



April 29, 2024

Melissa Gunter
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

RE: 2023 Annual Recycled Water Report

Attached please find the City of American Canyon's 2023 Annual Recycled Water Report.
Please note the following:

- Period Covering This Report: January 1 to December 31, 2023
- Producer: City of American Canyon, Water Reclamation Facility, NPDES: CA0038768, WQ-2016-0068-DDW
- Recycled Water Operator: Jay Atkinson, 151 Mezzetta Ct, American Canyon, CA 94503 707-647-4526
- Contact Person: Pam Phillips, 151 Mezzetta Ct, American Canyon, CA 94503. 707-647-4544
- The following reportable events occurred in 2023.
 - February 4, 2023: 7,500 gallon spill
 - April 24, 2023: QC failure on DO sample for REC-001. CAR filed.
 - April 25, 2023: 2,879 gallon spill
 - May 24, 2023: 7,718 gallon spill
 - August 27, 2023: 11,976 gallon spill
 - August 31, 2023: 23,655 gallon spill
 - September 7, 2023: 29,390 gallon spill
 - September 30, 2023: 37,000 gallon spill
 - October 1, 2023: 64,000 gallon spill

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed:  Date: 4/29/2024

Pam Phillips, Environmental Services Manager

Introduction

Recycled water is produced at the City's Water Reclamation Facility (WRF), located at 151 Mezzetta Court. The design capacity of the Facility is 2.5 MGD (average dry weather flow). The WRF has two parallel process streams, domestic and industrial. The WRF primarily combines the two streams; however, the WRF has the flexibility to separate the two streams if it becomes necessary to keep the higher sodium and higher TDS industrial influent from adversely affecting the quality of water intended for use as recycled water. If the streams are separated, the industrial influent is treated, and UV disinfected for discharge to the receiving waters and the domestic is treated and chlorine disinfected for discharge to the recycled water tanks. The City has two recycled water storage tanks; one is 1.5 MG and the other is 1.0 MG, for a total of 2.5 MG storage capacity.

Tabular Summaries of Monitoring Data

Tabulation of Recycled Water Analyses

See Attachment A for the tabulation of recycled water analyses. Note the following comments regarding data presented in Attachment A:

- Sample sites are as follows:
 - E-1: MBR Effluent (Chlorine Contact Basin Influent)
 - E-2: Chlorine Basin Effluent
 - E-3: Recycled Water Meter
- Several dates show turbidity above 0.2 NTU. Each of those occurrences has been reviewed and it was determined that the turbidity was not above 0.2 NTU for more than the allowed 5% of the time; therefore, the data meets compliance requirements with our limits.
- Compliance monitoring occurs when recycled water is being produced. Since there are two holding tanks for recycled water, it is possible to have effluent flow on days that recycled water is not being produced. The days with only effluent flow indicate water leaving the facility from the holding tank. That water was previously monitored as it was produced.

Violations

There was 1 violations in 2023. The following data has been reported with qualifiers:

- On April 24, 2023 a DO analysis was conducted and failed QC. The lab analyst failed to calculate the DO RPD after testing. The RPD was out of the control limits. A second sample was not collected or analysed that week. There is no DO reported for the week of April 23, 2023. A corrective Action Report was completed and is on file.

Tabulation of Recycled Water Use Area Monitoring

See Attachment B for the tabulation of recycled water use area monitoring activities.

During 2023, the WRF was receiving some Use Area Monitoring reports from users. Site inspections that were performed by the users were done when recycled water was in use. Inspections are conducted using the inspection forms contained in our Recycled Water Notice of Intent. Inspection forms are required to be submitted to the City by the 10th day of the following month and submittals are tracked by City staff year-round.

The 2020, 2021, and 2022 Recycled Water Annual reports stated that the recycled water program was going to undergo reorganization to align with the emphasis of user site monitoring as described in the current order. In 2022, the Environmental Services division underwent reorganization at the onset of the new fiscal year (July 1, 2022) with the vision of getting the recycled water use program reorganized and user friendly. An Additional staff member came on board in December 2022 and a 2nd in January 2023. In May 2023 there was a loss in a staff member, leaving the Environmental Services Division with only 1 staff member. The Environmental Services Division was not fully staffed (3FTEs) until September 2023. There has been a lot of staff training to date. The recycled water program has begun an overhaul. All users are being accounted for. All users will be getting a new permit application and permit to align with current recycled water regulations.

Use Area Monitoring

There were 8 spills that were reportable:

- On February 4, 2023 a recycled water spill was reported. Two recycled water drip lines were punctured. The spill was about 7,500 gallons and a portion of that amount ran into the storm drain. After investigation, it was found that recycled water had not come into contact with surface water. The service was shut off and the drip line was repaired the following week. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On April 25, 2023 a 1" broken recycled water line was reported. The water was quickly shut off but a spill of approximately 2,879 gallons occurred. The discharge was observed entering a storm drain, but after the water was shut off, there was not a sufficient amount to be sampled. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On May 24, 2023, a spill of about 7,718 gallons was reported. There was a valve broken causing water to spill out after the sprinklers shut off. The water went into the storm drain on the school site. The drains flow into bioswales around the perimeter of the school. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.

