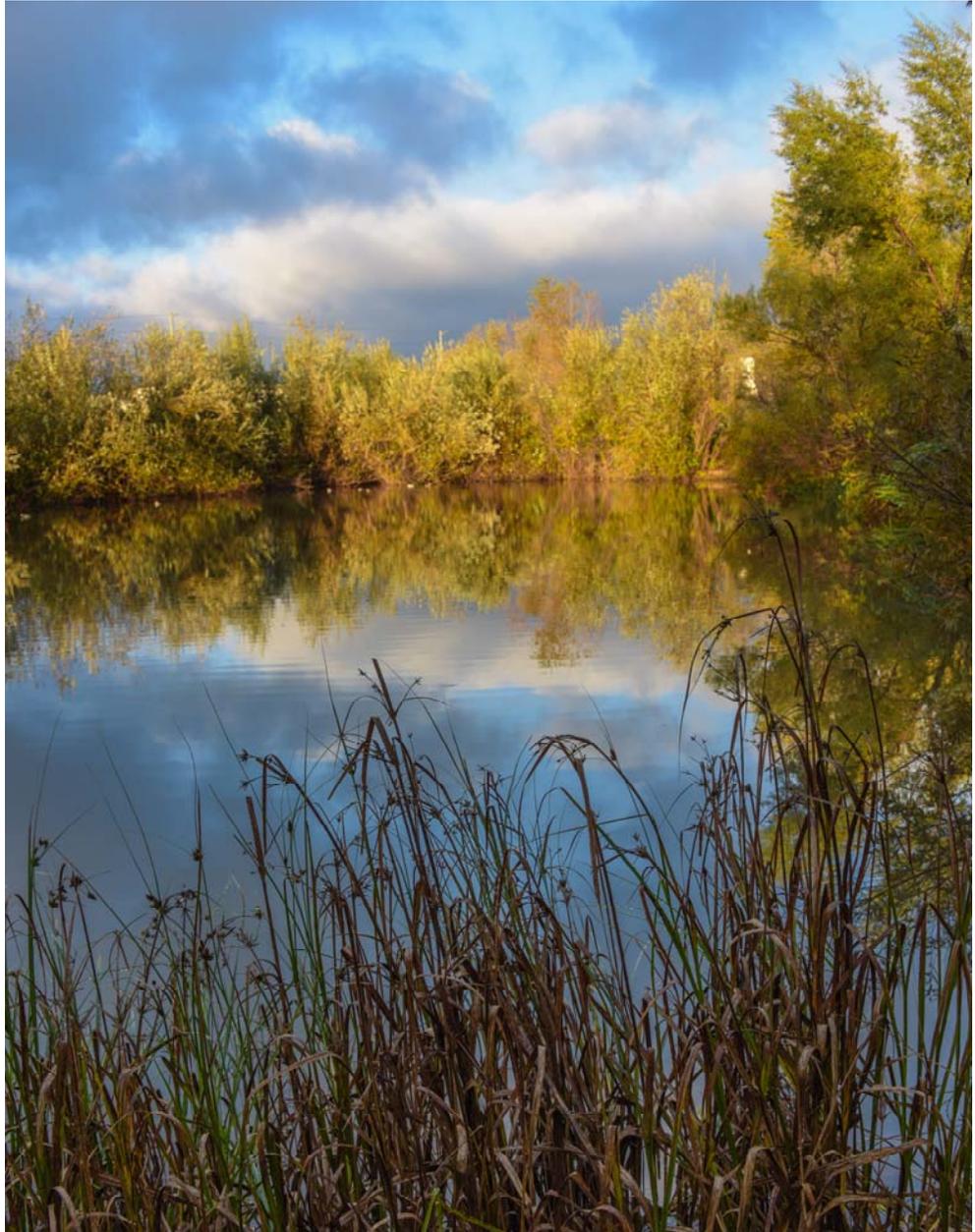


2019

IEUA FY 2018-2019 Recycled Water Annual Report

Water Smart
Thinking in Terms of Tomorrow



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

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INTRODUCTION

The 2018/19 Recycled Water Annual Report for the Inland Empire Utilities Agency (IEUA) recycled water program provides annual delivery data by IEUA retail member agencies, by usage types, and by customers. The 2018/19 report is for IEUA's fiscal year, which runs from July 2018 to June 2019. The report summarizes the program history, describes recent construction, and gives an overview of the IEUA treatment plants. IEUA provides wastewater treatment for its seven member agencies: the Cities of Chino, Chino Hills, Fontana, Montclair, Ontario, and Upland and Cucamonga Valley Water District. Recycled water from the treatment process is generated and delivered to its retail water agencies for use in the IEUA service area.

IEUA owns and operates five wastewater recycling facilities that serve over 875,000 people. **Figure 1** shows the IEUA service area, its member agencies, and the locations of IEUA's treatment plants. Of the five plants, four produce tertiary-treated, Title 22-quality recycled water. Of the treatment plants, RP-2 does not have any liquid treatment processes, and as such does not produce any recycled water. The general layout and capacities of the water recycling plants are discussed in the last section of the report. **Appendices A** and **B** contain the recycled water effluent monitoring data and recycled water compliance data, respectively, for the 2018 calendar year for the four recycled water facilities.

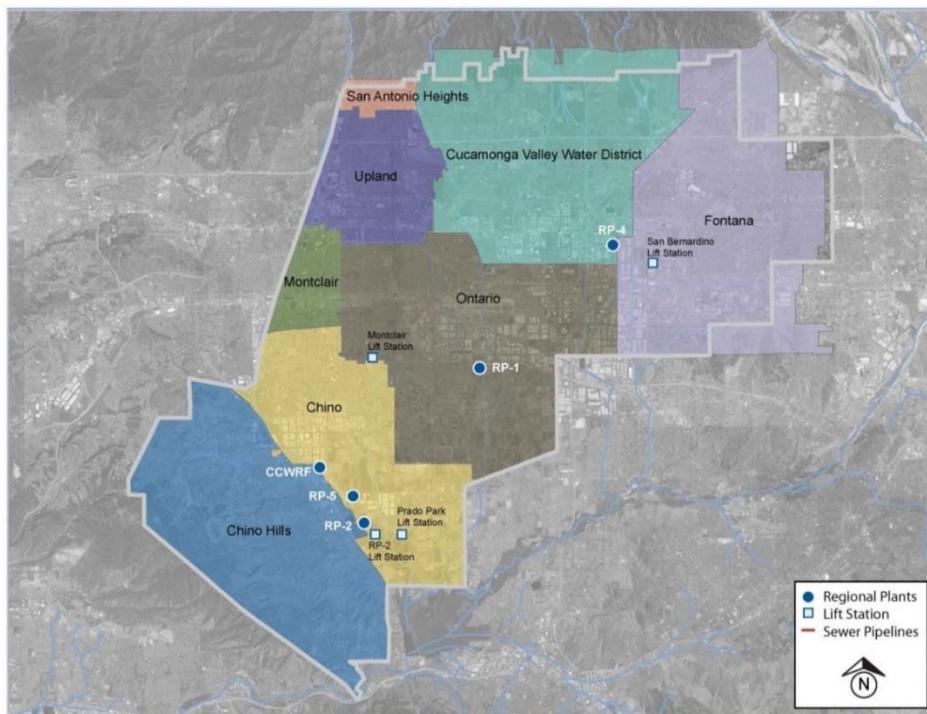


Figure 1 - IEUA Service Area

DEMANDS

During 2018/19, the average recycled water supply from IEUA’s facilities was approximately 49.7 million gallons per day (MGD), or 55,666 acre-feet per year (AFY). Recycled water groundwater recharge usage was 11,542 AFY and recycled water direct usage was 16,803 AFY. Total recycled water demands during 2018/19 were 28,345 acre-feet (AF), a decrease by 18% from the previous fiscal year. Recycled water recharge was down 15% and direct use was down 20%. The recycled water delivery volumes of direct use and groundwater recharge can vary seasonally and annually based on a variety of factors (e.g. the rainfall intensity, rainfall duration, and recharge basin maintenance activities). **Figure 2** shows IEUA’s historical direct use and groundwater recharge of recycled water for the past 10 years.

Recycled water demands for the combined direct use and recharge purposes were approximately 51 percent of the available supply. During the peak demand summer months (July through September), the total recycled water demands were approximately 87 percent of the available supply.

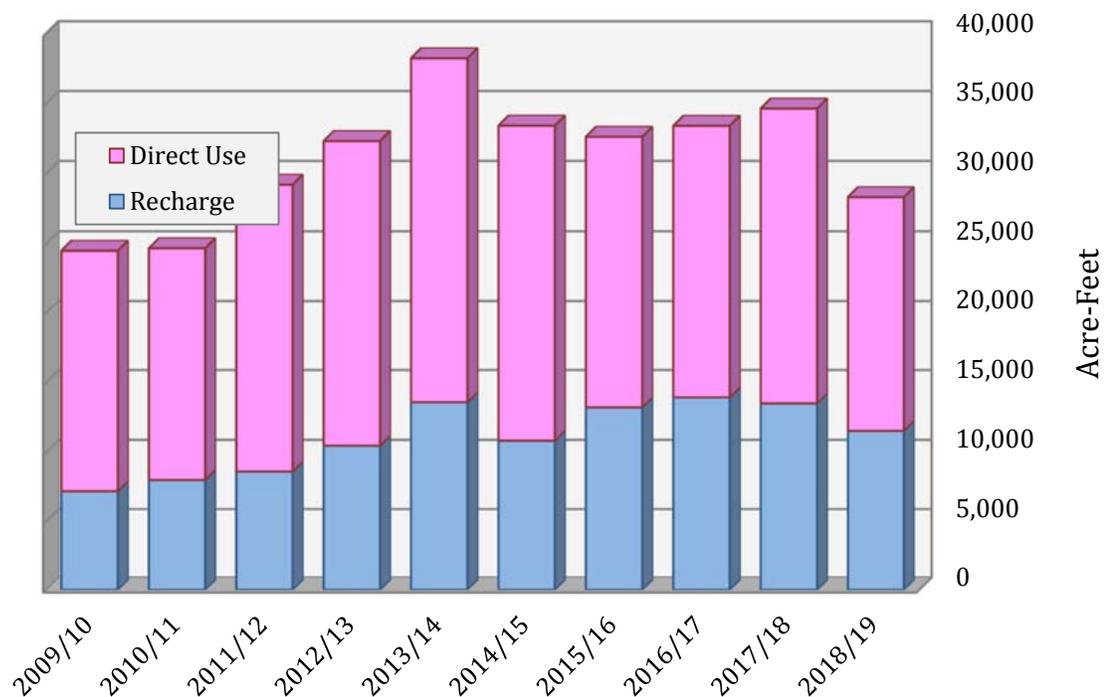


Figure 2 – Historical Recycled Water Direct Use and Groundwater Recharge

DEMANDS BY USE TYPE

Delivered recycled water was beneficially reused for a variety of applications including landscape irrigation, agricultural irrigation, industrial process water, construction, and groundwater recharge. **Table 1** and **Figure 3** show the 2018/19 recycled water demand by use type.

Table 1 – Recycled Water Demand by Use Type for 2018/19

Type of Use	Demand (AF)	Percent of Demand
Recharge	11,542	41%
Agriculture	5,850	21%
Landscape	9,469	33%
Industrial	1,078	4%
Construction	406	1%
Total Demand	28,345	100%

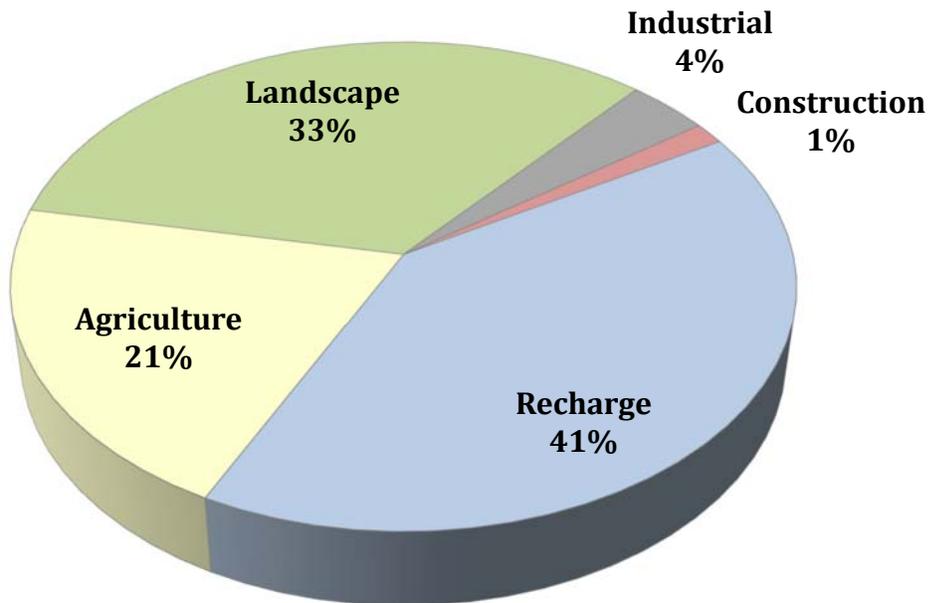


Figure 3 – Recycled Water Demand by Use Type for 2018/19

RETAIL DEMANDS

IEUA is the wholesale recycled water provider to its member agencies, which in turn are retail agencies that directly serve their customers. IEUA member agencies which served recycled water in 2018/19 include:

- City of Chino,
- City of Chino Hills,
- City of Ontario,
- Cucamonga Valley Water District (CVWD),
- Montclair (through MVWD),
- Fontana (through FWC), and
- City of Upland

Monte Vista Water District (MVWD) and Fontana Water Company (FWC) are the water retailers in the Cities of Montclair and Fontana, respectively, but are not IEUA member agencies. MVWD and FWC retail recycled water obtained from their overlying cities which are IEUA member agencies. San Bernardino County is currently a direct use customer of IEUA based on long standing historical contracts.

Table 2 shows the recycled water demand by agency. Each agency's total includes its direct use and its allocation from IEUA for recycled water groundwater recharge based on IEUA's Regional Sewage Service Contract.

Table 2 – Recycled Water Demand by Agency for 2018/19

Retail Agency	Direct Use (AF)	Recharge Allocation (AF)	Agency Total (AF)
Chino	4,760	1,240	6,000
Chino Hills	1,548	1,018	2,566
CVWD	996	2,837	3,833
Fontana/FWC	143	2,233	2,377
Montclair/MVWD	289	495	784
Ontario	7,511	2,634	10,145
Upland	709	1,084	1,793
IEUA	685	0	685
San Bernardino County	162	0	162
Subtotal	16,803	11,542	28,345

CUSTOMERS DEMANDS

Table 3 lists the top ten largest direct reuse customer sites for the fiscal year (excluding groundwater recharge sites). During 2018/19, ninety-nine (99) new connections were made to the recycled water system with a total new demand estimated at 596 AFY. Connected new demand is the anticipated annual usage based on land size and previous potable water usage history.

Table 3 – Top 10 Recycled Water Customers for 2018/19

Customer	Use (AF)	Type of Use	Retailer
Cleveland Farm	2,203	Agricultural	Ontario
New Indy Ontario	907	Industrial	Ontario
Cal Poly Pomona	875	Agricultural	Chino
Murai Farm	596	Agricultural	Ontario
Whispering Lakes Golf Course	554	Landscape	Ontario
IEUA Headquarters	529	Landscape	IEUA
GH Dairy	485	Agricultural	Ontario
Superior Sod	448	Agricultural	Chino
Weststeyn Dairy	409	Agricultural	Chino
Los Serranos Golf Course	385	Landscape	Chino Hills
Subtotal	7,390		

ECONOMIC AND ENVIRONMENTAL IMPACTS

The 28,345 AF of recycled water used during the fiscal year is the equivalent of the water supply for roughly 56,690 homes. The use of recycled water reduces the need to pump State Water Project water over the Tehachapi Mountains, an equivalent net energy demand reduction of 1,940 kilowatt-hours (kWh) per AF, and an overall reduction of approximately 53 percent in carbon dioxide emissions.

IEUA's wholesale recycled water rate to its member agencies for 2018/19 was \$480/AF for direct usage and \$540/AF for recharge.

HISTORY

Early water recycling efforts in the 1970s by IEUA involved irrigation at the Whispering Lakes Golf Course adjacent to RP-1 in Ontario and at the El Prado Park and Golf Course in Chino. In the 1980s, recycled water continued to be an integral part of IEUA planning with implementation of the CCWRF and RP-4 recycling plants. These two recycling plants were sited specifically at higher elevations to reduce recycling plants water pumping costs. A backbone recycled water distribution system was installed in Chino and Chino Hills from CCWRF in 1997 and was initially operated by IEUA under Ordinance No. 63. This system was later turned over to the City of Chino and the City of Chino Hills and forms the core of the recycled water distribution network operated by these two cities.

The first major regional pipeline was constructed in 1995 and served the dual purpose of a regional recycled water distribution pipeline and an outfall allowing RP-4 effluent to be discharged with RP-1 effluent into Cucamonga Creek. The RP-4 outfall was designed as a pressurized system so that water could be pumped up from RP-1 to RP-4 as well as flow down in the opposite direction from RP-4 to RP-1 and the creek outfall.

In 1999, IEUA began groundwater recharge with recycled water at Ely Basin. The initial Ely Basin project was followed by the Chino Basin Watermaster's (CBWM) development of the Optimum Basin Management Program (OBMP) and the region's efforts (including IEUA's) to implement the OBMP. In 2000, the OBMP identified recycled water use as a critical component in drought-proofing and maintaining the region's economic growth. With imported water rates increasing and long-term supply reliability declining, the region committed to aggressively and proactively address regional impacts. The OBMP set the path for the development of a regional recycled water distribution system and a Recycled Water Implementation Plan.

