



Peter Kavounas, P.E. General Manager

Randy Lee, P.E. Director of Operations & Maintenance

May 15, 2022

Regional Water Quality Control Board, Santa Ana Region

Attention: Ms. Jayne Joy 3737 Main Street, Suite 500 Riverside, California 92501-3348

Subject: Chino Basin Recycled Water Groundwater Recharge Program:

Quarterly Monitoring Report for January through March 2022

Dear Ms. Joy,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the first quarter of 2022 (1Q22), January 1 through March 31, 2022, for the *Chino Basin Recycled Water Groundwater Recharge Program*. This document is submitted pursuant to requirements in Order No. R8-2007-0039. All required monitoring and reporting for the quarter are presented in the attached report. During 1Q22, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of exceedances of the maximum contaminant level (MCL) for 1,2,3-Trichloropropance (1,2,3-TCP), and notification level for Perfluorooctanoic acid (PFOA).

Chino Basin Watermaster hereby certifies that, during the period of January 1 through March 31, 2022, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time from each of the recharge sites using recycled water, namely 7th & 8th Street, Banana, Brooks, Declez, Ely, Hickory, RP3, San Sevaine, Turner, and Victoria Basins. In point of fact, there are no domestic or municipal production wells in the buffer zones of the aforementioned recharge sites.

DECLARATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments thereto; and that, based on my inquiry of the 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.

Executed on the 15th day of May in the Cities of Chino and Rancho Cucamonga.

Randy Lee

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Randy Lee, P.E.

Director of Operations & Maintenance

Peter Kavounas, P.E. General Manager

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 31, 2022



Prepared by:



May 15, 2022

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1. Introduction

Inland Empire Utilities Agency (IEUA), Chino Basin Watermaster (Watermaster), Chino Basin Water Conservation District, and San Bernardino County Flood Control District are partners in the implementation of the Chino Basin Recycled Water Groundwater Recharge Program. This is part of a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells throughout the Chino Groundwater Basin by increasing the recharge of stormwater, imported water and recycled water. This program is an integral part of Watermaster's Optimum Basin Management Program (OBMP).

A. Order No. R8-2007-0039

On June 29, 2007, the Santa Ana Regional Water Quality Control Board (Regional Board) adopted Order No. R8-2007-0039 (Order) which prescribes the requirements for recycled water use for groundwater recharge in 13 recharge sites within the Chino-North Groundwater Management Zone. The locations of recharge basins in the Chino Basin Groundwater Recharge Program are shown in Figure 1-1.

As a provision of this Order, IEUA and Watermaster must also comply with Monitoring and Reporting Program No. R8-2007-0039 (MRP). The MRP includes the water quality monitoring requirements of the Chino Basin Recycled Water Groundwater Recharge Program and the requirement for the submittal of quarterly and annual reports. This document is the quarterly report for the first quarter of 2022 (1Q22).

The quarterly report includes the following elements as prescribed in the MRP:

- Monitoring results for recycled water (including lysimeter monitoring), diluent water, and groundwater.
- Recycled water and diluent water volumes recharged at each basin.
- Reporting of any non-compliance events due to water quality, including records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any diversion(s) of off-specification recycled water and the location(s) of final disposal. All corrective or preventive action(s) taken.
- Certification that no groundwater has been pumped for domestic water supply use from the buffer zone that extends 500 feet and 6-months underground travel time from the recharge basin(s) where recycled water is applied.

B. Order No. R8-2009-0057

On October 23, 2009, the Regional Board adopted Order No. R8-2009-0057, which amended the recharge permit (Order No. R8-2007-0039) by extending the previously 60-month averaging period to 120 months for determining a recharge site's recycled water contribution (RWC). The Order No. R8-2009-0057 also allowed a fraction of the groundwater underflow of the Chino Basin aquifers to be used as a source of diluent water when calculating the running average RWC.

C. Revised Monitoring & Reporting Program No. R8-2007-0039

On October 27, 2010, the Regional Board revised Monitoring and Reporting Program No. R8-2007-0039 (MRP) based on requests for modifications from IEUA and approved by the State Water Resources Control Board – Division of Drinking Water (DDW, formerly California Department of Public Health). The following changes were made to the MRP:

1) Sampling Requirements A.3, A.4, and A.5 were modified by specifying that samples shall be collected on a representative day instead of the 10th day.

- 2) Groundwater Monitoring Program Requirement V.1. was modified by adding a sentence to the paragraph that allows IEUA to analyze the groundwater samples collected on a quarterly basis from non-active municipal drinking water wells for dissolved metals, instead of total recoverable metals.
- 3) Reporting Requirement VI.B.3.b. was modified and footnote No. 18 was added to reflect that IEUA uses groundwater monitoring information contained in the *State of the Basin* report prepared on a biennial basis by the Chino Basin Watermaster, amongst other sources, for the annual determination of the recycled water groundwater flow path.

D. Title 22, Division 4, Chapter 3. Article 5.1 §60320.100

On June 18, 2014, the DDW adopted new regulations pertaining to Groundwater Replenishment Reuse Projects (GRRP), which can be found in Title 22 California Code of Regulations, Division 4, Chapter 3. Article 5.1 "Indirect Potable Reuse: Groundwater Replenishment - Surface Application" found in Sections §60320.100 through 60320.130. Pursuant to the new GRRP regulations, additional monitoring and reporting began in 3Q15.

The DDW GRRP regulations require that all GRRPs permitted prior to June 18, 2014 submit a report to the DDW and Regional Board to assess compliance of the existing permit in alignment with the GRRP requirements. The IEUA submitted the Compliance Assessment Report (CAR) for the Chino Basin Recycled Water Groundwater Recharge Project dated June 18, 2015 and a revised CAR dated December 12, 2018. On July 25, 2019, the DDW sent a letter to IEUA with their comments on the CAR. The DDW granted a deadline extension for IEUA to submit responses in an October 21, 2019 email. IEUA responded to the DDW comment letter on November 27, 2019.

E. Outline of the Quarterly Report

Section 2 of this quarterly report discusses the water quality monitoring results for recycled water recharge (water recycling plant effluent, distribution system, basin surface water, and lysimeter data), diluent water, and groundwater. Section 3 provides an overview of recharge operations including the volume of diluent water and recycled water recharged. Section 4 describes any operational problems and preventive and/or corrective actions taken. Section 5 contains the certification of non-pumping in the 500-foot buffer zones around each basin. Section 6 is a brief overview of the Monte Vista Water District's (MVWD) Aquifer Storage and Recovery (ASR) project.

2. Monitoring Results

A. Recycled Water: RP-1 and RP-4

The requirements for recycled water monitoring are described in the MRP. Tables 2-1 through 2-4 include all of the requisite 1Q22 data.

Recycled Water Specifications A.5 through A.9 in the Order are the narrative limits established in the permit. The corresponding monitoring data used to determine compliance with the Order are presented in Tables 2-1 and 2-2. The monitoring data in Table 2-1 is collected from samples of RP-1 and RP-4 effluent; however, recycled water compliance with the total nitrogen (TN) limit of 5 mg/L (Specification A.7) can also be met at the lysimeters (Table 2-5a) or at locations specified in alternative monitoring plans (Table 2-5b, and discussed in further detail in Section 2.C). During 1Q22, there were no exceedances of the TN limit. Table 2-2 shows the agency-wide monthly and 12-month running average concentrations for Total Inorganic Nitrogen (TIN) and Total Dissolved Solids (TDS). TDS and TIN were not exceeded during 1Q22.

Recycled Water Specifications A.1 through A.4 of the Order are numerical limits based on the Federal and State primary maximum contaminant levels (MCLs), secondary MCLs, and Action Levels. Recycled Water Specification A.15 is a numerical limit for oil and grease.

Table 2-3a shows the results for the DDW approved sample location representative of the recycled water blend from RP-1 and RP-4 used for recharge located at the RP-4 1299 Pressure Zone Pump Station (RW Blend). Table 2-3b shows results for the RP-1 001B effluent. During the CAR review, DDW identified that 001B effluent must be sampled and reported independently of the RW Blend.

In the Order, compliance for all constituents with MCLs or Action Levels is based on a 4-quarter running average (Recycled Water Specifications A.1 through A.4). Table 2-3a (RW Blend) and Table 2-3b (RP-1 001B effluent) summarize the 4-quarter running average concentration for each parameter from 2Q21 through 1Q22 and lists the corresponding compliance limits.

Although the RW Blend sample from the RP-4 1299 Pump Station is a suitable sample location for most constituents in recycled water, it is not appropriate for Total Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5). Compliance samples for these compounds are taken from lysimeters or monitoring wells at basins actively receiving recycled water. At these locations, the samples better represent the compounds present in the recycled water prior to reaching the groundwater table, as the concentrations of these constituents change through the recharge process. Once a quarter, a representative sample is collected from a selected compliance lysimeter/monitoring well and analyzed for these compounds. For the 1Q22 sampling for these compounds, IEUA chose the San Sevaine Basins 1 through 3 mound monitoring well (SSV-2) as the compliance point. SSV-2 was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present based on electrical conductivity (EC) measurements. The selection of a monitoring well during 1Q22 as a compliance point instead of a lysimeter was due to sporadic rain events that resulted in the lysimeter well not being representative of the recycled water applied during the quarter.

Tables 2-4a (RW Blend) and 2-4b (RP-1 001B Effluent) summarize the quarterly monitoring results of recycled water for constituents with no MCLs or Action Levels; this includes priority pollutants, chemicals of emerging concern (CECs), and chemicals with state notification levels.

Note that in Tables 2-4a and 2-4b there is a section named "Health-based and performance indicator CECs for Surface Application", which includes CECs listed as monitoring requirements in the State Water Resources Control Board's (State Water Board) amendment to the Policy for Water Quality Control for Recycled Water (Recycled Water Policy) adopted on December 11, 2018, and effective as of April 8, 2019. The amendment included updates to the CECs monitoring list based on the 2018 Science Advisory Panel recommendations.

There were no exceedances for the parameters analyzed during 1Q22 in the following categories: primary MCLs for inorganic chemicals; volatile organic compounds (VOCs), with the exception of 1,2,3-Trichloropropane (1,2,3-TCP); non-volatile synthetic organic chemicals (SOCs); radionuclides; disinfection byproducts; action levels for lead and copper; notification level chemicals (NLs), with the exception of Perfluorooctanoic acid (PFOA); and secondary MCLs for required constituents. 1,2,3-TCP and PFOA exceedances are detailed below:

1,2,3-TCP

In September 2019, 1,2,3-TCP was detected above the MCL of 0.005 μ g/L at both the RW Blend and 001B Effluent recycled water locations and accelerated weekly sampling for 1,2,3-TCP continued through 2Q20 until 1,2,3-TCP was found to be below the MCL. During 2Q21, 1,2,3-TCP was detected again above the MCL at both the RW Blend and 001B Effluent. A confirmation sample was collected within 72 hours of notification of the first results, and in accordance with \$60320.112(d)(2)\$, weekly sampling began on <math>06/18/21.

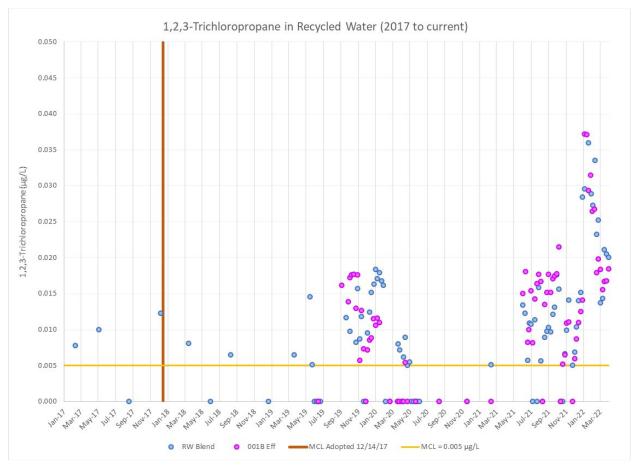
The 1,2,3-TCP results from 2Q21 through 1Q22 and a chart of 1,2,3-TCP results are shown below:

		RW Blend	4-week avg
Sample	Date	(µg/L)	(μg/L)
Original	06/01/21	0.013	
Confirmation	06/09/21	0.012	
Week 1	06/18/21	0.006	
Week 2	06/23/21	0.011	
Week 3	06/29/21	0.011	
Week 4	07/06/21	<0.005	0.007
Week 5	07/13/21	0.011	0.008
Week 6	07/20/21	<0.005	0.006
Week 7	07/27/21	0.016	0.007
Week 8	08/03/21	0.006	0.008
Week 9	08/10/21	<0.005	0.005
Week 10	08/17/21	0.009	0.008
Week 11	08/24/21	0.010	0.006
Week 12	08/31/21	0.010	0.007
Week 13	09/07/21	0.010	0.010
Week 14	09/14/21	0.012	0.010
Week 15	09/21/21	0.013	0.011
Week 16	09/28/21	0.018	0.013
Week 17	10/05/21	0.016	0.015
Week 18	10/12/21	<0.005	0.012
Week 19	10/19/21	<0.005	0.008
Week 20	10/26/21	0.007	0.006
Week 21	11/02/21	0.010	0.004
Week 22	11/09/21	0.014	0.008
Week 23	11/16/21	0.006	0.009
Week 24	11/23/21	0.005	0.009
Week 25	11/30/21	0.007	0.008
Week 26	12/07/21	0.010	0.007
Week 27	12/14/21	0.014	0.009
Week 28	12/21/21	0.015	0.012
Week 29	12/28/21	0.028	0.017
Week 30	01/04/22	0.030	0.022
Week 31	01/11/22	0.053	0.032
Week 32	01/18/22	0.036	0.037
Week 33	01/27/22	0.029	0.037
Week 34	02/02/22	0.027	0.036
Week 35	02/09/22	0.034	0.031
Week 36	02/15/22	0.023	0.028
Week 37	02/22/22	0.025	0.027

		001B Eff	4-week avg
Sample	Date	(μg/L)	(μg/L)
Original	06/01/21	0.015	
Confirmation	06/09/21	0.018	
Week 1	06/18/21	0.008	
Week 2	06/23/21	0.010	
Week 3	06/29/21	0.015	
Week 4	07/06/21	0.008	0.010
Week 5	07/13/21	0.014	0.012
Week 6	07/20/21	0.016	0.014
Week 7	07/27/21	0.018	0.014
Week 8	08/03/21	0.017	0.016
Week 9	08/10/21	<0.005	0.013
Week 10	08/17/21	0.014	0.012
Week 11	08/24/21	0.015	0.011
Week 12	08/31/21	0.018	0.012
Week 13	09/07/21	0.015	0.015
Week 14	09/14/21	0.017	0.016
Week 15	09/21/21	0.018	0.017
Week 16	09/28/21	0.018	0.017
Week 17	10/05/21	0.022	0.018
Week 18	10/12/21	<0.005	0.014
Week 19	10/19/21	0.005	0.011
Week 20	10/26/21	0.006	0.008
Week 21	11/02/21	0.011	0.006
Week 22	11/09/21	0.011	0.008
Week 23	11/16/21	0.011	0.010
Week 24	11/23/21	<0.005	0.008
Week 25	11/30/21	0.006	0.007
Week 26	12/07/21	0.009	0.006
Week 27	12/14/21	0.011	0.006
Week 28	12/21/21	0.013	0.010
Week 29	12/28/21	0.014	0.012
Week 30	01/04/22	0.037	0.019
Week 31	01/11/22	0.037	0.025
Week 32	01/18/22	0.029	0.029
Week 33	01/25/22	0.032	0.034
Week 34	02/01/22	0.026	0.031
Week 35	02/08/22	0.027	0.029
Week 36	02/15/22	0.018	0.026
Week 37	02/22/22	0.020	0.023

		RW Blend	4-week avg
Sample	Date	(μg/L)	(μg/L)
Week 38	03/01/22	0.014	0.024
Week 39	03/08/22	0.014	0.019
Week 40	03/15/22	0.021	0.019
Week 41	03/22/22	0.021	0.017
Week 42	03/29/22	0.020	0.019

Sample	Date	001B Eff (μg/L)	4-week avg (μg/L)
Week 38	03/01/22	0.018	0.021
Week 39	03/08/22	0.016	0.018
Week 40	03/15/22	0.017	0.018
Week 41	03/22/22	0.017	0.017
Week 42	03/29/22	0.018	0.017
Week 40 Week 41	03/15/22	0.017 0.017	0.018



- In accordance with §60320.112(d)(2), "the GRRP shall initiate weekly monitoring for the contaminant until the running four-week average no longer exceeds the contaminant's MCL."
- §60320.112(d)(2)(A) states that "If the running four-week average exceeds the contaminant's MCL, a project sponsor shall describe the reason(s) for the exceedance and provide a schedule for completion of corrective actions in a report submitted to the Department and Regional Board no later than 45 days following the quarter in which the exceedance occurred."
- During a meeting with the DDW and Regional Board on July 15, 2021, Faraz Asad (DDW) requested that a revised corrective action report from the one submitted to the DDW and Regional Board on February 13, 2020 be prepared and submitted. IEUA continues to exceed the MCL after accelerated monitoring was implemented and the corrective actions report was submitted to the DDW and the Regional Board on Thursday, August 12, 2021.
- IEUA has been actively implementing the corrective actions, which includes evaluations of monitoring wells, lysimeters, source control, and the analysis method, and an investigation of disinfection

byproducts. IEUA has contracted with Trussell Technologies on October 5, 2021 to assist with the investigation of 1,2,3-TCP and possible mitigation measures. As of January 2022, the project team has identified the potential strategies to carry out the 1,2,3-TCP investigation. A 1,2,3-TCP method assessment plan was submitted to DDW and RWQCB for their review and comment on March 22, 2022 and the last set of comments were received on April 27, 2022. Trussell Technologies is currently revising the plan for resubmittal.

PFOA

In August 2019, the NL for PFOA was lowered from 14 ng/L to 5.1 ng/L and the NL for Perfluorooctanesulfonic acid (PFOS) was lowered from 13 ng/L to 6.5 ng/L. PFOS concentrations have never exceeded the NL in the recycled water. However, since the NLs were lowered during 3Q19, PFOA concentrations in the recycled water have exceeded the NL at both the RW Blend and 001B Effluent sample locations. No confirmation sample was collected within 72 hours of notification of the first results in exceedance, and in accordance with §60320.120(b) weekly sampling began on 10/24/19.