- On August 27, 2023, a spill of approximately 11,976 gallons occurred. A backflow relief valve was leaking. Maintenance staff flushed the backflow prevention assembly to clear any debris that may have caused the spill. A storm drain was impacted but did not enter the receiving water body. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On September 1, 2023 a spill of approximately 23,655 gallons occurred. There was an irrigation malfunction from an active development site. The water entered the storm drain system and was conveyed to a detention basin. No receiving water was impacted. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On September 7, 2023 a recycled water spill of 29,390 gallons occurred. The backflow relief valve was leaking. Maintenance staff flushed the assembly to clear any liquid that may have been stuck in the diaphragm. A similar incident happened on 9/1/2023. Both spills were at the middle school, therefore the school district was contacted and fixed the issue. The water entered the storm drain system and was conveyed to a detention basin. No receiving water was impacted. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On September 30, 2023, a spill of approximately 37,000 gallons of recycled water occurred. A pipe broke. The valve was turned off to stop the leak and ultimately repaired. Recycled water entered the storm drain conveyance system and into a detention basin. No recycled water entered a receiving body of water. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.
- On October 1, 2023, a recycled water spill of approximately 64,000 gallons was reported. The public landscaping irrigation was stuck in the “on” position for about 11 hours. Approximately 9,164 gallons of water stayed on the landscaping while the rest traveled into the stormwater conveyance system and out in the wetlands. The amount of water that went into the wetlands was unknown. A spill notification was sent to the Regional Water Quality Control Board as per the spill notification protocol.

New Recycled Water Users and Use Areas

There were 6 new use areas in 2023.

- Canyon Estates, Canyon Estates Dr, American Canyon, CA 94503
- Napa Valley Ruins & Gardens, 203 Rio Del Mar East, American Canyon, CA 94503
- Napa Valley Ruins & Gardens, 403 Rolling Hills Dr, American Canyon, CA 94503

- City of American Canyon (3 new Use Areas)

Administrator Inspections and Enforcement

There were no inspections or enforcement initiated by the administrator in 2023. As stated previously, the administrator is reorganizing the recycled water program to be more compliant with the new order.

Performance of the Water Reclamation Facility

The WRF has the ability to produce the average daily influent flows. We have one recycled water storage tank on site (1.5MG capacity) and another off-site tank with a capacity of 1 MG. When the WRF is not producing recycled water, these tanks supply recycled water to the system with the added benefit of supplying higher demands now and in the future. The chlorine dosing pumps and controls have been upgraded to meet future capacity demands. The WRF decreased recycled water production from 29% of total effluent in 2022 to 21% of total effluent in 2023.

ATTACHMENT A

January 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
1/1/2023	.00	0.00			99999.00	.33
1/2/2023	.00	0.00			99999.00	.20
1/3/2023	.69	0.12	8.10	ND	499.00	.36
1/4/2023	.57	0.11		ND	506.00	.17
1/5/2023	.00	0.00			99999.00	.32
1/6/2023	.00	0.00			99999.00	.35
1/7/2023	.00	0.00			99999.00	.17
1/8/2023	.00	0.00			99999.00	.34
1/9/2023	.71	0.12	8.00	ND	1328.00	.29
1/10/2023	.94	0.11		ND	1032.00	.19
1/11/2023	.31	0.24		ND	1037.00	.30
1/12/2023	.00	0.00			99999.00	.35
1/13/2023	.00	0.00			99999.00	.21
1/14/2023	.00	0.00			99999.00	.31
1/15/2023	.00	0.00			99999.00	.35
1/16/2023	.00	0.00			99999.00	.07
1/17/2023	.75	0.18	6.60	ND	508.00	.43
1/18/2023	.88	0.16		ND	489.00	.30
1/19/2023	.50	0.15		ND	932.00	.34
1/20/2023	.00	0.00			99999.00	.17
1/21/2023	.00	0.00			99999.00	.33
1/22/2023	.00	0.00			99999.00	.17
1/23/2023	.53	0.34	9.90		858.00	.28
1/24/2023	.75	0.25			500.00	.22
1/25/2023	.17	0.23			945.00	.31
1/26/2023	.00	0.00			99999.00	.18
1/27/2023	.00	0.00			99999.00	.36
1/28/2023	.00	0.00			99999.00	.16
1/29/2023	.00	0.00			99999.00	.17
1/30/2023	.37	0.32	9.80	ND	488.00	.32
1/31/2023	.87	0.31		ND	466.00	.22
Minimum	.00	0.00	6.60	ND	466.00	.07
Maximum	.94	0.34	9.90	ND	99999.00	.43
Total	8.04	2.64	42.40	ND0.0	#####	8.25
Average	.26	0.09	8.50	ND	58373.00	.27