The use of recycled water presented several advantages to IEUA and its member agencies: it is one of the most significant unused local water supplies; it is reliable during drought and climate change conditions; and it requires significantly less energy than imported water to deliver to customers and thus reduces greenhouse gas emissions. IEUA in partnership with its member agencies and CBWM invested approximately \$625 million since 2000 to increase the availability of local water supplies through water recycling, conservation, recharge improvements, the MWD groundwater storage and recovery project, the Chino Desalter, and other water management programs.

In 2002, IEUA Board of Directors adopted Ordinance No. 75, the Mandatory Use Ordinance, to establish incentives and encourage recycled water use from the regional distributions system. Also in 2002, the CBWM, Chino Basin Water Conservation District (CBWCD), San Bernardino

County Flood Control District (SBCFCD) and IEUA joined forces to greatly expand groundwater recharge capacity through the Chino Basin Facilities Improvement Program.

In 2005, IEUA was permitted by the Regional Water Quality Control Board (RWQCB) to operate its recycled water groundwater recharge programs at five additional recharge basins (Banana, Hickory, Etiwanda Conservation Ponds, Decluz, RP3, and Turner basins). In 2007, IEUA was permitted to operate its recycled water groundwater recharge program at seven more recharge sites (Brooks, 8th Street, Victoria, Lower Day, San Sevaine, Etiwanda Spreading Grounds (later reconfigured as the Etiwanda Debris Basin) and Ely Basins. The 2007 permit was amended in 2009 to modify how IEUA tracks diluent water and recycled water blending, which effectively increased IEUA's ability to recharge using recycled water.

In November 2007, IEUA and its member agencies unanimously adopted the Three Year Recycled Water Business Plan. IEUA and its member agencies committed to implementing the plan, which laid out a focused and cost-effective approach to rapidly increase the availability and use of recycled water within IEUA's service area.

Based on the series of regional decisions since 2000, over \$350 million was invested into the implementation of a robust Recycled Water Program. The region has achieved program success by leveraging heavily on grant funding and loans. With unanimous regional support, annual recycled water use grew from approximately 5,000 AF in 2004/05 to 38,251 AF in FY 2013/14. Over the past five fiscal years, recycled water demand has fallen slightly, which has been primarily driven by land use conversion from agriculture to urban.

TREATMENT PLANTS

IEUA owns and operates five regional water recycling facilities: RP-1, RP-2, RP-4, RP-5, and CCWRF. Of the treatment plants, RP-2 does not have any liquid treatment processes, and as such does not produce any recycled water. The combined treatment capacity of the remaining four plants is approximately 85 MGD. With the planned plant expansion of RP-5 over the coming years, an additional 15 MGD average capacity will be achieved, which will increase the combined treatment capacity to approximately 100 MGD.

APPENDIX A
RECYCLED WATER
EFFLUENT MONITORING DATA
FOR CALENDAR YEAR 2018

Inland Empire Utilities Agency
Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

RP-1 (M-001A* & M-001B) Effluent Monitoring Data

Table No. 3a

Date	Flow			EC			pH			BOD ₅				TSS				TOC			TDS			TIN			TN			NH ₃ -N (grab)				
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min									
Limit>>>	MGD			µmhos/cm			unit			mg/L				mg/L				mg/L			mg/L			mg/L			mg/L							
							6.5 -8.5			20				15													4.5							
Jan-18	4.7	0.0	6.0	783	672	1003	6.9	6.7	7.3	<2	<2	2	0.5	<2	<2	<2	0.5	5.7	5.2	6.3	487	428	514	6.0	3.4	8.7	7.1	5.7	8.7	<0.1	<0.1	<0.1		
Feb-18	5.9	3.8	7.0	839	682	912	7.0	6.7	7.1	<2	<2	<2	0.5	<2	<2	<2	0.5	5.4	4.5	6.0	513	504	526	5.1	2.9	6.7	5.9	4.5	6.6	<0.1	<0.1	<0.1		
Mar-18	5.0	3.3	6.0	853	801	929	6.9	6.7	7.1	<2	<2	<2	0.5	<2	<2	<2	0.4	5.9	5.2	6.6	529	514	552	4.4	2.6	6.0	5.4	4.4	6.4	<0.1	<0.1	<0.1		
Apr-18	6.0	5.9	6.1	839	682	912	7.1	6.6	7.2	<2	<2	2	0.4	<2	<2	<2	0.5	6.1	5.4	6.8	508	490	530	4.2	3.4	5.3	5.0	4.1	5.3	<0.1	<0.1	<0.1		
May-18	3.0	0.0	6.0	894	849	951	7.0	6.6	7.1	<2	<2	2	0.4	<2	<2	<2	0.5	6.6	5.9	7.6	532	508	554	4.1	3.0	5.4	5.3	5.0	6.1	<0.1	<0.1	0.2		
Jun-18	2.0	0.0	3.1	907	866	939	7.1	6.9	7.2	<2	<2	2	0.5	<2	<2	<2	0.5	6.4	5.6	9.5	538	508	566	4.1	2.7	6.0	5.1	4.3	6.5	<0.1	<0.1	<0.1		
Jul-18	3.0	0.5	4.2	880	844	943	7.2	6.8	8.1	<2	<2	<2	0.4	<2	<2	<2	0.4	6.2	5.7	6.6	518	504	536	4.6	3.1	6.5	5.2	4.5	6.2	<0.1	<0.1	<0.1		
Aug-18	3.9	3.0	6.0	865	825	896	7.1	6.9	7.2	<2	<2	<2	0.5	<2	<2	<2	0.5	5.9	5.6	6.3	510	504	524	4.4	3.1	5.3	5.4	5.0	5.9	<0.1	<0.1	<0.1		
Sep-18	3.9	2.0	6.8	880	843	921	7.0	6.9	7.2	<2	<2	<2	0.5	<2	<2	<2	0.5	5.7	5.1	6.4	511	494	522	4.9	4.3	5.6	5.8	5.5	6.1	<0.1	<0.1	<0.1		
Oct-18	3.2	0.9	5.1	935	884	1044	7.0	6.8	7.2	<2	<2	<2	0.6	<2	<2	<2	0.5	5.9	5.4	6.3	529	512	554	4.3	3.0	6.0	6.0	5.3	6.8	<0.1	<0.1	<0.1		
Nov-18	2.8	1.8	4.1	928	889	966	7.1	6.9	7.3	<2	<2	<2	0.7	<2	<2	<2	0.5	5.9	5.5	6.5	536	526	550	5.2	4.8	5.6	6.0	5.6	6.3	<0.1	<0.1	0.1		
Dec-18	0.9	0.0	3.5	900	873	923	7.1	6.9	7.3	<2	<2	<2	0.5	<2	<2	<2	0.5	5.8	5.2	6.4	519	506	532	4.6	3.5	5.5	5.5	4.3	6.5	<0.1	<0.1	<0.1		
Avg	3.7	1.8	5.3	875	809	945	7.0	6.8	7.3	<2	<2	<2	0.5	<2	<2	<2	0.5	6.0	5.4	6.8	519	500	538	4.7	3.3	6.0	5.6	4.9	6.5	<0.1	<0.1	<0.1		
Min	0.9	0.0	3.1	783	672	896	6.9	6.6	7.1	<2	<2	<2	0.4	<2	<2	<2	0.4	5.4	4.5	6.0	487	428	514	4.1	2.6	5.3	5.0	4.1	5.3	<0.1	<0.1	<0.1		
Max	6.0	5.9	7.0	935	889	1044	7.2	6.9	8.1	<2	<2	2	0.7	<2	<2	<2	0.5	6.6	5.9	9.5	538	526	566	6.0	4.8	8.7	7.1	5.7	8.7	<0.1	<0.1	0.2		

*M-001A is the compliance point for continuous monitoring parameters, TDS, and toxicity.

RP-1/RP-4 (M-002A) Effluent Monitoring Data

Table No. 3b

Date	Flow			EC			pH			BOD ₅				TSS				TOC			TDS			TIN			TN			NH ₃ -N (grab)				
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min									
Limit>>>	MGD			µmhos/cm			unit			mg/L				mg/L				mg/L			mg/L			mg/L			mg/L							
							6.5 -8.5			20				15													4.5							
Jan-18	19.6	6.2	33.5	636	571	702	7.1	6.6	7.6	<2	<2	2	0.5	<2	<2	2	0.5	5.5	5.1	6.3	464	452	476	5.2	3.4	8.1	5.9	5.9	5.9	<0.1	<0.1	<0.1		
Feb-18	8.7	0.6	24.3	722	671	834	6.8	6.7	7.0	<2	<2	<2	0.5	<2	<2	<2	0.5	5.3	4.8	6.0	493	480	508	4.9	3.1	6.9	6.5	6.5	6.5	<0.1	<0.1	<0.1		
Mar-18	23.1	4.4	31.2	695	651	750	6.8	6.6	7.0	<2	<2	<2	0.5	<2	<2	<2	0.5	5.8	4.1	6.2	496	482	510	3.7	2.2	5.4	6.0	6.0	6.0	<0.1	<0.1	0.1		
Apr-18	3.2	0.3	6.8	706	662	772	6.9	6.6	7.2	<2	<2	4	0.5	<2	<2	<2	0.5	5.9	5.2	6.8	497	476	520	4.4	3.3	6.1	5.8	5.8	5.8	<0.1	<0.1	<0.1		
May-18	4.1	0.2	10.5	700	657	860	6.9	6.6	7.2	<2	<2	2	0.4	<2	<2	<2	0.5	6.4	5.2	8.0	501	492	512	4.1	2.6	5.5	6.2	6.2	6.2	<0.1	<0.1	0.1		
Jun-18	2.7	0.1	10.1	694	628	863	6.9	6.7	7.2	<2	<2	<2	0.5	<2	<2	3	0.5	6.0	5.3	6.7	511	496	548	3.9	2.6	5.3	4.6	4.6	4.6	<0.1	<0.1	<0.1		
Jul-18	0.8	0.1	2.6	662	631	718	6.8	6.5	7.0	<2	<2	2	0.5	<2	<2	<2	0.5	6.0	5.5	6.9	510	492	522	4.4	3.0	5.8	6.3	6.3	6.3	<0.1	<0.1	<0.1		
Aug-18	1.8	0.1	5.2	683	635	833	6.9	6.6	7.1	<2	<2	<2	0.6	<2	<2	<2	0.5	5.6	5.2	6.0	499	484	518	4.0	3.1	5.1	4.7	4.7	4.7	<0.1	<0.1	<0.1		
Sep-18	4.0	0.3	9.1	825	738	925	6.9	6.6	7.1	<2	<2	<2	0.5	<2	<2	<2	0.5	5.4	4.9	6.0	493	470	510	4.6	3.4	5.6	5.9	5.9	5.9	<0.1	<0.1	<0.1		
Oct-18	14.9	6.2	28.1	826	713	905	6.8	6.6	6.9	<2	<2	<2	0.6	<2	<2	<2	0.5	5.6	5.0	6.2	502	490	516	4.1	2.9	5.3	6.9	6.9	6.9	<0.1	<0.1	<0.1		
Nov-18	11.5	2.0	32.5	876	779	985	6.8	6.6	7.1	<2	<2	2	0.6	<2	<2	<2	0.5	5.8	5.2	7.8	501	480	520	6.0	6.0	6.0	6.8	6.8	6.8	<0.1	<0.1	0.1		
Dec-18	21.1	6.8	37.7	728	655	806	6.9	6.7	7.0	<2	<2	<2	0.5	<2	<2	<2	0.5	5.6	5.1	6.3	477	448	498	4.1	4.1	4.1	4.9	4.9	4.9	<0.1	<0.1	<0.1		
Avg	9.6	2.3	19.3	729	666	829	6.9	6.6	7.1	<2	<2	<2	0.5	<2	<2	<2	0.5	5.7	5.1	6.6	495	479	513	4.4	3.3	5.8	5.9	5.9	5.9	<0.1	<0.1	<0.1		
Min	0.8	0.1	2.6	636	571	702	6.8	6.5	6.9	<2	<2	<2	0.4	<2	<2	<2	0.5	5.3	4.1	6.0	464	448	476	3.7	2.2	4.1	4.6	4.6	4.6	<0.1	<0.1	<0.1		
Max	23.1	6.8	37.7	876	779	985	7.1	6.7	7.6	<2	<2	4	0.6	<2	<2	3	0.5	6.4	5.5	8.0	511	496	548	6.0	6.0	8.1	6.9	6.9	6.9	<0.1	<0.1	0.1		

Inland Empire Utilities Agency
Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

RP-5 (M-003) Effluent Monitoring Data

Table No. 3c

Date	Flow			EC			pH			BOD ₅				TSS				TOC			TDS			TIN			TN			NH ₃ -N (grab)				
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min
Limit>>>	MGD			µmhos/cm			unit			mg/L				mg/L				mg/L			mg/L			mg/L			mg/L							
Jan-18	5.2	3.5	8.8	1058	994	1119	6.8	6.5	6.9	<2	<2	<2	0.5	<2	<2	2	0.5	5.0	4.4	5.6	499	452	550	5.3	3.0	6.5	5.8	5.8	5.8	<0.1	<0.1	0.1		
Feb-18	3.4	1.4	4.5	1111	1068	1178	6.8	6.6	6.9	<2	<2	<2	0.6	<2	<2	<2	0.6	5.3	5.0	5.5	520	496	532	6.6	5.0	7.9	6.6	6.6	6.6	<0.1	<0.1	<0.1		
Mar-18	4.6	2.8	6.4	933	835	1098	6.8	6.6	6.9	<2	<2	2	0.6	<2	<2	5	0.7	5.5	5.0	6.2	524	510	540	7.6	6.3	9.7	7.1	7.1	7.1	<0.1	<0.1	<0.1		
Apr-18	2.9	1.7	4.4	941	907	1028	6.9	6.6	7.1	<2	<2	<2	0.5	<2	<2	2	0.6	5.2	4.6	6.0	536	518	550	7.5	6.5	8.8	7.2	7.2	7.2	<0.1	<0.1	<0.1		
May-18	2.2	1.2	4.1	949	916	1002	6.9	6.6	7.1	<2	<2	<2	0.5	<2	<2	2	0.6	5.1	3.9	6.8	544	520	562	7.0	5.7	8.9	6.3	6.3	6.3	<0.1	<0.1	<0.1		
Jun-18	1.9	0.0	4.6	993	942	1031	6.9	6.6	7.2	<2	<2	<2	0.4	<2	<2	<2	0.5	4.9	4.4	5.2	561	544	574	6.3	4.8	7.5	6.2	6.2	6.2	<0.1	<0.1	<0.1		
Jul-18	0.0	0.0	0.0	994	950	1029	7.1	6.9	7.4	<2	<2	<2	0.5	<2	<2	<2	0.6	4.8	4.2	6.4				7.3	6.1	9.0	7.4	7.4	7.4					
Aug-18	0.0	0.0	0.0	984	959	1009	6.9	6.8	7.1	<2	<2	<2	0.8	<2	<2	<2	0.7	4.5	4.1	4.9				7.1	6.3	9.1	7.2	7.2	7.2					
Sep-18	2.3	0.0	4.7	992	957	1024	6.7	6.5	7.0	<2	<2	<2	0.6	<2	<2	<2	0.5	4.6	4.3	4.9	519	496	570	6.9	5.4	10.0	6.7	6.7	6.7	<0.1	<0.1	<0.1		
Oct-18	5.0	2.7	7.6	990	961	1012	6.8	6.5	7.0	<2	<2	<2	0.7	<2	<2	<2	0.6	4.8	4.5	5.4	537	516	546	6.7	5.5	8.1	6.8	6.8	6.8	<0.1	<0.1	<0.1		
Nov-18	4.1	2.5	6.0	969	915	1015	6.9	6.6	7.0	<2	<2	2	0.7	<2	<2	2	0.7	4.9	4.4	8.4	548	520	562	6.9	6.9	6.9	7.6	7.6	7.6	<0.1	<0.1	<0.1		
Dec-18	6.0	3.5	9.0	887	830	928	6.8	6.7	7.0	<2	<2	2	0.6	<2	<2	<2	0.7	5.0	4.5	9.3	537	530	550	7.2	7.2	7.2	7.8	7.8	7.8	<0.1	<0.1	<0.1		
Avg	3.1	1.6	5.0	984	936	1039	6.8	6.6	7.1	<2	<2	<2	0.6	<2	<2	<2	0.6	5.0	4.4	6.2	532	510	554	6.9	5.7	8.3	6.9	6.9	6.9	<0.1	<0.1	<0.1		
Min	0.0	0.0	0.0	887	830	928	6.7	6.5	6.9	<2	<2	<2	0.4	<2	<2	<2	0.5	4.5	3.9	4.9	499	452	532	5.3	3.0	6.5	5.8	5.8	5.8	<0.1	<0.1	<0.1		
Max	6.0	3.5	9.0	1111	1068	1178	7.1	6.9	7.4	<2	<2	2	0.8	<2	<2	5	0.7	5.5	5.0	9.3	561	544	574	7.6	7.2	10.0	7.8	7.8	7.8	<0.1	<0.1	0.1		