- §60320.120(b)(1) states that "If the running four-week average exceeds the contaminant's NL, a project sponsor shall describe the reason(s) for the exceedance and provide a schedule for completion of corrective actions in a report submitted to the Regional Board no later than 45 days following the quarter in which the exceedance occurred, with a copy concurrently provided to the Department." IEUA continued to exceed the four-week average after accelerated monitoring was implemented and the corrective actions report was submitted to the DDW and the Regional Board on February 13, 2020.
- IEUA completed the sixteen consecutive weeks of sampling the RW Blend and 001B Effluent per §60320.120(b)(2) during 1Q20 and notified the DDW and the Regional Board after the final results were received. Notifications of exceedance were emailed to the Regional Board and DDW on February 25, 2020 for the RW Blend and on March 5, 2020 for the 001B Effluent.
- In a March 5, 2020 email, DDW stated that IEUA needs to continue with weekly samples for PFOA in the recycled water. Weekly sampling was reinitiated during the third week of March 2020.
- At time of reporting, IEUA is awaiting the reevaluation of the request to reduce the PFOA monitoring frequency from weekly to monthly. During an August 5, 2021 meeting, the DDW and the Regional Board requested additional information and a revised PFOA corrective actions report, which was submitted to both regulatory agencies on November 3, 2021.
- A follow-up meeting took place on February 28, 2022 and the DDW requested additional information on dry weather flow diversions. A revised corrective actions report was submitted to the DDW and RWQCB on May 2, 2022.

The PFOA results from 3Q19 to 1Q22 and a chart of PFOA results are shown below:

Sample	Date	RW Blend (ng/L)	4-week avg (ng/L)
Original	09/18/19	6.5	
Confirmation			
Week 1	10/24/19	7.8	
Week 2	10/29/19	11	
Week 3	11/12/19	13	
Week 4	11/12/19	13	11
Week 5	11/19/19	11	12
Week 6	11/26/19	12	12
Week 7	12/03/19	10	12

Sample	Date	001B Eff (ng/L)	4-week avg (ng/L)
Original	08/28/19	6.2	1
Confirmation			
Week 1	10/24/19	6.9	
Week 2	10/29/19	6.3	
Week 3	11/06/19	8.6	
Week 4	11/12/19	7.8	7.4
Week 5	11/19/19	7.7	7.6
Week 6	11/26/19	7.3	7.9
Week 7	12/03/19	9.0	8.0

		RW Blend	4 week ava
Sample	Date	(ng/L)	4-week avg (ng/L)
Week 8	12/10/19	11	11
Week 9	12/17/19	10	11
Week 10	12/26/19	8.7	9.9
Week 11	12/31/19	9.5	9.8
Week 12	01/09/20	9.1	9.3
Week 13	01/14/20	12	9.8
Week 14	01/21/20	10	10
Week 15	01/28/20	11	11
Week 16	02/04/20	14	12
Continued	03/19/20	13	12
Continued	03/26/20	12	13
Continued	04/02/20	14	13
Continued	04/07/20	13	13
Continued	04/14/20	12	13
Continued	04/21/20	14	13
Continued	04/28/20	12	13
Continued	05/05/20	18	13
Continued	05/12/20	14	14
Continued	05/19/20	8.9	15
Continued	05/26/20	10	13
Continued	06/02/20	12	13
Continued	06/09/20	12	11
Continued	06/16/20	10	11
Continued	06/23/20	12	11
Continued	06/30/20	12	12
Continued	07/07/20	12	12
Continued	07/14/20	9.1	12
Continued	07/21/20	8.6	10
Continued	07/28/20	10	9.9
Continued	08/04/20	7.8	8.9
Continued	08/11/20	8.7	8.8
Continued	08/18/20	8.3	8.7
Continued	08/25/20	8.6	8.4
Continued	09/01/20	11	9.2
Continued	09/08/20	12	10
Continued	09/15/20	13	11
Continued	09/22/20	8.7	11
Continued	09/29/20	8.7	11
Continued	10/06/20	13	11
Continued	10/13/20	15	12

Sample	Date	001B Eff (ng/L)	4-week avg (ng/L)
Week 8	12/10/19	11	8.8
Week 9	12/17/19	7.0	8.6
Week 10	12/24/19	6.4	8.4
Week 11	12/31/19	6.0	7.6
Week 12	01/09/20	6.1	6.4
Week 13	01/14/20	5.6	6.0
Week 14	01/21/20	5.0	5.9
Week 15	02/06/20	18	8.7
Week 16	02/20/20	7.2	9.0
Continued	03/17/20	8.6	9.7
Continued	03/24/20	7.4	10
Continued	03/31/20	7.2	7.6
Continued	04/07/20	8.4	7.9
Continued	04/14/20	7.6	7.7
Continued	04/21/20	8.1	7.8
Continued	04/28/20	7.8	8.0
Continued	05/05/20	8.5	8.0
Continued	05/12/20	7.3	7.9
Continued	05/19/20	7.5	7.8
Continued	05/26/20	6.8	7.5
Continued	06/02/20	7.1	7.2
Continued	06/09/20	6.9	7.1
Continued	06/16/20	7.2	7.0
Continued	06/23/20	7.2	7.1
Continued	06/30/20	8.2	7.4
Continued	07/07/20	7.2	7.5
Continued	07/14/20	6.4	7.3
Continued	07/21/20	7.8	7.4
Continued	07/28/20	9.0	7.6
Continued	08/04/20	7.0	7.6
Continued	08/11/20	7.5	7.8
Continued	08/18/20	5.9	7.4
Continued	08/25/20	7.5	7.0
Continued	09/01/20	7.7	7.2
Continued	09/08/20	6.7	7.0
Continued	09/15/20	7.2	7.3
Continued	09/22/20	7.0	7.2
Continued	09/29/20	8.0	7.2
Continued	10/06/20	6.8	7.3
Continued	10/13/20	9.3	7.8

		RW Blend	4-week avg
Sample	Date	(ng/L)	(ng/L)
Continued	10/20/20	11	13
Continued	10/28/20	12	13
Continued	11/03/20	14	13
Continued	11/11/20	8.5	11
Continued	11/17/20	12	12
Continued	11/24/20	12	12
Continued	12/01/20	13	11
Continued	12/08/20	18	14
Continued	12/15/20	13	14
Continued	12/22/20	12	14
Continued	12/29/20	19	16
Continued	01/05/21	12	14
Continued	01/12/21	9.4	13
Continued	01/26/21	14	14
Continued	02/02/21	14	12
Continued	02/09/21	16	13
Continued	02/16/21	15	15
Continued	02/23/21	12	14
Continued	03/02/21	14	14
Continued	03/09/21	12	13
Continued	03/16/21	13	13
Continued	04/06/21	12	11
Continued	04/20/21	14	11
Continued	04/13/21	8.1	11
Continued	04/27/21	11	11
Continued	05/03/21	11	11
Continued	05/11/21	10	10
Continued	05/18/21	12	11
Continued	05/25/21	12	11
Continued	06/01/21	13	12
Continued	06/08/21	7.4	11
Continued	06/15/21	13	11
Continued	06/22/21	11	11
Continued	06/29/21	11	11
Continued	07/06/21	12	12
Continued	07/13/21	14	12
Continued	07/20/21	7.4	11
Continued	07/27/21	10	11
Continued	08/03/21	8.0	10
Continued	08/10/21	9.1	8.6
	·	I.	ı

Sample	Date	001B Eff (ng/L)	4-week avg (ng/L)
Continued	10/20/20	8.4	8.1
Continued	10/27/20	8.5	8.3
Continued	11/03/20	8.4	8.7
Continued	11/11/20	7.7	8.3
Continued	11/24/20	8.7	8.3
Continued	12/01/20	7.7	8.1
Continued	12/08/20	8.2	8.1
Continued	12/15/20	6.5	7.8
Continued	12/22/20	6.9	7.3
Continued	12/29/20	8.9	7.6
Continued	01/05/21	6.7	7.3
Continued	01/12/21	5.5	7.0
Continued	01/26/21	7.1	7.1
Continued	02/02/21	6.4	6.4
Continued	02/09/21	8.2	6.8
Continued	02/16/21	8.5	7.6
Continued	02/23/21	7.2	7.6
Continued	03/02/21	6.1	7.5
Continued	03/09/21	7.6	7.4
Continued	03/16/21	7.4	7.1
Continued	03/23/21	7.3	7.1
Continued	04/06/21	7.8	7.5
Continued	04/20/21	8.8	7.8
Continued	04/13/21	8.1	8.0
Continued	04/27/21	7.3	8.0
Continued	05/03/21	8.0	8.1
Continued	05/11/21	7.9	7.8
Continued	05/18/21	8.6	8.0
Continued	05/25/21	8.2	8.2
Continued	06/01/21	7.5	8.1
Continued	06/08/21	7.6	8.0
Continued	06/15/21	8.3	7.9
Continued	06/22/21	8.4	8.0
Continued	06/29/21	8.2	8.1
Continued	07/06/21	7.4	8.1
Continued	07/13/21	7.5	7.9
Continued	07/20/21	6.5	7.4
Continued	07/27/21	8.1	7.4
Continued	08/03/21	7.6	7.4
Continued	08/10/21	8.6	7.7

Sample	Date	RW Blend (ng/L)	4-week avg (ng/L)
Continued	08/17/21	9.5	9.2
Continued	08/24/21	10	9.2
Continued	08/24/21	9.5	10
Continued	09/07/21	7.9	9.2
	, ,		
Continued	09/14/21	12	10
Continued	09/21/21	10	10
Continued	09/28/21	7.4	9.3
Continued	10/05/21	7.3	9.2
Continued	10/12/21	7.8	8.1
Continued	10/19/21	10	8.1
Continued	10/26/21	12	9.3
Continued	11/02/21	8.1	9.5
Continued	11/09/21	7.5	9.4
Continued	11/17/21	6.7	8.6
Continued	11/23/21	9.5	8.0
Continued	11/30/21	9.3	8.3
Continued	12/07/21	6.1	7.9
Continued	12/14/21	11	9.0
Continued	12/21/21	11	9.4
Continued	12/28/21	11	9.8
Continued	01/04/22	10	11
Continued	01/11/22	8.8	10
Continued	01/18/22	5.9	8.9
Continued	01/27/22	7.2	8.0
Continued	02/02/22	8.8	7.7
Continued	02/09/22	13	8.7
Continued	02/15/22	10	9.8
Continued	02/22/22	9.1	10
Continued	03/01/22	10	11
Continued	03/08/22	10	9.8
Continued	03/17/22	5.7	8.7
Continued	03/23/22	8.0	8.4
Continued	03/29/22	11	8.7
	,,		

Sample	Date	001B Eff (ng/L)	4-week avg (ng/L)
Continued	08/17/21	7.0	7.8
Continued	08/24/21	6.2	7.4
Continued	08/31/21	6.8	7.2
Continued	09/07/21	6.4	6.6
Continued	09/14/21	7.9	6.8
Continued	09/21/21	7.0	7.0
Continued	09/28/21	7.2	7.1
Continued	10/05/21	7.2	7.3
Continued	10/12/21	7.0	7.1
Continued	10/19/21	7.6	7.3
Continued	10/26/21	7.8	7.4
Continued	11/02/21	7.1	7.4
Continued	11/09/21	6.9	7.4
Continued	11/17/21	7.1	7.2
Continued	11/23/21	6.8	7.0
Continued	11/30/21	6.4	6.8
Continued	12/07/21	5.6	6.5
Continued	12/14/21	5.5	6.1
Continued	12/21/21	5.7	5.8
Continued	12/28/21	6.9	5.9
Continued	01/04/22	5.9	6.0
Continued	01/11/22	6.9	6.4
Continued	01/18/22	5.8	6.4
Continued	01/25/22	5.2	6.0
Continued	02/01/22	6.0	6.0
Continued	02/08/22	5.6	5.7
Continued	02/15/22	5.8	5.7
Continued	02/22/22	6.2	5.9
Continued	03/01/22	5.6	5.8
Continued	03/08/22	5.6	5.8
Continued	03/15/22	5.5	5.7
Continued	03/22/22	6.2	5.7
Continued	03/29/22	7.6	6.2



B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analyses are performed weekly or monthly at lysimeters at some basins when recycled water is being delivered, for the determination of compliance with Recycled Water Specifications A.7 and A.9 of the Order. EC is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. Basin and lysimeter water quality results from 1Q22 are summarized in Table 2-5a. The table includes surface water and lysimeter data at the 25-foot depth for Brooks and Declez Basin. Most compliance sampling for TOC and TN of the recycled water at each basin is analyzed using alternative monitoring plans (Section 2.C) and not lysimeter data. Currently, the only lysimeter monitoring data used to assess compliance is at Brooks (TN only) and Declez Basins. There were no exceedances of TN and TOC limits at Brooks and Declez Basins based on sampling at the surface lysimeter and/or the lysimeter at 25-ft bgs. Please note that as part of the Compliance Assessment Report comments, the DDW has requested that the TN limit of 10 mg/L be met at the recycled water and not using lysimeter data or an alternative monitoring reduction factor. The recycled water monitoring has met the TN compliance for 1Q22 as demonstrated in Table 2-1.

C. Recycled Water: Alternative Monitoring Plans for TOC and TN

As indicated in Recycled Water Compliance Determination B.5 and B.6 of the Order, alternative monitoring plans to the lysimeter-based compliance sampling for TOC and TN under Recycled Water Specifications A.7 and A.9 can be established upon development of a soil-aquifer treatment factor using recharge demonstration studies. The alternative monitoring plans can be determined in the basin Start-up Period Reports or First Year Operations Reports. The alternative TOC and TN monitoring plans approved

by the Regional Board and DDW include alternative monitoring locations that include: sampling at a recycled water distribution turnout with the application of a correction factor; monitoring at one basin lysimeter; and/or monitoring at a basin monitoring well. The following are the alternative monitoring plans for each basin:

- Banana Basin: Sampling at the RW Blend with a correction factor of 80 percent for TOC and 47 percent for TN
- Hickory Basin: Sampling at the RW Blend with a correction factor of 81 percent for TOC and 27 percent for TN
- Turner Basins 1 & 2: Sampling at the RW Blend with a correction factor of 70 percent for TOC and 87 percent for TN
- Turner Basins 3 & 4: Sampling at the RW Blend with a correction factor of 85 percent for TOC and 87 percent for TN
- Ely Basins: Sampling 001B Effluent with a correction factor of 76 percent for TOC and 52 percent for TN
- RP3 Basin: Sampling at the RW Blend with a correction factor of 88 percent for TOC and 31 percent for TN
- 7th & 8th Street Basin: Sampling at the RW Blend with a correction factor of 88 percent for TOC and 75 percent for TN
- Victoria Basin: Sampling at the RW Blend with a correction factor of 78 percent for TOC and 82 percent for TN
- Brooks Basin: Sampling at the 25-foot lysimeter is the compliance point for TN, and sampling at well BRK-1/1 is the compliance point for TOC
- Declez Basin: Sampling at the RW Blend with a correction factor of 62 percent for TOC and 91 percent for TN
- San Sevaine Basin 1-3: Sampling at the RW Blend with a correction factor of 92 percent for TOC and 34 percent for TN. Revised start-up period report was submitted during 1Q22.

During 1Q22, there were no exceedances of TOC and TN at the basins that have implemented alternative monitoring plans.

The TOC and TN values calculated based on the alternative monitoring locations and the application of these correction factors listed above are summarized in Table 2-5b. As part of the CAR review, the DDW identified that the TN limit could not be met using a reduction factor we had previously established for alternative monitoring. The DDW clarified that the 10 mg/L TN limit from the GRRP regulations would need to be met at the recycled water. However, due to ongoing work with the Regional Board, the alternative monitoring using the reduction factor will continue to be reported for the Regional Board.

Table 2-6 is a compliance summary table for RWC, TOC average, and TN compliance. It includes the following: when the basin started receiving recycled water, when the startup period was completed, the RWC limit, the current RWC, the current TOC average limit (based on Recycled Water Specification A.10), the calculated monthly TOC averages, compliance with the TN limit, and recharged water monitoring plans for TOC and TN.

In June 2015, the DDW issued a letter that approved the request for 50% RWC for most of the GWR basins, with the exception of San Sevaine 5 (no longer being recharged with recycled water) and Turner Basins. The letter stated that based on the data that was provided: "For most of the recharge basins, the data does show an increasing amount of EC and chloride in the mound monitoring wells over time,

indicating that recycled water is reaching the mound. Corresponding TOC data from the mound monitoring wells also show a consistent TOC level of less than 1.0 mg/L when recycled water is present; therefore, increasing the RWC limit to 50 percent for some basins is justified."

D. Diluent Water

In addition to recycled water recharge, the two other recharge water sources are imported water and stormwater / local runoff; these two types of water are considered diluent water. Imported water and stormwater / local runoff must be sampled quarterly in accordance with the DDW-approved Diluent Water Monitoring Plan.

Details on the methods used to measure daily diluent water flow and diluent water monitoring schedule can be found in the Diluent Water Monitoring Plan. The quarterly sampling schedule for stormwater and local runoff is presented in Table 4-2 of the plan. Stormwater is sampled during the rainy season (1st and 4th quarters) and local runoff is sampled during the dry season (2nd and 3rd quarters). Samples are collected at about half the locations during each seasonal quarter, alternating between even and odd years. Table 5-1 of the plan summarizes the sample type and reporting frequency for the parameters listed in Tables I, II, III, and IV of the Diluent Water Monitoring requirement III.3 of the MRP. For 1Q22, diluent water quality sampling of four storm water sites were conducted in February 2022 and one local runoff site was conducted in March 2022. Table 2-7a lists the results of the local runoff and stormwater sampling and analyses. The maximum level to trigger a source water evaluation has been exceeded the primary MCL for aluminum and combined Radium-226 & Radium 228; secondary MCLs for aluminum and iron; and the notification level for PFOA and chlorate. IEUA has submitted a preliminary evaluation of potential source for all the contaminants where concentrations exceed the maximum level to trigger a source evaluation as part of the CAR and is awaiting a response from DDW regarding the need to complete a source water evaluation.

