-101.26		
Reference (BDE1125-SRM3)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	951			umhos/cm	1000		95.1	90-110		
Electrical Conductivity umhos	951			umhos/cm	1000		95.1	90-110		
Reference (BDE1125-SRM4)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	986			umhos/cm	1000		98.6	90-110		
Electrical Conductivity umhos	986			umhos/cm	1000		98.6	90-110		
Reference (BDE1125-SRM5)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity	989			umhos/cm	1000		98.9	90-110		

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Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE1125 (Continued)										
Reference (BDE1125-SRM5)					Prepared & Analyzed: 5/27/2022					
Electrical Conductivity umhos	989			umhos/cm	1000		98.9	90-110		
Reference (BDE1125-SRM6)					Prepared & Analyzed: 5/27/2022					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BDE1125-SRM7)					Prepared & Analyzed: 5/27/2022					
pH	4.1			units	4.000		102	97.5-102.5		
Reference (BDE1125-SRM8)					Prepared & Analyzed: 5/27/2022					
pH	4.1			units	4.000		102	97.5-102.5		

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Chowchilla, CA 93610

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Submitted By:

Received: 05/24/2022 12:00
Reported: 06/01/2022 12:14

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDE1144										
Blank (BDE1144-BLK1)					Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BDE1144-BLK2)					Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BDE1144-BS1)					Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	5.66		1.00	mg/L	5.709		99.2	90-110		
LCS (BDE1144-BS2)					Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	6.04		1.00	mg/L	5.709		106	90-110		
Duplicate (BDE1144-DUP1)		**Source: 22E2141-01**			Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BDE1144-DUP2)		**Source: 22E2422-01**			Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	153		7.00	mg/L		139			9.17	10
Matrix Spike (BDE1144-MS1)		**Source: 22E2141-01**			Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	8.58		1.40	mg/L	7.992	ND	107	90-110		
Matrix Spike (BDE1144-MS2)		**Source: 22E2422-01**			Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	160		7.00	mg/L	19.98	139	101	90-110		
Reference (BDE1144-SRM1)					Prepared: 5/27/2022	Analyzed: 5/31/2022				
Kjeldahl Nitrogen (TKN), Total	11.2			mg/L	10.30		108	90-110		

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WATER WORK REQUEST
22E2129

DELLAVALLE LABORATORY, INC.
1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

Purchase Order No

Bill To: 22217 Acct # | 8 Cons #

No. Samples: 1 No of Bottles: 2

Results Need By

Water Type: [ ] Drinking Water [ ] Wastewater
[X] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email:
COPY TO: dejagerfarms@gmail.com
triordan@fragservices.com; dustino_56@hotmail.com
REQUESTED BY:
PROJECT:
CROP:

[X] Copy of Chain [X] QA/QC Documents
Sampled By:

Other:

Analysis and Bottles Required: (*Please indicate Analysis*)

( ) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
(X) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample
( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	Broadway Canal	5/23/22		23.5	
2					
3					
4					
5	05/24/22 12:00 22E2129				
6					
7					
8					
9					
10					

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second	[signature]	DL	5/24/22 12:00	
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST) Water.xls]Dairy Water

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05/24/22 12:00 22E2129

Shipping Information: Shipped In ☒ Picked-Up ☐ Walk In ☐ DLI Sampler ☐ Other ☐ _____

Container: Ice Chest ☐ Box ☒ None ☐ **Refrigerant:** Wet Ice ☐ Blue Ice ☐ None ☒

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

Type of Container(s) Received		Sample Number 1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value	<2									
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1									
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*											
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

DLI SEND OUT

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DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23F2084-01	CWD-Justin Canal	Canal Water	DJF		06/22/2023 0:00

Default Cooler Temperature on Receipt °C: 2.3
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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LABORATORY INC

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Ranch: TD

Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Sample Results

Sample: CWD-Justin Canal
23F2084-01 (Water)

Sampled: 6/22/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.06**	mmhos/cm	0.01	1		06/29/23 10:27	SM 2510 B		BEF0979
Electrical Conductivity umhos	**59.1**	umhos/cm	10.0	1		06/29/23 10:27	SM 2510 B		BEF0979
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	06/23/23 14:34	EPA 300.0		BEF1004
pH	**7.1**	units	1.0	1		06/29/23 10:27	SM 4500-H+	H	BEF0979
Total Filterable Solids (TDS)	**47.1**	mg/L	10.0	1		06/27/23 12:33	SM 2540 C		BEF0947
Temperature	**25.0**	°C	0.0	1		06/29/23 10:27	SM 2510 B		BEF0979

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Submitted By: FR
Ranch: TD

Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0947										
Blank (BEF0947-BLK1)					Prepared: 6/22/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEF0947-BS1)					Prepared: 6/22/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	21.2		10.0	mg/L	2000		1.06	0-200		
Duplicate (BEF0947-DUP1)			**Source: 23F2004-02**		Prepared: 6/22/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	4450		10.0	mg/L		4200			5.78	5
Duplicate (BEF0947-DUP2)			**Source: 23F2034-01**		Prepared: 6/22/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	3330		10.0	mg/L		3300			1.01	5
Reference (BEF0947-SRM1)					Prepared: 6/22/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	317			mg/L	325.0		97.4	90-110		

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Submitted By: FR
Ranch: TD

Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0979										
Blank (BEF0979-BLK1)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.5		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEF0979-BLK2)					Prepared & Analyzed: 6/29/2023					
pH	5.9		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEF0979-BLK3)					Prepared & Analyzed: 6/29/2023					
pH	5.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEF0979-DUP1)		**Source: 23F2032-01**			Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	1.37		0.01	mmhos/cm		1.37			0.0145	10
pH	7.6		1.0	units		7.6			0.131	10
Electrical Conductivity umhos	1370		10.0	umhos/cm		1370			0.0146	10
Duplicate (BEF0979-DUP2)		**Source: 23F2084-01**			Prepared & Analyzed: 6/29/2023					
pH	6.9		1.0	units		7.1			2.29	10
Electrical Conductivity	0.06		0.01	mmhos/cm		0.06			3.27	10
Electrical Conductivity umhos	57.2		10.0	umhos/cm		59.1			3.27	10
Reference (BEF0979-SRM1)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	575			umhos/cm	538.0		107	90-110		
Reference (BEF0979-SRM2)					Prepared & Analyzed: 6/29/2023					
pH	7.8			units	7.790		100	.7163-101.28		
Reference (BEF0979-SRM3)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEF0979-SRM4)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEF0979-SRM5)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0979 (Continued)										
Reference (BEF0979-SRM5)					Prepared & Analyzed: 6/29/2023					
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEF0979-SRM6)					Prepared & Analyzed: 6/29/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEF0979-SRM7)					Prepared & Analyzed: 6/29/2023					
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEF0979-SRM8)					Prepared & Analyzed: 6/29/2023					
pH	4.0			units	4.000		100	97.5-102.5		

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Received: 06/22/2023 14:43
Reported: 06/29/2023 14:08

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF1004										
Blank (BEF1004-BLK1)					Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEF1004-BLK2)					Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEF1004-BLK3)					Prepared & Analyzed: 6/24/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEF1004-BS1)					Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		104	90-110		
LCS (BEF1004-BS2)					Prepared & Analyzed: 6/24/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		105	90-110		
Duplicate (BEF1004-DUP1)		**Source: 23F2111-01**			Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	2.1		0.1	mg/L		2.1			0.809	10
Duplicate (BEF1004-DUP2)		**Source: 23F2114-11**			Prepared & Analyzed: 6/24/2023					
Nitrate Nitrogen as NO3N	18.8		0.1	mg/L		18.9			0.738	10
Matrix Spike (BEF1004-MS1)		**Source: 23F2111-01**			Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	7.4		0.1	mg/L	5.000	2.1	106	90-110		
Matrix Spike (BEF1004-MS2)		**Source: 23F2114-11**			Prepared & Analyzed: 6/24/2023					
Nitrate Nitrogen as NO3N	24.2		0.1	mg/L	5.000	18.9	105	90-110		
Reference (BEF1004-SRM1)					Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEF1004-SRM2)					Prepared & Analyzed: 6/23/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEF1004-SRM3)					Prepared & Analyzed: 6/24/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		

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06/22/23 14:43 23F2084

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

(EDJ) No. Samples: 2 Material: Water

Purchase Order No	Bill To:	22217 Acct #	09 / 08 Cons #

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 6/22 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1

DESCRIPTION OF SAMPLE

1 CWD - Justin Canal
2
3
4
5 Temp 2, 3
6
7
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10
11
12
13
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IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 6/30/2023
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth	EDJ	DCF 14:43	6-22-23 14:43	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information: ***Shipping***
Sampling hrs $ In
Miles $ Out
Consulting

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST).xls]Soil & Tissue

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06/22/23 14:43 23F2084

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1									
Plastics	* pH Value	<2									
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1									
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SEND OUT

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DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 06/20/2023 16:13
Reported: 06/28/2023 14:31

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23F2401-01	CWD-Chowchilla Canal	Canal Water	DJF		06/20/2023 0:00

Default Cooler Temperature on Receipt °C: 1.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

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Ranch: TD

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Reported: 06/28/2023 14:31

Sample Results

Sample: CWD-Chowchilla Canal
23F2401-01 (Water)