*Lab EC data used

CCWRF (M-004) Effluent Monitoring Data

Table No. 3d

Date	Flow			EC			pH			BOD ₅				TSS				TOC			TDS			TIN			TN			NH ₃ -N (grab)				
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg Dis	Avg	Min	Max	Avg	Min	Max	Avg	Min									
Limit>>>	MGD			µmhos/cm			unit			mg/L				mg/L				mg/L			mg/L			mg/L			mg/L							
Jan-18	3.2	1.0	8.1	841	750	898	6.8	6.6	7.1	<2	<2	<2	0.4	<2	<2	<2	0.4	6.5	5.8	7.4	490	456	522	5.0	3.8	6.3	5.4	5.4	5.4	<0.1	<0.1	<0.1		
Feb-18	1.1	0.9	2.9	907	868	933	6.8	6.6	7.0	<2	<2	2	0.5	<2	<2	<2	0.5	7.3	6.9	7.8	534	518	548	5.2	3.7	6.0	5.9	5.9	5.9	<0.1	<0.1	<0.1		
Mar-18	4.8	1.5	7.9	921	889	947	6.8	6.6	7.0	<2	<2	<2	0.4	<2	<2	<2	0.5	6.9	6.0	7.6	536	516	552	5.0	3.7	6.4	6.6	6.6	6.6	<0.1	<0.1	<0.1		
Apr-18	2.0	0.9	8.0	946	910	990	6.9	6.6	7.1	<2	<2	<2	0.4	<2	<2	<2	0.6	6.0	5.0	6.5	556	522	648	4.9	3.5	6.1	4.7	4.7	4.7	<0.1	<0.1	<0.1		
May-18	1.2	0.0	4.5	931	881	985	6.8	6.5	7.8	<2	<2	<2	0.5	<2	<2	2	0.6	5.6	4.8	6.2	548	532	572	5.2	4.1	6.6	5.9	5.9	5.9	<0.1	<0.1	<0.1		
Jun-18	0.0	0.0	0.0	874	833	899	7.1	7.0	7.2	<2	<2	<2	0.5	<2	<2	<2	0.7	5.9	5.2	6.7				5.1	3.9	5.7	6.4	6.4	6.4					
Jul-18	0.0	0.0	0.0	893	869	912	7.1	7.0	7.2	<2	<2	<2	0.5	<2	<2	<2	0.7	6.0	5.1	6.8				4.8	3.8	5.9	6.7	6.7	6.7					
Aug-18	0.0	0.0	0.0	888	864	905	7.1	7.0	7.3	<2	<2	<2	0.6	<2	<2	<2	0.6	6.3	5.9	6.8				5.0	3.1	5.8	6.6	6.6	6.6					
Sep-18	0.0	0.0	0.0	860	834	887	7.1	7.0	7.3	<2	<2	<2	0.5	<2	<2	<2	0.6	5.7	5.1	6.4				5.1	3.9	5.8	6.7	6.7	6.7					
Oct-18	0.0	0.0	0.0	884	843	925	7.1	7.0	7.3	<2	<2	<2	1.0	<2	<2	<2	0.7	5.6	5.2	6.1				4.8	4.2	5.4	6.4	6.4	6.4					
Nov-18	2.1	0.0	8.0	975	926	1020	6.9	6.6	7.2	<2	<2	<2	0.7	<2	<2	4	0.7	5.5	5.0	6.3	557	548	570	4.8	4.8	4.8	5.6	5.6	5.6	<0.1	<0.1	<0.1		
Dec-18	6.5	3.6	9.3	922	849	963	6.8	6.7	7.0	<2	<2	<2	0.6	<2	<2	<2	0.6	5.5	4.8	6.2	517	492	532	5.9	5.9	5.9	6.8	6.8	6.8	0.2	0.1	0.2		
Avg	1.7	0.7	4.1	904	860	938	7.0	6.8	7.2	<2	<2	<2	0.6	<2	<2	<2	0.6	6.1	5.4	6.7	534	512	563	5.0	4.0	5.9	6.1	6.1	6.1	<0.1	<0.1	<0.1		
Min	0.0	0.0	0.0	841	750	887	6.8	6.5	7.0	<2	<2	<2	0.4	<2	<2	<2	0.4	5.5	4.8	6.1	490	456	522	4.8	3.1	4.8	4.7	4.7	4.7	<0.1	<0.1	<0.1		
Max	6.5	3.6	9.3	975	926	1020	7.1	7.0	7.8	<2	<2	2	1.0	<2	<2	4	0.7	7.3	6.9	7.8	557	548	648	5.9	5.9	6.6	6.8	6.8	6.8	0.2	0.1	0.2		

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RP-1 (M-001A) Effluent Monthly Toxicity Data

Table No. 4a

CHRONIC TOXICITY - SURVIVAL					CHRONIC TOXICITY - REPRODUCTION				
<i>(Ceriodaphnia Dubia)</i>					<i>(Ceriodaphnia dubia)</i>				
START DATE	END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC ₂₅	
01/06/18	thru 01/12/18	100	1.0	1.0	70	1.4	1.2	92.4	
01/20/18	thru 01/26/18	100	1.0	1.0	<60	>1.7	1.4	81.4	
02/03/18	thru 02/09/18	100	1.0	1.0	100	1.0	1.4	100	
02/05/18	thru 02/09/18	100	1.0	1.0	100	1.0	1.2	100	
02/17/18*	thru 02/23/18	100	1.0	1.0	100	1.0	1.0	100	
03/03/18	thru 03/09/18	100	1.0	1.0	70	1.4	1.0	85.3	
03/17/18	thru 03/23/18	100	1.0	1.0	90	1.1	1.1	100	
03/31/18	thru 04/06/18	100	1.0	1.0	70	1.4	1.4	100	
04/14/18	thru 04/20/18	100	1.0	1.0	100	1.0	1.3	100	
04/28/18	thru 05/04/18	100	1.0	1.0	100	1.0	1.0	100	
06/09/18	thru 06/15/18	100	1.0	1.0	80	1.3	1.1	100	
06/23/18	thru 06/29/18	100	1.0	1.0	100	1.0	1.0	100	
07/07/18	thru 07/13/18	100	1.0	1.0	100	1.0	1.0	100	
08/04/18	thru 08/10/18	100	1.0	1.0	60	1.7	1.3	95	
08/18/18	thru 08/24/18	100	1.0	1.0	100	1.0	1.0	100	
09/01/18	thru 09/07/18	100	1.0	1.0	90	1.1	1.1	100	
09/15/18	thru 09/21/18	100	1.0	1.0	70	1.4	1.3	98	
09/29/18	thru 10/05/18	100	1.0	1.0	90	1.1	1.1	100	
10/13/18	thru 10/19/18	100	1.0	1.0	100	1.0	1.1	100	
11/12/18*	thru 11/16/18	100	1.0	1.0	100	1.0	1.0	100	
12/10/18*	thru 12/14/18	100	1.0	1.0	100	1.0	1.0	100	

RP-1 (M-002A) Effluent Monthly Toxicity Data

Table No. 4b

CHRONIC TOXICITY - SURVIVAL					CHRONIC TOXICITY - REPRODUCTION				
<i>(Ceriodaphnia Dubia)</i>					<i>(Ceriodaphnia dubia)</i>				
START DATE	END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC ₂₅	
12/30/17	thru 01/05/18	100	1.0	1.0	100	1.0	1.0	100	
02/03/18	thru 02/09/18	100	1.0	1.0	100	1.0	1.0	100	
03/24/18	thru 03/30/18	100	1.0	1.0	100	1.0	1.0	100	
04/07/18	thru 04/13/18	100	1.0	1.0	100	1.0	1.0	100	
05/12/18	thru 05/18/18	100	1.0	1.0	100	1.0	1.0	100	
06/02/18	thru 06/08/18	100	1.0	1.0	100	1.0	1.0	100	
06/30/18	thru 07/06/18	100	1.0	1.0	100	1.0	1.0	100	
08/04/18	thru 08/10/18	100	1.0	1.0	100	1.0	1.0	100	
09/01/18	thru 09/07/18	100	1.0	1.0	100	1.0	1.0	100	
09/29/18	thru 10/05/18	100	1.0	1.0	100	1.0	1.0	100	
11/12/18*	thru 11/16/18	100	1.0	1.0	100	1.0	1.0	100	
12/10/18*	thru 12/14/18	100	1.0	1.0	100	1.0	1.0	100	

* MBC Laboratory

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RP-5 (M-003) Effluent Monthly Toxicity Data

Table No. 4c

CHRONIC TOXICITY - SURVIVAL					CHRONIC TOXICITY - REPRODUCTION				
<i>(Ceriodaphnia Dubia)</i>					<i>(Ceriodaphnia dubia)</i>				
START DATE	END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC ₂₅	
12/30/17	thru 01/05/18	100	1.0	1.0	100	1.0	1.0	100	
02/17/18	thru 02/23/18	100	1.0	1.0	80	1.3	1.1	100	
03/03/18	thru 03/09/18	100	1.0	1.0	100	1.0	1.1	100	
03/17/18	thru 03/23/18	100	1.0	1.0	100	1.0	1.0	100	
04/21/18	thru 04/27/18	100	1.0	1.0	100	1.0	1.0	100	
05/05/18	thru 05/10/18	100	1.0	1.0	100	1.0	1.0	100	
06/02/18	thru 06/08/18	100	1.0	1.0	100	1.0	1.0	100	
					No Discharge During July 2018				
					No Discharge During August 2018				
09/08/18	thru 09/14/18	100	1.0	1.0	80	1.3	1.1	100	
09/22/18	thru 09/28/18	100	1.0	1.0	80	1.3	1.3	97	
10/06/18	thru 10/12/18	100	1.0	1.0	100	1.0	1.3	100	
10/13/18	thru 10/19/18	100	1.0	1.0	100	1.0	1.1	100	
11/12/18*	thru 11/16/18	100	1.0	1.0	100	1.0	1.0	100	
12/10/18*	thru 12/14/18	100	1.0	1.0	100	1.0	1.0	100	

CCWRF (M-004) Effluent Monthly Toxicity Data

Table No. 4d

CHRONIC TOXICITY - SURVIVAL					CHRONIC TOXICITY - REPRODUCTION				
<i>(Ceriodaphnia Dubia)</i>					<i>(Ceriodaphnia dubia)</i>				
START DATE	END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC ₂₅	
01/13/18	thru 01/19/18	100	1.0	1.0	90	1.1	1.1	100	
01/27/18	thru 02/02/18	100	1.0	1.0	100	1.0	1.0	100	
02/10/18	thru 02/16/18	100	1.0	1.0	100	1.0	1.0	100	
03/10/18	thru 03/16/18	100	1.0	1.0	100	1.0	1.0	100	
04/07/18	thru 04/13/18	100	1.0	1.0	100	1.0	1.0	100	
05/12/18	thru 05/17/18	100	1.0	1.0	100	1.0	1.0	100	
					No Discharge During June 2018				
					No Discharge During July 2018				
					No Discharge During August 2018				
					No Discharge During September 2018				
					No Discharge During October 2018				
					No Toxicity Test Results for November 2018**				
12/10/18*	thru 12/14/18	100	1.0	1.0	100	1.0	1.0	100	

* MBC Laboratory

** Two toxicity tests will be run in January 2019.

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RP-1 (M-001A & M-001B) & RP-1/RP-4 (M-002A) Effluent Monitoring and Coliform Data

Table No. 5a

Date	001 Turbidity		002 Turbidity		001 Temp		002 Temp		001 Daily Coliform		001 7-day Median		002 Daily Coliform*		002 7-day Median		001 FLR	001 DT	001 CT	002 FLR	002 DT	002 CT				
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	Min	Max	Min	Min				
	NTU		NTU		°C		°C		MPN / 100 mL												gpm/ft ²	min	mg-min/L	gpm/ft ³	min	mg-min/L
Jan-18	0.6	0.8	0.5	0.7	23.7	24.4	19.8	22.2	<1	1.0	<1	<1	<1	1.0	<1	<1	3	165	849	3	173	818				
Feb-18	0.5	0.6	0.4	0.6	23.5	24.2	22.3	23.0	<1	1.0	<1	1.0	<1	1.0	<1	1.0	3	167	565	3	165	630				
Mar-18	0.5	0.6	0.4	1.0	23.5	24.6	22.7	23.9	<1	1.0	<1	<1	<1	1.0	<1	<1	3	166	884	3	152	775				
Apr-18	0.6	1.0	0.5	1.0	25.1	25.9	24.3	25.0	<1	1.0	<1	1	<1	1.0	<1	1.0	3	171	796	3	149	733				
May-18	0.7	0.9	0.6	0.9	25.7	26.5	25.4	25.9	<1	2.0	<1	<1	<1	2.0	<1	<1	4	132	758	4	136	664				
Jun-18	0.9	1.0	0.7	1.0	27.5	28.3	27.1	28.5	<1	<1	<1	<1	<1	<1	<1	<1	4	142	747	4	146	542				
Jul-18	0.8	1.1	0.7	1.1	29.7	30.7	29.7	30.2	<1	1.0	<1	<1	<1	1.0	<1	<1	4	143	623	4	165	771				
Aug-18	0.7	1.0	0.6	0.8	30.4	30.9	30.1	30.4	<1	1.0	<1	<1	<1	1.0	<1	<1	3	146	587	3	145	533				
Sep-18	0.6	0.7	0.5	0.7	29.3	30.0	29.1	30.0	<1	1.0	<1	<1	<1	1.0	<1	<1	4	141	656	4	138	586				
Oct-18	0.5	0.6	0.5	0.6	27.7	28.9	24.8	27.6	<8	204.6	<1	1.0	<8	204.6	<1	1.0	3	144	673	3	143	593				
Nov-18	0.6	0.8	0.5	0.7	25.5	27.3	26.1	27.3	<10	261.3	<1	<1.0	<10	261.3	<1	<1.0	3	151	701	3	154	705				
Dec-18	0.6	0.8	0.6	0.8	23.5	24.3	23.6	24.2	<1	15.6	<1	1.0	<1	15.6	<1	1.0	4	147	681	4	155	818				
Avg	0.6	0.8	0.5	0.8	26.2	27.2	25.4	26.5	<2	41	<1	<1	<2	41	<1	<1	3	151	718	3	152	681				
Min	0.5	0.6	0.4	0.6	23.5	24.2	19.8	22.2	<1	<1	<1	<1	<1	<1	<1	<1	3	132	565	3	136	533				
Max	0.9	1.1	0.7	1.1	30.4	30.9	30.1	30.4	<10	261	<1	1	<10	261	<1	1	4	171	884	4	173	818				

Requirements for disinfected tertiary-treated recycled water Title 22 Compliance: Min: 450 mg/L-min CT & 90 min DT
*Beginning August 2009, 002 effluent coliform compliance point at M-001B (splitter box).

RP-5 (M-003) & CCWRF (M-004) Effluent Monitoring and Coliform Data

Table No. 5b

Date	003 Turbidity		004 Turbidity		003 Temp		004 Temp		003 Daily Coliform		003 7-day Median		004 Daily Coliform		004 7-day Median		003 FLR	003 DT	003 CT	004 FLR	004 DT	004 CT				
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Max	Min	Min	Max	Min	Min				
	NTU		NTU		°C		°C		MPN / 100 mL												gpm/ft ²	min	mg-min/L	gpm/ft ³	min	mg-min/L
Jan-18	0.7	1.0	0.7	1.0	23.2	23.9	22.0	23.6	<1	1.0	<1	<1	<1	2.0	<1	<1	3	152	478	2	135	480				
Feb-18	0.7	1.1	0.7	0.9	22.4	23.2	22.0	23.3	<1	2.0	<1	<1	<1	2.0	<1	<1	4	149	496	2	120	484				
Mar-18	0.8	1.0	0.7	0.8	24.5	26.7	22.6	23.8	<1	1.0	<1	<1	<1	2.0	<1	<1	3	159	474	2	118	516				
Apr-18	0.8	1.0	0.5	0.7	25.7	26.9	22.7	24.2	<1	1.0	<1	<1	<1	2.0	<1	<1	4	153	476	2	131	508				
May-18	0.7	0.9	0.5	0.8	24.4	25.7	25.5	27.2	<1	1.0	<1	<1	<1	1.0	<1	<1	4	154	508	1	160	532				
Jun-18	0.6	0.8	0.6	0.7	25.8	26.0			<1	<1	<1	<1	<1	<1	<1	<1	4	160	561	1	151	497				
Jul-18	0.7	0.9	0.5	0.6					<1	1.0	<1	<1	<1	1.0	<1	<1	3	189	515	2	127	610				
Aug-18	0.8	0.9	0.6	0.8					<1	<1	<1	<1	<1	13.5	<1	<1	3	199	497	2	116	492				
Sep-18	0.7	1.0	0.5	0.8	29.1	31.4			<1	1.0	<1	<1	<1	1.0	<1	<1	3	135	526	2	116	519				
Oct-18	0.8	1.0	0.5	0.6	26.8	27.9			<1	2.0	<1	<1	<1	1.0	<1	<1	3	140	475	2	148	679				
Nov-18	0.5	0.7	0.5	0.8	24.2	24.9	24.7	26.0	<1	1.0	<1	<1	<1	1.0	<1	<1	4	131	492	2	120	609				
Dec-18	0.6	0.8	0.5	0.8	20.0	23.5	23.8	24.3	<1	1.0	<1	<1	<1	1.0	<1	<1	4	128	478	3	114	526				
Avg	0.7	0.9	0.6	0.8	24.6	26.0	23.3	24.6	<1	1	<1	<1	<1	2	<1	<1	3	154	496	2	130	538				
Min	0.5	0.7	0.5	0.6	20.0	23.2	22.0	23.3	<1	<1	<1	<1	<1	<1	<1	<1	3	128	474	1	114	480				
Max	0.8	1.1	0.7	1.0	29.1	31.4	25.5	27.2	<1	2	<1	<1	<1	14	<1	<1	4	199	561	3	160	679				