Table 2-7b lists the results from Metropolitan Water District's (MWD) general mineral and physical analysis of source water from Silverwood Lake.

E. Groundwater Monitoring Wells

Monitoring is conducted at groundwater monitoring wells quarterly and annually to evaluate groundwater quality conditions in the vicinity of the recharge basins utilizing recycled water. Groundwater monitoring results can be used to assess background conditions, time the arrival of recharge waters, and the impact that recharged water has on downgradient water supplies. The wells in the monitoring well networks for Hickory and Banana, Turner, Declez, RP3, 7th & 8th Street, Brooks, San Sevaine, Victoria, and Ely Basins are summarized in Table 2-8, and presented on Figures 2-1 through 2-7, respectively. Groundwater quality samples are collected and tested quarterly for all constituents listed in Table 1 of Section V in the MRP R8-2007-0039, and annually for constituents specified in the Phase II Findings of Fact, Attachment A in the permit (Bullet 27 in the Conditions Section). The groundwater constituents analyzed from the monitoring wells during quarterly monitoring are presented in Table 2-9.

Any 1Q22 sample which exceeded primary or secondary MCLs are shown in Table 2-9 in magenta (primary MCL) and green (secondary MCL) bold italic font. The DDW is notified within 48 hours of receiving the results for primary MCL exceedances or coliform presence at active municipal drinking water wells. Exceedances of primary MCLs and coliform presence at non-drinking water monitoring wells and all secondary MCL exceedances are not reported to the DDW but are reported in the quarterly reports. In 1Q22, the following constituents were detected above the MCLs:

Primary MCL Exceedance

• NO3-N samples collected from monitoring wells at RP3, 7th & 8th Street, Brooks, Ely, and Victoria Basins were detected above the primary MCL of 10 mg/L. The NO₃-N concentrations

at these wells range from 11 to 22 mg/L and are characteristic of groundwater quality in these areas of the Chino Basin. The distribution of NO₃-N concentrations observed at wells in the Chino Basin is summarized in Watermaster's State of the Basin Reports. No notifications were made to the DDW as these high NO₃-N concentrations are comparable to the ambient NO₃-N concentration in groundwater for each monitoring well's respective groundwater management zone within the Chino Basin.

Secondary MCL Exceedances

- Turbidity was higher than the MCL of 5 NTU at Alcoa MW1, 8TH-1/1, 8TH-1/2, 8TH-2/2, and SSV-2.
- Color was higher than the MCL of 15 units at Alcoa MW1 and 8TH-1/2.
- Iron was higher than the MCL of 300 µg/L at Alcoa MW1.
- Manganese was higher than the MCL of 50 µg/L at RP3-1/1 and DCZ-1/1.
- TDS and EC were higher than their MCLs of 500 mg/L and 900 µmhos/cm, respectively, in Alcoa MW3 and Southridge JHS. The wells near the RP3 Basins are located in areas where the TDS and EC concentrations in groundwater are historically elevated. The distribution of TDS concentrations observed at wells in the Chino Basin is summarized in Watermaster's State of the Basin Reports.

The current State of the Basin Report, which is the "Chino Basin Optimum Basin Management Program 2020 State of the Basin Report" published in June 2021 was prepared by West Yost Associates for the CBWM. The 2020 State of the Basin report can be downloaded from CBWM's website, <u>www.cbwm.org</u>.

The 2014 GRRP regulations require two downgradient monitoring wells to be monitored quarterly for Priority Toxic Pollutants, and that the wells are located (A) no less than two weeks but no more than six months of travel through the unsaturated zone affected by the project, and (B) at least 30 days upgradient of the nearest drinking water well be monitored quarterly for Priority Toxic Pollutants. The table below shows the monitoring wells that meet the (A) and (B) criteria specified above.

Basins	Monitoring Well (A)	Monitoring Well (B)
7 th & 8 th Street	8TH-1/2	8TH-2/1
Banana & Hickory	BH-1/2	Reliant Energy – East Well (currently out of service)
Brooks	BRK-1/1	BRK-2/1
Ely	Ely MW1 (currently out of service)	Ely MW2
RP3	RP3-1/1	Southridge JHS
Turner	T-1/2	T-2/2
Victoria & San Sevaine	SSV-2 & VCT-1/1	VCT-2/1
Declez	DCZ-1/1	DCZ-2

3. Recharge Operations

IEUA's GWR staff records the daily volumes of water routed to the recharge basins. The 7th & 8th Street, Banana, Brooks, Declez, Hickory, Ely, RP3, San Sevaine, Turner, and Victoria Basins received recycled water this quarter. Table 3-1 lists the volumes of recycled water and diluent water (local runoff, stormwater, and/or imported water) captured during the most recent four quarters at the basins that have initiated recharge using recycled water.

4. Operational Problems & Preventive or Corrective Actions

No operational problems were encountered this quarter; therefore, no corrective actions were necessary for the following: Regional Water Recycling Facilities - RP-1 & RP-4 and recharge operations.

Several monitoring wells were not sampled during 1Q22: Ely MW1 well is damaged and requires replacement; Ontario Well 25 was taken out of service indefinitely by the DDW; Pomona Well 34 was having issues that were not resolved during 1Q22; and JCSD 17 is out of service due to water quality issues.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q22 for domestic or municipal use from the buffer zones that extend 500 feet and 6 months underground travel time from the 7th & 8th Street, Banana, Brooks, Declez, Ely, Hickory, RP3, San Sevaine, Turner, and Victoria Basins. In fact, there are no domestic or municipal production wells within the buffer zones of these aforementioned recharge sites.

IEUA continues to work with the San Bernardino County Department of Environmental Health Services (SBCDEHS) to prevent the drilling and construction of new drinking water wells within the buffer zones. SBCDEHS has initiated control over production well permitting within the buffer zones of all recharge sites through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section/40-acre Parcel) that is used in the permitting process. SBCDEHS reviews new well permit applications, in part, by checking the proposed location of a new drinking water well against recharge basin location maps and parcel lists, both provided by IEUA. The maps and lists show township/range/section parcels (40-acre parcels) that abut recharge basins and their 500-foot buffers.

If a proposed well falls within an abutting parcel, SBCDEHS will review the well location using maps of the basins and buffer zones. If the well falls too near the buffer zone boundary for SBCDEHS to determine the relationship of the proposed well location to the buffer boundary, SBCDEHS will defer to IEUA for a prompt field review of the proposed well location. The field review may include contacting and having the well applicant identify the exact location of the proposed well casing. To conduct a detailed field review, SBCDEHS will contact and provide the IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a timeline for the completion of IEUA's review. Following the review, IEUA will notify SBCDEHS of its findings in writing. IEUA will also notify the DDW and the Regional Board of well permit applications that it recommends should be declined due to well locations determined to fall with a 500-foot buffer zone.

6. MVWD ASR Project

Reporting for the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project was allowed by the Regional Board to be included under IEUA/Watermaster Phase I Groundwater Recharge Order No. R8-2005-0033 and subsequent permit updates. In April 2007, MVWD, Watermaster, and IEUA entered into an agreement to report the MVWD ASR project groundwater injection/recovery volumes and TIN/TDS mass balance in the recharge program quarterly reports. Initial injection began in June 2007. Injection activities have been periodic since the program began in 2007. There was not injection during the last year from 2Q21 to 1Q22. Table 6-1 summarizes the monthly volumes and TIN/TDS of injected and recovered water. The table also includes the mass balance of TIN/TDS from the injection-recovery cycles for 2Q21 to 1Q22.

Table 2-1a

Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for January 2022
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

					RF	-1 Effluen	t								RP	-4 Effluent	t			
	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC 7	TDS ³	Hardness	Coliform 1,2,4	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS ³	Hardness	Coliform 1,2,4
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵	, in the second	10/5 ⁶	Ü	6 <ph<9< th=""><th></th><th></th><th>Ü</th><th>2.2;23;240</th><th>2;5;10</th><th>16 ⁵</th><th>, in the second</th><th>10 / 5 ⁶</th><th>Ü</th><th>6<ph<9< th=""><th></th><th>J</th><th>ŭ</th><th>2.2;23;240</th></ph<9<></th></ph<9<>			Ü	2.2;23;240	2;5;10	16 ⁵	, in the second	10 / 5 ⁶	Ü	6 <ph<9< th=""><th></th><th>J</th><th>ŭ</th><th>2.2;23;240</th></ph<9<>		J	ŭ	2.2;23;240
01/01/22	0.7	7.0				6.9	692			<1	0.4	5.4				7.1	756			<1
01/02/22	0.8	7.4	5.0	5.0	5.0	6.9	690	440		<1	0.4	5.9	3.5	4.0	3.5	7.0	756	448		<1
01/03/22	0.8	7.4				6.8	697			1	0.4	6.0				7.0	761			1
01/04/22	0.7	7.4				6.8	746			<1	0.4	5.8				7.0	760			<1
01/05/22	0.7	7.3	3.5		3.5	6.8	775			<1	0.4	5.6	4.1		4.2	7.0	757			<1
01/06/22	0.7	7.2				6.8	773			1	0.4	5.7				7.0	758			<1
01/07/22	0.6	6.9				6.9	772			<1	0.5	5.7				7.0	762			<1
01/08/22	0.6	7.0				6.9	779			<1	0.4	5.6				7.0	760			<1
01/09/22	0.5	7.1	3.7	3.7	3.7	6.9	775	464	147	1	0.4	6.1	3.5	4.2	3.5	7.0	762	472	137	<1
01/10/22	0.4	7.1				6.9	729			<1	0.5	6.1				7.0	764			<1
01/11/22	0.5	7.0				6.9	723			<1	0.6	6.2				7.0	772			<1
01/12/22	0.5	7.1	3.4		3.5	6.9	725			<1	0.5	5.9	4.0		4.0	7.0	751			<1
01/13/22	0.5	6.8				6.9	740			<1	0.5	6.0				7.0	756			<1
01/14/22	0.5	6.9				6.9	753			<1	0.5	5.7				7.0	770			<1
01/15/22	0.6	7.1				6.9	747			<1	0.4	5.7				7.0	767			<1
01/16/22	0.6	7.7	3.0	3.0	3.0	6.9	735	460		<1	0.4	6.1	3.8	4.5	3.9	7.0	766	446		<1
01/17/22	0.7	7.7				6.9	747			<1	0.4	6.2				7.0	765			<1
01/18/22	0.7	7.8				6.9	748			<1	0.5	6.4				7.1	763			<1
01/19/22	0.8	7.9	2.9		2.9	6.9	727			<1	0.5	6.0	4.4		4.4	7.0	765			<1
01/20/22	0.9	7.5				6.9	743			1	0.5	5.6				7.0	769			<1
01/21/22	0.9	8.0				6.9	746			<1	0.5	5.7				7.0	760			<1
01/22/22	0.9	8.1				7.0	748			<1	0.4	5.8				7.1	757			<1
01/23/22	1.0	8.0	3.7	3.7	3.7	6.9	724	452		<1	0.4	6.0	4.0	4.7	4.0	7.0	759	454		<1
01/24/22	1.1	8.0				6.9	708			3	0.5	6.1				7.0	754			<1
01/25/22	1.1	7.9				6.9	694			<1	0.5	6.0				7.0	755			<1
01/26/22	1.1	7.9	4.0		4.0	6.8	762			<1	0.5	5.8	4.7		4.8	7.1	743			<1
01/27/22	0.9	7.6				6.8	715			<1	0.5	5.7				7.0	738			<1
01/28/22	0.9	7.1				6.8	708			<1	0.5	5.6				7.1	752			<1
01/29/22	0.9	7.0				6.8	708			<1	0.5	5.6				7.0	770			<1
01/30/22	0.9	7.3	4.1	4.1	4.1	6.8	708	460		<1	0.5	6.0	3.7	4.2	3.8	7.1	773	468		<1
01/31/22	0.8	7.8				6.8	728			<1	0.5	6.2				7.1	769			<1
Avg	0.7	7.4	3.7	3.9	3.7	6.9	734	455	147	<1	0.5	5.9	4.0	4.3	4.0	7.0	760	458	137	<1
Min	0.4	6.8	2.9	3.0	2.9	6.8	690	440	147	<1	0.4	5.4	3.5	4.0	3.5	7.0	738	446	137	<1
Max	1.1	8.1	5.0	5.0	5.0	7.0	779	464	147	3	0.6	6.4	4.7	4.7	4.8	7.1	773	472	137	1

Note: Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on the 12-month running average of the combined effluent from all plants, which are presented in Table 2-2.

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1b
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for February 2022
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

					RP	-1 Effluen	t				RP-4 Effluent									
	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC 7	TDS ³	Hardness	Coliform 1,2,4	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS ³	Hardness	Coliform 1,2,4
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		$10/5^6$		6 <ph<9< td=""><td></td><td></td><td></td><td>2.2;23;240</td><td>2;5;10</td><td>16 ⁵</td><td></td><td>10 / 5 ⁶</td><td></td><td>6<ph<9< td=""><td></td><td></td><td></td><td>2.2;23;240</td></ph<9<></td></ph<9<>				2.2;23;240	2;5;10	16 ⁵		10 / 5 ⁶		6 <ph<9< td=""><td></td><td></td><td></td><td>2.2;23;240</td></ph<9<>				2.2;23;240
02/01/22	0.6	7.3				6.9	741			<1	0.6	6.2				7.0	754			<1
02/02/22	0.6	7.0	4.3		4.3	6.9	744			<1	0.6	5.9	4.8		4.9	7.1	739			<1
02/03/22	0.6	7.1				6.9	733			<1	0.6	6.0				7.1	732			<1
02/04/22	0.6	6.7				6.9	748			1	0.5	6.0				7.1	730			<1
02/05/22	0.5	6.9				6.9	759			<1	0.5	5.9				7.1	726			1
02/06/22	0.5	7.2	3.5		3.5	6.9	753	450	153	<1	0.5	6.2	3.3	4.1	3.3	7.1	730	434	163	<1
02/07/22	0.5	7.7				6.9	749			11	0.5	6.3				7.1	739			<1
02/08/22	0.5	7.7				6.8	801			<1	0.6	6.3				7.1	746			<1
02/09/22	0.5	7.6	2.5	2.5	2.5	6.8	834			<1	0.6	6.0	4.2		4.2	7.1	746			<1
02/10/22	0.5	7.3				6.9	837			<1	0.6	6.0				7.1	725			2
02/11/22	0.5	7.0				6.9	797			2	0.5	5.8				7.1	720			<1
02/12/22	0.5	7.0				6.9	800			2	0.5	5.9				7.1	714			<1
02/13/22	0.5	7.3	2.9	2.9	2.9	6.9	788	440		<1	0.5	6.3	3.1	4.0	3.1	7.1	717	416		<1
02/14/22	0.5	7.4				6.9	799			<1	0.5	6.1				7.1	724			<1
02/15/22	0.5	7.5				6.9	745			<1	0.5	6.3				7.1	730			<1
02/16/22	0.5	7.7	2.3		2.3	6.8	693			<1	0.5	6.1	4.7		4.7	7.1	728			<1
02/17/22	0.5	8.0				6.8	708			<1	0.5	6.1				7.1	726			<1
02/18/22	0.5	7.3				6.9	697			<1	0.5	5.6				7.1	723			<1
02/19/22	0.6	7.9				6.8	757			<1	0.5	5.8				7.1	728			<1
02/20/22	0.7	8.3				6.9	727			1	0.5	5.9				7.1	739			<1
02/21/22	0.6	8.4				6.9	678			1	0.4	6.3				7.2	748			<1
02/22/22	0.6	8.0				6.9	687			<1	0.5	6.1				7.2	754			<1
02/23/22	0.6	8.0	3.1		3.1	6.9	705	460		<1	0.5	6.0	4.8	5.1	4.8	7.1	750	436		<1
02/24/22	0.6	7.4	3.0	3.0		6.9	693			<1	0.4	5.6				7.1	740			<1
02/25/22	0.6	7.5				6.9	678			<1	0.5	5.7				7.1	736			<1
02/26/22	0.6	7.9				7.0	659			<1	0.4	5.9				7.1	739			<1
02/27/22	0.6	8.3	2.6	2.6	2.6	7.0	647	440		1	0.4	6.3	4.5	4.7	4.5	7.1	740	426		<1
02/28/22	0.8	8.3				7.0	661			<1	0.5	6.5				7.1	736			<1
Avg	0.6	7.5	3.0	2.8	3.0	6.9	736	448	153	<1	0.5	6.0	4.2	4.5	4.2	7.1	734	428	163	<1
Min	0.5	6.7	2.3	2.5	2.3	6.8	647	440	153	<1	0.4	5.6	3.1	4.0	3.1	7.0	714	416	163	<1
Max	0.8	8.4	4.3	3.0	4.3	7.0	837	460	153	11	0.6	6.5	4.8	5.1	4.9	7.2	754	436	163	2

Note: Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on the 12-month running average of the combined effluent from all plants, which are presented in Table 2-2.