Sampled: 6/20/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.10**	mmhos/cm	0.01	1		06/27/23 10:43	SM 2510 B		BEF0818
Electrical Conductivity umhos	**95.8**	umhos/cm	10.0	1		06/27/23 10:43	SM 2510 B		BEF0818
Nitrate Nitrogen as NO3N	**0.2**	mg/L	0.1	1	10	06/21/23 15:04	EPA 300.0		BEF0865
pH	**7.3**	units	1.0	1		06/27/23 10:43	SM 4500-H+	H	BEF0818
Total Filterable Solids (TDS)	**60.0**	mg/L	10.0	1		06/27/23 09:37	SM 2540 C		BEF0874
Temperature	**25.0**	°C	0.0	1		06/27/23 10:43	SM 2510 B		BEF0818

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0818										
Blank (BEF0818-BLK1)					Prepared & Analyzed: 6/27/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEF0818-BLK2)					Prepared & Analyzed: 6/27/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.9		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEF0818-BLK3)					Prepared & Analyzed: 6/27/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEF0818-DUP1)		**Source: 23F1839-01**			Prepared: 6/20/2023 Analyzed: 6/27/2023					
Electrical Conductivity	5.84		0.01	mmhos/cm		6.15			5.12	10
pH	7.7		1.0	units		7.7			0.130	10
Electrical Conductivity umhos	5840		10.0	umhos/cm		6150			5.12	10
Duplicate (BEF0818-DUP2)		**Source: 23F2009-01**			Prepared: 6/20/2023 Analyzed: 6/27/2023					
pH	6.9		1.0	units		6.9			0.144	10
Electrical Conductivity	4.15		0.01	mmhos/cm		4.21			1.44	10
Electrical Conductivity umhos	4150		10.0	umhos/cm		4210			1.44	10
Reference (BEF0818-SRM1)					Prepared: 6/20/2023 Analyzed: 6/27/2023					
Electrical Conductivity	567			umhos/cm	538.0		105	90-110		
Reference (BEF0818-SRM2)					Prepared: 6/20/2023 Analyzed: 6/27/2023					
pH	7.9			units	7.790		101	.7163-101.28		
Reference (BEF0818-SRM3)					Prepared: 6/20/2023 Analyzed: 6/27/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEF0818-SRM4)					Prepared: 6/20/2023 Analyzed: 6/27/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEF0818-SRM5)					Prepared: 6/20/2023 Analyzed: 6/27/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0818 (Continued)										
Reference (BEF0818-SRM5)					Prepared: 6/20/2023	Analyzed: 6/27/2023				
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEF0818-SRM6)					Prepared: 6/20/2023	Analyzed: 6/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEF0818-SRM7)					Prepared: 6/20/2023	Analyzed: 6/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEF0818-SRM8)					Prepared: 6/20/2023	Analyzed: 6/27/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0865										
Blank (BEF0865-BLK1)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEF0865-BLK2)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEF0865-BLK3)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEF0865-BS1)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEF0865-BS2)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	5.3		0.1	mg/L	5.000		105	90-110		
Duplicate (BEF0865-DUP1)		**Source: 23F1915-03**			Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	5.9		0.1	mg/L		5.8			0.701	10
Duplicate (BEF0865-DUP2)		**Source: 23F1915-02**			Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	2.3		0.1	mg/L		2.3			0.0886	10
Matrix Spike (BEF0865-MS1)		**Source: 23F1915-03**			Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	11.1		0.1	mg/L	5.000	5.8	105	90-110		
Matrix Spike (BEF0865-MS2)		**Source: 23F1915-02**			Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	7.6		0.1	mg/L	5.000	2.3	106	90-110		
Reference (BEF0865-SRM1)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEF0865-SRM2)					Prepared & Analyzed: 6/21/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEF0865-SRM3)					Prepared & Analyzed: 6/22/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		

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Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 06/20/2023 16:13
Reported: 06/28/2023 14:31

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEF0874										
Blank (BEF0874-BLK1)					Prepared: 6/21/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
Blank (BEF0874-BLK2)					Prepared: 6/21/2023	Analyzed: 6/28/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEF0874-BS1)					Prepared: 6/21/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	10.0		10.0	mg/L	2000		0.500	0-200		
Duplicate (BEF0874-DUP1)		**Source: 23F1831-01**			Prepared: 6/21/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	4320		10.0	mg/L		4220			2.34	5
Duplicate (BEF0874-DUP2)		**Source: 23F1902-01**			Prepared: 6/21/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	61.7		10.0	mg/L		60.0			2.74	5
Reference (BEF0874-SRM1)					Prepared: 6/21/2023	Analyzed: 6/27/2023				
Total Filterable Solids (TDS)	300			mg/L	325.0		92.3	90-110		

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~~Soil & Tissue~~ Work Request
Water

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

No. Samples: Material: Water

Purchase Order No | Bill To: | Acct # 22217 | Cons # 09/08

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com

REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous

Date Sampled: **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1

DESCRIPTION OF SAMPLE

1 CWD- Chowchilla Canal
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06/20/23 16:13 23F2401

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				
Second				
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

DocuSign Envelope ID: D27F90BE-389E-4B46-B14D-C5C03E181CBB

06/20/23 16:13 23F2401

06/20/23 16:13 23F2400

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☒ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☐ Blue Ice ☒ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1									
Plastics	* pH Value	<2									
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1									
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

06/20/23 16:13 23F1902

06/20/23 16:13 23F2399

06/20/23 16:13 23F2402

SEND OUT

DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H2455-01	DW - 10	Canal Water	DJF		08/31/2023 0:00
23H2455-02	DW - 166	Canal Water	DJF		08/31/2023 0:00

Default Cooler Temperature on Receipt °C: -3.4

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Sample Results

Sample: DW - 10
23H2455-01 (Water)

Sampled: 8/31/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.24**	mmhos/cm	0.01	1		09/01/23 10:37	SM 2510 B		BEI0003
Electrical Conductivity umhos	**242**	umhos/cm	10.0	1		09/01/23 10:37	SM 2510 B		BEI0003
Nitrate Nitrogen as NO3N	**1.1**	mg/L	0.1	1	10	08/31/23 20:32	EPA 300.0		BEH1478
pH	**7.8**	units	1.0	1		09/01/23 10:37	SM 4500-H+	H	BEI0003
Total Filterable Solids (TDS)	**215**	mg/L	10.0	1		09/05/23 15:09	SM 2540 C		BEI0008
Temperature	**25.0**	°C	0.0	1		09/01/23 10:37	SM 2510 B		BEI0003
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/05/23 14:13	SM 4500-NH3 C		BEH1472
Total Nitrogen	**1.14**	mg/L	1.00	1		09/05/23 14:13	SM 4500-NH3 C		BEH1472

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Account# 00-0022217
Account Manager: Ben Nydam
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Sample Results
(Continued)

Sample: DW - 166
23H2455-02 (Water)

Sampled: 8/31/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.00**	mmhos/cm	0.01	1		09/01/23 10:38	SM 2510 B		BEI0003
Electrical Conductivity umhos	**1000**	umhos/cm	10.0	1		09/01/23 10:38	SM 2510 B		BEI0003
Nitrate Nitrogen as NO3N	**16.8**	mg/L	0.1	1	10	08/31/23 20:52	EPA 300.0		BEH1478
pH	**7.9**	units	1.0	1		09/01/23 10:38	SM 4500-H+	H	BEI0003
Total Filterable Solids (TDS)	**700**	mg/L	10.0	1		09/05/23 15:09	SM 2540 C		BEI0008
Temperature	**25.0**	°C	0.0	1		09/01/23 10:38	SM 2510 B		BEI0003
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/05/23 14:14	SM 4500-NH3 C		BEH1472
Total Nitrogen	**17.1**	mg/L	1.00	1		09/05/23 14:14	SM 4500-NH3 C		BEH1472

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Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1472										
Blank (BEH1472-BLK1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEH1472-BLK2)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEH1472-BS1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	5.88		1.00	mg/L	5.709		103	90-110		
LCS (BEH1472-BS2)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	5.79		1.00	mg/L	5.709		101	90-110		
Duplicate (BEH1472-DUP1)		**Source: 23H2409-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEH1472-DUP2)		**Source: 23H2455-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEH1472-MS1)		**Source: 23H2409-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	8.70		1.40	mg/L	7.992	ND	109	90-110		
Matrix Spike (BEH1472-MS2)		**Source: 23H2455-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	8.10		1.40	mg/L	7.992	ND	101	90-110		
Reference (BEH1472-SRM1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Kjeldahl Nitrogen (TKN), Total	23.7			mg/L	23.80		99.7	90-110		

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DELLAVALLE™ LABORATORY INC

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PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
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Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH1478										
Blank (BEH1478-BLK1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEH1478-BLK2)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEH1478-BS1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.0	90-110		
Duplicate (BEH1478-DUP1)		**Source: 23H2409-01**			Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	0.9		0.1	mg/L		0.9			0.569	10
Matrix Spike (BEH1478-MS1)		**Source: 23H2409-01**			Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	5.9		0.1	mg/L	5.000	0.9	101	90-110		
Reference (BEH1478-SRM1)					Prepared & Analyzed: 8/31/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.7	90-110		
Reference (BEH1478-SRM2)					Prepared: 8/31/2023 Analyzed: 9/1/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		99.5	90-110		