Requirements for disinfected tertiary-treated recycled water Title 22 Compliance: Min: 450 mg/L-min CT & 90 min DT

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RP-1 (M-001A) & RP-1/RP-4 (M-002A) Effluent and Receiving Water (R-002U & R-002D) Data

Table No. 6a

Date	M-001A Cl ₂ Residual*		M-002A Cl ₂ Residual*		Upstream Cucamonga Creek (R-002U)									Downstream Cucamonga Creek (R-002D)								
	DO		Temp		pH		TDS	TIN	Total Hardness	TSS	DO		Temp		pH		Total Hardness	TSS				
	Avg	Max	Avg	Max	Avg	Min	Avg	Max	Min	Max	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Min	Max	Avg	Avg
	mg/L				mg/L		°C		unit		mg/L	mg/L	mg/L	mg/L	mg/L	°C		unit		mg/L	mg/L	
Jan-18	0.0	0.0	0.0	0.0	13.0	12.6	11.9	13.3	9.5	9.6	488	3.3	187	<2	10.6	9.8	20.9	22.7	8.0	8.7	145	<2
Feb-18	0.0	0.0	0.0	0.0	12.2	12.0	11.7	12.9	9.3	11.4	310	0.5			10.8	10.4	18.1	19.0	8.6	10.5		
Mar-18	0.0	0.0	0.0	0.0	13.9	12.5	12.0	16.5	9.2	10.0	336	1.5			12.2	9.5	20.4	21.6	7.7	8.9		
Apr-18	0.0	0.0	0.0	0.0	12.4	10.8	16.6	19.4	9.2	10.3	262	<0.2	110	3	12.8	10.9	19.9	22.9	8.8	9.2	143	6
May-18	0.0	0.0	0.0	0.0	11.1	10.1	17.8	20.1	9.1	9.5	466	5.7			12.5	10.8	19.3	21.3	8.5	9.2		
Jun-18	0.0	0.0	0.0	0.0	10.9	10.5	21.0	21.8	9.2	9.6	1210	1.3			9.9	8.6	22.1	23.1	8.4	9.0		
Jul-18	0.0	0.0	0.0	0.0	10.6	9.5	22.9	25.1	9.2	9.7	402		193	9	11.4	6.1	24.1	25.6	8.5	9.3	175	3
Aug-18	0.0	0.0	0.0	0.0	9.2	8.6	21.9	23.3	9.0	9.3	408	1.2			9.5	7.5	23.6	24.8	8.3	9.9		
Sep-18	0.0	0.0	0.0	0.0	9.5	9.3	20.0	22.2	9.3	9.7	378	<0.2			9.6	8.6	23.1	25.0	8.1	8.9		
Oct-18	0.0	0.0	0.0	0.0	9.1	8.8	18.8	21.5	9.2	9.4	318	0.6	133	11	8.0	7.2	23.7	26.0	7.7	8.0	135	10
Nov-18	0.0	0.0	0.0	0.0	9.8	9.1	14.9	17.5	9.0	10.9	708	<0.2			9.0	8.4	19.8	22.5	7.4	8.9		
Dec-18	0.0	0.0	0.0	0.0	10.5	9.4	11.7	13.6	9.2	11.1	306	1.0			10.2	8.5	20.6	23.5	7.6	8.6		
Avg	0.0	0.0	0.0	0.0	11.0	10.3	16.8	18.9	9.2	10.0	466	1.4	156	6	10.5	8.9	21.3	23.2	8.1	9.1	150	5
Min	0.0	0.0	0.0	0.0	9.1	8.6	11.7	12.9	9.0	9.3	262	<0.2	110	<2	8.0	6.1	18.1	19.0	7.4	8.0	135	<2
Max	0.0	0.0	0.0	0.0	13.9	12.6	22.9	25.1	9.5	11.4	1,210	5.7	193	11	12.8	10.9	24.1	26.0	8.8	10.5	175	10

RP-5 (M-003) & CCWRF (M-004) Effluent and Receiving Water (R-003U, R-003D, & R-004U) Data

Table No. 6b

Date	M-003 Cl ₂ Residual*		M-004 Cl ₂ Residual*		Upstream Chino Creek (R-003U)									Downstream Chino Creek (R-003D)						Upstream Chino Creek (R-004U)												
	DO		Temp		pH		TDS	TIN	Total Hardness	TSS	DO		Temp		pH		Total Hardness	TSS	DO		Temp		pH		TDS	TIN	Total Hardness	TSS				
	Avg	Max	Avg	Max	Avg	Min	Avg	Max	Min	Max	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Min	Max	Avg	Avg										
	mg/L				mg/L		°C		unit		mg/L	mg/L	mg/L	mg/L	mg/L	°C		unit		mg/L	mg/L	mg/L	°C		unit		mg/L	mg/L	mg/L	mg/L		
Jan-18	0.0	0.0	0.0	0.0	10.6	9.2	23.0	24.4	7.0	7.6	456	5.5	135	<2	7.6	6.5	19.3	20.0	7.1	7.4	233	6	15.1	11.8	19.4	23.3	8.2	9.4	690	1.8	381	<2
Feb-18	0.0	0.0	0.0	0.0	13.7	11.0	22.1	24.6	7.7	8.8	550	6.5			7.7	7.0	19.2	20.5	7.5	7.6			13.1	11.1	21.0	25.7	8.8	10.5	748	1.0		
Mar-18	0.0	0.0	0.0	0.0	12.0	9.2	23.2	24.8	7.5	7.9	558	3.4			7.6	7.0	21.5	24.1	7.6	7.8			12.3	7.6	23.0	26.3	7.7	10.8	778	0.2		
Apr-18	0.0	0.0	0.0	0.0	12.5	7.5	23.4	26.3	7.2	9.8	566	6.1	157	9	6.5	6.1	20.8	22.0	7.5	7.8	262	6	10.9	9.8	20.9	28.8	7.5	9.2	828	<0.2	443	8
May-18	0.0	0.0	0.0	0.0	12.0	8.5	25.2	25.9	7.5	8.6	552	6.1			7.4	6.7	21.9	23.4	7.5	8.6			10.4	9.9	28.3	32.7	8.9	10.2	310	5.6		
Jun-18	0.0	0.0													8.3	7.1	26.0	26.4	7.7	8.0												
Jul-18																																
Aug-18																																
Sep-18	0.0	0.0													6.9	6.7	23.5	23.9	7.6	7.6												
Oct-18	0.0	0.0									1.6	134	11		6.3	5.8	24.8	25.8	5.6	7.6	274	15							1.6	336	6	
Nov-18	0.0	0.0	0.0	0.0	11.5	8.1	22.4	24.8	8.0	8.5	718	2.3		4	7.3	6.8	21.1	22.0	5.6	6.4	250		16.2	14.4	16.7	20.3	9.1	9.8	340	2.2		7
Dec-18	0.0	0.0	0.0	0.0	9.1	7.4	23.8	25.0	6.7	8.5	556	5.5			7.5	7.1	20.3	20.7	5.2	7.0			16.0	11.9	17.0	23.1	7.3	10.2	730	1.9		
Avg	0.0	0.0	0.0	0.0	11.6	8.7	23.3	25.1	7.4	8.5	565	4.6	142	7	7.3	6.7	21.8	22.9	6.9	7.6	255	9	13.4	10.9	20.9	25.7	8.2	10.0	632	1.8	387	6
Min	0.0	0.0	0.0	0.0	9.1	7.4	22.1	24.4	6.7	7.6	456	1.6	134	<2	6.3	5.8	19.2	20.0	5.2	6.4	233	6	10.4	7.6	16.7	20.3	7.3	9.2	310	<0.2	336	<2
Max	0.0	0.0	0.0	0.0	13.7	11.0	25.2	26.3	8.0	9.8	718	6.5	157	11	8.3	7.1	26.0	26.4	7.7	8.6	274	15	16.2	14.4	28.3	32.7	9.1	10.8	828	5.6	443	8

* A chlorine residual of 0.0 mg/L signifies a positive sodium bisulfite residual and a negative chlorine residual.

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RP-1 (REC-001) & RP-4 (REC-002) Recycled Water Data

Table No. 7a

Date	REC-001											REC-002											
	Flow	pH	Turbidity	CT	Daily Coliform		7-day Median		BOD	TSS	TDS	Flow	pH	Turbidity	CT	Daily Coliform		7-day Median		BOD	TSS	TDS	
	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	
	mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L				mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-18	4.9	6.9	0.6	849	<1	1.0	<1	<1	<2	<2	453	8.5	6.8	0.4	606	<1	1.0	<1	<1	<2	<2	422	
Feb-18	13.0	7.0	0.5	565	<1	1.0	<1	1.0	<2	<2	473	9.2	6.8	0.4	848	<1	1.0	<1	<1	<2	<2	447	
Mar-18	2.7	6.9	0.5	884	<1	1.0	<1	<1	<2	<2	482	4.5	6.8	0.5	737	<1	1.0	<1	<1	<2	<2	471	
Apr-18	18.0	7.1	0.6	796	<1	1.0	<1	1	<2	<2	469	9.0	6.8	0.7	868	<1	1.0	<1	<1	<2	<2	444	
May-18	18.1	7.0	0.7	758	<1	2.0	<1	<1	<2	<2	478	9.1	6.8	0.6	946	<7	155.3	<1	<1	<2	<2	476	
Jun-18	20.8	7.1	0.9	747	<1	<1	<1	<1	<2	<2	476	9.2	6.8	0.5	1067	<1	<1	<1	<1	<2	<2	464	
Jul-18	23.1	7.2	0.8	623	<1	1.0	<1	<1	<2	<2	469	8.7	6.9	0.4	693	<1	<1	<1	<1	<2	<2	464	
Aug-18	22.6	7.1	0.7	587	<1	1.0	<1	<1	<2	<2	467	9.1	6.9	0.5	873	<1	<1	<1	<1	<2	<2	445	
Sep-18	19.2	7.0	0.6	656	<1	1.0	<1	<1	<2	<2	461	8.9	6.8	0.5	926	<1	<1	<1	<1	<2	<2	419	
Oct-18	9.5	7.0	0.5	673	<8	204.6	<1	1.0	<2	<2	477	7.5	6.8	0.5	885	<1	<1	<1	<1	<2	<2	457	
Nov-18	12.4	7.1	0.6	701	<10	261.3	<1	<1.0	<2	<2	482	7.2	6.8	0.6	910	<1	3	<1	<1	<2	<2	457	
Dec-18	3.3	7.1	0.6	681	<1	15.6	<1	1.0	<2	<2	459	7.3	6.8	0.6	982	<1	9.7	<1	<1	<2	<2	448	
Avg	14.0	7.0	0.6	715	<2	41	<1	<1	<2	<2	470	8.2	6.8	0.5	856	<2	15	<1	<1	<2	<2	451	
Min	2.7	6.9	0.5	565	<1	<1	<1	<1	<2	<2	453	4.5	6.8	0.4	606	<1	<1	<1	<1	<2	<2	419	
Max	23.1	7.2	0.9	884	<10	261	<1	1	<2	<2	482	9.2	6.9	0.7	1067	<7	155	<1	<1	<2	<2	476	

RP-5 (REC-003) & CCWRF (REC-004) Recycled Water Data

Table No. 7b

Date	REC-003											REC-004											
	Flow	pH	Turbidity	CT	Daily Coliform		7-day Median		BOD	TSS	TDS	Flow	pH	Turbidity	CT	Daily Coliform		7-day Median		BOD	TSS	TDS	
	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	Avg	Avg	Avg	Min	Avg	Max	Avg	Max	Avg	Avg	Avg	
	mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L				mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-18	0.4	6.8	0.7	478	<1	1	<1	<1	<2	<2	482	3.4	6.8	0.7	480	<1	2	<1	<1	<2	<2	469	
Feb-18	0.2	6.8	0.7	496	<1	2	<1	<1	<2	<2	512	5.6	6.8	0.7	484	<1	2	<1	<1	<2	<2	523	
Mar-18	0.4	6.8	0.8	474	<1	1	<1	<1	<2	<2	519	1.9	6.8	0.7	516	<1	2	<1	<1	<2	<2	518	
Apr-18	0.7	6.9	0.8	476	<1	1	<1	<1	<2	<2	521	4.7	6.9	0.5	508	<1	2	<1	<1	<2	<2	520	
May-18	3.7	6.9	0.7	508	<1	1	<1	<1	<2	<2	526	6.0	6.8	0.5	532	<1	1	<1	<1	<2	<2	510	
Jun-18	4.3	6.9	0.6	561	<1	<1	<1	<1	<2	<2	530	6.4	7.1	0.6	497	<1	<1	<1	<1	<2	<2	501	
Jul-18	4.8	7.1	0.7	515	<1	1	<1	<1	<2	<2	531	7.0	7.1	0.5	610	<1	1	<1	<1	<2	<2	510	
Aug-18	3.9	6.9	0.8	497	<1	<1	<1	<1	<2	<2	509	8.0	7.1	0.6	492	<1	14	<1	<1	<2	<2	512	
Sep-18	3.5	6.7	0.7	526	<1	1	<1	<1	<2	<2	497	6.9	7.1	0.5	519	<1	1	<1	<1	<2	<2	474	
Oct-18	2.5	6.8	0.8	475	<1	2	<1	<1	<2	<2	511	6.2	7.1	0.5	679	<1	1	<1	<1	<2	<2	504	
Nov-18	3.7	6.9	0.5	492	<1	1	<1	<1	<2	<2	530	5.1	6.9	0.5	609	<1	1	<1	<1	<2	<2	517	
Dec-18	3.5	6.8	0.6	478	<1	1	<1	<1	<2	<2	503	1.4	6.8	0.5	526	<1	1	<1	<1	<2	<2	502	
Avg	2.6	6.8	0.7	495	<1	1	<1	<1	<2	<2	514	5.2	7.0	0.6	539	<1	2	<1	<1	<2	<2	505	
Min	0.2	6.7	0.5	474	<1	<1	<1	<1	<2	<2	482	1.4	6.8	0.5	480	<1	<1	<1	<1	<2	<2	469	
Max	4.8	7.1	0.8	561	<1	2	<1	<1	<2	<2	531	8.0	7.1	0.7	679	<1	14	<1	<1	<2	<2	523	

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RP-1 (M-001B) Effluent Monthly Inorganic & Organic Data

Table No. 8a

Date	Total Hardness	HCO ₃ ²⁻	B	Ca	CO ₃ ²⁻	Cl	F	Mg	Na	SO ₄	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Chlorodi-bromomethane	Bromodi-chloromethane	2,3,7,8-TCDD	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pg/L	
Limits																						
Jan-18	141	133	0.2	42	0	97	0.2	8	88	43	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	23	4	13		
Feb-18	140	136	0.2	43	0	104	0.2	9	97	46	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	27				
Mar-18	138	139	0.3	39	0	115	0.2	10	100	50	<0.25	0.8	6	<0.5	<0.05	<2	<0.25	33				
Apr-18	148	142	0.2	43	0	108	0.1	10	94	49	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	34	2	12		
May-18	147	146	0.3	43	0	114	0.2	10	97	50	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	35				
Jun-18	145	150	0.3	44	0	118	0.2	9	95	52	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	38				
Jul-18	142	144	0.2	43	0	113	0.2	9	88	47	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	37	3	15	0.0	
Aug-18	153	150	0.3	46	0	111	0.2	9	98	45	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	37				
Sep-18	139	127	0.3	39	0	118	0.2	10	95	48	<0.25	0.6	4	<0.5	<0.025	<2	<0.25	32				
Oct-18	134	132	0.3	36	0	118	0.2	11	102	50	<0.25	0.5	4	<0.5	<0.025	<2	<0.25	35	9	31		
Nov-18	140			38				11			<0.5		<2	<0.5				34				
Dec-18	150	150		42	0	121	0.2	11		44	<0.5		<2	<0.5				28				
Avg	143	141	0.2	41	0	112	0.2	10	95	48	<0.29	<0.5	4	<0.5	<0.05	<2	<0.25	33	4	18	0.0	
Min	134	127	0.2	36	0	97	0.1	8	88	43	<0.25	<0.5	<2	<0.5	<0.03	<2	<0.25	23	2	12	0.0	
Max	153	150	0.3	46	0	121	0.2	11	102	52	<0.50	0.8	6	<0.5	<0.05	<2	<0.25	38	9	31	0.0	

RP-1/RP-4 (M-002A) Effluent Monthly Inorganic & Organic Data

Table No. 8b

Date	Total Hardness	HCO ₃ ²⁻	B	Ca	CO ₃ ²⁻	Cl	F	Mg	Na	SO ₄	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Chlorodi-bromomethane	Bromodi-chloromethane	2,3,7,8-TCDD	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pg/L	
Limits											1 mo avg; 2 max daily		14 mo avg; 20 max daily	8 mo avg; 15 max daily				120 mo avg; 150 max daily				
Jan-18	139	133	0.2	42	0	99	0.2	9	91	57	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	23	3	13		
Feb-18	144	129	0.2	43	0	108	0.2	9	102	64	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	27				
Mar-18	140	131	0.3	40	0	117	0.2	10	110	71	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	31				
Apr-18	149	132	0.2	43	0	111	0.2	10	100	67	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	36	2	11		
May-18	148	134	0.3	42	0	119	0.2	10	110	66	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	35				
Jun-18	146	145	0.3	44	0	119	0.2	9	100	69	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	34				
Jul-18	142	131	0.2	43	0	112	0.2	8	97	79	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	35	<2	16	0.047	
Aug-18	153	145	0.3	46	0	112	0.2	9	103	67	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	35				
Sep-18	138	120	0.3	39	0	122	0.2	10	102	70	<0.25	0.6	4	<0.5	<0.025	<2	<0.25	31				
Oct-18	131	122	0.3	36	0	124	0.2	10	110	72	<0.25	<0.5	4	<0.5	<0.025	<2	<0.25	35	5	22		
Nov-18	140			39		135		11			<0.5		<2	<0.5				34				
Dec-18	140	142		39	0	108	0.2	10		63	<0.5		<2	<0.5				26				
Avg	142	133	0.2	41	0	115	0.2	10	103	68	<0.29	<0.5	4	<0.5	<0.05	<2	<0.25	32	3	15	0.047	
Min	131	120	0.2	36	0	99	0.2	8	91	57	<0.25	<0.5	<2	<0.5	<0.03	<2	<0.25	23	2	11	0.047	
Max	153	145	0.3	46	0	135	0.2	11	110	79	<0.50	0.6	6	<0.5	<0.05	<2	<0.25	36	5	22	0.047	