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1c
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for March 2022
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

					RF	P-1 Effluen	t				RP-4 Effluent									
	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC 7	TDS ³	Hardness	Coliform 1,2,4	Turbidity 1,2,7	TOC	NO ₃ -N	TN	TIN ³	pH ⁷	EC	TDS 3	Hardness	Coliform 1,2,4
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵	Ü	10/5 ⁶	Ŭ	6 <ph<9< th=""><th></th><th>Ü</th><th>Ü</th><th>2.2;23;240</th><th>2;5;10</th><th>16 ⁵</th><th>, i</th><th>10 / 5 ⁶</th><th>Ŭ</th><th>6<ph<9< th=""><th>•</th><th></th><th>ŭ</th><th>2.2;23;240</th></ph<9<></th></ph<9<>		Ü	Ü	2.2;23;240	2;5;10	16 ⁵	, i	10 / 5 ⁶	Ŭ	6 <ph<9< th=""><th>•</th><th></th><th>ŭ</th><th>2.2;23;240</th></ph<9<>	•		ŭ	2.2;23;240
03/01/22	1.0	8.2				6.9	751			<1	0.5	6.6				7.0	743			<1
03/02/22	1.0	8.0	2.7		2.7	6.9	766			<1	0.5	6.2	3.9		3.9	7.0	746			<1
03/03/22	0.9	8.1				7.0	758			<1	0.5	6.4				7.1	754			<1
03/04/22	0.8	7.3				7.0	742			2	0.5	6.0				7.1	746			<1
03/05/22	0.7	7.6				7.0	752			<1	0.4	5.9				7.1	735			<1
03/06/22	0.7	7.8	4.8	4.8	4.8	7.0	736	436	151	1	0.4	6.4	4.5	5.0	4.5	7.1	733	440	141	<1
03/07/22	0.7	7.3				7.0	727			<1	0.5	6.1				7.1	709			1
03/08/22	0.7	7.2				6.8	791			1	0.5	5.7				7.1	718			<1
03/09/22	0.7	7.4	3.9		3.9	6.7	868			<1	0.5	5.8	4.6		4.7	7.1	714			<1
03/10/22	0.7	7.2				6.8	828			<1	0.5	5.9				7.1	709			<1
03/11/22	0.7	6.4				6.9	811			<1	0.5	5.2				7.1	710			<1
03/12/22	0.7	6.8				6.9	792			<1	0.5	5.8				7.1	711			<1
03/13/22	0.6	7.1	4.0	4.0	4.0	7.0	718	432		<1	0.5	6.2	4.2	4.9	4.2	7.1	713	436		<1
03/14/22	0.6	7.3				6.9	741			<1	0.5	6.1				7.1	712			1
03/15/22	0.6	7.7				6.9	791			<1	0.6	6.2				7.1	713			<1
03/16/22	0.6	7.3	3.8		3.8	6.9	753			<1	0.5	6.2	4.8		4.9	7.0	706			<1
03/17/22	0.6	7.3				7.0	755			1	0.5	6.0				7.0	702			<1
03/18/22	0.6	6.9				7.0	776			<1	0.5	5.9				7.0	709			<1
03/19/22	0.5	7.2				7.0	774			<1	0.5	6.0				7.1	723			<1
03/20/22	0.5	7.6	3.8	3.8	3.8	7.0	745	452		1	0.6	6.2	1.8	2.8	1.8	7.1	723	440		<1
03/21/22	0.5	7.7				7.0	736			<1	0.6	6.2				7.1	716			<1
03/22/22	0.6	7.6				6.9	855			<1	0.6	6.2				7.1	712			<1
03/23/22	0.6	7.3	2.9		3.0	6.9	928			<1	0.6	6.1	2.8		2.8	7.1	706			<1
03/24/22	0.7	7.5				6.9	911			<1	0.6	6.1				7.1	697			<1
03/25/22	0.7	7.3				6.7	1006			<1	0.6	5.3				7.1	700			<1
03/26/22	0.7	7.2				6.9	925			<1	0.6	5.9				7.1	703			<1
03/27/22	0.7	7.5	4.9	4.9	4.9	7.0	857	442		<1	0.6	6.2	3.2	3.8	3.2	7.1	705	430		<1
03/28/22	0.8	7.8				7.0	834			1	0.7	6.4				7.1	705			<1
03/29/22	0.7	7.4				6.9	773			<1	0.6	6.3				7.1	707			<1
03/30/22	0.7	7.6	3.6		3.6	7.0	720			<1	0.5	6.2	5.8		5.8	7.0	708			<1
03/31/22	0.8	8.0				7.0	742			<1	0.5	6.2				7.1	709			<1
Avg	0.7	7.4	3.8	4.4	3.8	6.9	796	441	151	<1	0.5	6.1	4.0	4.1	4.0	7.1	716	437	141	<1
Min	0.5	6.4	2.7	3.8	2.7	6.7	718	432	151	<1	0.4	5.2	1.8	2.8	1.8	7.0	697	430	141	<1
Max	1.0	8.2	4.9	4.9	4.9	7.0	1006	452	151	2	0.7	6.6	5.8	5.0	5.8	7.1	754	440	141	1

Note: Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on the 12-month running average of the combined effluent from all plants, which are presented in Table 2-2.

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

⁷ These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-2
Recycled Water Monitoring: Agency-Wide Flow-Weighted TIN & TDS (mg/L) (Recycled Water Quality Specifications A.6)

	TI	IN	Τί	os
Date	Monthly	12-Mo. Run Avg.	Monthly	12-Mo. Run Avg.
Apr-21	4.6	4.3	493	488
May-21	5.3	4.3	500	488
Jun-21	4.9	4.4	498	489
Jul-21	4.7	4.4	498	490
Aug-21	4.1	4.3	497	491
Sep-21	4.3	4.4	486	492
Oct-21	3.6	4.3	483	492
Nov-21	4.4	4.3	486	493
Dec-21	4.1	4.3	493	494
Jan-22	4.5	4.3	485	494
Feb-22	4.2	4.3	479	492
Mar-22	4.5	4.4	468	489
Avg	4.4	4.3	489	491
Min	3.6	4.3	468	488
Max	5.3	4.4	500	494
Limit		8.0		550

Date source: IEUA NPDES monthly self-monitoring report (MRP No. R8-2009-0021).

Per the Regional Board, TDS is calculated using the flow-weighted averages based on discharged effluent flows and recycled water flows; TIN is calculated using the flow-weighted averages based on discharged effluent flows only. The data reported above will supersede any information submitted for previous quarters. Agency-wide TIN & TDS were in compliance with permit limits at all times.

Table 2-3a
Recycled Water Monitoring - RW Blend (RP1/RP-4): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

Constituent	2Q21	3Q21	4Q21	1Q22	4Q Run. Avg. ¹	Limit	Unit	Method
			norganic Chem	icals				
Aluminum	67	107	82	135	98	1000	μg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	μg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	μg/L	EPA 200.8
Asbestos	NR	NR	NR	NR	<2	7	MFL	EPA 100.2
Barium	21	19	15	27	21	1000	μg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	μg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	μg/L	EPA 200.8
Chromium	<2	<2	<2	2	<2	50	μg/L	EPA 200.8
Chromium VI ²	0.4	0.3	0.3	0.4	0.33	10	μg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	μg/L	OIA-1677, DW
Fluoride	0.2	0.2	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	2	μg/L	EPA 245.1
Nickel	3	3	2	2	3	100	μg/L	EPA 200.8
Perchlorate	<4	<2	<2	<2	<3	6	μg/L	EPA 314/331.0
Selenium	<2	<2	<2	<2	<2	50	μg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	μg/L	EPA 200.8
			Organic Chemic					
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	μg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	μg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	μg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	μg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	μg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	μg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	μg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	μg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Toluene	0.6	0.6	0.6	<0.5	0.6	150	μg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	μg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	μg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	μg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ³	μg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		μg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/2017)	see 2Q21 text	see 3Q21 text		see 1Q22 text	<0.005	0.005	μg/L	CASRL 524M-TCP
				Chemicals (SO	·			
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	μg/L	EPA 505
Atrazine	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	18	μg/L	EPA 515.4
Benzo(a)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	μg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	μg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	μg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	μg/L	EPA 515.4
Dalapon	5	<1	4	4	4	200	μg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	μg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	<0.5	<0.6	400	μg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	<0.5	<0.5	<0.5	<0.6	4	μg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	μg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	μg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	100	μg/L	EPA 548.1
Endrin	< 0.01	<0.01	<0.01	< 0.01	< 0.01	2	μg/L	EPA 505

Table 2-3a

Recycled Water Monitoring - RW Blend (RP1/RP-4): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

Constituent	2Q21	3Q21	4Q21	1Q22	4Q Run. Avg.1	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	μg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	700	μg/L	EPA 547
Heptachlor	< 0.01	<0.01	<0.01	<0.01	<0.01	0.01	μg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	μg/L	EPA 505
Hexachlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.5	<0.5	<0.5	<0.5	<0.5	50	μg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	μg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	μg/L	EPA 505
Molinate	<0.5	<0.5	<0.5	<0.5	<0.5	20	μg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	μg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	μg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	μg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5		EPA 505
PCB 1016 PCB 1221		<0.06	<0.06 <0.1	<0.06	<0.06 <0.1	0.5	μg/L	EPA 505
PCB 1221 PCB 1232	<0.1					0.5	μg/L	EPA 505
	<0.1	<0.1	<0.1	<0.1	<0.1		μg/L	
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
Simazine	<0.5	<0.5	<0.5	<0.5	<0.5	4	μg/L	EPA 525.2
Thiobencarb	<0.5	<0.5	<0.5	<0.5	<0.5	70	μg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	μg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	μg/L	EPA 515.4
Copper	5.0	2.9	ction Level Chem 2.9	3.5	3.6	1300	μg/L	EPA 200.8
Lead	<0.5	<0.5	1.0	<0.5	<0.6	15	μg/L μg/L	EPA 200.8
	10.0	10.0	Radionuclides		10.0		P9, -	2.7.200.0
Combined Radium-226 and Radium 228	<3	<3	<3	<3	<3	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0/SM711
Tritium	<365	<500	<1000	<1000	<1000	20,000	pCi/L	EPA 906
Strontium-90	<3	< 0.364	< 0.94	<2	<3	8	pCi/L	EPA 905
Gross Beta Particle Activity	18	14	12	14	15	50	pCi/L	EPA 900.0
Uranium	<0.7	<1	<1	<1	<1	20	pCi/L	EPA 200.8
		Secondary Max	imum Contamina	nt Level Chem	icals			
Aluminum	67	107	82	135	98	200	μg/L	EPA 200.8
Copper	5.0	2.9	2.9	3.5	3.6	1000	μg/L	EPA 200.8
Corrosivity	0.4 (Non-Cor.)	0.3 (Non-Cor.)	-0.6 (Non-Cor.)	-0.1 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) 4	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	mg/L	S5540C/EPA 425
Iron ⁴	59	81	87	68	73	300	μg/L	EPA 200.7
Manganese	9	16	11	11	12	50	μg/L	EPA 200.8
Methyl-tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
OdorThreshold	1	2	2	NR	2	3	TON	SM 2150B
Silver	<0.25	< 0.25	<0.25	<0.25	<0.25	100	μg/L	EPA 200.8
Thiobencarb	<0.5	<0.2	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
Zinc	51	41	30	65	47	5000	μg/L	EPA 200.8
		Miscellar	neous Regulated					
Oil & Grease ⁵	<1	<1	1	<5		1	mg/L	EPA 1664
Bromato			isinfection Bypro		t	10	uc/l	EPA 300.1/317
Bromate Chlorite	<1 <0.01	<1 <0.01	<1 <0.01	<1 <0.01	<1 <0.01	10	μg/L mg/l	EPA 300.1/317
Onionie	<0.01 DCZ2-LYS-25	<0.01 DCZ2-LYS-25	<0.01 DCZ2-LYS-25	<0.01 SSV-2	<0.01 <==TTHMs	1	mg/L	EF'A 300.0
	DCZ2-L13-25 DCZ2-LYS-25	DCZ2-LYS-25	DCZ2-LYS-25	SSV-2 SSV-2	<==11 Hivis <==HAA5			
Alternative Compliance Point Data	2Q21	3Q21	4Q21	1Q22				
Total Trihalomethanes (TTHMs)	36	<2	<2	87	32	80	μg/L	EPA 524.2

NR: Not required this quarter

Bold signifies an exceedance of a limit in the Order. Explained in further detail in the report text.

¹ 4-quarter running average is calculated based on ND values equal to half the detection limit. The reported 4-quarter running average value, if less than DL, will be based on highest DL found in the data set.

² As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

³ The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

⁴ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually. However, if monitoring takes place more frequently than required, those results will be reported.

⁵ Oil & Grease compliance determination not based on 4-quarter running average

Table 2-3b
Recycled Water Monitoring - RP-1 (001B Effluent): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

Constituent	2Q21	3Q21	4Q21	1Q22	4Q Run. Avg. ¹	Limit	Unit	Method
			Inorganic Chem					
Aluminum	41	131	150	90	103	1000	μg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	μg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	μg/L	EPA 200.8
Asbestos	NR	NR	NR	NR	<0.2	7	MFL	EPA 100.2
Barium	16	14	20	17	17	1000	μg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	μg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	μg/L	EPA 200.8
Chromium	<0.5	0.6	1.0	0.6	0.7	50	μg/L	EPA 200.8
Chromium VI ²	0.3	0.3	0.2	0.3	0.3	10	μg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	μg/L	OIA-1677, DW
Fluoride	0.2	0.2	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.025	<0.025	<0.025	<0.025	<0.025	2	μg/L	EPA 245.1
Nickel	4	4	4	3	4	100	μg/L	EPA 200.8
Perchlorate	<4	<2	<2	<2	<4	6	μg/L	EPA 314/331.0
Selenium	<2	<2	<2	<2	<2	50	μg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	μg/L	EPA 200.8
_			Organic Chemi					
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	μg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	< 0.5	<0.5	<0.5	6	μg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	μg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	μg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	< 0.5	< 0.5	< 0.5	0.5	μg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	< 0.5	< 0.5	< 0.5	300	μg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	< 0.5	< 0.5	< 0.5	70	μg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	< 0.5	< 0.5	< 0.5	13	μg/L	EPA 524.2
Styrene	< 0.5	<0.5	<0.5	<0.5	<0.5	100	μg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	< 0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 524.2
Tetrachloroethylene	< 0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Toluene	1.0	<0.5	1.6	<0.5	0.9	150	μg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	μg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	μg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	μg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L μg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		μg/L μg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ³	μg/L μg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/2017)	see 2Q21 text	see 3Q21 text		see 1Q22 text	<0.005	0.005	μg/L μg/L	CASRL 524M-TCP
1,2,0 Themorepropule (added 7/2017)	SCO EGET TOXE			Chemicals (SO		0.000	µg/⊏	ONOTIL OF THE LOL
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	μg/L	EPA 505
Atrazine (Alariex)	<0.1	<0.1	<0.1	<0.1	<0.1	1	μg/L μg/L	EPA 525.2
Bentazon	<0.5	<0.05	<0.5	<0.5	<0.5	18	μg/L μg/L	EPA 525.2 EPA 515.4
Benzo(a)pyrene	<0.5	<0.02	<0.5	<0.5	<0.5	0.2	μg/L μg/L	EPA 515.4 EPA 525.2
Carbofuran	<0.1	<0.02 <0.5	<0.1	<0.1 <0.5	<0.1 <0.5	18	μg/L μg/L	EPA 525.2 EPA 531.2
Chlordane	<0.5	<0.5 <0.1	<0.1	<0.5	<0.1	0.1	μg/L μg/L	EPA 505
2,4-D	<0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	<0.1 <0.1	70		EPA 505 EPA 515.4
2,4-D Dalapon	<0.1 4	<0.1 5	<0.1 4	<0.1 3	<0.1 4	200	μg/L	EPA 515.4 EPA 515.4
'							μg/L	
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	μg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.6	<0.5	<0.5	<0.6	400	μg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	<0.6	<0.5	<0.5	<0.5	4	μg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	μg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	μg/L	EPA 549.2
Endothall	<5	<5 -0.01	<5	<5	<5	100	μg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	2	μg/L	EPA 505

Table 2-3b

Recycled Water Monitoring - RP-1 (001B Effluent): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

2Q21	3Q21	4Q21	1Q22	4Q Run. Avg.1	Limit	Unit	Method
<0.01	<0.01	<0.01	<0.01	<0.01	0.05	μg/L	EPA 504.1
<6	<6	<6	<6	<6	700	μg/L	EPA 547
< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.01	μg/L	EPA 505
< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.01	μg/L	EPA 505
<0.5	< 0.05	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
<0.5	< 0.05	<0.5	<0.5	<0.5	50	μg/L	EPA 525.2
< 0.01	< 0.01	<0.01	< 0.01	< 0.01	0.2	μg/L	EPA 505
< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	30	μg/L	EPA 505
<0.5	<0.1	<0.5	<0.5	<0.5	20	μg/L	EPA 525.2
< 0.5	<0.5	< 0.5	< 0.5	< 0.5	50	μg/L	EPA 531.2
< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	1		EPA 515.4
<0.1	<0.1	<0.1	<0.1	<0.1	500		EPA 515.4
<0.08	<0.08	<0.08	<0.08	<0.08	0.5		EPA 505
							EPA 505
							EPA 505
							EPA 505
							EPA 505
							EPA 505
							EPA 505
							EPA 525.2
							EPA 525.2
							EPA 505
							EPA 1613
						pg/L	EPA 515.4
V0.2				\0. L	30	ду/ С	LI A 313.4
7.1	4.8	2.6	3.2	4.4	1300	μg/L	EPA 200.8
<0.5	<0.5	<0.5	<0.5	<0.5	15	μg/L	EPA 200.8
		Radionuclides	3				
<3	<3	<3	<3	<3	5	pCi/L	EPA 903.0
<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0/SM7110C
<365	<500	<1000	<1000	<1000	20,000	pCi/L	EPA 906
<3	< 0.396	< 0.429	<2	<3	8	pCi/L	EPA 905
18	32	14	15	20	50	pCi/L	EPA 900.0
<0.7	<0.7	<0.7	<0.7	<0.7	20	pCi/L	EPA 200.8
	Secondary Max						
	131	150		103		μg/L	EPA 200.8
7.1	4.8	2.6	3.2	4.4	1000	μg/L	EPA 200.8
-0.1 (Non-Cor.)	-0.2 (Non-Cor.)	-0.4 (Non-Cor.)	0.1 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
<0.1	0.1	<0.1	<0.1	<0.1	0.5	mg/L	S5540C/EPA 425.1
<150	<150	<150	<150	47	300	μg/L	EPA 200.7
14	7	9	6	9	50	μg/L	EPA 200.8
<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1.4	3	8	NR	4	3	TON	SM 2150B
< 0.25	<0.25	<0.25	< 0.25	< 0.25	100	μg/L	EPA 200.8
<0.5	<0.2	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
39	40	38	41	40	5000	μg/L	EPA 200.8
	Miscellar	eous Regulated	Constituents				
		-			1	ma/l	EPA 1664
1	<1	<1	<5		<u> </u>	mg/L	LI A 1004
	D	<1 isinfection Bypro				IIIg/L	
1 <1 <0.01				<1 <0.01	10	μg/L mg/L	EPA 300.1/317 EPA 300.0
	<0.01 <6 <0.01 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.04 <0.1 <0.08 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <1.0 <1.1 <0.5 <1.5 <0.5 <1.5 <1.0 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1 <1.1	<0.01	<0.01	<0.01	<0.01	<0.01	

NR: Not required this quarter

NA: Not analyzed

Bold signifies an exceedance of a limit in the Order. Explained in further detail in the report text.