MDL = 1.8

February 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow	
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD	
2/1/2023	.42	0.20			ND	1057.00	.17
2/2/2023	.00	0.00			99999.00	.22	
2/3/2023	.00	0.00			99999.00	.22	
2/4/2023	.00	0.00			99999.00	.26	
2/5/2023	.00	0.00			99999.00	.18	
2/6/2023	.66	0.13	8.20	ND	749.00	.28	
2/7/2023	.58	0.16		ND	464.00	.23	
2/8/2023	.27	0.17		ND	646.00	.16	
2/9/2023	.16	0.11		ND	1260.00	.16	
2/10/2023	.00	0.00			99999.00	.32	
2/11/2023	.00	0.00			99999.00	.16	
2/12/2023	.00	0.00			99999.00	.16	
2/13/2023	.69	0.35	9.40	ND	906.00	.16	
2/14/2023	.30	0.11		ND	1020.00	.23	
2/15/2023	.09	0.08		ND	1383.00	.24	
2/16/2023	.00	0.00			99999.00	.16	
2/17/2023	.00	0.00			99999.00	.16	
2/18/2023	.00	0.00			99999.00	.16	
2/19/2023	.00	0.00			99999.00	.15	
2/20/2023	.00	0.00			99999.00	.25	
2/21/2023	.33	0.12		ND	497.00	.23	
2/22/2023	.86	0.10	4.00	ND	894.00	.17	
2/23/2023	.35	0.09		ND	1029.00	.17	
2/24/2023	.00	0.00			99999.00	.27	
2/25/2023	.00	0.00			99999.00	.17	
2/26/2023	.00	0.00			99999.00	.25	
2/27/2023	.62	0.19	9.70	ND	1201.00	.25	
2/28/2023	.46	0.06	2.90	ND	1440.00	.17	
Minimum	.00	0.00	2.90	ND	464.00	.15	
Maximum	.86	0.35	9.70	ND	99999.00	.32	
Total	5.78	1.87	34.20	ND0.0	#####	5.72	
Average	.21	0.07	6.80	ND	54019.00	.20	

MDL = 1.8

March 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
3/1/2023	.30	0.10		ND	1146.00	.31
3/2/2023	.18	0.11		ND	1064.00	.19
3/3/2023	.00	0.00			99999.00	.17
3/4/2023	.00	0.00			99999.00	.17
3/5/2023	.00	0.00			99999.00	.29
3/6/2023	.61	0.17	9.20	ND	618.00	.19
3/7/2023	.36	0.35		ND	1222.00	.19
3/8/2023	.18	0.10		ND	499.00	.29
3/9/2023	.00	0.00			99999.00	.07
3/10/2023	.00	0.00			99999.00	.36
3/11/2023	.00	0.00			99999.00	.21
3/12/2023	.00	0.00			99999.00	.00
3/13/2023	.62	0.17		ND	1330.00	.59
3/14/2023	.82	0.34		ND	1718.00	.17
3/15/2023	.18	0.12	5.00	ND	1339.00	.34
3/16/2023	.00	0.00			99999.00	.17
3/17/2023	.00	0.00			99999.00	.34
3/18/2023	.00	0.00			99999.00	.16
3/19/2023	.00	0.00			99999.00	.30
3/20/2023	.58	0.37	9.70	ND	699.00	.19
3/21/2023	.71	0.35		ND	663.00	.24
3/22/2023	.42	0.05		ND	632.00	.24
3/23/2023	.17	0.05		ND	635.00	.34
3/24/2023	.00	0.00			99999.00	.16
3/25/2023	.00	0.00			99999.00	.30
3/26/2023	.00	0.00			99999.00	.18
3/27/2023	.63	0.09	9.50	ND	612.00	.16
3/28/2023	.45	0.10		ND	591.00	.15
3/29/2023	.15	0.09		ND	652.00	.32
3/30/2023	.00	0.00			99999.00	.16
3/31/2023	.00	0.00			99999.00	.28
Minimum	.00	0.00	5.00	ND	499.00	.00
Maximum	.82	0.37	9.70	ND	99999.00	.59
Total	6.35	2.56	33.40	ND0.0	#####	7.19
Average	.21	0.08	8.40	ND	52045.00	.23