*Free Cyanide is analyzed using ASTM-D7237 for analysis of free cyanide in accordance with R8-2016-0036

Inland Empire Utilities Agency
Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

RP-5 (M-003) Effluent Monthly Inorganic Data

Table No. 8c

	Total Hardness	HCO ₃ ²⁻	B	Ca	CO ₃ ²⁻	Cl	F	Mg	Na	SO ₄	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Chlorodi-bromomethane	Bromodi-chloromethane	2,3,7,8-TCDD
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pg/L
Limits																			34 mo avg; 68 max daily		0.014 mo avg; 0.028 max
Jan-18	152	108	0.2	44	0	128	0.1	10	93	63	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	53	<1	12	0.0
Feb-18	177	115	0.2	51	0	145	0.1	12	103	59	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	41	2	17	0.0
Mar-18	164	110	0.2	46	0	145	<0.1	12	101	59	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	45	2	17	0.0
Apr-18	169	108	0.3	49	0	141	0.1	11	101	59	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	48	1	9	0.0
May-18	188	114	0.3	54	0	152	0.1	13	102	63	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	44	4	26	0.0
Jun-18	170	111	0.3	50	0	150	0.1	11	102	75	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	38	3	17	0.0
Jul-18	172	127	0.2	50	0	153	0.1	11	89	38	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	36			0.0
Aug-18	186	117	0.3	53	0	153	0.1	13	96	40	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	39			0.0
Sep-18	181	114	0.3	52	0	149	<0.1	12	100	62	<0.25	<0.5	6	<0.5	<0.025	<2	<0.25	36	3	16	0.0
Oct-18	183	126	0.3	52	0	153	0.1	13	107	63	<0.25	<0.5	6	<0.5	<0.025	<2	<0.25	47	3	13	0.0
Nov-18	192			54				14			<0.5		3	<0.5				42	5	20	0.0
Dec-18	180	118		53	0	158	0.1	13		57	<0.5		3	<0.5				50			0.0
Avg	176	115	0.3	51	0	148	0.1	12	100	58	<0.29	<0.5	5	<0.5	<0.05	<2	<0.25	43	3	16	0.0
Min	152	108	0.2	44	0	128	0.1	10	89	38	<0.25	<0.5	3	<0.5	<0.03	<2	<0.25	36	<1	9	0.0
Max	192	127	0.3	54	0	158	0.1	14	107	75	<0.50	<0.5	7	<0.5	<0.05	<2	<0.25	53	5	26	0.0

CCWRF (M-004) Effluent Monthly Inorganic Data

Table No. 8d

	Total Hardness	HCO ₃ ²⁻	B	Ca	CO ₃ ²⁻	Cl	F	Mg	Na	SO ₄	Cd, TR	Cr, Total	Cu, TR	Pb, TR	Hg, TR	Se, TR	Ag, TR	Zn, TR	Chlorodi-bromomethane	Bromodi-chloromethane	2,3,7,8-TCDD	
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	pg/L	
Limits																				34 mo avg; 68 max daily	46 mo avg; 67 max daily	
Jan-18	140	117	0.2	41	0	124	0.1	9	108	70	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	45	4	17	0.0	
Feb-18	139	101	0.3	37	0	149	0.1	11	120	76	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	49	5	27		
Mar-18	143	102	0.3	38	0	154	<0.1	12	121	76	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	58	6	28		
Apr-18	153	114	0.3	42	0	148	0.1	11	113	70	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	51	6	21	0.0	
May-18	155	110	0.2	45	0	142	0.1	11	107	86	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	59	4	20		
Jun-18	145	117	0.3	41	0	144	0.1	11	106	62	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	53				
Jul-18	133	106	0.3	36	0	149	0.1	10	100	60	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	45			No Discharge	
Aug-18	145	117	0.3	39	0	131	0.2	13	110	55	<0.25	<0.5	5	<0.5	<0.025	<2	<0.25	44				
Sep-18	145	117	0.3	39	0	131	0.2	13	110	55	<0.25	<0.5	5	<0.5	<0.025	<2	<0.25	44				
Oct-18	145	117	0.3	39	0	131	0.2	13	110	55	<0.25	<0.5	5	<0.5	<0.025	<2	<0.25	44				
Nov-18						168					<0.5	<1	5	<0.5	<0.2	<5	<0.5	57	8	28		
Dec-18	140	106		38	0	163	0.1	11		74	<0.5		4	<0.5				60			0.0	
Avg	144	111	0.3	40	0	144	0.1	11	110	67	<0.29	<0.5	6	<0.5	<0.06	<2	<0.27	51	6	23	0.0	
Min	133	101	0.2	36	0	124	0.1	9	100	55	<0.25	<0.5	4	<0.5	<0.03	<2	<0.25	44	4	17	0.0	
Max	155	117	0.3	45	0	168	0.2	13	121	86	<0.50	<1.0	7	<0.5	<0.20	<5	<0.50	60	8	28	0.0	

*Free Cyanide is analyzed using ASTM-D7237 for analysis of free cyanide in accordance with R8-2015-0036

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RP-1 (M-001B) Effluent Quarterly Data

Table No. 9a

RP-1/RP-4 (M-002A) Effluent Quarterly Data

Table No. 9b

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-18	117	<1	<2	12	<1	3
Feb-18	124	<1	<2	14	<1	3
Mar-18	91	<1	<2	12	<1	3
Apr-18	59	<1	<2	13	<1	3
May-18	<25	<1	<2	16	<1	3
Jun-18	118	<1	<2	18	<1	4
Jul-18	99	<1	<2	14	<1	4
Aug-18	28	<1	<2	20	<1	3
Sep-18	68	<1	<2	12	<1	4
Oct-18	99	<1	<2	12	<1	4
Nov-18						
Dec-18						
Avg	83	<1	<2	14	<1	3
Min	<25	<1	<2	12	<1	3
Max	124	<1	<2	20	<1	4

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-18	116	<1	<2	12	<1	3
Feb-18	136	<1	<2	14	<1	3
Mar-18	101	<1	<2	12	<1	3
Apr-18	93	<1	<2	13	<1	3
May-18	29	<1	<2	16	<1	3
Jun-18	111	<1	<2	17	<1	3
Jul-18	96	<1	<2	14	<1	4
Aug-18	34	<1	<2	19	<1	3
Sep-18	73	<1	<2	12	<1	4
Oct-18	74	<1	<2	12	<1	4
Nov-18						
Dec-18						
Avg	86	<1	<2	14	<1	3
Min	29	<1	<2	12	<1	3
Max	136	<1	<2	19	<1	4

RP-5 (M-003) Effluent Quarterly Data

Table No. 9c

CCWRF (M-004) Effluent Quarterly Data

Table No. 9d

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-18	<25	<1	<2	17	<1	3
Feb-18	<25	<1	<2	21	<1	3
Mar-18	<25	<1	<2	17	<1	3
Apr-18	<25	<1	<2	26	<1	3
May-18	37	<1	<2	25	<1	3
Jun-18	<25	<1	<2	30	<1	3
Jul-18	<25	<1	<2	23	<1	3
Aug-18	<25	<1	<2	22	<1	3
Sep-18	<25	<1	<2	24	<1	3
Oct-18	<25	<1	<2	24	<1	3
Nov-18						
Dec-18						
Avg	<26	<1	<2	23	<1	3
Min	<25	<1	<2	17	<1	3
Max	37	<1	<2	30	<1	3

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
Date	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Jan-18	90	<1	<2	11	<1	3
Feb-18	115	<1	<2	9	<1	3
Mar-18	99	<1	<2	9	<1	3
Apr-18	153	<1	<2	10	<1	3
May-18	97	<1	<2	12	<1	3
Jun-18	72	<1	<2	10	<1	3
Jul-18	59	<1	<2	8	<1	3
Aug-18	92	<1	<2	9	<1	3
Sep-18	58	<1	<2	7	<1	3
Oct-18	43	<1	<2	7	<1	3
Nov-18		<1	1			<5
Dec-18						
Avg	88	<1	<2	9	<1	3
Min	43	<1	1	7	<1	3
Max	153	<1	<2	12	<1	3

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Table No. 10

Mo-Yr	Flow				TIN								Agency-wide TIN				
	DP 001	DP 002	DP 003	DP 004	M-001B		M-002A		RP5		CC		Discharge		Limit		12-MRA
	MGD				mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L
Jan-18	4.7	19.6	5.2	3.2	6.0	240	5.2	840	5.3	230	5.0	130	5.3	1,440	8	5,338	6.0
Feb-18	5.9	8.7	3.4	1.1	5.1	250	4.9	360	6.6	190	5.2	50	5.3	850	8	5,338	5.9
Mar-18	5.0	23.1	4.6	4.8	4.4	180	3.7	710	7.6	290	5.0	200	4.4	1,380	8	5,338	5.8
Apr-18	6.0	3.2	2.9	2.0	4.2	210	4.4	120	7.5	180	4.9	80	5.0	590	8	5,338	5.8
May-18	3.0	4.1	2.2	1.2	4.1	100	4.1	140	7.0	130	5.2	50	4.8	420	8	5,338	5.7
Jun-18	2.0	2.7	1.9	0.0	4.1	70	3.9	90	6.3	100	NA	0	4.7	260	8	5,338	5.6
Jul-18	3.0	0.8	0.0	0.0	4.6	110	4.4	30	NA	0	NA	0	4.6	140	8	5,338	5.4
Aug-18	3.9	1.8	0.0	0.0	4.4	140	4.0	60	NA	0	NA	0	4.3	200	8	5,338	5.3
Sep-18	3.9	4.0	2.3	0.0	4.9	160	4.6	150	6.9	130	NA	0	5.2	440	8	5,338	5.3
Oct-18	3.2	14.9	5.0	0.0	4.3	120	4.1	510	6.7	280	NA	0	4.7	910	8	5,338	5.1
Nov-18	2.8	11.5	4.1	2.1	5.2	120	6.0	570	6.9	240	4.8	80	5.9	1,010	8	5,338	5.1
Dec-18	0.9	21.1	6.0	6.5	4.6	40	4.1	710	7.2	360	5.9	320	5.0	1,430	8	5,338	4.9
12-Mo Avg	3.7	9.6	3.1	1.7	4.7	150	4.4	360	6.8	180	5.1	80	4.9	760	8	5,338	5.5
Min	0.9	0.8	0.0	0.0	4.1	40	3.7	30	5.3	0	4.8	0	4.3	140	8	5,338	4.9
Max	6.0	23.1	6.0	6.5	6.0	250	6.0	840	7.6	360	5.9	320	5.9	1,440	8	5,338	6.0

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Agency-wide TDS 12-Month Running Averages

Table No. 11

Mo-Yr	Flows								Total Dissolved Solids (TDS)								Agency-wide TDS				
	RP-1		RP-4		RP-5		CC		RP-1		RP-4		RP-5		CC		Discharge		Limit		12-MRA
	001 ¹	RW	002	RW	RP-5	RW	CC	RW	001	RW ²	002	RW	RP-5	RW ²	CC	RW ²	flow wt. mg/L	total lbs/day	flow wt. mg/L	total lbs/day	flow wt. mg/L
Jan-18	4.7	4.9	19.6	8.5	5.2	0.4	3.2	3.4	487	453	464	422	499	482	490	469	464	180,180	550	366,960	456
Feb-18	5.9	13.0	8.7	9.2	3.4	0.2	1.1	5.6	513	473	493	447	520	512	534	523	488	186,770	550	366,960	456
Mar-18	5.0	2.7	23.1	4.5	4.6	0.4	4.8	2.1	529	482	496	471	524	519	536	518	504	176,930	550	366,960	459
Apr-18	6.0	18.0	3.2	9.0	2.9	0.7	2.0	5.2	508	469	497	444	536	521	556	520	485	181,430	550	366,960	460
May-18	3.0	18.1	4.1	9.1	2.2	3.7	1.2	6.0	532	478	501	476	544	526	548	510	495	190,410	550	366,960	463
Jun-18	2.0	20.8	2.7	9.2	1.9	4.3	0.0	6.4	538	476	511	464	561	530	NA	501	490	193,300	550	366,960	465
Jul-18	3.0	23.1	0.8	8.7	0.0	4.8	0.0	7.0	518	469	510	464	NA	531	NA	510	484	191,360	550	366,960	468
Aug-18	3.9	22.6	1.8	9.1	0.0	3.9	0.0	8.0	510	467	499	445	NA	509	NA	512	478	196,780	550	366,960	471
Sep-18	3.9	19.2	4.0	8.9	2.3	3.5	0.0	6.9	511	461	493	419	519	497	NA	474	467	190,030	550	366,960	473
Oct-18	3.2	9.5	14.9	7.5	5.0	2.5	0.0	6.2	529	477	502	457	537	511	NA	504	496	202,660	550	366,960	479
Nov-18	2.8	12.4	11.5	7.2	4.1	3.7	2.1	5.1	536	482	501	479	548	530	557	517	505	206,290	550	366,960	483
Dec-18	0.9	3.3	21.1	7.3	6.0	3.5	6.5	1.4	519	459	477	448	537	503	517	502	487	202,880	550	366,960	487
Avg	3.7	14.0	9.6	8.2	3.1	2.6	1.7	5.3	519	470	495	453	532	514	534	505	487	191,590	550	366,960	469
Min	0.9	2.7	0.8	4.5	0.0	0.2	0.0	1.4	487	453	464	419	499	482	490	469	464	176,930	550	366,960	456
Max	6.0	23.1	23.1	9.2	6.0	4.8	6.5	8.0	538	482	511	479	561	531	557	523	505	206,290	550	366,960	487

NOTES: ¹ Prior to April 2010, 001 effluent flow included recycled water flow.

² Flow and TDS added to flow-weight for RP-1, RP-5, and CCWRF recycled water (May 2010)

NA: Not Analyzed, due to no discharge

APPENDIX B
RECYCLED WATER
COMPLIANCE DATA
FOR CALENDAR YEAR 2018

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

RP-5 (M-INF 3C) RP-2 Recycle Flow Remaining Priority Pollutants

Table 15a

RP-5 (M-INF 3C) RP-2 Recycle Flow Remaining Priority Pollutant Metals & CN, mg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<0.02			<0.02			<0.02			<0.02			<0.02
Arsenic (As)	<0.01			<0.01			<0.01			<0.01			<0.01
Beryllium (Be)	<0.01			<0.01			<0.01			<0.01			<0.01
Cadmium (Cd)	<0.01			<0.01			<0.01			<0.01			<0.01
Chromium (Cr)	0.01			<0.01			<0.01			<0.01			0.01
Copper (Cu)	0.16			0.03			0.04			0.07			0.16
Lead (Pb)	<0.02			<0.02			<0.02			<0.02			<0.02
Mercury (Hg)	0.0020				<0.0005		<0.0005			<0.0005			0.0020
Nickel (Ni)	0.01			<0.01			<0.01			<0.01			0.01
Selenium (Se)	<0.02			<0.02			<0.02			<0.02			<0.02
Silver (Ag)	<0.01			<0.01			<0.01			<0.01			<0.01
Thallium (Tl)	<0.05			<0.05			<0.05			<0.05			<0.05
Zinc (Zn)	0.59			0.11			0.13			0.17			0.59
CN, Aquatic Free	6			3			4						6

RP-5 (M-INF 3C) RP-2 Recycle Flow Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane							<5						<5
1,1,1,2-Tetrachloroethane							<2.5						<2.5
1,1,2-Trichloroethane							<5						<5
1,1-Dichloroethane							<2.5						<2.5
1,1-Dichloroethene							<5						<5
1,2-Dichlorobenzene							<5						<5
1,2-Dichloroethane							<2.5						<2.5
1,2-Dichloropropane							<2.5						<2.5
1,3-Dichlorobenzene							<5						<5
1,4-Dichlorobenzene							<5						<5
2-Chloroethyl vinyl ether							<5						<5
Benzene							<5						<5
Bromodichloromethane	<5			<5			<5			<5			<5
Bromoform	<5			<5			<5			<5			<5
Bromomethane							<5						<5
Carbon tetrachloride							<2.5						<2.5
Chlorobenzene							<5						<5
Chloroethane							<5						<5
Chloroform	16			<5			<5			14			16
Chloromethane							<5						<5
cis-1,3-Dichloropropene							<2.5						<2.5
Dibromochloromethane	<5			<5			<5			<5			<5
Ethylbenzene							<5						<5
Methylene chloride							<5						<5
Tetrachloroethene							<5						<5
Toluene							<5						<5
trans-1,2-Dichloroethene							<2.5						<2.5
trans-1,3-Dichloropropene							<2.5						<2.5
Trichloroethene							<5						<5
Trichlorofluoromethane							<10						<10
Vinyl chloride							<2.5						<2.5
Acrolein								<10					<10
Acrylonitrile								<1.25					<1.25