¹ 4-quarter running average is calculated based on ND values equal to half the detection limit. The reported 4-quarter running average value, if less than DL, will be based on highest DL found in the data set.

² As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

³ The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

⁴ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually. However, if monitoring takes place more frequently than required, those results will be reported.

 $^{^{\}rm 5}$ Oil & Grease compliance determination not based on 4-quarter running average

Table 2-4a Recycled Water Monitoring - RW Blend (RP1/RP-4): Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals (Monitoring & Reporting Program)

Constituent Volatile Orga	1Q22	Unit	Method	Constituent	1Q22	Unit	Method	
		s (VOCs)		Base/Nei	ıtral Extractible	S		1
Acrolein	<2	μg/L	EPA 624	Phenanthrene	NR	μg/L	EPA 625	1
Acrylonitrile	0.39	μg/L	EPA 624	Pyrene	NR	μg/L	EPA 625	
Bromoform	<0.5	μg/L	EPA 524.2/624		esticides	10		1
Chlorodibromomethane	2.6	μg/L	EPA 524.2/624	Aldrin	<0.01	μg/L	EPA 505/525/608	1
Chloroethane	<0.5	μg/L	EPA 524.2/624	BHC, alpha isomer	NR	μg/L	EPA 525/608	
2-Chloroethylvinylether	NR	μg/L	EPA 524.2/624	BHC, beta isomer	NR	μg/L	EPA 525/608	
Chloroform	77	μg/L	EPA 524.2/624	BHC, delta isomer	NR	μg/L	EPA 525/608	
Dichlorobromomethane	18	μg/L	EPA 524.2/624	4,4'-DDT	NR	μg/L	EPA 525/608	
Methyl Bromide	<0.5	μg/L	EPA 524.2/624	4,4'-DDE	NR	μg/L	EPA 525/608	
Methyl Chloride	<0.5	μg/L	EPA 524.2/624	4,4'-DDD	NR	μg/L	EPA 525/608	
	d Extractibles			Dieldrin	<0.01	μg/L	EPA 505/525/608	
2-Chlorophenol	NR	μg/L	EPA 625	Endosulfan I	NR	μg/L	EPA 525/608	
2,4-Dichlorophenol	NR NB	μg/L	EPA 625	Endosulfan II	NR NR	μg/L	EPA 525/608	
2,4-Dimethylphenol	NR	μg/L	EPA 625	Endosulfan Sulfate		μg/L	EPA 525/608	
2-Methyl-4,6-dinitrophenol	NR	μg/L	EPA 625	Chemicals w/ State				NL
2,4-Dinitrophenol 2-Nitrophenol	NR NR	μg/L	EPA 625 EPA 625	Boron n-butylbenzene	0.3 <0.5	mg/L	EPA 200.7 EPA 524.2	1 260
4-Nitrophenol	NR NR	μg/L μg/L	EPA 625 EPA 625	sec-butylbenzene	<0.5 <0.5	μg/L μg/L	EPA 524.2 EPA 524.2	260
4-Chloro-3-methylphenol	NR	μg/L μg/L	EPA 625	tert-butylbenzene	<0.5	μg/L μg/L	EPA 524.2 EPA 524.2	260
Phenol	NR	μg/L μg/L	EPA 625	Carbon disulfide	<0.5	μg/L μg/L	EPA 524.2	160
2,4,6-Trichlorophenol	NR	μg/L	EPA 625	Chlorate* (RW Blend 1Q22)	490	μg/L	EPA 300.0	800
Base/Ne	eutral Extracti	bles		2-Chlorotoluene	< 0.5	μg/L	EPA 524.2	140
Acenaphthene	NR	μg/L	EPA 625	4-Chlorotoluene	< 0.5	μg/L	EPA 524.2	140
Acenaphthylene	NR	μg/L	EPA 625	Diazinon	< 0.5	μg/L	EPA 525.2	1.2
Anthracene	NR	μg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	< 0.5	μg/L	EPA 524.2	1000
Benzidine	NR	μg/L	EPA 625	1,4 - Dioxane	<1	μg/L	EPA 522	1
Benzo(a)anthracene	NR	μg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B	14
Benzo(b)fluoranthene	NR	μg/L	EPA 625	Formaldehyde	36	μg/L	EPA 556	100
Benzo(g,h,i)perylene	NR	μg/L	EPA 625	HMX . "	<0.2	μg/L	EPA 8330B	350
Benzo(k)fluoranthene Bis(2-chloroethoxy)methane	NR NR	μg/L	EPA 625 EPA 625	Isopropylbenzene	< 0.5	μg/L	EPA 524.2 EPA 200.8	770 500
Bis(2-chloroethyl)ether	NR NR	μg/L μg/L	EPA 625 EPA 625	Manganese Methyl isobutyl ketone (MIBK)	11 <2	μg/L μg/L	EPA 200.8 EPA 524.2	120
Bis(2-chloroisopropyl)ether	NR	μg/L μg/L	EPA 625	Naphthalene	<0.5	μg/L μg/L	EPA 525.2/524.2	17
4-Bromophenyl phenyl ether	NR	μg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521	10
Butyl benzyl phthalate	NR	μg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	2.3	ng/L	EPA 521	10
2-Chloronaphthalene	NR	μg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521	10
4-Chlorophenyl phenyl ether	NR	μg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2.0	ng/L	EPA 537.1	6.5
Chrysene	NR	μg/L	EPA 625	Perfluorooctanoic acid (PFOA)**	see report text	ng/L	EPA 537.1	5.1
Dibenzo(a,h)anthracene	NR	μg/L	EPA 625	Perfluorobutanesulfonic acid (PFBS)	Pending Receipt	ng/L	EPA 537.1	500
1,3-Dichlorobenzene	NR	μg/L	EPA 625	Propachlor	<0.5	μg/L	EPA 525.2	90
3,3-Dichlorobenzidine	NR	μg/L	EPA 625	N-propylbenzene	<0.5	μg/L	EPA 524.2	200
Diethyl phthalate	NR NB	μg/L	EPA 625	RDX	<0.2	μg/L	EPA 8330B EPA 524.2	0.3
Dimethyl phthalate Di-n-butyl phthalate	NR NR	μg/L μg/L	EPA 625 EPA 625	Tertiary butyl alcohol 1,2,4-trimethylbenzene	<2 <0.5	μg/L μg/L	EPA 524.2 EPA 524.2	12 330
2,4-Dinitrotoluene	NR	μg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	μg/L μg/L	EPA 524.2	330
2.6-Dinitrotoluene	NR	μg/L	EPA 625	2,4,6-Trinitrotoluene	<0.1	μg/L	EPA 8330B	1
Di-n-octyl phthalate	NR	μg/L	EPA 625	Vanadium	<5	μg/L	EPA 200.8	50
Azobenzene	NR	μg/L	EPA 625	Health-based and performance	indicator CECs		ce Application	RP3-1/
Fluoranthene	NR	μg/L	EPA 625	1,4 - Dioxane	<1	μg/L	EPA 522	<1
Fluorene	NR	μg/L	EPA 625	N-nitrosodimethylamine (NDMA)	2.3	ng/L	EPA 521	<2
Hexachlorobutadiene	NR	μg/L	EPA 625	N-Nitrosomorphline	5.7	ng/L	EPA 521	2
Hexachlorocyclopentadiene	NR	μg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2.0	ng/L	EPA 537.1	18
Hexachloroethane	NR	μg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1	8.7
Indeno(1,2,3-cd)pyrene	NR	μg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS	<5
Isophorone	NR	μg/L	EPA 625	lohexol	28000	ng/L	LC-MS-MS	51
Naphthalene	NR	μg/L	EPA 625	Sucralose	87000	ng/L	LC-MS-MS	27000
Nitrobenzene	NR	μg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS	48
1				IED (DW DL 1/DD0 4/4)		m or /I	Two soll Took	I
N-Nitroso-di-n-propylamine	NR	μg/L	EPA 625	ER-α (RW Blend / RP3-1/1)	Pending Receipt	ng/L	Trussell Tech	

^{*}Pursuant to the GRRP regulations,
**PFOA is being analyzed weekly for the exceedance of the NL and is reported in Section 2A of this report

Table 2-4b Recycled Water Monitoring - RP-1 (001B Effluent): Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals (Monitoring & Reporting Program)

Constituent	1Q22	Unit	Method	Constituent	1Q22	Unit	Method	
	nic Chemicals	s (VOCs)			ıtral Extractible	es		
Acrolein	<2	μg/L	EPA 624	Phenanthrene	NR	μg/L	EPA 625	1
Acrylonitrile	< 0.25	μg/L	EPA 624	Pyrene	NR	μg/L	EPA 625	
Bromoform	<0.5	μg/L	EPA 524.2/624		esticides	10		1
Chlorodibromomethane	2.6	μg/L	EPA 524.2/624	Aldrin	<0.01	μg/L	EPA 505/608	1
Chloroethane	<0.5	μg/L	EPA 524.2/624	BHC, alpha isomer	NR	μg/L μg/L	EPA 525/608	
2-Chloroethylvinylether	NR	μg/L	EPA 524.2/624	BHC, beta isomer	NR	μg/L	EPA 525/608	
Chloroform	56	μg/L	EPA 524.2/624	BHC, delta isomer	NR	μg/L	EPA 525/608	
Dichlorobromomethane	16	μg/L	EPA 524.2/624	4,4'-DDT	NR	μg/L	EPA 525/608	
Methyl Bromide	<0.5	μg/L	EPA 524.2/624	4.4'-DDE	NR	μg/L	EPA 525/608	
Methyl Chloride	<0.5	μg/L	EPA 524.2/624	4,4'-DDD	NR	μg/L	EPA 525/608	
	d Extractibles	F-0-		Dieldrin	< 0.01	μg/L	EPA 505/608	
2-Chlorophenol	NR	μg/L	EPA 625	Endosulfan I	NR	μg/L	EPA 525/608	
2,4-Dichlorophenol	NR	μg/L	EPA 625	Endosulfan II	NR	μg/L	EPA 525/608	
2,4-Dimethylphenol	NR	μg/L	EPA 625	Endosulfan Sulfate	NR	μg/L	EPA 525/608	
2-Methyl-4,6-dinitrophenol	NR	μg/L	EPA 625	Chemicals w/ State				NL
2,4-Dinitrophenol	NR	μg/L	EPA 625	Boron	0.3	mg/L	EPA 200.7	1 1
2-Nitrophenol	NR	μg/L μg/L	EPA 625	n-butylbenzene	<0.5	μg/L	EPA 524.2	260
4-Nitrophenol	NR	μg/L	EPA 625	sec-butylbenzene	<0.5	μg/L	EPA 524.2	260
4-Chloro-3-methylphenol	NR	μg/L	EPA 625	tert-butylbenzene	<0.5	μg/L	EPA 524.2	260
Phenol	NR	μg/L	EPA 625	Carbon disulfide	< 0.5	μg/L	EPA 524.2	160
2,4,6-Trichlorophenol	NR	μg/L	EPA 625	Chlorate* (001B Eff 1Q22)	320	μg/L	EPA 300.0	800
	eutral Extracti			2-Chlorotoluene	< 0.5	μg/L	EPA 524.2	140
Acenaphthene	NR	μg/L	EPA 625	4-Chlorotoluene	<0.5	μg/L	EPA 524.2	140
Acenaphthylene	NR	μg/L	EPA 625	Diazinon	<0.5	μg/L	EPA 525.2	1.2
Anthracene	NR	μg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	<0.5	μg/L	EPA 524.2	1000
Benzidine	NR	μg/L	EPA 625	1,4 - Dioxane	<1	μg/L	EPA 522	1
Benzo(a)anthracene	NR	μg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B	14
Benzo(b)fluoranthene	NR	μg/L	EPA 625	Formaldehyde	39	μg/L	EPA 556	100
Benzo(g,h,i)perylene	NR	μg/L	EPA 625	HMX	< 0.2	μg/L	EPA 8330B	350
Benzo(k)fluoranthene	NR	μg/L	EPA 625	Isopropylbenzene	< 0.5	μg/L	EPA 524.2	770
Bis(2-chloroethoxy)methane	NR	μg/L	EPA 625	Manganese	6	μg/L	EPA 200.8	500
Bis(2-chloroethyl)ether	NR	μg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	μg/L	EPA 524.2	120
Bis(2-chloroisopropyl)ether	NR	μg/L	EPA 625	Naphthalene	< 0.5	μg/L	EPA 524.2	17
4-Bromophenyl phenyl ether	NR	μg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521	10
Butyl benzyl phthalate	NR	μg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	2.9	ng/L	EPA 521	10
2-Chloronaphthalene	NR	μg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521	10
4-Chlorophenyl phenyl ether	NR	μg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2.0	ng/L	EPA 537.1	6.5
Chrysene	NR	μg/L	EPA 625	Perfluorooctanoic acid (PFOA) **	see report text	ng/L	EPA 537.1	5.1
Dibenzo(a,h)anthracene	NR	μg/L	EPA 625	Perfluorobutanesulfonic acid (PFBS)	Pending Receipt	ng/L	EPA 537.1	500
1,3-Dichlorobenzene	NR	μg/L	EPA 625	Propachlor	<0.5	μg/L	EPA 525.2	90
3,3-Dichlorobenzidine	NR	μg/L	EPA 625	N-propylbenzene	<0.5	μg/L	EPA 524.2	200
Diethyl phthalate	NR	μg/L	EPA 625	RDX	<0.2	μg/L	EPA 8330B	0.3
Dimethyl phthalate	NR	μg/L	EPA 625	Tertiary butyl alcohol	<2	μg/L	EPA 524.2	12
Di-n-butyl phthalate	NR	μg/L	EPA 625	1,2,4–trimethylbenzene	<0.5	μg/L	EPA 524.2	330
2,4-Dinitrotoluene	NR	μg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	μg/L	EPA 524.2	330
2,6-Dinitrotoluene	NR NB	μg/L	EPA 625	2,4,6-Trinitrotoluene	<0.1	μg/L	EPA 8330B	1 50
Di-n-octyl phthalate	NR	μg/L	EPA 625	Vanadium	<3	μg/L	EPA 200.8	50
Azobenzene	NR	μg/L	EPA 625	Health-based and performance				RP3-1
Fluoranthene	NR	μg/L	EPA 625	1,4 - Dioxane	<1	μg/L	EPA 522	<1
Fluorene	NR	μg/L	EPA 625	N-nitrosodimethylamine (NDMA)	2.9	ng/L	EPA 521	<2
Hexachlorobutadiene	NR	μg/L	EPA 625	N-Nitrosomorphline	6.5	ng/L	EPA 521	2
Hexachlorocyclopentadiene	NR	μg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2.0	ng/L	EPA 537.1	18
Hexachloroethane	NR	μg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1	8.7
Indeno(1,2,3-cd)pyrene	NR	μg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS	<5
Isophorone	NR	μg/L	EPA 625	lohexol	49000	ng/L	LC-MS-MS	51
Naphthalene	NR	μg/L	EPA 625	Sucralose	86000	ng/L	LC-MS-MS	2700
Nitrobenzene	NR	μg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS	48
N-Nitroso-di-n-propylamine	NR	μg/L	EPA 625	ER-α	Pending Receipt	ng/L	Trussell Tech	
N-Nitrosodiphenylamine	NR	μg/L	EPA 625 t A, Page 26, Item 19)	AhR (method pending approval)		ng/L	Trussell Tech	

NR: Not Required (Annual Requirement, Phase II FOF, Attachement A, Page 26, Item 19)

*Pursuant to the GRRP regulations, recharge water may be monitored in lieu of recycled water.