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Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0003										
Blank (BEI0003-BLK1)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	5.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0003-BLK2)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Blank (BEI0003-BLK3)					Prepared & Analyzed: 9/1/2023					
pH	6.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEI0003-DUP1)		**Source: 23H2455-02**			Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	0.99		0.01	mmhos/cm		1.00			1.80	10
pH	7.9		1.0	units		7.9			0.380	10
Electrical Conductivity umhos	987		10.0	umhos/cm		1000			1.80	10
Duplicate (BEI0003-DUP2)		**Source: 23I0212-01**			Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1.04		0.01	mmhos/cm		1.05			0.306	10
pH	8.8		1.0	units		8.8			0.00	10
Electrical Conductivity umhos	1040		10.0	umhos/cm		1050			0.306	10
Reference (BEI0003-SRM1)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	532			umhos/cm	538.0		99.0	90-110		
Reference (BEI0003-SRM2)					Prepared & Analyzed: 9/1/2023					
pH	5.8			units	5.820		101	28178-101.71		
Reference (BEI0003-SRM3)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1000			umhos/cm	1000		100	90-110		
Electrical Conductivity umhos	1000			umhos/cm	1000		100	90-110		
Reference (BEI0003-SRM4)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEI0003-SRM5)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0003 (Continued)										
Reference (BEI0003-SRM5)					Prepared & Analyzed: 9/1/2023					
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEI0003-SRM6)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0003-SRM7)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0003-SRM8)					Prepared & Analyzed: 9/1/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Ranch: TD

Received: 08/31/2023 15:45
Reported: 09/06/2023 10:40

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0008										
Blank (BEI0008-BLK1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0008-BS1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	37.5		10.0	mg/L	2000		1.88	0-200		
Duplicate (BEI0008-DUP1)		**Source: 23H2416-01**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	3600		10.0	mg/L		3720			3.19	10
Duplicate (BEI0008-DUP2)		**Source: 23H2455-02**			Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	710		10.0	mg/L		700			1.42	10
Reference (BEI0008-SRM1)					Prepared: 9/1/2023	Analyzed: 9/5/2023				
Total Filterable Solids (TDS)	320			mg/L	325.0		98.5	90-110		

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08/31/23 15:45 23H2455

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

No. Samples: 2 Material: Water

Purchase Order No | Bill To: | Acct # 22217 | Cons # 09/08

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 8/31 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

DESCRIPTION OF SAMPLE

1 DW - 10 -3,4
2 DW - 166 -2,5
3
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10
11
12
13
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IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	8-31-23 12:20	8-31-23 3:42
Second				
Third				
Fourth		DCI	8/31 15:45	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

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08/31/23 15:45 23H2455

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1	1								
Plastics	* pH Value	<2	<2								
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1								
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot: 10BDH4501 Exp: Jan 2025

SEND OUT

DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 09/14/2023 14:40
Reported: 09/22/2023 10:28

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23I1001-01	DW - 8A	Canal Water	DJF		09/14/2023 0:00
23I1001-02	DW - 120	Canal Water	DJF		09/14/2023 0:00
23I1001-03	DW - 174	Canal Water	DJF		09/14/2023 0:00

Default Cooler Temperature on Receipt °C: 4.7
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: DW - 8A
23I1001-01 (Water)

Sampled: 9/14/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.61**	mmhos/cm	0.01	1		09/15/23 10:57	SM 2510 B		BEI0541
Electrical Conductivity umhos	**612**	umhos/cm	10.0	1		09/15/23 10:57	SM 2510 B		BEI0541
Nitrate Nitrogen as NO3N	**11.1**	mg/L	0.1	1	10	09/15/23 21:37	EPA 300.0		BEI0474
pH	**7.4**	units	1.0	1		09/15/23 10:57	SM 4500-H+	H	BEI0541
Total Filterable Solids (TDS)	**360**	mg/L	10.0	1		09/20/23 14:39	SM 2540 C		BEI0578
Temperature	**25.0**	°C	0.0	1		09/15/23 10:57	SM 2510 B		BEI0541
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/18/23 13:02	SM 4500-NH3 C		BEI0544
Total Nitrogen	**11.1**	mg/L	1.00	1		09/18/23 13:02	SM 4500-NH3 C		BEI0544

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Sample Results
(Continued)

Sample: DW - 120
23I1001-02 (Water)

Sampled: 9/14/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.03**	mmhos/cm	0.01	1		09/15/23 10:58	SM 2510 B		BEI0541
Electrical Conductivity umhos	**26.4**	umhos/cm	10.0	1		09/15/23 10:58	SM 2510 B		BEI0541
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	09/15/23 21:58	EPA 300.0		BEI0474
pH	**7.5**	units	1.0	1		09/15/23 10:58	SM 4500-H+	H	BEI0541
Total Filterable Solids (TDS)	**29.0**	mg/L	10.0	1		09/20/23 14:39	SM 2540 C		BEI0578
Temperature	**25.0**	°C	0.0	1		09/15/23 10:58	SM 2510 B		BEI0541
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		09/18/23 13:04	SM 4500-NH3 C		BEI0544
Total Nitrogen	ND	mg/L	1.00	1		09/18/23 13:04	SM 4500-NH3 C		BEI0544

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Sample Results
(Continued)

Sample: DW - 174
23I1001-03 (Water)

Sampled: 9/14/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.54**	mmhos/cm	0.01	1		09/15/23 11:00	SM 2510 B		BEI0541
Electrical Conductivity umhos	**536**	umhos/cm	10.0	1		09/15/23 11:00	SM 2510 B		BEI0541
Nitrate Nitrogen as NO3N	**5.3**	mg/L	0.1	1	10	09/15/23 22:18	EPA 300.0		BEI0474
pH	**7.4**	units	1.0	1		09/15/23 11:00	SM 4500-H+	H	BEI0541
Total Filterable Solids (TDS)	**317**	mg/L	10.0	1		09/20/23 14:39	SM 2540 C		BEI0578
Temperature	**25.0**	°C	0.0	1		09/15/23 11:00	SM 2510 B		BEI0541
Kjeldahl Nitrogen (TKN), Total	**13.9**	mg/L	1.00	1		09/18/23 13:05	SM 4500-NH3 C		BEI0544
Total Nitrogen	**19.2**	mg/L	1.00	1		09/18/23 13:05	SM 4500-NH3 C		BEI0544

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0474										
Blank (BEI0474-BLK1)					Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0474-BLK2)					Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEI0474-BLK3)					Prepared & Analyzed: 9/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEI0474-BS1)					Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000		97.4	90-110		
LCS (BEI0474-BS2)					Prepared & Analyzed: 9/16/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
Duplicate (BEI0474-DUP1)		**Source: 23I0188-01**			Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L		5.4			2.37	10
Duplicate (BEI0474-DUP2)		**Source: 23I1007-02**			Prepared & Analyzed: 9/16/2023					
Nitrate Nitrogen as NO3N	0.3		0.1	mg/L		0.3			2.96	10
Matrix Spike (BEI0474-MS1)		**Source: 23I0188-01**			Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L	5.000	5.4	2.66	90-110		
Matrix Spike (BEI0474-MS2)		**Source: 23I1007-02**			Prepared & Analyzed: 9/16/2023					
Nitrate Nitrogen as NO3N	5.5		0.1	mg/L	5.000	0.3	104	90-110		
Reference (BEI0474-SRM1)					Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	10.0			mg/L	10.00		100	90-110		
Reference (BEI0474-SRM2)					Prepared & Analyzed: 9/15/2023					
Nitrate Nitrogen as NO3N	10.1			mg/L	10.00		101	90-110		
Reference (BEI0474-SRM3)					Prepared & Analyzed: 9/16/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0541										
Blank (BEI0541-BLK1)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	4.8		1.0	units						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEI0541-BLK2)					Prepared & Analyzed: 9/15/2023					
pH	6.6		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	°C						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEI0541-BLK3)					Prepared & Analyzed: 9/15/2023					
pH	6.9		1.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Temperature	25.0		0.0	°C						
Duplicate (BEI0541-DUP1)		**Source: 23I0937-01**			Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	3.03		0.01	mmhos/cm		3.06			0.838	10
pH	7.7		1.0	units		7.7			0.00	10
Electrical Conductivity umhos	3030		10.0	umhos/cm		3060			0.838	10
Duplicate (BEI0541-DUP2)		**Source: 23I1001-03**			Prepared & Analyzed: 9/15/2023					
pH	7.4		1.0	units		7.4			0.810	10
Electrical Conductivity	0.54		0.01	mmhos/cm		0.54			0.0374	10
Electrical Conductivity umhos	535		10.0	umhos/cm		536			0.0374	10
Reference (BEI0541-SRM1)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	524			umhos/cm	538.0		97.5	90-110		
Reference (BEI0541-SRM2)					Prepared & Analyzed: 9/15/2023					
pH	5.9			units	5.820		101	28178-101.71		
Reference (BEI0541-SRM3)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	978			umhos/cm	1000		97.8	90-110		
Electrical Conductivity umhos	978			umhos/cm	1000		97.8	90-110		
Reference (BEI0541-SRM4)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	969			umhos/cm	1000		96.9	90-110		
Electrical Conductivity umhos	969			umhos/cm	1000		96.9	90-110		
Reference (BEI0541-SRM5)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity	973			umhos/cm	1000		97.3	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0541 (Continued)										
Reference (BEI0541-SRM5)					Prepared & Analyzed: 9/15/2023					
Electrical Conductivity umhos	973			umhos/cm	1000		97.3	90-110		
Reference (BEI0541-SRM6)					Prepared & Analyzed: 9/15/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0541-SRM7)					Prepared & Analyzed: 9/15/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEI0541-SRM8)					Prepared & Analyzed: 9/15/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0544										
Blank (BEI0544-BLK1)					Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEI0544-BLK2)					Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEI0544-BS1)					Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	5.47		1.00	mg/L	5.709		95.8	90-110		
LCS (BEI0544-BS2)					Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	6.07		1.00	mg/L	5.709		106	90-110		
Duplicate (BEI0544-DUP1)		**Source: 23I0933-01**			Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	54.3		3.50	mg/L		55.3			1.87	10
Duplicate (BEI0544-DUP2)		**Source: 23I1001-02**			Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEI0544-MS1)		**Source: 23I0933-01**			Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	71.0		3.50	mg/L	9.990	55.3	157	90-110		
Matrix Spike (BEI0544-MS2)		**Source: 23I1001-02**			Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	7.60		1.40	mg/L	7.992	ND	95.1	90-110		
Reference (BEI0544-SRM1)					Prepared: 9/15/2023	Analyzed: 9/18/2023				
Kjeldahl Nitrogen (TKN), Total	20.6			mg/L	23.80		86.6	90-110		