MDL = 1.8

April 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
4/1/2023	.00	0.00			99999.00	.20
4/2/2023	.00	0.00			99999.00	.16
4/3/2023	.63	0.06	9.40	ND	748.00	.24
4/4/2023	.63	0.12		ND	474.00	.24
4/5/2023	.27	0.08		ND	819.00	.16
4/6/2023	.00	0.00			99999.00	.16
4/7/2023	.00	0.00			99999.00	.16
4/8/2023	.00	0.00			99999.00	.27
4/9/2023	.00	0.00			99999.00	.19
4/10/2023	.38	0.13	9.40	ND	741.00	.16
4/11/2023	.62	0.28		ND	587.00	.16
4/12/2023	.30	0.14		ND	714.00	.26
4/13/2023	.06	0.13		ND	976.00	.21
4/14/2023	.00	0.00			99999.00	.16
4/15/2023	.00	0.00			99999.00	.15
4/16/2023	.00	0.00			99999.00	.16
4/17/2023	.58	0.16	9.40	ND	842.00	.32
4/18/2023	.00	0.00		ND	99999.00	.16
4/19/2023	.00	0.00			99999.00	.20
4/20/2023	.00	0.00			99999.00	.12
4/21/2023	.00	0.00			99999.00	.00
4/22/2023	.47	0.13		ND	545.00	.31
4/23/2023	.80	0.16		ND	480.00	.57
4/24/2023	.50	0.11		ND	858.00	.13
4/25/2023	.37	0.07		ND	671.00	.43
4/26/2023	.56	0.50		ND	739.00	.54
4/27/2023	.42	0.11		ND	494.00	.51
4/28/2023	.21	0.08		ND	495.00	.46
4/29/2023	.00	0.00			99999.00	.39
4/30/2023	.00	0.00			99999.00	.25
Minimum	.00	0.00	9.40	ND	474.00	.00
Maximum	.80	0.50	9.40	ND	99999.00	.57
Total	6.79	2.26	28.20	ND0.0	1510168.00	7.40
Average	.23	0.08	9.40	ND	50339.00	.25

MDL = 1.8

May 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
5/1/2023	.56	0.10	8.80	ND	1010.00	.37
5/2/2023	.86	0.28		ND	701.00	.31
5/3/2023	.53	0.12		ND	730.00	.39
5/4/2023	.24	0.11		ND	1098.00	.41
5/5/2023	.00	0.00			99999.00	.46
5/6/2023	.00	0.00			99999.00	.23
5/7/2023	.00	0.00			99999.00	.22
5/8/2023	.55	0.29	9.10	ND	1001.00	.29
5/9/2023	.82	0.26		ND	612.00	.43
5/10/2023	.68	0.29		ND	632.00	.33
5/11/2023	.25	0.08		ND	971.00	.44
5/12/2023	.00	0.00			99999.00	.48
5/13/2023	.00	0.00			99999.00	.27
5/14/2023	.00	0.00			99999.00	.32
5/15/2023	.67	0.26	8.80	ND	490.00	.48
5/16/2023	.65	0.11		ND	461.00	.50
5/17/2023	.60	0.14		ND	491.00	.59
5/18/2023	.86	0.19		ND	482.00	.47
5/19/2023	.87	0.19		ND	662.00	.65
5/20/2023	.00	0.00			99999.00	.38
5/21/2023	.00	0.00			99999.00	.34
5/22/2023	.51	0.20	7.80	ND	1011.00	.56
5/23/2023	.69	0.18		ND	592.00	.47
5/24/2023	.54	0.34		ND	714.00	.61
5/25/2023	.23	0.17		ND	824.00	.30
5/26/2023	.11	0.26		ND	1253.00	.53
5/27/2023	.71	0.35		ND	587.00	.50
5/28/2023	.81	0.24		ND	981.00	.48
5/29/2023	.94	0.18		ND	912.00	.82
5/30/2023	.86	0.39		ND	655.00	.78
5/31/2023	1.00	0.07	2.90	ND	731.00	.70
Minimum	.00	0.00	2.90	ND	461.00	.22
Maximum	1.00	0.39	9.10	ND	99999.00	.82
Total	14.53	4.80	37.40	ND0.0	817593.00	14.08
Average	.47	0.15	7.50	ND	26374.00	.45

MDL = 1.8

June 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
6/1/2023	.61	0.41		ND	702.00	.51
6/2/2023	.43	0.09		ND	858.00	.57
6/3/2023	.00	0.00			99999.00	.53
6/4/2023	.00	0.00			99999.00	.48
6/5/2023	.67	0.11	8.10	ND	1001.00	.56
6/6/2023	.85	0.16		ND	736.00	.64
6/7/2023	.97	0.23		ND	713.00	.36
6/8/2023	.72	0.19		ND	732.00	.70
6/9/2023	.53	0.36		ND	1049.00	.69
6/10/2023	.00	0.00			99999.00	.52
6/11/2023	.00	0.00			99999.00	.44
6/12/2023	.72	0.13	6.90	ND	1040.00	.63
6/13/2023	.94	0.17		ND	736.00	.60
6/14/2023	.97	0.16		ND	817.00	.42
6/15/2023	.84	0.13		ND	945.00	.69
6/16/2023	.49	0.13		ND	1058.00	.67
6/17/2023	.00	0.00			99999.00	.61
6/18/2023	.00	0.00			99999.00	.36
6/19/2023	.72	0.12		ND	741.00	.81
6/20/2023	.91	0.14	3.00	ND	478.00	.74
6/21/2023	.94	0.15		2.0	481.00	.72
6/22/2023	.99	0.17		ND	497.00	.81
6/23/2023	.95	0.15		ND	491.00	.79
6/24/2023	.94	0.19		ND	567.00	.71
6/25/2023	.00	0.00			99999.00	.56
6/26/2023	.73	0.15	6.80	ND	571.00	.76
6/27/2023	.74	0.29		ND	478.00	.54
6/28/2023	.95	0.16		ND	514.00	.78
6/29/2023	.32	0.19		ND	589.00	.57
6/30/2023	.02	0.06		ND	1170.00	.73
Minimum	.00	0.00	3.00	2.0	478.00	.36
Maximum	.99	0.41	8.10	ND	99999.00	.81
Total	16.94	4.04	24.80	ND2.0	#####	18.47
Average	.57	0.13	6.20	ND0.1	23899.00	.62