**PFOA is being analyzed weekly for the exceedance of the NL and is reported in Section 2A of this report

Table 2-5a Lysimeter and Surface Water Monitoring: TOC, Nitrogen Species, and EC

		,		J	, 3	, ,				
				Brooks Basi	n					
Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	TN*	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC	
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm	
BRK-LYS-00	0	01/27/22	5.64	2.1	1.4	1.1	1.0	<0.01	474	
BRK-LYS-00	0	02/24/22	7.20	3.4	2.0	2.0	1.4	<0.01	553	
BRK-LYS-00	0	03/29/22	7.73	2.7	1.4	1.4	1.3	<0.01	434	
BRK-LYS-25	25	01/27/22	3.23	<0.6	<0.2	<0.1	<0.5	<0.01	597	
BRK-LYS-25	25	02/24/22	2.93	<0.6	<0.2	<0.1	<0.5	<0.01	511	
BRK-LYS-25	25	03/29/22	2.73	<0.6	<0.2	<0.1	<0.5	<0.01	487	
Declez Basin										
Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	TN*	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC	
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm	
DCZ2-LYS-00	0	01/06/22	3.92	1.7	0.8	0.5	1.2	<0.01	87	
DCZ2-LYS-00	0	01/20/22	5.48	1.5	0.2	0.2	1.3	<0.01	116	
DCZ2-LYS-00	0	02/03/22	8.29	2.4	0.2	0.2	2.2	<0.01	203	
DCZ2-LYS-00	0	02/17/22	15.7	5.3	0.9	0.9	4.4	<0.01	444	
DCZ2-LYS-00	0	03/03/22	12.1	4.6	0.7	0.7	3.9	<0.01	592	
DCZ2-LYS-00	0	03/16/22	10.6	3.8	1.2	1.2	2.6	<0.01	616	
DCZ2-LYS-00	0	03/30/22	10.3	3.2	1.5	1.0	2.2	0.05	332	
DCZ2-LYS-25	25	01/06/22	3.10	<0.6	<0.2	<0.1	<0.5	<0.01	560	
DCZ2-LYS-25	25	01/20/22	2.81	<0.6	<0.2	<0.1	<0.5	<0.01	353	
DCZ2-LYS-25	25	02/03/22	2.40	<0.6	<0.2	<0.1	<0.5	<0.01	278	
DCZ2-LYS-25	25	02/17/22	2.23	<0.6	<0.2	<0.1	<0.5	<0.01	254	
DCZ2-LYS-25	25	03/03/22	2.18	<0.6	<0.2	<0.1	<0.5	<0.01	259	
DCZ2-LYS-25	25	03/16/22	1.90	<0.6	0.2	0.2	<0.5	<0.01	318	
DCZ2-LYS-25	25	03/30/22	2.33	<0.6	< 0.2	< 0.1	<0.5	< 0.01	430	

Table 2-5b Alternative Monitoring Plans

			Banana Bas	in		
Date	RW Blend*	RW Blend*	RW Blend*	Banana	Ban	ana
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (80% reduction)	TN (47% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L
01/04/22	5.70	3.7	3.6	1.14	2.0	1.9
01/11/22	6.20	4.0	3.9	1.24	2.1	2.0
01/18/22	6.95	4.6	4.3	1.39	2.4	2.3
01/25/22	7.05	5.1	4.8	1.41	2.7	2.6
02/01/22	6.70	4.7	4.9	1.34	2.5	2.6
02/08/22	6.65	4.6	4.6	1.33	2.4	2.5
02/15/22	6.30	3.9	4.2	1.26	2.1	2.3
02/22/22	6.85	4.7	4.3	1.37	2.5	2.3
03/01/22	6.60	4.6	4.6	1.32	2.4	2.5
03/08/22	6.00	4.8	4.7	1.20	2.5	2.5
03/15/22	6.90	5.2	5.0	1.38	2.8	2.7
03/22/22	6.83	4.4	4.8	1.37	2.3	2.6
03/29/22	6.23	4.6	4.5	1.25	2.4	2.4

			Hickory Bas	in		
Date	RW Blend*	RW Blend*	RW Blend*	Hickory	Hickory	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (81% reduction)	TN (27% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L (RWQCB)
01/04/22	5.70	3.7	3.6	1.08	2.7	2.6
01/11/22	6.20	4.0	3.9	1.18	2.9	2.8
01/18/22	6.95	4.6	4.3	1.32	3.3	3.1
01/25/22	7.05	5.1	4.8	1.34	3.7	3.5
02/01/22	6.70	4.7	4.9	1.27	3.4	3.6
02/08/22	6.65	4.6	4.6	1.26	3.4	3.4
02/15/22	6.30	3.9	4.2	1.20	2.9	3.1
02/22/22	6.85	4.7	4.3	1.30	3.4	3.1
03/01/22	6.60	4.6	4.6	1.25	3.4	3.4
03/08/22	6.00	4.8	4.7	1.14	3.5	3.4
03/15/22	6.90	5.2	5.0	1.31	3.8	3.7
03/22/22	6.83	4.4	4.8	1.30	3.2	3.5
03/29/22	6.23	4.6	4.5	1.18	3.3	3.3

			Turner Basir	n			
					Turne	r 1 & 2	
Date	RW Blend*	RW Blend*	Turner 1 & 2	Turner 3 & 4	Turner 3 & 4		
mg/L==>	TOC	TN - 2 sample avg.	TOC (70% reduction)	TOC (85% reduction)	TN (87% reduction)	TN - 2 sample avg.	
Limit ==>		10 mg/L (DDW)	16 mg/L	16 mg/L		5 mg/L (RWQCB)	
01/04/22	5.70	3.7	1.71	0.86	0.5	0.5	
01/11/22	6.20	3.9	1.86	0.93	0.5	0.5	
01/18/22	6.95	4.3	2.09	1.04	0.6	0.5	
01/25/22	7.05	4.8	2.12	1.06	0.6	0.6	
02/01/22	6.70	4.9	2.01	1.01	0.6	0.6	
02/08/22	6.65	4.6	2.00	1.00	0.6	0.6	
02/15/22	6.30	4.2	1.89	0.95	0.6	0.6	
02/22/22	6.85	4.3	2.06	1.03	0.6	0.6	
03/01/22	6.60	4.6	1.98	0.99	0.6	0.6	
03/08/22	6.00	4.7	1.80	0.90	0.6	0.6	
03/15/22	6.90	5.0	2.07	1.04	0.7	0.6	
03/22/22	6.83	4.8	2.05	1.02	0.6	0.6	
03/29/22	6.23	4.5	1.87	0.93	0.6	0.6	

			Ely Basin			
Date	RP-1 RW	RP-1 RW	RP-1 RW	Ely 3 East	Ely 3 East	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (76% reduction)	TN (52% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L (RWQCB)
01/03/22	7.35	6.1	5.5	1.76	2.9	2.6
01/10/22	7.05	4.6	5.4	1.69	2.2	2.6
01/17/22	7.65	4.1	4.3	1.84	1.9	2.1
01/24/22	8.00	4.9	4.5	1.92	2.3	2.1
01/31/22	7.25	4.8	4.8	1.74	2.3	2.3
02/10/22	7.55	3.4	4.1	1.81	1.6	2.0
02/14/22	7.25	3.9	3.7	1.74	1.9	1.8
02/25/22	7.44	4.4	4.2	1.79	2.1	2.0
02/28/22	8.25	3.8	4.1	1.98	1.8	2.0
03/07/22	7.75	6.0	4.9	1.86	2.9	2.4
03/14/22	7.13	5.1	5.6	1.71	2.5	2.7
03/21/22	7.60	4.7	4.9	1.82	2.3	2.4
03/28/22	7.47	5.8	5.3	1.79	2.8	2.5

*The recycled water blend of RP-1 &RP-4 effluent is sampled at the RP-4 1299 Pump Station Note: TOC & TN compliance is based on two consecutive sample results.

Table 2-5b Alternative Monitoring Plans

			RP3 Basin			
Date	RW Blend*	RW Blend*	RW Blend*	RP3	RP3	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (88% reduction)	TN (31% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L (RWQCB)
01/04/22	5.70	3.7	3.6	0.68	2.6	2.5
01/11/22	6.20	4.0	3.9	0.74	2.7	2.7
01/18/22	6.95	4.6	4.3	0.83	3.2	3.0
01/25/22	7.05	5.1	4.8	0.85	3.5	3.3
02/01/22	6.70	4.7	4.9	0.80	3.2	3.4
02/08/22	6.65	4.6	4.6	0.80	3.2	3.2
02/15/22	6.30	3.9	4.2	0.76	2.7	2.9
02/22/22	6.85	4.7	4.3	0.82	3.2	3.0
03/01/22	6.60	4.6	4.6	0.79	3.2	3.2
03/08/22	6.00	4.8	4.7	0.72	3.3	3.2
03/15/22	6.90	5.2	5.0	0.83	3.6	3.5
03/22/22	6.83	4.4	4.8	0.82	3.0	3.3
03/29/22	6.23	4.6	4.5	0.75	3.1	3.1

			7th & 8th Street	Basin		
Date	RW Blend*	RW Blend*	RW Blend*	8th Street	8th Street	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (88% reduction)**	TN (75% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)
01/04/22	5.70	3.7	3.6	0.68	0.9	1.0
01/11/22	6.20	4.0	3.9	0.74	1.0	1.0
01/18/22	6.95	4.6	4.3	0.83	1.1	1.1
01/25/22	7.05	5.1	4.8	0.85	1.3	1.2
02/01/22	6.70	4.7	4.9	0.80	1.2	1.2
02/08/22	6.65	4.6	4.6	0.80	1.1	1.2
02/15/22	6.30	3.9	4.2	0.76	1.0	1.1
02/22/22	6.85	4.7	4.3	0.82	1.2	1.1
03/01/22	6.60	4.6	4.6	0.79	1.1	1.2
03/08/22	6.00	4.8	4.7	0.72	1.2	1.2
03/15/22	6.90	5.2	5.0	0.83	1.3	1.3
03/22/22	6.83	4.4	4.8	0.82	1.1	1.2
03/29/22	6.23	4.6	4.5	0.75	1.1	1.1

			Victoria Bas	in		
Date	RW Blend*	RW Blend*	RW Blend*	Victoria	Victoria	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (78% reduction)	TN (82% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)
01/04/22	5.70	3.7	3.6	1.25	0.7	0.6
01/11/22	6.20	4.0	3.9	1.36	0.7	0.7
01/18/22	6.95	4.6	4.3	1.53	0.8	8.0
01/25/22	7.05	5.1	4.8	1.55	0.9	0.9
02/01/22	6.70	4.7	4.9	1.47	0.8	0.9
02/08/22	6.65	4.6	4.6	1.46	0.8	0.8
02/15/22	6.30	3.9	4.2	1.39	0.7	0.8
02/22/22	6.85	4.7	4.3	1.51	0.8	0.8
03/01/22	6.60	4.6	4.6	1.45	0.8	0.8
03/08/22	6.00	4.8	4.7	1.32	0.9	0.8
03/15/22	6.90	5.2	5.0	1.52	0.9	0.9
03/22/22	6.83	4.4	4.8	1.50	0.8	0.9
03/29/22	6.23	4.6	4.5	1.37	0.8	0.8

			Declez Basi	n		
Date	RW Blend*	RW Blend*	RW Blend*	Declez	Declez	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (62% reduction)	TN (91% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)
01/04/22	5.70	3.7	3.6	2.17	0.3	0.3
01/11/22	6.20	4.0	3.9	2.36	0.4	0.3
01/18/22	6.95	4.6	4.3	2.64	0.4	0.4
01/25/22	7.05	5.1	4.8	2.68	0.5	0.4
02/01/22	6.70	4.7	4.9	2.55	0.4	0.4
02/08/22	6.65	4.6	4.6	2.53	0.4	0.4
02/15/22	6.30	3.9	4.2	2.39	0.4	0.4
02/22/22	6.85	4.7	4.3	2.60	0.4	0.4
03/01/22	6.60	4.6	4.6	2.51	0.4	0.4
03/08/22	6.00	4.8	4.7	2.28	0.4	0.4
03/15/22	6.90	5.2	5.0	2.62	0.5	0.5
03/22/22	6.83	4.4	4.8	2.60	0.4	0.4
03/29/22	6.23	4.6	4.5	2.37	0.4	0.4

*The recycled water blend of RP-1 &RP-4 effluent is sampled at the RP-4 1299 Pump Station Note: TOC & TN compliance is based on two consecutive sample results.

Table 2-5b Alternative Monitoring Plans

	San Sevaine 1-3										
Date	RW Blend*	RW Blend*	RW Blend*	San Sevaine 1-3	San Sevaine 1-3						
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (92% reduction)	TN (34% reduction)	TN - 2 sample avg.					
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)					
01/04/22	5.70	3.7	3.6	0.46	2.5	2.5					
01/11/22	6.20	4.0	3.9	0.50	2.6	2.5					
01/18/22	6.95	4.6	4.3	0.56	3.0	2.8					
01/25/22	7.05	5.1	4.8	0.56	3.3	3.2					
02/01/22	6.70	4.7	4.9	0.54	3.1	3.2					
02/08/22	6.65	4.6	4.6	0.53	3.0	3.1					
02/15/22	6.30	3.9	4.2	0.50	2.6	2.8					
02/22/22	6.85	4.7	4.3	0.55	3.1	2.8					
03/01/22	6.60	4.6	4.6	0.53	3.0	3.1					
03/08/22	6.00	4.8	4.7	0.48	3.2	3.2					
03/15/22	6.90	5.2	5.0	0.55	3.4	3.4					
03/22/22	6.83	4.4	4.8	0.55	2.9	2.9					
03/29/22	6.23	4.6	4.5	0.50	3.0	3.0					

Brooks Basin											
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00								
	TOC (mg/L)	TN (mg/L)	EC (µmhos/cm)								
01/27/22	5.64	2.1	474								
02/24/22	7.20	3.4	553								
03/29/22	7.73	2.7	434								

Date	BRK-LYS-25	BRK	BRK-LYS-25				
	TOC (mg/L)	TN* (mg/L)	TN* (mg/L) TN - 2 sample avg.				
Limit==>			5 mg/L				
01/27/22	3.2	<0.1	<0.1	597			
02/24/22	2.9	<0.1	<0.1	511			
03/29/22	2.7	<0.1	<0.1	487			

Date	BRK-1/1	BRK-1/1
	TOC* (mg/L)	TN (mg/L)
Limit==>	16 mg/L	
01/27/22	< 0.3	4.1
02/24/22	0.4	3.7
03/29/22	<0.3	3.2

^{*}BRK-LYS-25 is the compliance point for TN and BRK-1/1 is the compliance point for TOC.

Table 2-6 RWC, TOC Average, and TN Compliance Summary

Basin	SUP Start Date	SUP End Date	SUP Report Submittal	RWC Limit	Mos. in Operation (Mar 2022)	RWC _{Avg} (Mar 2022)	TOC _{Avg} Limit* (mg/L)	Jan 2022 TOC _{Avg} (mg/L)	Feb 2022 TOC _{Avg} (mg/L)	Mar 2022 TOC _{Avg} (mg/L)	1Q22 TN Limit** Compliance	Recharged Water Monitoring Plan
7 th & 8 th Street	Sep-07	Dec-10	05/23/11	50%	175	24%	2.1	0.8	0.8	0.8	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 75%
Banana	Jul-05	Jan-06	10/27/06	50%	201	33%	1.5	1.3	1.3	1.3	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 80% and TN reduction of 47%
Brooks	Aug-08	Dec-09	07/29/10	50%	164	14%	3.6	<0.3	0.4	<0.3	Met	Alternative monitoring: <u>Monthly</u> lysimeter monitoring at 0- and 25-feet bgs & BRK-1/1 for EC, TOC, TN. 25-foot lysimeter compliance point for TN and BRK-1/1 for TOC. <u>Monthly</u> BRK-1/1 analyzed for chloride to verify presence of RW (monitoring ceased 3Q18 since RW presence has been verified).
Declez	Dec-15	Sep-16	05/21/18	initial 20%	76	7%	7.1	2.5	2.5	2.5	Met	Alternative monitoring : <u>Weekly</u> RW Blend with TOC reduction of 62% and TN reduction of 91%
Ely	RW initiated Sep-99	NA	NA	50%	271	25%	2.0	1.8	1.8	1.8	Met	Alternative monitoring: <u>Weekly</u> RP-1 RW sample with TOC reduction of 76% and TN reduction of 52%
Hickory	Sep-05	Feb-06	02/15/07	50%	199	19%	2.6	1.2	1.3	1.2	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 81% and TN reduction of 27%
RP3	Jun-09	Jun-10	12/15/10	50%	154	23%	2.2	0.8	0.8	0.8	Met	Alternative monitoring : <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 31%
San Sevaine 1-3	Aug-20	Sep-21	02/08/22	50%	20	12%	4.2	0.5	0.5	0.5	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 92% and TN reduction of 34%
Turner 1&2	Dec-06	May-07	07/03/08	24%	184	24%	2.1	1.9	2.0	1.9	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 70%; TN reduction of 87%
Turner 3&4	Dec-06	May-07	07/03/08	45%	184	26%	1.9	1.0	1.0	1.0	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 85%; TN reduction of 87%
Victoria	Sep-10	Jul-11	02/08/12	50%	139	27%	1.9	1.4	1.5	1.4	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 78% and TN reduction of 82%

SUP - Start-Up Period

 $[*]TOC_{Avg}$ limit is 0.5 mg/L divided by the RWC_{Avg}. Compliance is determined by checking that monthly TOC_{Avg} does not exceed the TOC_{Avg} limit. If the TOC_{Avg} limit is exceeded, the monthly TOC_{Avg} will be shown in bold font.

^{**}TN limit is 5 mg/L on a two-sample average.