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RP-5 (M-INF 3C) RP-2 Recycle Flow Remaining Priority Pollutants

Table 15b

RP-5 (M-INF 3C) RP-2 Recycle Flow Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<10						<10
1,2-Dichlorobenzene							<10						<10
1,3-Dichlorobenzene							<10						<10
1,4-Dichlorobenzene							<10						<10
2,4,6-Trichlorophenol							<10						<10
2,4-Dichlorophenol							<20						<20
2,4-Dimethylphenol							<10						<10
2,4-Dinitrophenol							<30						<30
2,4-Dinitrotoluene							<10						<10
2,6-Dinitrotoluene							<20						<20
2-Chloronaphthalene							<10						<10
2-Chlorophenol							<10						<10
2-Methyl-4,6-dinitrophenol							<20						<20
2-Nitrophenol							<10						<10
3,3-Dichlorobenzidine							<50						<50
4-Bromophenyl phenyl ether							<10						<10
4-Chloro-3-methylphenol							<10						<10
4-Chlorophenyl phenyl ether							<10						<10
4-Nitrophenol							<30						<30
Acenaphthene							<10						<10
Acenaphthylene							<10						<10
Anthracene							<10						<10
Azobenzene							<10						<10
Benzidine							<50						<50
Benzo(a)anthracene							<50						<50
Benzo(a)pyrene							<10						<10
Benzo(b)fluoranthene							<10						<10
Benzo(g,h,i)perylene							<20						<20
Benzo(k)fluoranthene							<10						<10
Bis(2-chloroethoxy)methane							<20						<20
Bis(2-chloroethyl)ether							<10						<10
Bis(2-chloroisopropyl)ether							<10						<10
Bis(2-ethylhexyl)phthalate	<15			<15			<15			<15			<15
Butyl benzyl phthalate							<7.5						<7.5
Chrysene							<10						<10
Dibenzo(a,h)anthracene							<10						<10
Diethyl phthalate							<15						<15
Dimethyl phthalate							<10						<10
Di-n-butyl phthalate							<10						<10
Di-n-octyl phthalate							<10						<10
Fluoranthene							<10						<10
Fluorene							<10						<10
Hexachlorobenzene							<10						<10
Hexachlorobutadiene							<10						<10
Hexachlorocyclopentadiene							<50						<50
Hexachloroethane							<10						<10
Indeno(1,2,3-cd)pyrene							<20						<20
Isophorone							<10						<10
Naphthalene							<10						<10
Nitrobenzene							<10						<10
N-Nitrosodimethylamine							<10						<10
N-Nitroso-di-n-propylamine							<10						<10
N-Nitrosodiphenylamine							<10						<10
Pentachlorophenol							<20						<20
Phenanthrene							<10						<10
Phenol							<10						<10
Pyrene							<10						<10

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RP-5 (M-INF 3C) RP-2 Recycle Flow Remaining Priority Pollutants

Table 15c

RP-5 (M-INF 3C) RP-2 Recycle Flow Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.06						<0.06
4,4-DDE							<0.06						<0.06
4,4-DDT							<0.08						<0.08
Aldrin							<0.04						<0.04
Alpha-BHC							<0.08						<0.08
Beta-BHC							<0.05						<0.05
Delta-BHC							<0.07						<0.07
Dieldrin							<0.06						<0.06
Endosulfan I							<0.1						<0.1
Endosulfan II							<0.07						<0.07
Endosulfan Sulfate							<0.09						<0.09
Endrin							<0.09						<0.09
Endrin aldehyde							<0.06						<0.06
Gamma-BHC							<0.1						<0.1
Heptachlor							<0.06						<0.06
Heptachlor epoxide							<0.07						<0.07
Chlordane							<1						<1
PCB-1016							<5						<5
PCB-1221							<5						<5
PCB-1232							<5						<5
PCB-1242							<5						<5
PCB-1248							<5						<5
PCB-1254							<5						<5
PCB-1260							<5						<5
Toxaphene							<5						<5

RP-5 (M-INF 3C) RP-2 Recycle Flow Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*							0.015						0.015
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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RP-5 (M-INF 3D) RP-2 Lift Station Remaining Priority Pollutants

Table 16a

RP-5 (M-INF 3D) RP-2 Lift Station Remaining Priority Pollutant Metals & CN, mg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<0.02			<0.02			<0.02			<0.02			<0.02
Arsenic (As)	<0.01			<0.01			<0.01			<0.01			<0.01
Beryllium (Be)	<0.01			<0.01			<0.01			<0.01			<0.01
Cadmium (Cd)	<0.01			<0.01			<0.01			<0.01			<0.01
Chromium (Cr)	0.01			<0.01			<0.01			<0.01			0.01
Copper (Cu)	0.16			0.04			0.05			0.08			0.16
Lead (Pb)	<0.02			<0.02			<0.02			<0.02			<0.02
Mercury (Hg)	0.0006				<0.0005		<0.0005			<0.0005			0.0006
Nickel (Ni)	0.01			<0.01			<0.01			<0.01			0.01
Selenium (Se)	<0.02			<0.02			<0.02			<0.02			<0.02
Silver (Ag)	<0.01			<0.01			<0.01			<0.01			<0.01
Thallium (Tl)	<0.05			<0.05			<0.05			<0.05			<0.05
Zinc (Zn)	0.56			0.13			0.15			0.20			0.56
CN, Aquatic Free	9			<2			7						9

RP-5 (M-INF 3D) RP-2 Lift Station Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane							<5						<5
1,1,1,2-Tetrachloroethane							<2.5						<2.5
1,1,2-Trichloroethane							<5						<5
1,1-Dichloroethane							<2.5						<2.5
1,1-Dichloroethene							<5						<5
1,2-Dichlorobenzene							<5						<5
1,2-Dichloroethane							<2.5						<2.5
1,2-Dichloropropane							<2.5						<2.5
1,3-Dichlorobenzene							<5						<5
1,4-Dichlorobenzene							<5						<5
2-Chloroethyl vinyl ether							<5						<5
Benzene							<5						<5
Bromodichloromethane	<5			<5			<5			<5			<5
Bromoform	<5			<5			<5			<5			<5
Bromomethane							<5						<5
Carbon tetrachloride							<2.5						<2.5
Chlorobenzene							<5						<5
Chloroethane							<5						<5
Chloroform	14			<5			<5			12			14
Chloromethane							<5						<5
cis-1,3-Dichloropropene							<2.5						<2.5
Dibromochloromethane	<5			<5			<5			<5			<5
Ethylbenzene							<5						<5
Methylene chloride							<5						<5
Tetrachloroethene							<5						<5
Toluene							<5						<5
trans-1,2-Dichloroethene							<2.5						<2.5
trans-1,3-Dichloropropene							<2.5						<2.5
Trichloroethene							<5						<5
Trichlorofluoromethane							<10						<10
Vinyl chloride							<2.5						<2.5
Acrolein								<10					<10
Acrylonitrile								<1.25					<1.25

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RP-5 (M-INF 3D) RP-2 Lift Station Remaining Priority Pollutants

Table 16b

RP-5 (M-INF 3D) RP-2 Lift Station Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<10						<10
1,2-Dichlorobenzene							<10						<10
1,3-Dichlorobenzene							<10						<10
1,4-Dichlorobenzene							<10						<10
2,4,6-Trichlorophenol							<10						<10
2,4-Dichlorophenol							<20						<20
2,4-Dimethylphenol							<10						<10
2,4-Dinitrophenol							<30						<30
2,4-Dinitrotoluene							<10						<10
2,6-Dinitrotoluene							<20						<20
2-Chloronaphthalene							<10						<10
2-Chlorophenol							<10						<10
2-Methyl-4,6-dinitrophenol							<20						<20
2-Nitrophenol							<10						<10
3,3-Dichlorobenzidine							<50						<50
4-Bromophenyl phenyl ether							<10						<10
4-Chloro-3-methylphenol							<10						<10
4-Chlorophenyl phenyl ether							<10						<10
4-Nitrophenol							<30						<30
Acenaphthene							<10						<10
Acenaphthylene							<10						<10
Anthracene							<10						<10
Azobenzene							<10						<10
Benzidine							<50						<50
Benzo(a)anthracene							<50						<50
Benzo(a)pyrene							<10						<10
Benzo(b)fluoranthene							<10						<10
Benzo(g,h,i)perylene							<20						<20
Benzo(k)fluoranthene							<10						<10
Bis(2-chloroethoxy)methane							<20						<20
Bis(2-chloroethyl)ether							<10						<10
Bis(2-chloroisopropyl)ether							<10						<10
Bis(2-ethylhexyl)phthalate	<15			<15			<15			<15			<15
Butyl benzyl phthalate							<7.5						<7.5
Chrysene							<10						<10
Dibenzo(a,h)anthracene							<10						<10
Diethyl phthalate							<15						<15
Dimethyl phthalate							<10						<10
Di-n-butyl phthalate							<10						<10
Di-n-octyl phthalate							<10						<10
Fluoranthene							<10						<10
Fluorene							<10						<10
Hexachlorobenzene							<10						<10
Hexachlorobutadiene							<10						<10
Hexachlorocyclopentadiene							<50						<50
Hexachloroethane							<10						<10
Indeno(1,2,3-cd)pyrene							<20						<20
Isophorone							<10						<10
Naphthalene							<10						<10
Nitrobenzene							<10						<10
N-Nitrosodimethylamine							<10						<10
N-Nitroso-di-n-propylamine							<10						<10
N-Nitrosodiphenylamine							<10						<10
Pentachlorophenol							<20						<20
Phenanthrene							<10						<10
Phenol							<10						<10
Pyrene							<10						<10

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RP-5 (M-INF 3D) RP-2 Lift Station Remaining Priority Pollutants

Table 16c

RP-5 (M-INF 3D) RP-2 Lift Station Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.06						<0.06
4,4-DDE							<0.06						<0.06
4,4-DDT							<0.08						<0.08
Aldrin							<0.04						<0.04
Alpha-BHC							<0.08						<0.08
Beta-BHC							<0.05						<0.05
Delta-BHC							<0.07						<0.07
Dieldrin							<0.06						<0.06
Endosulfan I							<0.1						<0.1
Endosulfan II							<0.07						<0.07
Endosulfan Sulfate							<0.09						<0.09
Endrin							<0.09						<0.09
Endrin aldehyde							<0.06						<0.06
Gamma-BHC							<0.1						<0.1
Heptachlor							<0.06						<0.06
Heptachlor epoxide							<0.07						<0.07
Chlordane							<1						<1
PCB-1016							<5						<5
PCB-1221							<5						<5
PCB-1232							<5						<5
PCB-1242							<5						<5
PCB-1248							<5						<5
PCB-1254							<5						<5
PCB-1260							<5						<5
Toxaphene							<5						<5

RP-5 (M-INF 3D) RP-2 Lift Station Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*	0.417	0.000	0.018	0.021	0.065	0.020	0.101	0.085	0.063	0.303	0.029	0.000	0.417
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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RP-1 (M-001B) Effluent Remaining Priority Pollutants

Table 18a

RP-1 (M-001B) Effluent Remaining Priority Pollutant Metals & CN, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1
Arsenic (As)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5
Cadmium (Cd)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25		<0.25
Chromium (Cr)	<0.5	0.7	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5			0.8
Copper (Cu)	3.6	4.3	5.5	3.9	4.4	4.7	4.1	3.8	4.0	4.1	<0.5		5.5
Lead (Pb)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Mercury (Hg)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05
Nickel (Ni)	2.6	3.0	3.2	3.0	3.4	3.5	3.7	3.3	3.6	3.7			3.7
Selenium (Se)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2
Silver (Ag)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25			<0.25
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1
Zinc (Zn)	23	27	33	34	35	38	37	37	32	35	34		38
CN, Free	<2			<2			2			<2			2

RP-1 (M-001B) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane							<1						<1
1,1,1,2-Tetrachloroethane							<0.5						<0.5
1,1,2-Trichloroethane							<1						<1
1,1-Dichloroethane							<0.5						<0.5
1,1-Dichloroethene							<1						<1
1,2-Dichlorobenzene							<1						<1
1,2-Dichloroethane							<0.5						<0.5
1,2-Dichloropropane							<0.5						<0.5
1,3-Dichlorobenzene							<1						<1
1,4-Dichlorobenzene							<1						<1
2-Chloroethyl vinyl ether							<1						<1
Benzene							<1						<1
Bromodichloromethane	13			12			15			31			31
Bromoform	<1			<1			<1			<1			<1
Bromomethane							<1						<1
Carbon tetrachloride							<0.5						<0.5
Chlorobenzene							<1						<1
Chloroethane							<1						<1
Chloroform	48			51			53			72			72
Chloromethane							<1						<1
cis-1,3-Dichloropropene							<0.5						<0.5
Dibromochloromethane	4			2			3			9			9
Ethylbenzene							<1						<1
Methylene chloride							<1						<1
Tetrachloroethene							<1						<1
Toluene							<1						<1
trans-1,2-Dichloroethene							<0.5						<0.5
trans-1,3-Dichloropropene							<0.5						<0.5
Trichloroethene							<1						<1
Trichlorofluoromethane							<2						<2
Vinyl chloride							<0.5						<0.5
Acrolein								<2					<2
Acrylonitrile								<0.25					<0.25

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RP-1 (M-001B) Effluent Remaining Priority Pollutants

Table 18b

RP-1 (M-001B) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1						<1
1,2-Dichlorobenzene							<1						<1
1,3-Dichlorobenzene							<1						<1
1,4-Dichlorobenzene							<1						<1
2,4,6-Trichlorophenol							<1						<1
2,4-Dichlorophenol							<2						<2
2,4-Dimethylphenol							<1						<1
2,4-Dinitrophenol							<3						<3
2,4-Dinitrotoluene							<1						<1
2,6-Dinitrotoluene							<2						<2
2-Chloronaphthalene							<1						<1
2-Chlorophenol							<1						<1
2-Methyl-4,6-dinitrophenol							<2						<2
2-Nitrophenol							<1						<1
3,3-Dichlorobenzidine							<5						<5
4-Bromophenyl phenyl ether							<1						<1
4-Chloro-3-methylphenol							<1						<1
4-Chlorophenyl phenyl ether							<1						<1
4-Nitrophenol							<3						<3
Acenaphthene							<1						<1
Acenaphthylene							<1						<1
Anthracene							<1						<1
Azobenzene							<1						<1
Benzidine							<5						<5
Benzo(a)anthracene							<5						<5
Benzo(a)pyrene							<1						<1
Benzo(b)fluoranthene							<1						<1
Benzo(g,h,i)perylene							<2						<2
Benzo(k)fluoranthene							<1						<1
Bis(2-chloroethoxy)methane							<2						<2
Bis(2-chloroethyl)ether							<1						<1
Bis(2-chloroisopropyl)ether							<1						<1
Bis(2-ethylhexyl)phthalate	<2			<2			<2			<2			<2
Butyl benzyl phthalate							<1						<1
Chrysene							<1						<1
Dibenzo(a,h)anthracene							<1						<1
Diethyl phthalate							<2						<2
Dimethyl phthalate							<1						<1
Di-n-butyl phthalate							<1						<1
Di-n-octyl phthalate							<1						<1
Fluoranthene							<1						<1
Fluorene							<1						<1
Hexachlorobenzene							<1						<1
Hexachlorobutadiene							<1						<1
Hexachlorocyclopentadiene							<5						<5
Hexachloroethane							<1						<1
Indeno(1,2,3-cd)pyrene							<2						<2
Isophorone							<1						<1
Naphthalene							<1						<1
Nitrobenzene							<1						<1
N-Nitrosodimethylamine							<1						<1
N-Nitroso-di-n-propylamine							<1						<1
N-Nitrosodiphenylamine							<1						<1
Pentachlorophenol							<2						<2
Phenanthrene							<1						<1
Phenol							<1						<1
Pyrene							<1						<1

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RP-1 (M-001B) Effluent Remaining Priority Pollutants

Table 18c

RP-1 (M-001B) Effluent Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006						<0.006
4,4-DDE							<0.006						<0.006
4,4-DDT							<0.008						<0.008
Aldrin							<0.004						<0.004
Alpha-BHC							<0.008						<0.008
Beta-BHC							<0.005						<0.005
Delta-BHC							<0.007						<0.007
Dieldrin							<0.006						<0.006
Endosulfan I							<0.01						<0.01
Endosulfan II							<0.007						<0.007
Endosulfan Sulfate							<0.009						<0.009
Endrin							<0.009						<0.009
Endrin aldehyde							<0.006						<0.006
Gamma-BHC							<0.01						<0.01
Heptachlor							<0.006						<0.006
Heptachlor epoxide							<0.007						<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5

RP-1 (M-001B) Effluent Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*							0.000						0.000
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants

Table 19a

RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutant Metals & CN, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1.0
Arsenic (As)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5
Cadmium (Cd)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25		<0.25
Chromium (Cr)	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5			0.6
Copper (Cu)	4.3	4.3	5.6	4.2	4.6	4.2	4.3	4.1	4.2	4.2	<0.5		5.6
Lead (Pb)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Mercury (Hg)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05
Nickel (Ni)	2.7	2.6	3.0	3.2	3.5	3.3	3.8	3.4	3.7	3.6			3.8
Selenium (Se)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2			<2
Silver (Ag)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25			<0.25
Thallium (Tl)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1
Zinc (Zn)	23	27	31	36	35	34	35	35	31	35	34		36
CN, Free	<2			3			2			3			3