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Ranch: TD

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEI0578										
Blank (BEI0578-BLK1)					Prepared: 9/18/2023	Analyzed: 9/20/2023				
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEI0578-BS1)					Prepared: 9/18/2023	Analyzed: 9/20/2023				
Total Filterable Solids (TDS)	23.8		10.0	mg/L	2000		1.19	0-200		
Duplicate (BEI0578-DUP1)			**Source: 23I1001-01**		Prepared: 9/18/2023	Analyzed: 9/20/2023				
Total Filterable Solids (TDS)	390		10.0	mg/L		360			8.00	10
Duplicate (BEI0578-DUP2)			**Source: 23I1066-01**		Prepared: 9/18/2023	Analyzed: 9/20/2023				
Total Filterable Solids (TDS)	760		10.0	mg/L		770			1.31	10
Reference (BEI0578-SRM1)					Prepared: 9/18/2023	Analyzed: 9/20/2023				
Total Filterable Solids (TDS)	317			mg/L	325.0		97.4	90-110		

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09/14/23 14:40 23I1001

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

No. Samples: 3 Material: Water 6

Purchase Order No | Bill To: Acct # 22217 | Cont # 09 08 9/22/23

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 9/14 **Sampled By:** DJF

DESCRIPTION OF SAMPLE

1	DW - 8A	4.7°C
2	DW - 120	3.9°C
3	DW - 174	7.3°C
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 9/26/2023
Location: Laboratory

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
( ) Other: x DCWI + JN

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	[signature]	DCI	9/14 13:38	9/14 14:32
Second				
Third				
Fourth	[signature]	DCI	9/14 14:32	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information: ***Shipping***
Sampling hrs $ In
Miles $ Out
Consulting

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST).xls]Soil & Tissue

DocuSign Envelope ID: D27F90BE-389E-4B46-B14D-C5C03E181CBB

09/14/23 14:40 23I1001

Shipping Information: Shipped In ☐ Picked-Up ☐ Walk In ☐ DLI Sampler ☑ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☑ Box ☐ None ☐ **Refrigerant:** Wet Ice ☑ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic	1	1	1							
Plastics	* pH Value	<2	<2	<2							
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic	1	1	1							
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot: 10BDH4501 Exp: Jan 202

SEND OUT

DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 11/28/2023 13:50
Reported: 12/05/2023 08:57

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K1254-01	DW - 18	Canal Water	DJF		11/28/2023 10:00
23K1254-02	DW - 163	Canal Water	DJF		11/28/2023 10:00

Default Cooler Temperature on Receipt °C: -0.2

Containers Intact
COC/Labels Agree
Preservation Confirmed
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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DELLAVALLE™ LABORATORY INC

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Chowchilla, CA 93610

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Reported: 12/05/2023 08:57

Sample Results

Sample: DW - 18
23K1254-01 (Water)

Sampled: 11/28/2023 10:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.55**	mmhos/cm	0.01	1		11/30/23 15:36	SM 2510 B		BEK0875
Electrical Conductivity umhos	**1550**	umhos/cm	10.0	1		11/30/23 15:36	SM 2510 B		BEK0875
Nitrate Nitrogen as NO3N	**49.4**	mg/L	0.1	1	10	11/29/23 04:16	EPA 300.0		BEK0762
Temperature	**25.0**	units	0.0	1		11/30/23 15:36	SM 4500-H+	H	BEK0875
pH	**7.5**	units	1.0	1		11/30/23 15:36	SM 4500-H+	H	BEK0875
Total Filterable Solids (TDS)	**1070**	mg/L	10.0	1		11/30/23 14:48	SM 2540 C		BEK0794
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		11/30/23 09:40	SM 4500-NH3 C		BEK0790
Total Nitrogen	**49.4**	mg/L	1.00	1		11/30/23 09:40	SM 4500-NH3 C		BEK0790

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Sample Results
(Continued)

Sample: DW - 163
23K1254-02 (Water)

Sampled: 11/28/2023 10:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.94**	mmhos/cm	0.01	1		11/30/23 15:38	SM 2510 B		BEK0875
Electrical Conductivity umhos	**941**	umhos/cm	10.0	1		11/30/23 15:38	SM 2510 B		BEK0875
Nitrate Nitrogen as NO3N	**2.3**	mg/L	0.1	1	10	11/29/23 04:35	EPA 300.0		BEK0762
Temperature	**25.0**	units	0.0	1		11/30/23 15:38	SM 4500-H+	H	BEK0875
pH	**7.8**	units	1.0	1		11/30/23 15:38	SM 4500-H+	H	BEK0875
Total Filterable Solids (TDS)	**610**	mg/L	10.0	1		11/30/23 14:48	SM 2540 C		BEK0794
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		11/30/23 09:41	SM 4500-NH3 C		BEK0790
Total Nitrogen	**2.83**	mg/L	1.00	1		11/30/23 09:41	SM 4500-NH3 C		BEK0790

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Submitted By: FR
Ranch: TD

Received: 11/28/2023 13:50
Reported: 12/05/2023 08:57

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0762										
Blank (BEK0762-BLK1)					Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0762-BLK2)					Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0762-BLK3)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0762-BLK4)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEK0762-BS1)					Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.1	90-110		
LCS (BEK0762-BS2)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEK0762-BS3)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		99.2	90-110		
Duplicate (BEK0762-DUP1)		**Source: 23K1184-03**			Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	0.1		0.1	mg/L		0.1			3.57	10
Duplicate (BEK0762-DUP2)		**Source: 23K1193-01**			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	2.6		0.1	mg/L		2.5			0.826	10
Duplicate (BEK0762-DUP3)		**Source: 23K1267-01**			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	3.3		0.1	mg/L		3.3			0.0600	10
Matrix Spike (BEK0762-MS1)		**Source: 23K1184-03**			Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.1	96.4	90-110		
Matrix Spike (BEK0762-MS2)		**Source: 23K1193-01**			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	7.5		0.1	mg/L	5.000	2.5	100	90-110		
Matrix Spike (BEK0762-MS3)		**Source: 23K1267-01**			Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	8.3		0.1	mg/L	5.000	3.3	99.9	90-110		
Reference (BEK0762-SRM1)					Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	9.7			mg/L	10.00		97.1	90-110		
Reference (BEK0762-SRM2)					Prepared & Analyzed: 11/28/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		97.5	90-110		

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Ranch: TD

Received: 11/28/2023 13:50
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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0762 (Continued)										
Reference (BEK0762-SRM3)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		98.2	90-110		
Reference (BEK0762-SRM4)					Prepared: 11/28/2023 Analyzed: 11/29/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		97.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0790										
Blank (BEK0790-BLK1)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEK0790-BLK2)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEK0790-BLK3)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEK0790-BS1)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	6.23		1.00	mg/L	5.709		109	90-110		
LCS (BEK0790-BS2)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	5.84		1.00	mg/L	5.709		102	90-110		
Duplicate (BEK0790-DUP1)		**Source: 23K1180-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Duplicate (BEK0790-DUP2)		**Source: 23K1253-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEK0790-MS1)		**Source: 23K1180-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	7.68		1.40	mg/L	7.992	ND	96.1	90-110		
Matrix Spike (BEK0790-MS2)		**Source: 23K1253-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	8.03		1.40	mg/L	7.992	ND	100	90-110		
Reference (BEK0790-SRM1)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Kjeldahl Nitrogen (TKN), Total	24.9			mg/L	23.80		105	90-110		

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Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 11/28/2023 13:50
Reported: 12/05/2023 08:57