Table 2-7a
Diluent Water Monitoring*: Local Runoff/ Stormwater

	Stormwater Cucamonga & Deer Creek	Stormwater Day Creek	Stormwater Deer Creek	Stormwater San Antonio Creek	Local Runoff West Cucamonga Creek			
	@ Turner 1&2 Basins	@ Lower Day Basin	@ Turner 3&4 Basins	@ Montclair Basins	@ Ely Basins	Max Level to Trigger Source		
Constituent NO ₂ -N	02/22/22	02/16/22	02/22/22	02/16/22	03/22/22	Water Evaluation	Unit	Method
NO ₃ -N	<0.05	0.06	<0.05	0.14	<0.05	1	mg/L	EPA 300.0
TDS	1.9	1.4	1.5	2.4	3	10	mg/L	EPA 300.0
Total Coliform	130 >1600	138 >1600	126 >1600	232 >1600	222 920	1000	mg/L mpn/100ml	SM 2540C SM 9221B
Oil & Grease	<1	2	<1	<1	2	-	mg/L	EPA 1664A
Inorganic Chemicals							9. –	
Aluminum	402	1855	637	552	<25	1000	μg/L	EPA 200.7
Antimony	1	2	2	4	<1	6	μg/L	EPA 200.8
Arsenic	<2	<2	<2	2	3	10	μg/L	EPA 200.8
Asbestos	<2.1	<11	<5.3	<5.3	<0.8	7	MFL	EPA 100.2
Barium Beryllium	24 <0.5	43 <0.5	29 <0.5	48 <0.5	37 <0.5	1000 4	μg/L	EPA 200.7 EPA 200.7
Cadmium	<0.25	<0.5 <0.25	<0.25	<0.25	0.29	5	μg/L μg/L	EPA 200.7 EPA 200.7
Chromium	1.3	4.1	1.8	1.9	4.2	50	μg/L	EPA 200.7
Chromium VI	0.8	0.9	0.8	0.4	3.6	10	μg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	μg/L	ASTM D7284/OIA-1677
Fluoride	0.2	0.3	0.1	0.3	0.2	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	2	μg/L	EPA 245.2
Nickel	2	3	2	4	1	100	μg/L	EPA 200.7
Perchlorate	<2	<2	<2	<2	<2	6	μg/L	EPA 314
Selenium Thallium	<2 <1	<2 <1	<2 <1	<2 <1	<2 <1	50 2	μg/L μg/L	EPA 200.8 EPA 200.8
Volatile Organic Chemicals (VOCs)	<1	<1	<1	ζ1	<1	2	μg/L	LFA 200.0
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	μg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
1,1-Dichloroethylene cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	μg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	6 10	μg/L μg/L	EPA 524.2 EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	μg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	μg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	μg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	13 100	μg/L	EPA 524.2 EPA 524.2
Styrene 1,1,2,2-Tetrachloroethane	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	100	μg/L μg/L	EPA 524.2 EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L μg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	μg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	μg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	μg/L	EPA 524.2
Trichlorofluoromethane 1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	150 1200	μg/L	EPA 524.2 EPA 524.2
Vinyl Chloride	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	0.5	μg/L μg/L	EPA 524.2 EPA 524.2
Total Xylenes	<0.5	<0.5	<0.5	<0.5	<0.5	1750	μg/L	EPA 524.2
1,2,3-Trichloropropane	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	μg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemica	ls (SOCs)							
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	μg/L	EPA 505
Atrazine	<0.5	<0.5	<0.5	<0.5	<0.5	1	μg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5 <0.1	<0.5	<0.5	18 0.2	μg/L	EPA 515.4
Benzo(a)pyrene Carbofuran	<0.1 <0.5	<0.1 <0.5	<0.1	<0.1 <0.5	<0.1 <0.5	18	μg/L μg/L	EPA 525.2 EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	μg/L	EPA 505
2,4-D	0.8	1.1	0.6	<0.1	<0.1	70	μg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	<1	200	μg/L	EPA 515.4
Dibromochloropropane	<0.01	< 0.01	<0.01	< 0.01	<0.01	0.2	μg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	<0.5	<0.5	400	μg/L	EPA 525.2
Di(2-ethylhexyl)phthalate Dinoseb	0.6	<0.5	0.6	0.5	<0.5	4 7	μg/L	EPA 525.2
Dinoseb Diquat	<0.2 <0.4	<0.2 <0.4	<0.2 <0.4	<0.2 0.4	<0.2 <0.4	20	μg/L μg/L	EPA 515.4 EPA 549.2
	<0.4 <5	<0.4 <5	<0.4 <5	0.4 <5	<0.4 <5	100	μg/L μg/L	EPA 549.2 EPA 548.1
Endothall		<0.01	<0.01	<0.01	<0.01	2	μg/L	EPA 505
Endothall Endrin	<0.01				<0.01	0.05		
	<0.01 <0.01	< 0.01	< 0.01	< 0.01	<0.01	0.03	μg/L	EPA 504.1
Endrin Ethylene Dibromide Glyphosate	<0.01 29	<0.01 11	38	38	<6	700	μg/L	EPA 547
Endrin Ethylene Dibromide Glyphosate Heptachlor	<0.01 29 <0.01	<0.01 11 <0.01	38 <0.01	38 <0.01	<6 <0.01	700 0.01	μg/L μg/L	EPA 547 EPA 505
Endrin Ethylene Dibromide Glyphosate Heptachlor Heptachlor Epoxide	<0.01 29 <0.01 <0.01	<0.01 11 <0.01 <0.01	38 <0.01 <0.01	38 <0.01 <0.01	<6 <0.01 <0.01	700 0.01 0.01	μg/L μg/L μg/L	EPA 547 EPA 505 EPA 505
Endrin Ethylene Dibromide Glyphosate Heptachlor	<0.01 29 <0.01	<0.01 11 <0.01	38 <0.01	38 <0.01	<6 <0.01	700 0.01	μg/L μg/L	EPA 547 EPA 505

Table 2-7a
Diluent Water Monitoring*: Local Runoff/ Stormwater

	Stormwater	Stormwater	Stormwater	Stormwater	Local Runoff			
Constituent	Cucamonga & Deer Creek @ Turner 1&2 Basins 02/22/22	Day Creek @ Lower Day Basin 02/16/22	Deer Creek @ Turner 3&4 Basins 02/22/22	San Antonio Creek @ Montclair Basins 02/16/22	West Cucamonga Creek @ Ely Basins 03/22/22	Max Level to Trigger Source Water Evaluation	li=:r	Marked
Constituent	<0.05			<0.05			Unit	Method EPA 505
Methoxychlor Molinate	<0.05 <0.5	<0.05 <0.5	<0.05 <0.5	<0.05 <0.5	<0.05 <0.5	30 20	μg/L μg/L	EPA 505 EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	μg/L μg/L	EPA 531.2
Pentachlorophenol	0.07	<0.04	0.05	< 0.04	<0.04	1	μg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	μg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	μg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	μg/L	EPA 505
Simazine	<0.5	<0.5	<0.5	<0.5	<0.5	4	μg/L	EPA 525.2
Thiobencarb	<0.5	<0.5	<0.5	<0.5	<0.5	70	μg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	μg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<4	<4	<4	<4	<4	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	μg/L	EPA 515.4
Disinfection Byproducts								
Total Trihalomethanes (TTHMs)	<2	<2	<2	<2	<2	80	μg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	<2	<2	6	<2	60	μg/L	SM 6251B
Bromate	1	2	<1	1	<1	10	μg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals								
Copper	10	13	11	16	1	1300	μg/L	EPA 200.7
Lead	0.8	2.6	1.0	3.3	<0.5	15	μg/L	EPA 200.8
Radionuclides								
Combined Radium-226 & Radium 228	<3	3	6	5	Pending Receipt	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	3	6	5	Pending Receipt	15	pCi/L	EPA 900.0/SM7110C
Tritium	<1000	<1000	<1000	<1000	Pending Receipt	20,000	pCi/L	EPA 906.0
Strontium-90	<2	<2	<2	<2	Pending Receipt	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	<3	8	7	6	Pending Receipt	50	pCi/L	EPA 900.0
Uranium	<1	<1	<1	1	<1	20	pCi/L	EPA 200.8
Chemicals w/ State Notification Levels							•	
Boron	<0.1	<0.1	<0.1	0.1	<0.1	1	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	μg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	μg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	μg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	<0.5	<0.5	160	μg/L	EPA 524.2
Chlorate	64	110	46	1100	<10	800	μg/L	EPA 300.0
2-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	140	μg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	140	μg/L	EPA 524.2
Diazinon	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	μg/L	EPA 525.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	<0.5	<0.5	<0.5	1000	μg/L	EPA 524.2
1,4 - Dioxane	<1	<1	<1	<1	<1	1	μg/L	EPA 522
Ethylene glycol	<5	<5	<5	<5	Pending Receipt	14	mg/L	EPA 8015B/504.1
Formaldehyde	15	36	22	25	<5	100	μg/L	EPA 556
HMX	<0.1	<0.1	<0.1	<0.1	<0.1	350	μg/L	EPA 8330B
Isopropylbenzene	<0.5	<0.5	< 0.5	< 0.5	<0.5	770	μg/L	EPA 524.2
Manganese	10	48	19	35	5	500	μg/L	EPA 200.8
Methyl isobutyl ketone (MIBK)	<2	<2	<2	<2	<2	120	μg/L	EPA 524.2
Naphthalene	<0.5	<0.5	<0.5	<0.5	<0.5	17	μg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-nitrosodimethylamine (NDMA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-Nitrosodi-n-propylamine (NDPA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
PFOS	7.7	5.2	5.0	8.0	<2.0	6.5	ng/L	EPA 537.1
PFOA	19	24	13	15	<2.0	5.1	ng/L	EPA 537.1
Propachlor	<0.5	<0.5	<0.5	<0.5	<0.5	90	μg/L	EPA 525.2
N-propylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	200	μg/L	EPA 524.2
RDX	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	μg/L	EPA 8330B
Tertiary butyl alcohol	<2	<2	<2	<2	<2	12	μg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	330	μg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	330	μg/L	EPA 524.2
2,4,6-Trinitrotoluene	<0.1	<0.1	<0.1	<0.1	<0.1	1	μg/L	EPA 8330B
Vanadium	7	7	6	<5	12	50	μg/L	EPA 200.8
Secondary Maximum Contaminant Leve								
Aluminum	402	1855	637	552	14	200	μg/L	EPA 200.7
Corrosivity	-1.5	-0.8	-0.6	-0.1	-1.8	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS)	0.3	0.3	0.3	0.4	<0.1	0.5	mg/L	SM 5540C/EPA 425.1
	444	<15	717	<15	48	300	μg/L	EPA 200.7
Iron		40	19	35	5	50	μg/L	EPA 200.7
Manganese	10	48						
Manganese OdorThreshold	4	4	2	4	8		TON	SM 2150B
Manganese OdorThreshold Silver	4 <0.25	4 <0.25	2 <0.25	4 2.7	8 <0.25	 100	TON μg/L	SM 2150B EPA 200.7
Manganese OdorThreshold	4	4	2	4	8		TON	SM 2150B

^{*} Diluent monitoring is monitored per the schedule identified in the CDPH-approved Diluent Water Monitoring Plan

Bold signifies an exceedance of the maximum level to trigger a source water evaluation. Explained in further detail in the report text.

^{**} Asbestos and Tritium were not analyzed in time for reporting by Eurofins Eaton Analytical

NA: Not analyzed, sampling error

Table 2-7b Diluent Water Monitoring: State Water Project - Silverwood Lake

Constituent	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Unit
Silica	11.2	10.9											mg/L
Calcium	25	24											mg/L
Magnesium	6	6											mg/L
Sodium	60	62											mg/L
Potassium	2.0	1.9											mg/L
Carbonate	0	0											mg/L
Bicarbonate	94	96											mg/L
Sulfate	50	51	Φ										mg/L
Chloride	60	62	Available										mg/L
Nitrate	2.2	2.1	a										mg/L
Fluoride	0.1	0.2	A										mg/L
Total Dissolved Solids	263	268	ti										mg/L
Total Hardness as CaCO ₃	84	85	Yet										mg/L
Total Alkalinity as CaCO ₃	77	79	Not										mg/L
Free Carbon Dioxide	1.6	1.4											mg/L
рН	7.99	8.06											unit
Specific Conductance	455	477											μmho/cm
Color	5												CU
Turbidity	1.7	0.4											NTU
Temperature	10	9											°C
Bromide	0.22	0.23											mg/L
Total Organic Carbon	2.96	2.90											mg/L

Table 2-8 Summary of Wells in Groundwater Monitoring Networks

BASIN	CBWM_ID	OWNER/LOCAL NAME	SEPARATION DISTANCE (feet)	SCREENED INTERVAL(S) (feet bgs)	CASING DIAMETER (inches)	STATUS	TYPE
	600490	Fontana Water Company - F7a***	3330 upgradient	590-1000	18	Active	Municipal
P SE	600660	California Speedway - Infield Well	2070 downgradient	NA NA	NA	Active	Industrial
and	3601365	California Speedway 2	2780 downgradient	451-455, 491-603, & 664-780	20	Active	Industrial
Hickory and Banana Basins	3600371	Reliant Energy - East Well	4070 downgradient	434-467, 500-513, 553-580, 593-652, & 825-847	20	Active	Industrial
ä⊞	601001	Inland Empire Utilities Agency - BH-1/1	340 downgradient	365-405	4	Active	Monitoring
_	601002	Inland Empire Utilities Agency - BH-1/2	340 downgradient	435-475	4	Active	Monitoring
	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Inactive	Municipal
SE SE	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	Active	Municipal
asi	600585	City of Ontario - 38*	4600 crossgradient	500-1010	16	Active	Municipal
Turner Basins	600997	Inland Empire Utilities Agency - TRN-1/1	50 downgradient	340-360	4	Active	Monitoring
r ne	600998	Inland Empire Utilities Agency - TRN-1/2	50 downgradient	380-400	4	Active	Monitoring
_ ₽	600999	Inland Empire Utilities Agency - TRN-2/1	50 downgradient	350-370	4	Active	Monitoring
	601000	Inland Empire Utilities Agency - TRN-2/2	50 downgradient	392-412	4	Active	Monitoring
Έ	300208	Jurupa Community Services District - 19	8900 downgradient	230-390	18	Active	Municipal
Bas	300207	Jurupa Community Services District - 17	5240 downgradient	259-290, & 300-400	NA	Active	Municipal
ez	300200	Jurupa Community Services District - 13	5730 downgradient	220-446	16-34	Active	Municipal
Declez Basin	300484	Inland Empire Utilities Agency - DCZ-1	50 downgradient	155-175	4	Active	Monitoring
۵		Inland Empire Utilities Agency - DCZ-2	4,100 downgradient	240-270	4	Active	Monitoring
ø	600492	Fontana Water Company - F23a	7900 upgradient	450-740	18	Active	Municipal
RP-3 Basins	600477	Inland Empire Utilities Agency - Southridge JHS	5500 downgradient	NA	NA	Active	Monitoring
Ba	600848	Alcoa - Offsite MW1	9480 downgradient	NA NA	NA	Active	Monitoring
ဗု	600850	Alcoa - Offsite MW3	4725 downgradient	NA NA	NA	Active	Monitoring
~	601040	Inland Empire Utilities Agency - RP3-1/1	100 downgradient	215-235	4	Active	Monitoring
Jurupa	601041	Inland Empire Utilities Agency - RP3-1/2	100 downgradient	265-285	4	Active	Monitoring
Basin			Not currently planned for	•			
7th & 8th Street Basins	3601561	San Antonio Water Company No. 12	740 downgradient	379-480, 525-563, 578-609, & 634-679	16	Inactive	Municipal
Ba	3601772	City of Ontario No. 4	3429 downgradient	526-910	16-20	Inactive	Municipal
eet		City of Ontario No. 51	3402 downgradient	Not Yet Constructed	NA	NA	Municipal
Str	600493	City of Ontario No. 35	9695 downgradient	580-1020	18-36	Active	Municipal
돭	601036	Inland Empire Utilities Agency - 8TH-1/1	150 downgradient	495-535	4	Active	Monitoring
જે	601037	Inland Empire Utilities Agency - 8TH-1/2	150 downgradient	595-645	4	Active	Monitoring
tł.	601038	Inland Empire Utilities Agency - 8TH-2/1	2460 downgradient	465-505	4	Active	Monitoring
	601039	Inland Empire Utilities Agency - 8TH-2/2	2460 downgradient	576-616	4 20	Active	Monitoring
	1901719	City of Pomona P-10	1983 downgradient	295-784		Active	Municipal
	1901713	City of Pomona P-04	2620 downgradient	254-338, & 403-452	NA 20	Inactive	Municipal
ins s	1904001 1903156	City of Pomona P-34 City of Pomona P-30	2550 downgradient 2160 crossgradient	363-367,380-400, 419-427 565-875	20 20	Active Inactive	Municipal Municipal
3ası	1903136	City of Pomona P-2	3455 downgradient	NA	NA	Active	Municipal
Brooks Basins	1903016	City of Pomona P-17	4500 downgradient	454-536	20	Inactive	Municipal
8	601050	Inland Empire Utilities Agency - BRK-1/1	144 downgradient	310-350	4	Active	Monitoring
ā	601051	Inland Empire Utilities Agency - BRK-1/2	144 downgradient	520-560	4	Active	Monitoring
	601048	Inland Empire Utilities Agency - BRK-2/1	1305 downgradient	320-360	4	Active	Monitoring
	601049	Inland Empire Utilities Agency - BRK-2/2	1305 downgradient	560-600	4	Active	Monitoring
0	600905	Cucamonga Valley Water District No. 39	8300-13170 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
s sine	601115	Inland Empire Utilities Agency - SS-1/1	~39-116 downgradient	640-680	4	Active	Monitoring
Sing		Inland Empire Utilities Agency - SSV-2	200 downgradient	370-395	4	Active	Monitoring
San Sevaine Basins	600576	Unitex IRR	~ 1338 downgradient	NA	NA	NA	Private Irrigation
SS	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
	600369	Unitex CalDOT	~ 2850 downgradient	400-684	NA	NA	Irrigation
ii -	600905	Cucamonga Valley Water District No. 39	4329 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
Victoria Basin	601033	Cucamonga Valley Water District No. 43**	8300 downgradient	650-800	32-42	Active	Municipal
Ξä	601117	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~39-116 downgradient	570-610	4	Active	Monitoring
		Inland Empire Utilities Agency - VCT-1/1 and 1/2	~ 2000 downgradient	570-610	4	Active	Monitoring
Ë	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	Active	Monitoring
Sas	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	Active	Monitoring
Ely Basin	3600975	Riverside Drive Well (43840-CWW)	6046 downgradient	NA	NA	Active	Private Irrigation
ш	600134	Bishop Of San Bernardino Corp DOM	6500 downgradient	NA	NA	Active	Private Domestic

Notes:

NA = Data not available

CBWM ID = Chino Basin Water Master well identification number

bgs = below ground surface

* = Ontario Well No. 38 replaced Ontario Well No. 19, which is inactive

** = Cucamonga Valley Water District No. 43 replaced CVWD Well Nos. 35 & 36, which are inactive.

*** = Fontana Water Company Well 7A replaced Fontana Water Company Well 37A (1Q18)

Table 2-9 Groundwater Monitoring Well Results (Quarterly)