RP-1/RP-4 (M-002A) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane							<1						<1
1,1,2,2-Tetrachloroethane							<0.5						<0.5
1,1,2-Trichloroethane							<1						<1
1,1-Dichloroethane							<0.5						<0.5
1,1-Dichloroethene							<1						<1
1,2-Dichlorobenzene							<1						<1
1,2-Dichloroethane							<0.5						<0.5
1,2-Dichloropropane							<0.5						<0.5
1,3-Dichlorobenzene							<1						<1
1,4-Dichlorobenzene							<1						<1
2-Chloroethyl vinyl ether							<1						<1
Benzene							<1						<1
Bromodichloromethane	13			11			16			22			22
Bromoform	<1			<1			<1			<1			<1
Bromomethane							<1						<1
Carbon tetrachloride							<0.5						<0.5
Chlorobenzene							<1						<1
Chloroethane							<1						<1
Chloroform	66			45			64			57			66
Chloromethane							<1						<1
cis-1,3-Dichloropropene							<0.5						<0.5
Dibromochloromethane	3			2			2			5			5
Ethylbenzene							<1						<1
Methylene chloride							<1						<1
Tetrachloroethene							<1						<1
Toluene							<1						<1
trans-1,2-Dichloroethene							<0.5						<0.5
trans-1,3-Dichloropropene							<0.5						<0.5
Trichloroethene							<1						<1
Trichlorofluoromethane							<2						<2
Vinyl chloride							<0.5						<0.5
Acrolein								<2		<2			<2
Acrylonitrile								0.57		0.31			0.57

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RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants

Table 19b

RP-1/RP-4 (M-002A) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene							<1						<1
1,2-Dichlorobenzene							<1						<1
1,3-Dichlorobenzene							<1						<1
1,4-Dichlorobenzene							<1						<1
2,4,6-Trichlorophenol							<1						<1
2,4-Dichlorophenol							<2						<2
2,4-Dimethylphenol							<1						<1
2,4-Dinitrophenol							<3						<3
2,4-Dinitrotoluene							<1						<1
2,6-Dinitrotoluene							<2						<2
2-Chloronaphthalene							<1						<1
2-Chlorophenol							<1						<1
2-Methyl-4,6-dinitrophenol							<2						<2
2-Nitrophenol							<1						<1
3,3-Dichlorobenzidine							<5						<5
4-Bromophenyl phenyl ether							<1						<1
4-Chloro-3-methylphenol							<1						<1
4-Chlorophenyl phenyl ether							<1						<1
4-Nitrophenol							<3						<3
Acenaphthene							<1						<1
Acenaphthylene							<1						<1
Anthracene							<1						<1
Azobenzene							<1						<1
Benzidine							<5						<5
Benzo(a)anthracene							<5						<5
Benzo(a)pyrene							<1						<1
Benzo(b)fluoranthene							<1						<1
Benzo(g,h,i)perylene							<2						<2
Benzo(k)fluoranthene							<1						<1
Bis(2-chloroethoxy)methane							<2						<2
Bis(2-chloroethyl)ether							<1						<1
Bis(2-chloroisopropyl)ether							<1						<1
Bis(2-ethylhexyl)phthalate	<2			<2			<2			<2			<2
Butyl benzyl phthalate							<1						<1
Chrysene							<1						<1
Dibenzo(a,h)anthracene							<1						<1
Diethyl phthalate							<2						<2
Dimethyl phthalate							<1						<1
Di-n-butyl phthalate							<1						<1
Di-n-octyl phthalate							<1						<1
Fluoranthene							<1						<1
Fluorene							<1						<1
Hexachlorobenzene							<1						<1
Hexachlorobutadiene							<1						<1
Hexachlorocyclopentadiene							<5						<5
Hexachloroethane							<1						<1
Indeno(1,2,3-cd)pyrene							<2						<2
Isophorone							<1						<1
Naphthalene							<1						<1
Nitrobenzene							<1						<1
N-Nitrosodimethylamine							<1						<1
N-Nitroso-di-n-propylamine							<1						<1
N-Nitrosodiphenylamine							<1						<1
Pentachlorophenol							<2						<2
Phenanthrene							<1						<1
Phenol							<1						<1
Pyrene							<1						<1

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RP-1/RP-4 (M-002A) Effluent Remaining Priority Pollutants

Table 19c

RP-1/RP-4 (M-002A) Effluent Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD							<0.006						<0.006
4,4-DDE							<0.006						<0.006
4,4-DDT							<0.008						<0.008
Aldrin							<0.004						<0.004
Alpha-BHC							<0.008						<0.008
Beta-BHC							<0.005						<0.005
Delta-BHC							<0.007						<0.007
Dieldrin							<0.006						<0.006
Endosulfan I							<0.01						<0.01
Endosulfan II							<0.007						<0.007
Endosulfan Sulfate							<0.009						<0.009
Endrin							<0.009						<0.009
Endrin aldehyde							<0.006						<0.006
Gamma-BHC							<0.01						<0.01
Heptachlor							<0.006						<0.006
Heptachlor epoxide							<0.007						<0.007
Chlordane							<0.1						<0.1
PCB-1016							<0.5						<0.5
PCB-1221							<0.5						<0.5
PCB-1232							<0.5						<0.5
PCB-1242							<0.5						<0.5
PCB-1248							<0.5						<0.5
PCB-1254							<0.5						<0.5
PCB-1260							<0.5						<0.5
Toxaphene							<0.5						<0.5

RP-1/RP-4 (M-002A) Effluent Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*							0.047						0.047
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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RP-5 (M-003) Effluent Remaining Priority Pollutants

Table 20a

RP-5 (M-003) Effluent Remaining Priority Pollutant Metals & CN, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<1	<1	<1	<1	<1	<1			<1	<1			<1.0
Arsenic (As)	<2	<2	<2	<2	<2	<2			<2	<2			<2
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5			<0.5
Cadmium (Cd)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25			<0.25	<0.25	<0.25		<0.25
Chromium (Cr)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5			<0.5
Copper (Cu)	5.9	5.8	7.1	6.1	6.3	5.9			5.5	6.1	3.0		7.1
Lead (Pb)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.5		<0.5
Mercury (Hg)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05			<0.05
Nickel (Ni)	2.5	2.6	3.0	2.6	3.1	3.1			3.2	3.1			3.2
Selenium (Se)	<2	<2	<2	<2	<2	<2			<2	<2			<2
Silver (Ag)	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25			<0.25	<0.25			<0.25
Thallium (Tl)	<1	<1	<1	<1	<1	<1			<1	<1			<1
Zinc (Zn)	53	41	45	48	44	38			36	47	42		53
CN, Free	<2			<2						<2			<2

RP-5 (M-003) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane									<1				<1
1,1,1,2-Tetrachloroethane									<0.5				<0.5
1,1,2-Trichloroethane									<1				<1
1,1-Dichloroethane									<0.5				<0.5
1,1-Dichloroethene									<1				<1
1,2-Dichlorobenzene									<1				<1
1,2-Dichloroethane									<0.5				<0.5
1,2-Dichloropropane									<0.5				<0.5
1,3-Dichlorobenzene									<1				<1
1,4-Dichlorobenzene									<1				<1
2-Chloroethyl vinyl ether									<1				<1
Benzene									<1				<1
Bromodichloromethane	12	17	17	9	26	17			16	13	20		26
Bromoform	<1	<1	<1	<1	<1	<1			<1	<1	<1		<1
Bromomethane									<1				<1
Carbon tetrachloride									<0.5				<0.5
Chlorobenzene									<1				<1
Chloroethane									<1				<1
Chloroform	62	74	55	30	83	59			46	34	54		83
Chloromethane									<1				<1
cis-1,3-Dichloropropene									<0.5				<0.5
Dibromochloromethane	<1	2	2	1	4	3			3	3	5		5
Ethylbenzene									<1				<1
Methylene chloride									<1				<1
Tetrachloroethene									<1				<1
Toluene									<1				<1
trans-1,2-Dichloroethene									<0.5				<0.5
trans-1,3-Dichloropropene									<0.5				<0.5
Trichloroethene									<1				<1
Trichlorofluoromethane									<2				<2
Vinyl chloride									<0.5				<0.5
Acrolein									<2				<2
Acrylonitrile									<0.25				<0.25

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RP-5 (M-003) Effluent Remaining Priority Pollutants

Table 20b

RP-5 (M-003) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene									<1				<1
1,2-Dichlorobenzene									<1				<1
1,3-Dichlorobenzene									<1				<1
1,4-Dichlorobenzene									<1				<1
2,4,6-Trichlorophenol									<1				<1
2,4-Dichlorophenol									<2				<2
2,4-Dimethylphenol									<1				<1
2,4-Dinitrophenol									<3				<3
2,4-Dinitrotoluene									<1				<1
2,6-Dinitrotoluene									<2				<2
2-Chloronaphthalene									<1				<1
2-Chlorophenol									<1				<1
2-Methyl-4,6-dinitrophenol									<2				<2
2-Nitrophenol									<1				<1
3,3-Dichlorobenzidine									<5				<5
4-Bromophenyl phenyl ether									<1				<1
4-Chloro-3-methylphenol									<1				<1
4-Chlorophenyl phenyl ether									<1				<1
4-Nitrophenol									<3				<3
Acenaphthene									<1				<1
Acenaphthylene									<1				<1
Anthracene									<1				<1
Azobenzene									<1				<1
Benzidine									<5				<5
Benzo(a)anthracene									<5				<5
Benzo(a)pyrene									<1				<1
Benzo(b)fluoranthene									<1				<1
Benzo(g,h,i)perylene									<2				<2
Benzo(k)fluoranthene									<1				<1
Bis(2-chloroethoxy)methane									<2				<2
Bis(2-chloroethyl)ether									<1				<1
Bis(2-chloroisopropyl)ether									<1				<1
Bis(2-ethylhexyl)phthalate	<2			<2					<2	<2			<2
Butyl benzyl phthalate									<1				<1
Chrysene									<1				<1
Dibenzo(a,h)anthracene									<1				<1
Diethyl phthalate									<2				<2
Dimethyl phthalate									<1				<1
Di-n-butyl phthalate									<1				<1
Di-n-octyl phthalate									<1				<1
Fluoranthene									<1				<1
Fluorene									<1				<1
Hexachlorobenzene									<1				<1
Hexachlorobutadiene									<1				<1
Hexachlorocyclopentadiene									<5				<5
Hexachloroethane									<1				<1
Indeno(1,2,3-cd)pyrene									<2				<2
Isophorone									<1				<1
Naphthalene									<1				<1
Nitrobenzene									<1				<1
N-Nitrosodimethylamine									<1				<1
N-Nitroso-di-n-propylamine									<1				<1
N-Nitrosodiphenylamine									<1				<1
Pentachlorophenol									<2				<2
Phenanthrene									<1				<1
Phenol									<1				<1
Pyrene									<1				<1

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RP-5 (M-003) Effluent Remaining Priority Pollutants

Table 20c

RP-5 (M-003) Effluent Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD									<0.006				<0.006
4,4-DDE									<0.006				<0.006
4,4-DDT									<0.008				<0.008
Aldrin									<0.004				<0.004
Alpha-BHC									<0.008				<0.008
Beta-BHC									<0.005				<0.005
Delta-BHC									<0.007				<0.007
Dieldrin									<0.006				<0.006
Endosulfan I									<0.01				<0.01
Endosulfan II									<0.007				<0.007
Endosulfan Sulfate									<0.009				<0.009
Endrin									<0.009				<0.009
Endrin aldehyde									<0.006				<0.006
Gamma-BHC									<0.01				<0.01
Heptachlor									<0.006				<0.006
Heptachlor epoxide									<0.007				<0.007
Chlordane									<0.1				<0.1
PCB-1016									<0.5				<0.5
PCB-1221									<0.5				<0.5
PCB-1232									<0.5				<0.5
PCB-1242									<0.5				<0.5
PCB-1248									<0.5				<0.5
PCB-1254									<0.5				<0.5
PCB-1260									<0.5				<0.5
Toxaphene									<0.5				<0.5

RP-5 (M-003) Effluent Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

ND: No Discharge

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CCWRF (M-004) Effluent Remaining Priority Pollutants

Table 21a

CCWRF (M-004) Effluent Remaining Priority Pollutant Metals & CN, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Antimony (Sb)	<1	<1	<1	<1	<1						<1		<1.0
Arsenic (As)	<2	<2	<2	<2	<2						1		<2
Beryllium (Be)	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5		<0.5
Cadmium (Cd)	<0.25	<0.25	<0.25	<0.25	<0.25						<0.25		<0.25
Chromium (Cr)	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5		<0.5
Copper (Cu)	6.7	7.0	7.4	6.7	6.8						4.5		7.4
Lead (Pb)	<0.5	<0.5	<0.5	<0.5	<0.5						<0.5		<0.5
Mercury (Hg)	<0.05	<0.05	<0.05	<0.05	<0.05						<0.05		<0.05
Nickel (Ni)	2.7	2.9	3.2	2.9	3.1						<1		3.2
Selenium (Se)	<2	<2	<2	<2	<2						<2		<2
Silver (Ag)	<0.25	<0.25	<0.25	<0.25	<0.25						<0.25		<0.25
Thallium (Tl)	<1	<1	<1	<1	<1						<1		<1
Zinc (Zn)	45	49	58	51	59						57		59
CN, Free	<2			<2									<2

CCWRF (M-004) Effluent Volatile Organics (EPA Methods 624, 601/602), µg/L

1,1,1-Trichloroethane											<1		<1
1,1,1,2-Tetrachloroethane											<0.5		<0.5
1,1,2-Trichloroethane											<1		<1
1,1-Dichloroethane											<0.5		<0.5
1,1-Dichloroethene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,2-Dichloroethane											<0.5		<0.5
1,2-Dichloropropane											<0.5		<0.5
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2-Chloroethyl vinyl ether											<1		<1
Benzene											<1		<1
Bromodichloromethane	17	27	28	21	20						28		28
Bromoform	<1	<1	<1	<1	<1						<1		<1
Bromomethane											<1		<1
Carbon tetrachloride											<0.5		<0.5
Chlorobenzene											<1		<1
Chloroethane											<1		<1
Chloroform	74	70	66	46	48						56		74
Chloromethane											<1		<1
cis-1,3-Dichloropropene											<0.5		<0.5
Dibromochloromethane	4	5	6	6	4						8		8
Ethylbenzene											<1		<1
Methylene chloride											<1		<1
Tetrachloroethene											<1		<1
Toluene											<1		<1
trans-1,2-Dichloroethene											<0.5		<0.5
trans-1,3-Dichloropropene											<0.5		<0.5
Trichloroethene											<1		<1
Trichlorofluoromethane											<2		<2
Vinyl chloride											<0.5		<0.5
Acrolein											<2		<2
Acrylonitrile											<0.25		<0.25

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

CCWRF (M-004) Effluent Remaining Priority Pollutants

Table 21b

CCWRF (M-004) Effluent Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2,4,6-Trichlorophenol											<1		<1
2,4-Dichlorophenol											<2		<2
2,4-Dimethylphenol											<1		<1
2,4-Dinitrophenol											<3		<3
2,4-Dinitrotoluene											<1		<1
2,6-Dinitrotoluene											<2		<2
2-Chloronaphthalene											<1		<1
2-Chlorophenol											<1		<1
2-Methyl-4,6-dinitrophenol											<2		<2
2-Nitrophenol											<1		<1
3,3-Dichlorobenzidine											<5		<5
4-Bromophenyl phenyl ether											<1		<1
4-Chloro-3-methylphenol											<1		<1
4-Chlorophenyl phenyl ether											<1		<1
4-Nitrophenol											<3		<3
Acenaphthene											<1		<1
Acenaphthylene											<1		<1
Anthracene											<1		<1
Azobenzene											<1		<1
Benzidine											<5		<5
Benzo(a)anthracene											<5		<5
Benzo(a)pyrene											<1		<1
Benzo(b)fluoranthene											<1		<1
Benzo(g,h,i)perylene											<2		<2
Benzo(k)fluoranthene											<1		<1
Bis(2-chloroethoxy)methane											<2		<2
Bis(2-chloroethyl)ether											<1		<1
Bis(2-chloroisopropyl)ether											<1		<1
Bis(2-ethylhexyl)phthalate	<2			<2							<2		<2
Butyl benzyl phthalate											<1		<1
Chrysene											<1		<1
Dibenzo(a,h)anthracene											<1		<1
Diethyl phthalate											<2		<2
Dimethyl phthalate											<1		<1
Di-n-butyl phthalate											<1		<1
Di-n-octyl phthalate											<1		<1
Fluoranthene											<1		<1
Fluorene											<1		<1
Hexachlorobenzene											<1		<1
Hexachlorobutadiene											<1		<1
Hexachlorocyclopentadiene											<5		<5
Hexachloroethane											<1		<1
Indeno(1,2,3-cd)pyrene											<2		<2
Isophorone											<1		<1
Naphthalene											<1		<1
Nitrobenzene											<1		<1
N-Nitrosodimethylamine											<1		<1
N-Nitroso-di-n-propylamine											<1		<1
N-Nitrosodiphenylamine											<1		<1
Pentachlorophenol											1		1
Phenanthrene											<1		<1
Phenol											<1		<1
Pyrene											<1		<1

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CCWRF (M-004) Effluent Remaining Priority Pollutants