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0794										
Blank (BEK0794-BLK1)					Prepared: 11/29/2023 Analyzed: 11/30/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEK0794-BS1)					Prepared: 11/29/2023 Analyzed: 11/30/2023					
Total Filterable Solids (TDS)	43.8		10.0	mg/L	2000		2.19	0-200		
Duplicate (BEK0794-DUP1)			**Source: 23K1217-01**		Prepared: 11/29/2023 Analyzed: 11/30/2023					
Total Filterable Solids (TDS)	630		10.0	mg/L		650			3.12	10
Duplicate (BEK0794-DUP2)			**Source: 23K1234-01**		Prepared: 11/29/2023 Analyzed: 11/30/2023					
Total Filterable Solids (TDS)	8700		10.0	mg/L		9250			6.13	10
Reference (BEK0794-SRM1)					Prepared: 11/29/2023 Analyzed: 11/30/2023					
Total Filterable Solids (TDS)	323			mg/L	325.0		99.5	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0875										
Blank (BEK0875-BLK1)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.4		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEK0875-BLK2)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.9		1.0	units						
Blank (BEK0875-BLK3)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	6.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEK0875-DUP1)		**Source: 23K1231-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	12.1		0.01	mmhos/cm		12.0			0.828	10
pH	7.4		1.0	units		7.4			0.00	10
Electrical Conductivity umhos	12100		10.0	umhos/cm		12000			0.829	10
Duplicate (BEK0875-DUP2)		**Source: 23K1350-01**			Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	0.67		0.01	mmhos/cm		0.68			1.09	10
pH	6.3		1.0	units		6.3			0.159	10
Electrical Conductivity umhos	672		10.0	umhos/cm		680			1.09	10
Reference (BEK0875-SRM1)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	435			umhos/cm	426.0		102	90-110		
Reference (BEK0875-SRM2)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
pH	7.5			units	7.520		100	67021-101.32		
Reference (BEK0875-SRM3)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	1030			umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030			umhos/cm	1000		103	90-110		
Reference (BEK0875-SRM4)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEK0875-SRM5)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		

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Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 11/28/2023 13:50
Reported: 12/05/2023 08:57

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0875 (Continued)										
Reference (BEK0875-SRM5)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEK0875-SRM6)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEK0875-SRM7)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
pH	4.0			units	4.000		100	97.5-102.5		
Reference (BEK0875-SRM8)					Prepared: 11/29/2023	Analyzed: 11/30/2023				
pH	4.0			units	4.000		100	97.5-102.5		

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23K1254

11/28/23 13:50

JG

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

No. Samples: Material: Water

Purchase Order No	Bill To:	22217 Acct #	08 / 08 Cons #

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 11/28 10:00am **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

DESCRIPTION OF SAMPLE

1 DW-18 -0.2
2 DW-163 1.1
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24

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	11-28-23 12:31	11-28-23 1:20
Second				
Third				
Fourth	JG	DLI	11/28/23 13:50	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to me Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration reasonable attorneys' fees of Dellavalle Laboratory.

IR Thermometer SN: 192603727
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

Invoicing Information: ***Shipping***
Sampling hrs $ In
Miles $ Out
Consulting

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST).xls]Soil & Tissue

DocuSign Envelope ID: D27F90BE-389E-4B46-B14D-C5C03E181CBB

Paste Label Here

11/28/23 13:50 23K1254

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic	1	1								
	* pH Value	<2	<2								
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SEND OUT

DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/07/2023 15:33
Reported: 12/13/2023 11:25

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0410-01	DW-12-1	Canal Water	DJF		12/07/2023 0:00
23L0410-02	DW-8B	Canal Water	DJF		12/07/2023 0:00

Default Cooler Temperature on Receipt °C: 1.8
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: DW-12-1
23L0410-01 (Water)

Sampled: 12/7/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.30**	mmhos/cm	0.01	1		12/11/23 15:05	SM 2510 B		BEL0300
Electrical Conductivity umhos	**297**	umhos/cm	10.0	1		12/11/23 15:05	SM 2510 B		BEL0300
Nitrate Nitrogen as NO3N	**2.4**	mg/L	0.1	1	10	12/08/23 08:21	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 15:05	SM 4500-H+	H	BEL0300
pH	**7.1**	units	1.0	1		12/11/23 15:05	SM 4500-H+	H	BEL0300
Total Filterable Solids (TDS)	**222**	mg/L	10.0	1		12/11/23 00:00	SM 2540 C		BEL0276
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/11/23 10:09	SM 4500-NH3 C		BEL0275
Total Nitrogen	**2.61**	mg/L	1.00	1		12/11/23 10:09	SM 4500-NH3 C		BEL0275

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Sample Results
(Continued)

Sample: DW-8B
23L0410-02 (Water)

Sampled: 12/7/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.31**	mmhos/cm	0.01	1		12/11/23 15:07	SM 2510 B		BEL0300
Electrical Conductivity umhos	**312**	umhos/cm	10.0	1		12/11/23 15:07	SM 2510 B		BEL0300
Nitrate Nitrogen as NO3N	**2.4**	mg/L	0.1	1	10	12/08/23 08:42	EPA 300.0		BEL0243
Temperature	**25.0**	units	0.0	1		12/11/23 15:07	SM 4500-H+	H	BEL0300
pH	**7.7**	units	1.0	1		12/11/23 15:07	SM 4500-H+	H	BEL0300
Total Filterable Solids (TDS)	**218**	mg/L	10.0	1		12/11/23 00:00	SM 2540 C		BEL0276
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/11/23 10:10	SM 4500-NH3 C		BEL0275
Total Nitrogen	**2.67**	mg/L	1.00	1		12/11/23 10:10	SM 4500-NH3 C		BEL0275

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243										
Blank (BEL0243-BLK1)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK2)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK3)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0243-BLK4)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0243-BS1)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000		94.4	90-110		
LCS (BEL0243-BS2)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000		95.4	90-110		
LCS (BEL0243-BS3)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	5.6		0.1	mg/L	5.000		111	90-110		
Duplicate (BEL0243-DUP1)		**Source: 23L0405-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L		ND				10
Duplicate (BEL0243-DUP2)		**Source: 23L0412-04**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L		ND				10
Duplicate (BEL0243-DUP3)		**Source: 23L0413-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	0.04		0.1	mg/L		0.04			2.74	10
Matrix Spike (BEL0243-MS1)		**Source: 23L0405-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.7		0.1	mg/L	5.000	ND	94.1	90-110		
Matrix Spike (BEL0243-MS2)		**Source: 23L0412-04**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	ND	95.2	90-110		
Matrix Spike (BEL0243-MS3)		**Source: 23L0413-01**			Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	4.8		0.1	mg/L	5.000	0.04	96.2	90-110		
Reference (BEL0243-SRM1)					Prepared & Analyzed: 12/7/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		94.8	90-110		
Reference (BEL0243-SRM2)					Prepared: 12/7/2023 Analyzed: 12/8/2023					
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.2	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0243 (Continued)										
Reference (BEL0243-SRM3)					Prepared: 12/7/2023	Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.2	90-110		
Reference (BEL0243-SRM4)					Prepared: 12/7/2023	Analyzed: 12/8/2023				
Nitrate Nitrogen as NO3N	9.5			mg/L	10.00		95.3	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0275										
Blank (BEL0275-BLK2)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEL0275-BLK3)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEL0275-BS2)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	5.96		1.00	mg/L	5.709		104	90-110		
Duplicate (BEL0275-DUP2)		**Source: 23L0413-01**			Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	ND		1.40	mg/L		ND				10
Matrix Spike (BEL0275-MS2)		**Source: 23L0413-01**			Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	7.83		1.40	mg/L	7.992	ND	98.0	90-110		
Reference (BEL0275-SRM1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Kjeldahl Nitrogen (TKN), Total	24.3			mg/L	23.80		102	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0276										
Blank (BEL0276-BLK1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEL0276-BS1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	23.8		10.0	mg/L	2000		1.19	0-200		
Duplicate (BEL0276-DUP1)			**Source: 23L0408-02**		Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	660		10.0	mg/L		690			4.44	10
Duplicate (BEL0276-DUP2)			**Source: 23L0444-01**		Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	3680		10.0	mg/L		3500			4.88	10
Reference (BEL0276-SRM1)					Prepared: 12/8/2023 Analyzed: 12/11/2023					
Total Filterable Solids (TDS)	397			mg/L	390.0		102	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0300										
Blank (BEL0300-BLK1)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	7.4		1.0	units						
Blank (BEL0300-BLK2)					Prepared & Analyzed: 12/11/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	6.1		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0300-BLK3)					Prepared & Analyzed: 12/11/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	7.6		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEL0300-DUP1)		**Source: 23L0425-01**			Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	3.39		0.01	mmhos/cm		3.37			0.650	10
pH	5.8		1.0	units		5.8			0.514	10
Electrical Conductivity umhos	3390		10.0	umhos/cm		3370			0.650	10
Duplicate (BEL0300-DUP2)		**Source: 23L0442-01**			Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	0.49		0.01	mmhos/cm		0.48			1.55	10
Electrical Conductivity umhos	489		10.0	umhos/cm		481			1.55	10
pH	7.7		1.0	units		7.7			0.260	10
Reference (BEL0300-SRM1)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	433			umhos/cm	426.0		102	90-110		
Reference (BEL0300-SRM2)					Prepared & Analyzed: 12/11/2023					
pH	7.5			units	7.520		100	67021-101.32		
Reference (BEL0300-SRM3)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEL0300-SRM4)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1060			umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060			umhos/cm	1000		106	90-110		
Reference (BEL0300-SRM5)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity	1070			umhos/cm	1000		107	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/07/2023 15:33
Reported: 12/13/2023 11:25