MDL = 1.8

July 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
7/1/2023	1.00	0.11		ND	657.00	.54
7/2/2023	1.01	0.11		ND	604.00	.61
7/3/2023	1.00	0.12	2.40	4.5	641.00	1.31
7/4/2023	1.00	0.11		ND	517.00	.74
7/5/2023	.75	0.20		ND	662.00	.82
7/6/2023	.64	0.25		ND	488.00	.92
7/7/2023	.88	0.13		ND	485.00	.93
7/8/2023	.93	0.10		ND	505.00	.81
7/9/2023	.79	0.09		ND	638.00	.65
7/10/2023	.84	0.09	2.50	ND	689.00	.88
7/11/2023	.84	0.13		ND	473.00	.92
7/12/2023	.82	0.13		ND	473.00	.97
7/13/2023	.80	0.09		ND	469.00	.74
7/14/2023	1.03	0.09		ND	521.00	.70
7/15/2023	.56	0.09		ND	1064.00	.57
7/16/2023	.00	0.00			99999.00	.53
7/17/2023	.62	0.11	6.80	ND	780.00	.80
7/18/2023	.90	0.10		ND	524.00	.81
7/19/2023	1.00	0.09		ND	581.00	.71
7/20/2023	.92	0.13		ND	579.00	.62
7/21/2023	.58	0.09		ND	609.00	.69
7/22/2023	.00	0.00			99999.00	.68
7/23/2023	.71	0.11		ND	986.00	.63
7/24/2023	1.00	0.11	2.60	ND	894.00	1.19
7/25/2023	.98	0.22	2.60	ND	655.00	.64
7/26/2023	.98	0.18		ND	510.00	.72
7/27/2023	.85	0.20		ND	487.00	.67
7/28/2023	.54	0.17		ND	647.00	.70
7/29/2023	.00	0.00			99999.00	.58
7/30/2023	.00	0.00			99999.00	.47
7/31/2023	.69	0.13	7.40	ND	898.00	.44
Minimum	.00	0.00	2.40	4.5	469.00	.44
Maximum	1.03	0.25	7.40	ND	99999.00	1.31
Total	22.63	3.48	24.30	ND4.5	#####	22.95
Average	.73	0.11	4.10	ND0.2	13453.00	.74

MDL = 1.8

August 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
8/1/2023	.98	0.16		ND	692.00	.94
8/2/2023	1.01	0.13		ND	974.00	.58
8/3/2023	.94	0.11		ND	938.00	.59
8/4/2023	.64	0.12		ND	1094.00	.64
8/5/2023	.46	0.11		ND	1256.00	.71
8/6/2023	.00	0.00			99999.00	.71
8/7/2023	.72	0.11	6.80	ND	1401.00	.68
8/8/2023	1.05	0.12		ND	991.00	.93
8/9/2023	1.05	0.15		ND	1158.00	.58
8/10/2023	.91	0.16		ND	1278.00	.71
8/11/2023	1.05	0.11		ND	1380.00	1.16
8/12/2023	.92	0.10		ND	528.00	.86
8/13/2023	.00	0.00			99999.00	.51
8/14/2023	.67	0.09	7.20	2.0	1090.00	.77
8/15/2023	.93	0.34		ND	723.00	.62
8/16/2023	.95	0.13		ND	490.00	.90
8/17/2023	.98	0.10		ND	531.00	.87
8/18/2023	.89	0.10		ND	489.00	.86
8/19/2023	.77	0.09		ND	475.00	.80
8/20/2023	.65	0.08		ND	614.00	.66
8/21/2023	.76	0.08	2.80	ND	952.00	.80
8/22/2023	.45	0.09		ND	910.00	.87
8/23/2023	1.06	0.08		ND	836.00	.73
8/24/2023	.60	0.08		ND	1120.00	.56
8/25/2023	.71	0.07		ND	911.00	.74
8/26/2023	.70	0.08		ND	691.00	.84
8/27/2023	.00	0.00			99999.00	.61
8/28/2023	.78	0.06	7.40	ND	1319.00	.49
8/29/2023	1.05	0.07		ND	759.00	.85
8/30/2023	1.01	0.07		ND	897.00	1.18
8/31/2023	1.00	0.18		ND	488.00	.81
Minimum	.00	0.00	2.80	2.0	475.00	.49
Maximum	1.06	0.34	7.40	ND	99999.00	1.18
Total	23.65	3.17	24.20	ND2.0	#####	23.52
Average	.76	0.10	6.10	ND0.1	10483.00	.76