	Sample Location	Date	TOC (mg/L)	Total Coliform (MPN/100mL)	玉	EC (µmho/cm)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (SI)	Foaming Agents (mg/L)	Fe (µg/L)	Mn (µg/L)	MTBE (µg/L)	Odor Threshold (TON)	Ag (µg/L)	Thiobencarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	TDS (mg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO₄ (mg/L)	Nitrogen, Total (mg/L)	NO ₂ -N (mg/L)	NO ₃ -N (mg/L)	Dissolved Oxygen (mg/L)
	Fontana Water Co F7a	01/18/22	<0.10	<1.1	7.8	403	<20	<3	<3	0.3	<0.1	<15	<2	<0.5	1	<0.5	<0.2	0.2	<20	252	11	173	17	14	6.4	<0.05	6.4	6.8
Banana	California Speedway - Infield Well	03/15/22	<0.10	<1.1	8.0	607	<20	5	3	0.7	<0.1	38	<2	<0.5	<1	<0.5	<0.2	0.2	<20	378	43	264	23	56	9.7	<0.05	9.7	6.4
& Hickory	California Speedway 2	01/25/22	<0.10	<1.1	7.8	357	<20	5	<3	0.3	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	232	9	157	18	8	3.7	<0.05	3.7	6.4
	BH-1/2*	03/02/22	0.35	<1.1	8.2	482	<20	<3	<3	0.6	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.9	<20	290	59	191	23	25	1.1	<0.05	1.1	6.1
	Ontario Well No. 29	01/26/22	<0.10	<1.1	7.6	339	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	214	7	130	23	11	1.9	<0.05	1.9	6.4
Turner	Ontario Well No. 38	01/26/22	<0.10	<1.1	7.7	315	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	202	6	125	19	7	1.8	<0.05	1.8	8.4
Turner	T-1/2*	02/08/22	0.45	<1.1	7.7	410	<20	<3	<3	0.1	<0.1	<15	<2	<0.5	1	<0.5	<0.2	0.5	<20	276	<2	129	38	21	<0.6	<0.05	0.3	2.5
	T-2/2*	02/15/22	0.60	<1.1	7.7	579	<20	5	<3	0.0	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.4	<20	344	81	166	52	35	1.0	<0.05	1.0	3.3
	Alcoa MW1*	03/22/22	0.77	>2419.6	7.4	673	<20	25	<3	0.2	<0.1	350	13	<0.5	2	<0.5	<0.2	13.0	<20	490	54	286	29	42	18.7	<0.05	18.7	3.8
	Alcoa MW3*	03/03/22	0.32	<1.1	7.1	1102	<20	<3	<3	0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.5	<20	674	185	441	50	58	16.9	<0.05	16.9	7.0
RP3	Fontana Water Co F23a	01/18/22	<0.10	<1.1	7.9	368	<20	5	<3	0.3	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	234	12	146	18	17	5.0	<0.05	5.0	8.5
	Southridge JHS	02/14/22	0.45	32	7.1	901	<20	5	<3	0.1	<0.1	<15	4	<0.5	<1	<0.5	<0.2	4.3	<20	562	82	338	55	67	15.9	<0.05	15.9	5.3
	RP3-1/1*	02/09/22	0.80	<1.1	7.4	812	<20	10	5	0.0	<0.1	<15	175	<0.5	<1	<0.5	<0.2	3.5	<20	472	119	204	86	50	3.1	<0.05	3.1	1.6
	8TH-1/1*	02/02/22	0.36	<1.1	7.2	493	<20	10	<3	-0.1	<0.1	<15	3	<0.5	<1	<0.5	<0.2	7.6	<20	290	90	208	12	29	0.9	<0.05	0.9	6.7
	8TH-1/2*	02/02/22	0.35	<1.1	7.8	498	<20	20	<3	0.6	<0.1	<15	30	<0.5	<1	<0.5	<0.2	16.3	<20	296	70	205	19	25	1.1	<0.05	1.1	6.2
7th & 8th Street	8TH-2/1*	02/03/22	<0.10	<1.1	8.3	512	<20	5	<3	0.9	<0.1	<15	3	<0.5	<1	<0.5	<0.2	1.9	<20	318	25	199	16	17	16.1	<0.05	16.1	8.2
	8TH-2/2*	02/03/22	<0.10	<1.1	8.4	468	<20	15	<3	0.3	<0.1	<15	4	<0.5	<1	<0.5	<0.2	11.0	<20	280	50	229	17	32	3.6	<0.05	3.6	8.4
	Ontario Well No. 35	01/26/22	<0.10	5	7.9	340	<20	<3	<3	-0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	206	7	130	23	19	3.2	<0.05	3.2	6.5
	Pomona Well No. 10	01/25/22	<0.10	<1.1	7.9	543	<20	<3	<3	0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.2	<20	330	43	243	12	39	8.3	<0.05	8.3	6.2
	BRK-1/1*	02/24/22	0.36	<1.1	7.8	561	<20	5	<3	0.2	<0.1	<15	16	<0.5	<1	<0.5	<0.2	4.3	<20	322	64	212	29	34	3.7	<0.05	3.7	8.2
Brooks	BRK-1/2*	02/24/22	<0.10	<1.1	7.8	640	<20	5	<3	0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.9	<20	388	25	296	14	49	22.0	<0.05	22.0	6.1
	BRK-2/1*	02/01/22	0.30	2	7.9	628	<20	5	<3	0.6	<0.1	<15	<2	<0.5	2	<0.5	<0.2	3.9	<20	376	59	299	12	40	9.1	<0.05	9.1	5.7
	BRK-2/2*	02/01/22	<0.10	2	7.4	427	<20	<3	<3	0.2	<0.1	<15	<2	<0.5	2	<0.5	<0.2	0.4	<20	274	12	148	32	26	11.0	<0.05	11.0	6.1
	Ely Basin MW2 Walnut St.*	03/01/22	1.75	<1.1	7.4	695	<20	5	<3	0.2	<0.1	<15	23	<0.5	2	<0.5	<0.2	0.2	<20	408	60	295	30	39	8.1	<0.05	8.1	5.1
Ely	Riverside Well (43840-CWW)*	01/17/22	<0.10	<1.1	7.7	548	<20	<3	<3	0.3	<0.1	<15	4	<0.5	<1	<0.5	<0.2	0.4	25	346	29	238	20	28	8.6	<0.05	8.6	7.1
	Bishop of SB Corp DOM	01/19/22	<0.10	<1.1	7.4	796	<20	5	<3	0.3	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	23	486	38	363	23	57	19.9	<0.05	19.9	4.7
	SS-1/1*	02/08/22	<0.10	<1.1	7.6	324	<20	<3	<3	-0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	3.0	<20	222	<2	124	17	18	2.8	<0.05	2.8	4.8
	SSV-2*	01/31/22	0.50	<1.1	7.6	772	<20	10	<3	0.3	<0.1	<15	10	<0.5	<1	<0.5	<0.2	15.2	<20	448	111	291	47	48	3.1	<0.05	3.1	5.4
	VCT-1/1*	02/23/22	0.50	<1.1	7.4	508	<20	<3	<3	-0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.9	<20	312	72	198	20	29	<0.6	<0.05	0.2	3.1
Victoria & San Sevaine	VCT-2/2	02/23/22	<0.10	<1.1	7.7	360	<20	<3	<3	0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.5	<20	234	19	147	18	11	5.3	<0.05	5.3	8.8
	CVWD Well No. 39	01/20/22	<0.10	<1.1	7.7	285	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	184	39	104	21	58	20.2	<0.05	20.2	5.7
	CVWD Well No. 43	03/09/22	<0.10	<1.1	8.0	329	<20	5	<3	0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	218	11	143	19	14	3.6	<0.05	3.6	5.9
	Unitex 91090*	01/31/22	<0.10	<1.1	8.0	408	<20	<3	<3	0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	250	36	172	17	22	1.9	<0.05	1.9	7.2
	JCSD Well No. 13	01/19/22	<0.10	<1.1	7.6	662	<20	<3	<3	0.3	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	422	83	256	28	30	7.5	<0.05	7.5	4.2
	JCSD Well No. 19	01/19/22	<0.10	<1.1	7.8	361	<20	5	<3	0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	226	12	129	26	12	4.4	<0.05	4.4	6.7
Declez	DCZ-1/1*	03/03/22	1.25	<1.1	7.8	545	<20	5	<3	0.3	<0.1	<15	123	<0.5	<1	<0.5	<0.2	3.7	<20	314	81	202	30	36	<0.6	<0.05	0.4	18.3
	DCZ-2*	02/14/22	0.30	<1.1	7.7	559	<20	<3	<3	0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	154	340	<2	194	37	35	9.5	<0.05	9.5	6.7
L	Detection Limit		0.3	1			20	3	3.0		0.10	15	2	1	1	0.50	0.20	0.1	20		2	3	1	1	0.6	0.05	0.1	
	Primary Maximum Con				0505	000	1000	45	1300		0.5	000	50	13		100	70	_	5000	500	050			050		1	10	
	Secondary Maximum Con		<u> </u>		6.5-8.5		200	15	1000		0.5	300	50	5	3	100	1	5	5000	500	250			250				

st Total dissolved metals reported for these wells. The remaining wells report total recoverable metals values.

Table 3-1
Diluent & Recycled Water Recharge Volume (Acre-Feet)

	Diluent Water															В	ecycle	d Wate	or.											
				lr	nporte	d Wate	er							Local	Runoff	/ Storr	n Flow					,								
Date	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevain e	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevain e	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevain e	Turner	Victoria
Apr-21	0	0	0	0	0	0	0	0	0	0	11	2	0	7	51	0	492	0	27	0	100	127	171	33	112	0	492	287	29	0
May-21	0	0	0	0	0	0	0	0	0	0	9	0	0	5	127	0	521	0	67	0	0	102	55	153	137	0	521	258	49	0
Jun-21	0	0	0	0	0	0	0	0	2	0	6	0	0	6	153	0	472	0	136	0	0	98	56	153	190	0	472	339	4	0
2Q21 Total	0	0	0	0	0	0	0	0	2	0	27	2	0	18	332	0	1485	0	231	0	100	326	282	338	438	0	1485	884	82	0
Jul-21	0	0	0	0	0	0	0	0	108	0	9	9	5	52	23	0	395	6	41	2	0	89	126	74	195	0	395	329	0	0
Aug-21	0	0	0	0	0	0	0	0	69	0	6	0	0	2	51	218	521	0	20	1	1	79	105	114	6	218	521	343	0	0
Sep-21	0	0	0	0	0	0	0	0	33	0	18	0	0	3	9	298	615	0	53	2	300	97	101	144	44	298	615	147	20	26
3Q21 Total	0	0	0	0	0	0	0	0	210	0	34	9	5	57	82	516	1531	6	114	6	301	265	332	332	245	516	1531	820	20	26
Oct-21	0	0	0	0	0	0	0	0	27	0	31	5	14	24	10	51	565	7	39	2	299	52	75	105	106	51	565	261	211	255
Nov-21	0	0	0	0	0	0	0	0	33	0	6	0	5	7	2	36	567	0	45	0	400	48	44	51	4	36	567	286	137	100
Dec-21	0	0	0	0	0	0	0	0	13	0	458	109	134	207	1073	8	283	732	625	314	118	2	27	0	0	8	283	133	33	96
4Q21 Total	0	0	0	0	0	0	0	0	73	0	496	114	153	239	1085	95	1415	738	709	315	817	102	147	156	110	95	1415	681	381	451
Jan-22	0	0	0	0	0	0	0	0	0	0	31	2	4	4	70	23	393	0	49	0	277	25	3	4	46	23	393	415	65	175
Feb-22	0	0	0	0	0	0	0	0	0	0	36	5	7	10	73	79	306	10	55	6	274	43	68	54	96	79	306	274	39	260
Mar-22	0	0	0	0	0	0	0	0	0	0	134	12	43	205	394	74	255	66	166	23	158	86	0	84	16	74	255	286	37	236
1Q22 Total	0	0	0	0	0	0	0	0	0	0	200	18	54	218	537	177	953	76	270	29	710	155	71	142	158	177	953	974	141	670

Table 6-1 MVWD ASR Project - TIN/TDS Mass Balance

					ASR W	ell No. 4				
			Injection			Recovery			Mass Balance	
	Date	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
	Apr-21	0.0	0.2	140	0	13.0	380	(1,784)	(32,891)	(881,072)
2021	May-21	0.0	0.2	140	0	13.0	380	(1,784)	(32,891)	(881,072)
7	Jun-21	0.0	0.2	140	31	13.0	380	(1,815)	(33,394)	(895,783)
	Jul-21	0.0	0.2	140	0	13.0	380	(1,815)	(33,396)	(895,843)
3Q21	Aug-21	0.0	0.2	140	0	13.0	380	(1,815)	(33,399)	(895,923)
(+)	Sep-21	0.0	0.2	140	0	13.0	380	(1,816)	(33,404)	(896,054)
	Oct-21	0.0	0.2	140	0	13.0	380	(1,816)	(33,406)	(896,139)
4Q21	Nov-21	0.0	0.2	140	0	13.0	380	(1,816)	(33,409)	(896,204)
4	Dec-21	0.0	0.2	140	11	13.0	380	(1,827)	(33,583)	(901,314)
	Jan-22	0.0	0.2	140	0	13.0	380	(1,827)	(33,587)	(901,408)
1022	Feb-22	0.0	0.2	140	0	13.0	380	(1,827)	(33,590)	(901,492)
_	Mar-22	0.0	0.2	140	84	13.0	380	(1,911)	(34,941)	(940,992)
					ASR We	ell No. 30				
			Injection			Recovery			Mass Balance	
	Date	Volume	TIN	TDS	Volume	TIN	TDS	Storage	TIN	TDS
	A 04	(AF)	(mg/L)	(mg/L)	(AF)	(mg/L)	(mg/L)	(AF)	(kg)	(kg)
21	Apr-21	0.0 0.0	0.2 0.2	140 140	0	12.0	320	739 730	(40,823)	(251,729)
2Q21	May-21				0	12.0	320	739	(40,823)	(251,729)
	Jun-21	0.0	0.2	140 140	0	12.0 12.0	320	738 738	(40,825)	(251,796)
21	Jul-21	0.0 0.0	0.2	140	0	12.0	320 320	738	(40,825)	(251,796) (251,796)
3Q21	Aug-21 Sep-21	0.0	0.2	140	1	12.0	320	736 737	(40,825) (40,847)	(251,796)
	Oct-21	0.0	0.2	140	1	12.0	320	736	(40,859)	· · · · · ·
4Q21	Nov-21	0.0	0.2	140	0	12.0	320	736	(40,861)	(252,689) (252,736)
40	Dec-21	0.0	0.2	140	0	12.0	320	736	(40,861)	(252,736)
	Jan-22	0.0	0.2	140	0	12.0	320	736	(40,861)	(252,736)
1022	Feb-22	0.0	0.2	140	0	12.0	320	736	(40,861)	(252,736)
10	Mar-22	0.0	0.2	140	0	12.0	320	736	(40,861)	(252,736)
Щ.	IVIQI-ZZ	0.0	0.2	170			520	730	(+0,001)	(202,100)
			Injection		ASR We	ell No. 32 Recovery			Mass Balance	
	ъ.	Volume	TIN	TDS	Volume	TIN	TDS	Storage	TIN	TDS
	Date	(AF)	(mg/L)	(mg/L)	(AF)	(mg/L)	(mg/L)	(AF)	(kg)	(kg)
-	Apr-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
2021	May-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
	Jun-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
_	Jul-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
3Q21	Aug-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
	Sep-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
-	Oct-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
4Q21	Nov-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
	Dec-21	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
2	Jan-22	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
1022	Feb-22	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)
	Mar-22	0.0	0.2	140	0	12.0	320	(3,066)	(45,143)	(712,136)

The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.

Cells shaded in grey reflect most recent lab values.

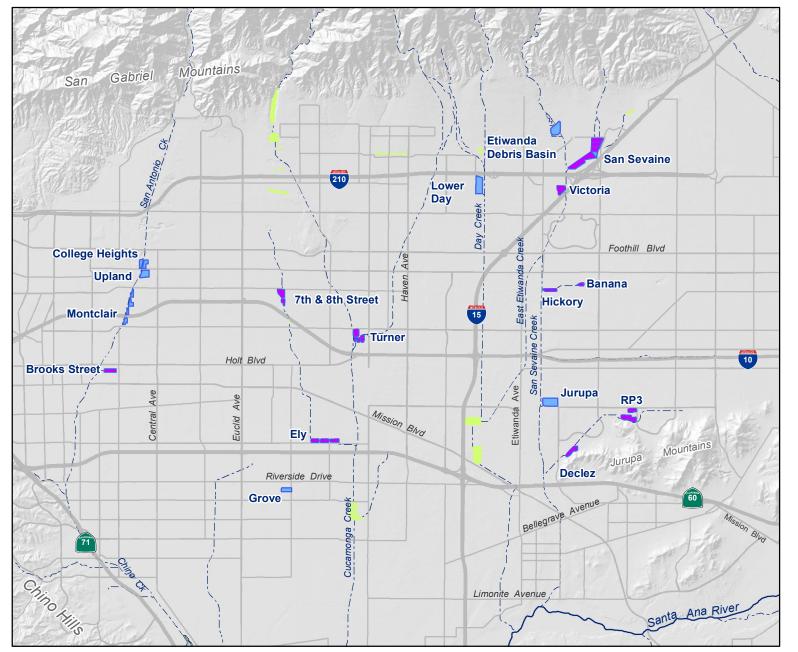
Table 6-1 MVWD ASR Project - TIN/TDS Mass Balance

					ASR We	ell No. 33						
			Injection			Recovery		Mass Balance				
	Date	Volume	TIN	TDS	Volume	TIN	TDS	Storage	TIN	TDS		
	Date	(AF)	(mg/L)	(mg/L)	(AF)	(mg/L)	(mg/L)	(AF)	(kg)	(kg)		
	Apr-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
2021	May-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
	Jun-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
	Jul-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
3021	Aug-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
(.)	Sep-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
	Oct-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
4Q21	Nov-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,680)	(1,153,682)		
7	Dec-21	0.0	0.2	140	0	12.0	320	(2,061)	(79,681)	(1,153,705)		
0.1	Jan-22	0.0	0.2	140	0	12.0	320	(2,061)	(79,681)	(1,153,705)		
1022	Feb-22	0.0	0.2	140	0	12.0	320	(2,061)	(79,681)	(1,153,705)		
	Mar-22	0.0	0.2	140	0	12.0	320	(2,061)	(79,681)	(1,153,705)		

The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.

Cells shaded in grey reflect most recent lab values.

		Total Project (All Wells)			
				Mass Balance	
	Date		Storage	TIN	TDS
			(AF)	(kg)	(kg)
_	Apr-21		(6,172)	(198,537)	(2,998,619)
2Q21	May-21		(6,172)	(198,537)	(2,998,619)
	Jun-21		(6,204)	(199,043)	(3,013,396)
	Jul-21		(6,204)	(199,045)	(3,013,457)
3Q21	Aug-21		(6,204)	(199,048)	(3,013,537)
(+)	Sep-21		(6,206)	(199,073)	(3,014,237)
	Oct-21		(6,207)	(199,088)	(3,014,645)
4Q21	Nov-21		(6,207)	(199,092)	(3,014,758)
4	Dec-21		(6,218)	(199,268)	(3,019,891)
0.1	Jan-22		(6,218)	(199,271)	(3,019,985)
1022	Feb-22		(6,218)	(199,274)	(3,020,069)
	Mar-22		(6,303)	(200,625)	(3,059,569)



Main Map Features

Recharge Basins in the Recycled Water Groundwater Recharge Program (Recycled Water not initiated)

Recharge Basins in the Recycled Water Groundwater Recharge Program (Recycled Water initiated)

Non-Program Basins

---- Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations