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0300 (Continued)										
Reference (BEL0300-SRM5)					Prepared & Analyzed: 12/11/2023					
Electrical Conductivity umhos	1070			umhos/cm	1000		107	90-110		
Reference (BEL0300-SRM6)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		99.8	97.5-102.5		
Reference (BEL0300-SRM7)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		99.5	97.5-102.5		
Reference (BEL0300-SRM8)					Prepared & Analyzed: 12/11/2023					
pH	4.0			units	4.000		100	97.5-102.5		

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12/07/23 15:33 23L0410

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

JG

No. Samples: 2 Material: Water 4

Purchase Order No | Bill To: 22217 Acct # | 09 08 Cons # | DWS 12/13/23

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 12/7 **Sampled By:** DJF

DESCRIPTION OF SAMPLE

1 DW - 12-1 1.8
2 DW - 8B 2.9
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCW1 + TN

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	12-7-23 2:23	12-7-23 3:15
Second				
Third				
Fourth		DLI	12-7-23 15:33	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST).xls]Soil & Tissue

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12/07/23 15:33 23L0410

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value	2	2								
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic	1	1								
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SENT OUT

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DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0986-01	DW - 165	Canal Water	DJF		12/13/2023 0:00
23L0986-02	DW - 18 Re Sample	Canal Water	DJF		12/13/2023 0:00

Default Cooler Temperature on Receipt °C: -0.4
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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1910 W. McKinley Ave Suite 110 Fresno, CA 93728 559-233-6129 www.dellavallelab.com

DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Sample Results

Sample: DW - 165
23L0986-01 (Water)

Sampled: 12/13/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.32**	mmhos/cm	0.01	1		12/18/23 17:21	SM 2510 B		BEL0701
Electrical Conductivity umhos	**316**	umhos/cm	10.0	1		12/18/23 17:21	SM 2510 B		BEL0701
Nitrate Nitrogen as NO3N	**0.3**	mg/L	0.1	1	10	12/17/23 15:04	EPA 300.0		BEL0664
Temperature	**25.0**	units	0.0	1		12/18/23 17:21	SM 4500-H+	H	BEL0701
pH	**8.1**	units	1.0	1		12/18/23 17:21	SM 4500-H+	H	BEL0701
Total Filterable Solids (TDS)	**190**	mg/L	10.0	1		12/19/23 14:37	SM 2540 C		BEL0669
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/20/23 15:27	SM 4500-NH3 C		BEL0719
Total Nitrogen	ND	mg/L	1.00	1		12/20/23 15:27	SM 4500-NH3 C		BEL0719

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PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Sample Results
(Continued)

Sample: DW - 18 Re Sample
23L0986-02 (Water)

Sampled: 12/13/2023 0:00
Sampled By: DJF

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**1.15**	mmhos/cm	0.01	1		12/18/23 17:22	SM 2510 B		BEL0701
Electrical Conductivity umhos	**1150**	umhos/cm	10.0	1		12/18/23 17:22	SM 2510 B		BEL0701
Nitrate Nitrogen as NO3N	**2.5**	mg/L	0.1	1	10	12/17/23 15:24	EPA 300.0		BEL0664
Temperature	**25.0**	units	0.0	1		12/18/23 17:22	SM 4500-H+	H	BEL0701
pH	**7.7**	units	1.0	1		12/18/23 17:22	SM 4500-H+	H	BEL0701
Total Filterable Solids (TDS)	**680**	mg/L	10.0	1		12/19/23 14:37	SM 2540 C		BEL0669
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		12/20/23 15:28	SM 4500-NH3 C		BEL0719
Total Nitrogen	**3.07**	mg/L	1.00	1		12/20/23 15:28	SM 4500-NH3 C		BEL0719

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Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0664										
Blank (BEL0664-BLK1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK2)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEL0664-BLK5)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEL0664-BS1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		104	90-110		
LCS (BEL0664-BS2)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEL0664-BS3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000		102	90-110		
LCS (BEL0664-BS4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L	5.000		103	90-110		
Duplicate (BEL0664-DUP1)		**Source: 23L0865-01**			Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	3.8		0.1	mg/L		3.7			0.802	10
Duplicate (BEL0664-DUP2)		**Source: 23L0871-04**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	5.2		0.1	mg/L		5.2			0.155	10
Duplicate (BEL0664-DUP3)		**Source: 23L0984-02**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	1.0		0.1	mg/L		1.0			0.305	10
Duplicate (BEL0664-DUP4)		**Source: 23L0984-03**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	1.3		0.1	mg/L		1.3			1.68	10
Matrix Spike (BEL0664-MS1)		**Source: 23L0865-01**			Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	8.8		0.1	mg/L	5.000	3.7	101	90-110		
Matrix Spike (BEL0664-MS2)		**Source: 23L0871-04**			Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.2		0.1	mg/L	5.000	5.2	102	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0664 (Continued)										
Matrix Spike (BEL0664-MS3)			**Source: 23L0984-02**		Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	6.2		0.1	mg/L	5.000	1.0	104	90-110		
Matrix Spike (BEL0664-MS4)			**Source: 23L0984-03**		Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	6.5		0.1	mg/L	5.000	1.3	103	90-110		
Reference (BEL0664-SRM1)					Prepared & Analyzed: 12/16/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEL0664-SRM2)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.2			mg/L	10.00		102	90-110		
Reference (BEL0664-SRM3)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEL0664-SRM4)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.3			mg/L	10.00		103	90-110		
Reference (BEL0664-SRM5)					Prepared: 12/16/2023 Analyzed: 12/17/2023					
Nitrate Nitrogen as NO3N	10.4			mg/L	10.00		104	90-110		

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Submitted By: FR
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Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0669										
Blank (BEL0669-BLK1)					Prepared: 12/18/2023 Analyzed: 12/19/2023					
Total Filterable Solids (TDS)	ND		10.0	mg/L						
LCS (BEL0669-BS1)					Prepared: 12/18/2023 Analyzed: 12/19/2023					
Total Filterable Solids (TDS)	27.5		10.0	mg/L	2000		1.38	0-200		
Duplicate (BEL0669-DUP1)			**Source: 23L0963-01**		Prepared: 12/18/2023 Analyzed: 12/19/2023					
Total Filterable Solids (TDS)	510		10.0	mg/L		490			4.00	10
Duplicate (BEL0669-DUP2)			**Source: 23L0983-02**		Prepared: 12/18/2023 Analyzed: 12/19/2023					
Total Filterable Solids (TDS)	960		10.0	mg/L		900			6.45	10
Reference (BEL0669-SRM1)					Prepared: 12/18/2023 Analyzed: 12/19/2023					
Total Filterable Solids (TDS)	393			mg/L	390.0		101	90-110		

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Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0701										
Blank (BEL0701-BLK1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	5.5		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0701-BLK2)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
pH	7.7		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Blank (BEL0701-BLK3)					Prepared & Analyzed: 12/18/2023					
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
pH	8.1		1.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
Duplicate (BEL0701-DUP1)		**Source: 23L0985-02**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1.51		0.01	mmhos/cm		1.48			2.19	10
pH	7.7		1.0	units		7.7			0.130	10
Electrical Conductivity umhos	1510		10.0	umhos/cm		1480			2.19	10
Duplicate (BEL0701-DUP2)		**Source: 23L0989-03**			Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1.84		0.01	mmhos/cm		1.83			0.730	10
pH	8.7		1.0	units		8.7			0.00	10
Electrical Conductivity umhos	1840		10.0	umhos/cm		1830			0.730	10
Reference (BEL0701-SRM1)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	424			umhos/cm	426.0		99.6	90-110		
Reference (BEL0701-SRM2)					Prepared & Analyzed: 12/18/2023					
pH	7.5			units	7.520		100	67021-101.32		
Reference (BEL0701-SRM3)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1010			umhos/cm	1000		101	90-110		
Electrical Conductivity umhos	1010			umhos/cm	1000		101	90-110		
Reference (BEL0701-SRM4)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEL0701-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity	1020			umhos/cm	1000		102	90-110		

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DELLAVALLE™ LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR
Ranch: TD

Received: 12/14/2023 15:45
Reported: 12/27/2023 10:01

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0701 (Continued)										
Reference (BEL0701-SRM5)					Prepared & Analyzed: 12/18/2023					
Electrical Conductivity umhos	1020			umhos/cm	1000		102	90-110		
Reference (BEL0701-SRM6)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0701-SRM7)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEL0701-SRM8)					Prepared & Analyzed: 12/18/2023					
pH	4.0			units	4.000		101	97.5-102.5		

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Ranch: TD

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Reported: 12/27/2023 10:01

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0719										
Blank (BEL0719-BLK1)					Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
Blank (BEL0719-BLK2)					Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	ND		1.00	mg/L						
Total Nitrogen	ND		1.00	mg/L						
LCS (BEL0719-BS1)					Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	5.73		1.00	mg/L	5.709		100	90-110		
Duplicate (BEL0719-DUP1)		**Source: 23L0986-02**			Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	ND		2.80	mg/L		ND				10
Matrix Spike (BEL0719-MS1)		**Source: 23L0986-02**			Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	12.0		2.80	mg/L	7.992	ND	150	90-110		
Reference (BEL0719-SRM1)					Prepared: 12/19/2023	Analyzed: 12/20/2023				
Kjeldahl Nitrogen (TKN), Total	33.2			mg/L	31.90		104	90-110		