MDL = 1.8

September 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
9/1/2023	.79	0.10		ND	724.00	.80
9/2/2023	.00	0.00			99999.00	.71
9/3/2023	.70	0.07		ND	655.00	.46
9/4/2023	.79	0.09		ND	526.00	.68
9/5/2023	.78	0.07		ND	499.00	.77
9/6/2023	.87	0.09	2.70	ND	515.00	.73
9/7/2023	.83	0.12		ND	570.00	.66
9/8/2023	.64	0.08		ND	746.00	.67
9/9/2023	.63	0.41		ND	787.00	.64
9/10/2023	.43	0.36		ND	1020.00	.49
9/11/2023	.54	0.35	4.20	ND	1059.00	.65
9/12/2023	.49	0.38		ND	519.00	.56
9/13/2023	.42	0.42		ND	500.00	.61
9/14/2023	.87	0.41		ND	568.00	.51
9/15/2023	.58	0.42		ND	610.00	.60
9/16/2023	.45	0.42		ND	765.00	.54
9/17/2023	.00	0.00			99999.00	.52
9/18/2023	.72	0.40	6.80	ND	821.00	.69
9/19/2023	.77	0.42		ND	492.00	.44
9/20/2023	.72	0.40		ND	629.00	.56
9/21/2023	.42	0.07		ND	558.00	.43
9/22/2023	.64	0.42		ND	609.00	.65
9/23/2023	.36	0.16		ND	716.00	.52
9/24/2023	.00	0.00			99999.00	.31
9/25/2023	.49	0.46	8.00	ND	486.00	.54
9/26/2023	.54	0.35		ND	494.00	.50
9/27/2023	.42	0.34		ND	488.00	.68
9/28/2023	.71	0.10		ND	457.00	.53
9/29/2023	.55	0.42		ND	458.00	.70
9/30/2023	.80	0.38		ND	497.00	.75
Minimum	.00	0.00	2.70	ND	457.00	.31
Maximum	.87	0.46	8.00	ND	99999.00	.80
Total	16.92	7.71	21.70	ND0.0	#####	17.88
Average	.56	0.26	5.40	ND	10559.00	.60

MDL = 1.8

October 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
10/1/2023	.53	0.38		ND	500.00	.34
10/2/2023	.63	0.24	3.30	ND	621.00	.33
10/3/2023	.56	0.24		ND	498.00	.82
10/4/2023	.63	0.39	3.30	ND	790.00	.46
10/5/2023	.52	0.27		ND	808.00	.49
10/6/2023	.61	0.38		ND	747.00	.65
10/7/2023	.45	0.37		ND	644.00	.46
10/8/2023	.32	0.10		ND	613.00	.48
10/9/2023	.00	0.00			99999.00	.61
10/10/2023	.73	0.25	7.40	ND	723.00	.51
10/11/2023	.88	0.30		ND	700.00	.45
10/12/2023	.55	0.29		ND	946.00	.46
10/13/2023	.54	0.10		ND	1090.00	.59
10/14/2023	.37	0.08		ND	1303.00	.34
10/15/2023	.00	0.00			99999.00	.45
10/16/2023	.69	0.32	8.80	ND	1251.00	.48
10/17/2023	.71	0.34		ND	1147.00	.52
10/18/2023	.37	0.26		ND	859.00	.43
10/19/2023	.36	0.26		ND	1237.00	.44
10/20/2023	.50	0.09		ND	494.00	.56
10/21/2023	.48	0.49		ND	482.00	.49
10/22/2023	.57	0.08		ND	1402.00	.48
10/23/2023	.47	0.17		ND	1127.00	.46
10/24/2023	.40	0.16		ND	1627.00	.42
10/25/2023	.51	0.14		ND	1624.00	.53
10/26/2023	.29	0.14		ND	1740.00	.27
10/27/2023	.51	0.17	4.50	ND	1640.00	.57
10/28/2023	.34	0.19		ND	1127.00	.29
10/29/2023	.00	0.00			99999.00	.35
10/30/2023	.51	0.41	7.40	ND	1475.00	.42
10/31/2023	.63	0.22		ND	1224.00	.41
Minimum	.00	0.00	3.30	ND	482.00	.27
Maximum	.88	0.49	8.80	ND	99999.00	.82
Total	14.65	6.83	34.70	ND0.0	#####	14.53
Average	.47	0.22	5.80	ND	10595.00	.47

MDL = 1.8

November 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
11/1/2023	.35	0.23		ND	1320.00	.38
11/2/2023	.47	0.24		ND	1382.00	.46
11/3/2023	.36	0.24			1401.00	.40
11/4/2023	.00	0.00			99999.00	.41
11/5/2023	.00	0.00			99999.00	.28
11/6/2023	.61	0.28	7.10	ND	1654.00	.32
11/7/2023	.75	0.24		ND	1368.00	.36
11/8/2023	.39	0.28		ND	1458.00	.41
11/9/2023	.28	0.37		ND	727.00	.28
11/10/2023	.00	0.00			99999.00	.21
11/11/2023	.00	0.00			99999.00	.32
11/12/2023	.00	0.00			99999.00	.20
11/13/2023	.51	0.36	8.40	ND	1370.00	.29
11/14/2023	.71	0.38		ND	803.00	.27
11/15/2023	.19	0.23		ND	1175.00	.16
11/16/2023	.26	0.17		ND	1095.00	.27
11/17/2023	.00	0.00			99999.00	.28
11/18/2023	.00	0.00			99999.00	.26
11/19/2023	.00	0.00			99999.00	.16
11/20/2023	.62	0.23	8.80	ND	928.00	.26
11/21/2023	.56	0.23		ND	667.00	.27
11/22/2023	.21	0.24		ND	890.00	.25
11/23/2023	.00	0.00			99999.00	.16
11/24/2023	.00	0.00			99999.00	.29
11/25/2023	.00	0.00			99999.00	.23
11/26/2023	.00	0.00			99999.00	.21
11/27/2023	.60	0.25	7.50	ND	1047.00	.29
11/28/2023	.83	0.38		ND	743.00	.27
11/29/2023	.18	0.34		ND	768.00	.18
11/30/2023	.00	0.00			99999.00	.29
Minimum	.00	0.00	7.10	ND	667.00	.16
Maximum	.83	0.38	8.80	ND	99999.00	.46
Total	7.86	4.69	31.80	ND0.0	#####	8.41
Average	.26	0.16	8.00	ND	43959.00	.28

MDL = 1.8

December 2023

	CCB Inf E1 Flow	CCB Inf E1 Maximum Turbidity	CCB Eff E2 DO	CCB Eff E2 Coliform	CCB Eff E2 Minimum CT	EFF-002 (E-3) Flow
Date	MGD	NTU	mg/L	MPN/100	mg-min/L	MGD
12/1/2023	.00	0.00			99999.00	.27
12/2/2023	.00	0.00			99999.00	.20
12/3/2023	.00	0.00			99999.00	.16
12/4/2023	.51	0.44	9.10	ND	1274.00	.23
12/5/2023	.76	0.42		ND	875.00	.30
12/6/2023	.29	0.07		ND	997.00	.17
12/7/2023	.00	0.00			99999.00	.24
12/8/2023	.00	0.00			99999.00	.29
12/9/2023	.00	0.00			99999.00	.17
12/10/2023	.00	0.00			99999.00	.16
12/11/2023	.67	0.40		ND	1201.00	.32
12/12/2023	.48	0.47	4.70	ND	1056.00	.22
12/13/2023	.00	0.00			99999.00	.16
12/14/2023	.00	0.00			99999.00	.18
12/15/2023	.00	0.00			99999.00	.31
12/16/2023	.00	0.00			99999.00	.17
12/17/2023	.00	0.00			99999.00	.17
12/18/2023	.70	0.40	8.10	2.0	1261.00	.17
12/19/2023	.92	0.43		ND	1167.00	.33
12/20/2023	.16	0.10		ND	1295.00	.17
12/21/2023	.16	0.41		ND	1345.00	.16
12/22/2023	.20	0.40		ND	1328.00	.21
12/23/2023	.00	0.00			99999.00	.16
12/24/2023	.00	0.00			99999.00	.16
12/25/2023	.00	0.00			99999.00	.22
12/26/2023	.00	0.00			99999.00	.26
12/27/2023	.00	0.00			99999.00	.16
12/28/2023	.57	0.30	7.90	ND	589.00	.16
12/29/2023	.64	0.27		ND	468.00	.16
12/30/2023	.00	0.00			99999.00	.24
12/31/2023	.00	0.00			99999.00	.23
Minimum	.00	0.00	4.70	2.0	468.00	.16
Maximum	.92	0.47	9.10	ND	99999.00	.33
Total	6.07	4.11	29.80	ND2.0	#####	6.50
Average	.20	0.13	7.50	ND0.2	61704.00	.21

MDL = 1.8

ATTACHMENT B

Location	Acreage Applied (Acres)	Application Rate (inches/acre/year)	Soil Saturation ponding	Nuisance odors Vectors	Discharge Off-Site	Notification Signs	Administrator annual site inspection
3000 Newell Dr	**	**	NO	NO	NO	YES	NO
475 Silver Oak Trail	**	**	NO	NO	NO	YES	NO
218 American Canyon Rd	**	**	NO	NO	NO	YES	NO
644 Hana Dr	0.9	landscape/dual plumbed	NO	NO	NO	YES	NO
677 Hana Dr	0.8	landscape/dual plumbed	NO	NO	NO	YES	NO
255 Lombard Rd	2.1	landscape/dual plumbed	NO	NO	NO	YES	NO
265 Lombard Rd	3.8	landscape/dual plumbed	NO	NO	NO	YES	NO
100, 110, 120 American Canyon Rd	0.2	131.8	NO	NO	NO	YES	NO
1166 Commerce	**	**	NO	NO	NO	YES	NO
5500 Eucalyptus Dr	3.4	12.8	NO	NO	NO	YES	NO
507 Green Island Rd	0.02	188.3	NO	NO	NO	YES	NO
5075 Main St.	**	**	NO	NO	NO	YES	NO
5075 Main St.	**	**	NO	NO	NO	YES	NO
6050 & 6040 Main St	**	**	NO	NO	NO	YES	NO
6055 Main St	**	**	NO	NO	NO	YES	NO
1245 Commerce Dr	**	**	NO	NO	NO	YES	NO
800 Reliant Way	**	landscape/dual plumbed	NO	NO	NO	YES	NO
401 Napa Junction Rd	**	Carwash	NO	NO	NO	YES	NO
410 Napa Junction Rd	0.07	503.7	NO	NO	NO	YES	NO
418 Napa Junction Rd	**	**	NO	NO	NO	YES	NO
City of American Canyon	**	**	NO	NO	YES	YES	NO
205 Wetlands Edge Rd	**	Residential pickup	NO	NO	NO	YES	NO
405 Green Island Rd	**	**	NO	NO	NO	YES	NO
7011 Main St	0.25	256.6	NO	NO	YES	YES	NO
7021 Main St	**	**	NO	NO	NO	YES	NO
5001 Main St	0.14	216.1	NO	NO	NO	YES	NO
450 Green Island Rd	**	landscape/dual plumbed	NO	NO	NO	YES	NO
210 American Canyon Rd	0.76	0.0	NO	NO	NO	YES	NO
410.5 Napa Junction Rd	0.07	0.0	NO	NO	NO	YES	NO
Green Island Vineyard	**	**	NO	NO	NO	YES	NO
401 Napa Junction Rd	0.4	74.1	NO	NO	NO	YES	NO
151 Mezzetta Ct	**	**	NO	NO	NO	YES	NO
1535 Airport Rd	**	**	**	**	**	**	NO
300 Benton Way	**	**	NO	NO	YES	YES	NO

60 Benton Way	**	landscape/dual plumbed	NO	NO	NO	NO	NO
500 Eucalyptus Dr	**	**	NO	NO	NO	NO	NO
1 Middleton Way	**	landscape/dual plumbed	NO	NO	NO	NO	NO
406 Napa Junction Rd	**	**	NO	NO	NO	NO	NO
416 Napa Junction Rd	**	**	NO	NO	NO	NO	NO
100 Toscana Dr	**	**	NO	NO	NO	NO	NO
140 Dodd Ct.	**	**	NO	NO	NO	NO	NO
1005 Commerce Ct	**	**	NO	NO	NO	NO	NO
400 Boone Dr	**	landscape/dual plumbed	NO	NO	NO	NO	NO
600 Boone Dr	**	**	NO	NO	NO	NO	NO
300 Boone Dr	**	**	NO	NO	NO	NO	NO
500 Boone Dr	**	landscape/dual plumbed	NO	NO	NO	NO	NO
Canyon Estates	**	**	NO	NO	NO	NO	NO
Watson Ranch	**	**	NO	NO	NO	NO	NO
403 Rolling Hills Dr	0.02	30.3	NO	NO	NO	YES	NO
203 Rio Del Mar	0.02	69.4	NO	NO	NO	YES	NO
Napa Recycling and Waste	Temp	**			NO		NO
Northwest Engineering	Temp	**			NO		NO
Devlin Road Recycling	Temp	**			NO		NO
Jeff Phelps	Temp	**			NO		NO
Anthony Beville	Temp	**			NO		NO
Turner Construction	Temp	**			NO		NO
Martin Brothers	Temp	**			NO		NO
City of American Canyon WRF	Temp	**			NO		NO
SDG Commerce	Temp	**			NO		NO
St. Francis Electric	Temp	**			NO		NO
Ironcore Construction	Temp	**			NO		NO
Jaqueline Chan	Temp	**			NO		NO
Ranchers Hotels LLC	Temp	**			NO		NO
Russell Square Consulting	Temp	**			NO		NO
Argonaut	Temp	**			NO		NO

Application Rate is formula online. <http://irrigation.wsu.edu/Content/Calculators/General/Water-Application-Rate.php> GPD=total /12. in/day AR is * 365 to get year.