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12/14/23 15:45 23L0986

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

JG No. Samples: 2 Material: Water 4

Purchase Order No	Bill To:	22217 Acct #	09 / 08 Cons #

Name: Troost Dairy (TROOST)
Address: 24662 Rd 9
City: Chowchilla **State:** CA **Zip:** 93610
Telephone: **Fax:**
Cell/Email: dejagerfarms@gmail.com
COPY TO: dustin@dejagerfarms.com
krhodes@fragservices.com ariordan@fragservices.com
REQUESTED BY: FR
RANCH: TD
ID CROP:
Present Stage of Growth
Intended Previous
Date Sampled: 12/13 **Sampled By:** DJF

Analysis Required:

( ) Manure: DM1 (N,P,K, Moisture)
( ) Manure: DM2 (DM1 Plus Ash, Ca, Mg, Na, S, Cl)
( ) Soil Spring: DS1 (NO_3-N (0'-1')
( ) Soil Fall: DS2 (FA1 (0-1'): NO_3-N (1-2"))
( ) Harvest Tissue: CRA1 (N, P, K, Moisture, Ash)
( ) Feed: ADF/NDF
( ) Petiole/Midrib: P1
( ) Leaf: L1
(X) Other: DCU1 +TN

DESCRIPTION OF SAMPLE

1 DW - 165 -0.4
2 DW - 18 Re Sample 1.6
3
4
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24

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

[X] QA/QC Document [X] Copy of Chain [ ] Comments/Recommendations

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	JLF	DLV	12-14-23 1:32	12-14-23 3:41
Second				
Third				
Fourth	[illegible]	[illegible]	12/14 15:45	

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.
If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through *cal* under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:
Sampling hrs
Miles
Consulting

Shipping
$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature
Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST).xls]Soil & Tissue

DocuSign Envelope ID: D27F90BE-389E-4B46-B14D-C5C03E181CBB

Paste Label Here

12/14/23 15:45 23L0986

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☒ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value	<2	<2								
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025

SEND OUT

DELLAVALLE™
LABORATORY INC

Troost Dairy (TROOST)
PO Box 580
Chowchilla, CA 93610

Account# 00-0022217
Account Manager: Ben Nydam
Submitted By: FR Ag

Received: 11/16/2023 15:55
Reported: 11/22/2023 10:07

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K0930-01	TD - DOM Troost Dairy	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 9:05
23K0930-02	TD - DOM 416	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 9:10
23K0930-03	TD - DOM 410	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 9:20
23K0930-04	TD - DOM 413B	Drinking Water	FR Ag Services	Fresh Water	11/16/2023 9:30

Default Cooler
Temperature on Receipt °C: 8.2

Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Scott McFriedland

Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

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Sample Results

Sample: TD - DOM Troost Dairy
23K0930-01 (Water)

Sampled: 11/16/2023 9:05
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.55**	mmhos/cm	0.01	1		11/20/23 15:28	SM 2510 B		BEK0618
Electrical Conductivity umhos	**549**	umhos/cm	10.0	1		11/20/23 15:28	SM 2510 B		BEK0618
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**7.6**	mg/L	0.1	1	10	11/17/23 18:45	EPA 300.0		BEK0627
Temperature	**25.0**	units	0.0	1		11/20/23 15:28	SM 4500-H+	H	BEK0618
pH	**8.1**	units	1.0	1		11/20/23 15:28	SM 4500-H+	H	BEK0618

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Sample Results
(Continued)

Sample: TD - DOM 416
23K0930-02 (Water)

Sampled: 11/16/2023 9:10
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.57**	mmhos/cm	0.01	1		11/20/23 15:29	SM 2510 B		BEK0618
Electrical Conductivity umhos	**572**	umhos/cm	10.0	1		11/20/23 15:29	SM 2510 B		BEK0618
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**9.9**	mg/L	0.1	1	10	11/17/23 19:05	EPA 300.0		BEK0627
Temperature	**25.0**	units	0.0	1		11/20/23 15:29	SM 4500-H+	H	BEK0618
pH	**8.1**	units	1.0	1		11/20/23 15:29	SM 4500-H+	H	BEK0618

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Sample Results
(Continued)

Sample: TD - DOM 410
23K0930-03 (Water)

Sampled: 11/16/2023 9:20
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.40**	mmhos/cm	0.01	1		11/20/23 15:31	SM 2510 B		BEK0618
Electrical Conductivity umhos	**397**	umhos/cm	10.0	1		11/20/23 15:31	SM 2510 B		BEK0618
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**2.7**	mg/L	0.1	1	10	11/17/23 19:24	EPA 300.0		BEK0627
Temperature	**25.0**	units	0.0	1		11/20/23 15:31	SM 4500-H+	H	BEK0618
pH	**8.0**	units	1.0	1		11/20/23 15:31	SM 4500-H+	H	BEK0618

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Sample Results
(Continued)

Sample: TD - DOM 413B
23K0930-04 (Water)

Sampled: 11/16/2023 9:30
Sampled By: FR Ag Services

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	**0.57**	mmhos/cm	0.01	1		11/20/23 15:32	SM 2510 B		BEK0618
Electrical Conductivity umhos	**569**	umhos/cm	10.0	1		11/20/23 15:32	SM 2510 B		BEK0618
Ammonia (as N)	*	mg/L	0.00	1		11/17/23 11:24	Field		BEK0635
Nitrate Nitrogen as NO3N	**10.2**	mg/L	0.1	1	10	11/17/23 19:44	EPA 300.0		BEK0627
Temperature	**25.0**	units	0.0	1		11/20/23 15:32	SM 4500-H+	H	BEK0618
pH	**8.1**	units	1.0	1		11/20/23 15:32	SM 4500-H+	H	BEK0618

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Quality Control

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0618										
Blank (BEK0618-BLK1)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Temperature	25.0		0.0	units						
Electrical Conductivity	ND		0.01	mmhos/cm						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	5.7		1.0	units						
Blank (BEK0618-BLK2)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	6.1		1.0	units						
Blank (BEK0618-BLK3)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	ND		0.01	mmhos/cm						
Temperature	25.0		0.0	units						
Electrical Conductivity umhos	ND		10.0	umhos/cm						
pH	6.0		1.0	units						
Duplicate (BEK0618-DUP1)		**Source: 23K0907-01**			Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1.03		0.01	mmhos/cm		1.04			0.907	10
pH	8.3		1.0	units		8.3			0.242	10
Electrical Conductivity umhos	1030		10.0	umhos/cm		1040			0.907	10
Duplicate (BEK0618-DUP2)		**Source: 23K0930-04**			Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	0.57		0.01	mmhos/cm		0.57			0.264	10
Electrical Conductivity umhos	567		10.0	umhos/cm		569			0.264	10
pH	8.1		1.0	units		8.1			0.248	10
Reference (BEK0618-SRM1)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	554			umhos/cm	538.0		103	90-110		
Reference (BEK0618-SRM2)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	7.6			units	7.520		101	67021-101.32		
Reference (BEK0618-SRM3)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEK0618-SRM4)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1040			umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040			umhos/cm	1000		104	90-110		
Reference (BEK0618-SRM5)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity	1050			umhos/cm	1000		105	90-110		

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Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0618 (Continued)										
Reference (BEK0618-SRM5)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
Electrical Conductivity umhos	1050			umhos/cm	1000		105	90-110		
Reference (BEK0618-SRM6)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEK0618-SRM7)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		101	97.5-102.5		
Reference (BEK0618-SRM8)					Prepared: 11/17/2023	Analyzed: 11/20/2023				
pH	4.0			units	4.000		101	97.5-102.5		

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Reported: 11/22/2023 10:07

Quality Control
(Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEK0627										
Blank (BEK0627-BLK1)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0627-BLK2)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
Blank (BEK0627-BLK3)					Prepared: 11/17/2023 Analyzed: 11/18/2023					
Nitrate Nitrogen as NO3N	ND		0.1	mg/L						
LCS (BEK0627-BS1)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
LCS (BEK0627-BS2)					Prepared: 11/17/2023 Analyzed: 11/18/2023					
Nitrate Nitrogen as NO3N	5.0		0.1	mg/L	5.000		100	90-110		
Duplicate (BEK0627-DUP1)		**Source: 23K0928-02**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	0.06		0.1	mg/L		0.06			1.60	10
Duplicate (BEK0627-DUP2)		**Source: 23K0940-01**			Prepared: 11/17/2023 Analyzed: 11/18/2023					
Nitrate Nitrogen as NO3N	0.03		0.1	mg/L		0.04			2.90	10
Matrix Spike (BEK0627-MS1)		**Source: 23K0928-02**			Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	5.1		0.1	mg/L	5.000	0.06	101	90-110		
Matrix Spike (BEK0627-MS2)		**Source: 23K0940-01**			Prepared: 11/17/2023 Analyzed: 11/18/2023					
Nitrate Nitrogen as NO3N	4.9		0.1	mg/L	5.000	0.04	97.6	90-110		
Reference (BEK0627-SRM1)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		97.6	90-110		
Reference (BEK0627-SRM2)					Prepared & Analyzed: 11/17/2023					
Nitrate Nitrogen as NO3N	9.8			mg/L	10.00		97.9	90-110		
Reference (BEK0627-SRM3)					Prepared: 11/17/2023 Analyzed: 11/18/2023					
Nitrate Nitrogen as NO3N	9.9			mg/L	10.00		98.6	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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WATER WORK REQUEST

DELLAVALLE LABORATORY, INC.
1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

Purchase Order No

Bill To: Acct # 22217 Cons # 8

No. Samples: 4 No of Bottles: 4

Results Need By

Water Type: [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Troost Dairy (TROOST)

Other:

Address: 24662 Rd 9

City: Chowchilla **State:** CA **Zip:** 93610

Telephone: **Fax:**

Cell/Email:

COPY TO: dejagerfarms@gmail.com ariordan@fragservices.com krhodes@fragservices.com; dustino_56@hotmail.com

REQUESTED BY: FR Ag

PROJECT:

CROP: FRESHWATER

[X] Copy of Chain [X] QA/QC Documents

Sampled By: FR Ag Services

Analysis and Bottles Required: (*Please indicate Analysis*)

(X) DWW1: EC, NO_3-N NH4-N Field Test
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DCW1: EC, NO_3-N, TKN, TN, TDS
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl
(1-1 Liter Plastic, Unpreserved) White Per Sample

( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	TD - DOM TROOST DAIRY	11/16	0905	8.2	
2	TD - DOM 414		0910	7.8	
3	TD - DOM 410		0920	8.0	
4	TD - DOM 413B		0930	7.5	
5					
6					
7					
8					
9					
10					

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

11/16/23 15:55 23K0930 JG

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Kierstan Rhodes	FR Ag Services	11/16 0905	
Second	JLF	DLV	11-16-23 1:55	11-16-23 3:25
Third		DLV	11-16-23 15:55	
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (*cal*). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through ***cal*** under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Invoicing Information:

Sampling hrs _____ $ _____ In
Mileage _____ $ _____ Out
Consulting

Shipping

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST) Water.xls]Dairy Water

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Paste Label Here

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	* pH Value										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	* pH Value										
Plastics	500 mL unpreserved (White) Plastic										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
Special	PO4-P Kit										
Special	**Other:**										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
Plastics	250 mL unpreserved (White) Plastic										
Plastics	250 mL HNO_3 (Red) Plastic										
Plastics	250 mL H_2SO_4 (Yellow) Plastic										
Plastics	500 mL HNO_3 (Red)										
Plastics	1 L unpreserved (White) Plastic										
Plastics	1 L unpreserved (BOD) (Purple) Plastic										
Plastics	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
VOA Vials	40mL AG VOA unpreserved (White) (Set of 3)										
VOA Vials	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
VOA Vials	40mL VOA, H_3PO_4 (Set of 3)										
VOA Vials	40 mL VOA, HCl (Blue) (Set of 3)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
Glass	250 mL AG H_2SO_4 (Yellow)										
Glass	250 mL AG $Na_2S_2O_3$ (Green)										
Glass	250 mL AG $Na_2S_2O_3$ + MCAA										
Glass	500 mL glass unpreserved (White)										
Glass	500 mL AG HCl (Blue)										
Glass	1 L AG unpreserved (White)										
Glass	1 L AG H_2SO_4 (Yellow)										
Glass	1 L AG $Na_2S_2O_3$ (Green)										
Glass	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
Special	Cyanide - 500 mL NaOH										
Special	Asbestos - 1L P wrapped in foil (Set of 2)										
Special	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
Special	Chlorite/Bromate - 250 mL AG with EDA										
Special	HAA5 - 250mL AG Ammonium Chlorite										
Special	DO KIT										
Special	**Other:**										
Special	**Other:**										

11/16/23 15:55 23K0930

DELIVERED SENDOUT

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WATER WORK REQUEST

DELLAVALLE LABORATORY, INC.
1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 · 800 228-9896 · Fax 559 268-8174

No. Samples: 4 No of Bottles: 4

Purchase Order No

Bill To: Acct # 22217 Cons # 8

Results Need By

Water Type: [X] Drinking Water [ ] Wastewater [ ] Ag Water [ ] Groundwater [ ] Monitoring Well

Name: Troost Dairy (TROOST)

Other:

Address: 24662 Rd 9

City: Chowchilla **State:** CA **Zip:** 93610

Telephone: **Fax:**

Cell/Email:

COPY TO: dejagerfarms@gmail.com ariordan@fragservices.com krhodes@fragservices.com; dustino_56@hotmail.com

REQUESTED BY: FR Ag

PROJECT:

CROP: FRESHWATER

[X] Copy of Chain [X] QA/QC Documents

Sampled By: FR Ag Services

Analysis and Bottles Required: (*Please indicate Analysis*)

- (X) DWW1: EC, NO_3-N — NH4-N Field Test — (1-1 Liter Plastic, Unpreserved) White — Per Sample
- ( ) DWW2: DWW1 Plus SO_4, CO_3, HCO_3, Cl, Ca, Mg, Na, TDS — (1-1 Liter Plastic, Unpreserved) White — Per Sample
- ( ) DCW1: EC, NO_3-N, TKN, TN, TDS — (1-1 Liter Plastic, Unpreserved) White — Per Sample
- ( ) DPW1: EC, NO_3-N, NH_4-N, TKN, TDS, TP, TK — (1-1 Liter Plastic, Unpreserved) White — Per Sample
- ( ) DPW2: DPW1 Plus Ca, Mg, Na, HCO_3, CO_3, SO_4, Cl — (1-1 Liter Plastic, Unpreserved) White — Per Sample
- ( ) Other

	Description of Samples	Date Sampled	Time Sampled	Rec'd Temp °C	Field NH_4-N
1	TD - DOM TROOST Dairy	11/16	0905	8.2	
2	TD - DOM 414		0910	7.8	
3	TD - DOM 410		0920	8.0	
4	TD - DOM 413B		0930	7.5	
5					
6					
7					
8					
9					
10					

NO3 10 mg/L
17.7
29.9
32.7
10.2

IR Thermometer SN: 221314357
Correction Factor: 0°C
Calibration Due: 12/22/2023
Location: Laboratory

11/16/23 15:55 23K0930

Kara 11/20/23 11:58 - rm for Alex

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	Kierstan Rhodes	FR Ag Services	11/16 0905	
Second	JLF	DLV	11-16-23 1:55	11-16-23 3:25
Third		DLV	11-16-23 15:55	
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or $5.00 per month whichever is greater.

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Invoicing Information:

Sampling hrs
Mileage
Consulting

Shipping

$ In
$ Out

Amt Paid	Rec By	Check #	Date

Signature

Sample received in cooler with ice (coolant)
[ ] Yes [ ] No

X:\1-CLIENT CUSTOM FIELDSHEETS\FIELDSHEETS\Dairy Fieldsheets\[Troost Dairy (TROOST) Water.xls]Dairy Water

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Paste Label Here

Shipping Information: Shipped In ☐ Picked-Up ☒ Walk In ☐ DLI Sampler ☐ Other ☐ _____

☐ Samples refridgerated before pick up | ☐ Picked up samples placed in Ice chest

Container: Ice Chest ☒ Box ☐ None ☐ | **Refrigerant:** Wet Ice ☒ Blue Ice ☐ None ☐

Samples Preserved with HNO_3 or H_2SO_4 were: ☐ Received Preserved ☐ Preserved Upon Receipt at Laboratory

	Type of Container(s) Received	Sample Number 1	2	3	4	5	6	7	8	9	10
	Sample Containers for Internal (DLI) Use *(Containers that go into the Lab)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	* pH Value										
	250 mL H_2SO_4 (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass										
	PO4-P Kit										
	Other:										
	Sample Containers for Subcontracted ("Send Out") Analyses *(Containers that go in the Subcontract ("Send Out") Refrigerator)*										
Plastics	100 mL sterile plastic $Na_2S_2O_3$ (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO_3 (Red) Plastic										
	250 mL H_2SO_4 (Yellow) Plastic										
	500 mL HNO_3 (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	1 L HNO_3 (Red)										
VOA Vials	40 mL VOA, $Na_2S_2O_3$ + MCAA (EPA531)										
	40 mL VOA, $Na_2S_2O_3$ (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
	40mL VOA, H_3PO_4 (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
	40 mL VOA, $Na_2S_2O_3$ (Green) (Set of 3)										
Glass	250 mL AG unpreserved (White)										
	250 mL AG H_2SO_4 (Yellow)										
	250 mL AG $Na_2S_2O_3$ (Green)										
	250 mL AG $Na_2S_2O_3$ + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H_2SO_4 (Yellow)										
	1 L AG $Na_2S_2O_3$ (Green)										
	1 L AG HCl (Blue)										
Special	Cr^{6+} - 50mL Plastic w/Borate/HCO_3/CO_3										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L **AG** or **P** NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
	Other:										
	Other:										

11/16/23 15:55 23K0930

DRAFT
SEND OUT