Table 21c

CCWRF (M-004) Effluent Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD												<0.006	<0.006
4,4-DDE												<0.006	<0.006
4,4-DDT												<0.008	<0.008
Aldrin												<0.004	<0.004
Alpha-BHC												<0.008	<0.008
Beta-BHC												<0.005	<0.005
Delta-BHC												<0.007	<0.007
Dieldrin												<0.006	<0.006
Endosulfan I												0.045	0.045
Endosulfan II												<0.007	<0.007
Endosulfan Sulfate												<0.009	<0.009
Endrin												<0.009	<0.009
Endrin aldehyde												<0.006	<0.006
Gamma-BHC												<0.01	<0.01
Heptachlor												<0.006	<0.006
Heptachlor epoxide												<0.007	<0.007
Chlordane												<0.1	<0.1
PCB-1016												<0.5	<0.5
PCB-1221												<0.5	<0.5
PCB-1232												<0.5	<0.5
PCB-1242												<0.5	<0.5
PCB-1248												<0.5	<0.5
PCB-1254												<0.5	<0.5
PCB-1260												<0.5	<0.5
Toxaphene												<0.5	<0.5

CCWRF (M-004) Effluent Dioxins & Furans, pg/L (reported values based on detection limit)

PCDD/PCDF Congeners*	0.000			0.000								0.042	0.042
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*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2018 NPDES Annual Report

RP-1 Cucamonga Creek Upstream (R-002U) Remaining Priority Pollutants

Table 22a

RP-1 Cucamonga Creek Upstream (R-002U) Remaining Priority Pollutant Metals & Cyanide, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Hg, Total Recoverable								<0.05					<0.05
Ag, Total Dissolved								1.33					1.33
As, Total Dissolved								<2					<2
Be, Total Dissolved								<0.5					<0.5
Cd, Total Dissolved								<0.25					<0.25
Cr, Total Dissolved								1.8					1.8
Cu, Total Dissolved								11.5					11.5
Ni, Total Dissolved								2					2
Pb, Total Dissolved								<0.5					<0.5
Sb, Total Dissolved								<1					<1
Se, Total Dissolved								<2					<2
Tl, Total Dissolved								<1					<1
Zn, Total Dissolved								10					10

Table 22b

RP-1 Cucamonga Creek Upstream (R-002U) Volatile Organics (EPA Methods 624, 601/602), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,1,1-Trichloroethane								<1					<1
1,1,2,2-Tetrachloroethane								<0.5					<0.5
1,1,2-Trichloroethane								<1					<1
1,1-Dichloroethane								<0.5					<0.5
1,1-Dichloroethene								<1					<1
1,2-Dichlorobenzene								<1					<1
1,2-Dichloroethane								<1					<1
1,2-Dichloropropane								<0.5					<0.5
1,3-Dichlorobenzene								<1					<1
1,4-Dichlorobenzene								<1					<1
2-Chloroethyl vinyl ether								<1					<1
Benzene								<1					<1
Bromodichloromethane								<1					<1
Bromoform								<1					<1
Bromomethane								<1					<1
Carbon tetrachloride								<1					<1
Chlorobenzene								<1					<1
Chloroethane								<1					<1
Chloroform								<1					<1
Chloromethane								<1					<1
cis-1,3-Dichloropropene								<1					<1
Dibromochloromethane								<1					<1
Ethylbenzene								<1					<1
Methylene chloride								<1					<1
Tetrachloroethene								<1					<1
Toluene								<1					<1
trans-1,2-Dichloroethene								<0.5					<0.5
trans-1,3-Dichloropropene								<1					<1
Trichloroethene								<1					<1
Trichlorofluoromethane								<2					<2
Vinyl chloride								<1					<1
Acrolein								<2					<2
Acrylonitrile								<2					<2

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RP-1 Cucamonga Creek Upstream (R-002U) Remaining Priority Pollutants

Table 22c

RP-1 Cucamonga Creek Upstream (R-002U) Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene								<1					<1
1,2-Dichlorobenzene								<1					<1
1,3-Dichlorobenzene								<1					<1
1,4-Dichlorobenzene								<1					<1
2,4,6-Trichlorophenol								<1					<1
2,4-Dichlorophenol								<2					<2
2,4-Dimethylphenol								<1					<1
2,4-Dinitrophenol								<3					<3
2,4-Dinitrotoluene								<1					<1
2,6-Dinitrotoluene								<2					<2
2-Chloronaphthalene								<1					<1
2-Chlorophenol								<1					<1
2-Methyl-4,6-dinitrophenol								<2					<2
2-Nitrophenol								<1					<1
3,3-Dichlorobenzidine								<5					<5
4-Bromophenyl phenyl ether								<1					<1
4-Chloro-3-methylphenol								<1					<1
4-Chlorophenyl phenyl ether								<1					<1
4-Nitrophenol								<3					<3
Acenaphthene								<1					<1
Acenaphthylene								<1					<1
Anthracene								<1					<1
Azobenzene								<1					<1
Benzidine								<5					<5
Benzo(a)anthracene								<5					<5
Benzo(a)pyrene								<1					<1
Benzo(b)fluoranthene								<1					<1
Benzo(g,h,i)perylene								<2					<2
Benzo(k)fluoranthene								<1					<1
Bis(2-chloroethoxy)methane								<2					<2
Bis(2-chloroethyl)ether								<1					<1
Bis(2-chloroisopropyl)ether								<1					<1
Bis(2-ethylhexyl)phthalate								<2					<2
Butyl benzyl phthalate								<1					<1
Chrysene								<1					<1
Dibenzo(a,h)anthracene								<1					<1
Diethyl phthalate								<2					<2
Dimethyl phthalate								<1					<1
Di-n-butyl phthalate								<1					<1
Di-n-octyl phthalate								<1					<1
Fluoranthene								<1					<1
Fluorene								<1					<1
Hexachlorobenzene								<1					<1
Hexachlorobutadiene								<1					<1
Hexachlorocyclopentadiene								<5					<5
Hexachloroethane								<1					<1
Indeno(1,2,3-cd)pyrene								<2					<2
Isophorone								<1					<1
Naphthalene								<1					<1
Nitrobenzene								<1					<1
N-Nitrosodimethylamine								<1					<1
N-Nitroso-di-n-propylamine								<1					<1
N-Nitrosodiphenylamine								<1					<1
Pentachlorophenol								<2					<2
Phenanthrene								<1					<1
Phenol								<1					<1
Pyrene								<1					<1
TCDD Scan								ND					ND

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RP-1 Cucamonga Creek Upstream (R-002U) Remaining Priority Pollutants

Table 22d

RP-1 Cucamonga Creek Upstream (R-002U) Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD								<0.006					<0.006
4,4-DDE								<0.006					<0.006
4,4-DDT								<0.008					<0.008
Aldrin								<0.004					<0.004
Alpha-BHC								<0.008					<0.008
Beta-BHC								<0.005					<0.005
Delta-BHC								<0.007					<0.007
Dieldrin								<0.006					<0.006
Endosulfan I								<0.01					<0.01
Endosulfan II								<0.007					<0.007
Endosulfan Sulfate								<0.009					<0.009
Endrin								<0.009					<0.009
Endrin aldehyde								<0.006					<0.006
Gamma-BHC								<0.01					<0.01
Heptachlor								<0.006					<0.006
Heptachlor epoxide								<0.007					<0.007
Chlordane								<0.1					<0.1
PCB-1016								<0.5					<0.5
PCB-1221								<0.5					<0.5
PCB-1232								<0.5					<0.5
PCB-1242								<0.5					<0.5
PCB-1248								<0.5					<0.5
PCB-1254								<0.5					<0.5
PCB-1260								<0.5					<0.5
Toxaphene								<0.5					<0.5

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RP-1 Cucamonga Creek Downstream (R-002D) Remaining Priority Pollutants

Table 23a

RP-1 Cucamonga Creek Downstream (R-002D) Remaining Priority Pollutant Metals & Cyanide, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Hg, Total Recoverable								<0.05					<0.05
Ag, Total Dissolved								<0.25					<0.25
As, Total Dissolved								<2					<2
Be, Total Dissolved								<0.5					<0.5
Cd, Total Dissolved								<0.25					<0.25
Cr, Total Dissolved								1.1					1.1
Cu, Total Dissolved								7.3					7.3
Ni, Total Dissolved								3					3
Pb, Total Dissolved								<0.5					<0.5
Sb, Total Dissolved								<1					<1
Se, Total Dissolved								<2					<2
Tl, Total Dissolved								<1					<1
Zn, Total Dissolved								27					27

Table 23b

RP-1 Cucamonga Creek Downstream (R-002D) Volatile Organics (EPA Methods 624, 601/602), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,1,1-Trichloroethane								<1					<1
1,1,2,2-Tetrachloroethane								<0.5					<0.5
1,1,2-Trichloroethane								<1					<1
1,1-Dichloroethane								<0.5					<0.5
1,1-Dichloroethene								<1					<1
1,2-Dichlorobenzene								<1					<1
1,2-Dichloroethane								<1					<1
1,2-Dichloropropane								<0.5					<0.5
1,3-Dichlorobenzene								<1					<1
1,4-Dichlorobenzene								<1					<1
2-Chloroethyl vinyl ether								<1					<1
Benzene								<1					<1
Bromodichloromethane								2					2
Bromoform								<1					<1
Bromomethane								<1					<1
Carbon tetrachloride								<1					<1
Chlorobenzene								<1					<1
Chloroethane								<1					<1
Chloroform								10					10
Chloromethane								<1					<1
cis-1,3-Dichloropropene								<1					<1
Dibromochloromethane								<1					<1
Ethylbenzene								<1					<1
Methylene chloride								<1					<1
Tetrachloroethene								<1					<1
Toluene								<1					<1
trans-1,2-Dichloroethene								<0.5					<0.5
trans-1,3-Dichloropropene								<1					<1
Trichloroethene								<1					<1
Trichlorofluoromethane								<2					<2
Vinyl chloride								<1					<1
Acrolein								<2					<2
Acrylonitrile								0.47					0.47

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RP-1 Cucamonga Creek Downstream (R-002D) Remaining Priority Pollutants

Table 23c

RP-1 Cucamonga Creek Downstream (R-002D) Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene								<1					<1
1,2-Dichlorobenzene								<1					<1
1,3-Dichlorobenzene								<1					<1
1,4-Dichlorobenzene								<1					<1
2,4,6-Trichlorophenol								<1					<1
2,4-Dichlorophenol								<2					<2
2,4-Dimethylphenol								<1					<1
2,4-Dinitrophenol								<3					<3
2,4-Dinitrotoluene								<1					<1
2,6-Dinitrotoluene								<2					<2
2-Chloronaphthalene								<1					<1
2-Chlorophenol								<1					<1
2-Methyl-4,6-dinitrophenol								<2					<2
2-Nitrophenol								<1					<1
3,3-Dichlorobenzidine								<5					<5
4-Bromophenyl phenyl ether								<1					<1
4-Chloro-3-methylphenol								<1					<1
4-Chlorophenyl phenyl ether								<1					<1
4-Nitrophenol								<3					<3
Acenaphthene								<1					<1
Acenaphthylene								<1					<1
Anthracene								<1					<1
Azobenzene								<1					<1
Benzidine								<5					<5
Benzo(a)anthracene								<5					<5
Benzo(a)pyrene								<1					<1
Benzo(b)fluoranthene								<1					<1
Benzo(g,h,i)perylene								<2					<2
Benzo(k)fluoranthene								<1					<1
Bis(2-chloroethoxy)methane								<2					<2
Bis(2-chloroethyl)ether								<1					<1
Bis(2-chloroisopropyl)ether								<1					<1
Bis(2-ethylhexyl)phthalate								<2					<2
Butyl benzyl phthalate								<1					<1
Chrysene								<1					<1
Dibenzo(a,h)anthracene								<1					<1
Diethyl phthalate								<2					<2
Dimethyl phthalate								<1					<1
Di-n-butyl phthalate								<1					<1
Di-n-octyl phthalate								<1					<1
Fluoranthene								<1					<1
Fluorene								<1					<1
Hexachlorobenzene								<1					<1
Hexachlorobutadiene								<1					<1
Hexachlorocyclopentadiene								<5					<5
Hexachloroethane								<1					<1
Indeno(1,2,3-cd)pyrene								<2					<2
Isophorone								<1					<1
Naphthalene								<1					<1
Nitrobenzene								<1					<1
N-Nitrosodimethylamine								<1					<1
N-Nitroso-di-n-propylamine								<1					<1
N-Nitrosodiphenylamine								<1					<1
Pentachlorophenol								<2					<2
Phenanthrene								<1					<1
Phenol								<1					<1
Pyrene								<1					<1
TCDD Scan								ND					ND

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RP-1 Cucamonga Creek Downstream (R-002D) Remaining Priority Pollutants

Table 23d

RP-1 Cucamonga Creek Downstream (R-002D) Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD								<0.006					<0.006
4,4-DDE								<0.006					<0.006
4,4-DDT								<0.008					<0.008
Aldrin								<0.004					<0.004
Alpha-BHC								<0.008					<0.008
Beta-BHC								<0.005					<0.005
Delta-BHC								<0.007					<0.007
Dieldrin								<0.006					<0.006
Endosulfan I								<0.01					<0.01
Endosulfan II								<0.007					<0.007
Endosulfan Sulfate								<0.009					<0.009
Endrin								<0.009					<0.009
Endrin aldehyde								<0.006					<0.006
Gamma-BHC								<0.01					<0.01
Heptachlor								<0.006					<0.006
Heptachlor epoxide								<0.007					<0.007
Chlordane								<0.1					<0.1
PCB-1016								<0.5					<0.5
PCB-1221								<0.5					<0.5
PCB-1232								<0.5					<0.5
PCB-1242								<0.5					<0.5
PCB-1248								<0.5					<0.5
PCB-1254								<0.5					<0.5
PCB-1260								<0.5					<0.5
Toxaphene								<0.5					<0.5

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RP-5 Chino Creek Upstream (R-003U) Remaining Priority Pollutants

Table 24a

RP-5 Chino Creek Upstream (R-003U) Remaining Priority Pollutant Metals & Cyanide, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Hg, Total Recoverable											<0.05		<0.05
Ag, Total Dissolved											<0.25		<0.25
As, Total Dissolved											<2		<2
Be, Total Dissolved											<0.5		<0.5
Cd, Total Dissolved											<0.25		<0.25
Cr, Total Dissolved											<0.5		<0.5
Cu, Total Dissolved											4.4		4.4
Ni, Total Dissolved											<1		<1
Pb, Total Dissolved											<0.5		<0.5
Sb, Total Dissolved											<1		<1
Se, Total Dissolved											<2		<2
Tl, Total Dissolved											<1		<1
Zn, Total Dissolved											58		58

Table 24b

RP-5 Chino Creek Upstream (R-003U) Volatile Organics (EPA Methods 624, 601/602), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,1,1-Trichloroethane											<1		<1
1,1,2,2-Tetrachloroethane											<0.5		<0.5
1,1,2-Trichloroethane											<1		<1
1,1-Dichloroethane											<0.5		<0.5
1,1-Dichloroethene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,2-Dichloroethane											<1		<1
1,2-Dichloropropane											<0.5		<0.5
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2-Chloroethyl vinyl ether											<1		<1
Benzene											<1		<1
Bromodichloromethane											15		15
Bromoform											<1		<1
Bromomethane											<1		<1
Carbon tetrachloride											<1		<1
Chlorobenzene											<1		<1
Chloroethane											<1		<1
Chloroform											44		44
Chloromethane											<1		<1
cis-1,3-Dichloropropene											<1		<1
Dibromochloromethane											5		5
Ethylbenzene											<1		<1
Methylene chloride											<1		<1
Tetrachloroethene											<1		<1
Toluene											<1		<1
trans-1,2-Dichloroethene											<0.5		<0.5
trans-1,3-Dichloropropene											<1		<1
Trichloroethene											<1		<1
Trichlorofluoromethane											<2		<2
Vinyl chloride											<1		<1
Acrolein											<2		<2
Acrylonitrile											<2		<2

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RP-5 Chino Creek Upstream (R-003U) Remaining Priority Pollutants

Table 24c

RP-5 Chino Creek Upstream (R-003U) Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2,4,6-Trichlorophenol											<1		<1
2,4-Dichlorophenol											<2		<2
2,4-Dimethylphenol											<1		<1
2,4-Dinitrophenol											<3		<3
2,4-Dinitrotoluene											<1		<1
2,6-Dinitrotoluene											<2		<2
2-Chloronaphthalene											<1		<1
2-Chlorophenol											<1		<1
2-Methyl-4,6-dinitrophenol											<2		<2
2-Nitrophenol											<1		<1
3,3-Dichlorobenzidine											<5		<5
4-Bromophenyl phenyl ether											<1		<1
4-Chloro-3-methylphenol											<1		<1
4-Chlorophenyl phenyl ether											<1		<1
4-Nitrophenol											<3		<3
Acenaphthene											<1		<1
Acenaphthylene											<1		<1
Anthracene											<1		<1
Azobenzene											<1		<1
Benzidine											<5		<5
Benzo(a)anthracene											<5		<5
Benzo(a)pyrene											<1		<1
Benzo(b)fluoranthene											<1		<1
Benzo(g,h,i)perylene											<2		<2
Benzo(k)fluoranthene											<1		<1
Bis(2-chloroethoxy)methane											<2		<2
Bis(2-chloroethyl)ether											<1		<1
Bis(2-chloroisopropyl)ether											<1		<1
Bis(2-ethylhexyl)phthalate											<2		<2
Butyl benzyl phthalate											<1		<1
Chrysene											<1		<1
Dibenzo(a,h)anthracene											<1		<1
Diethyl phthalate											<2		<2
Dimethyl phthalate											<1		<1
Di-n-butyl phthalate											<1		<1
Di-n-octyl phthalate											<1		<1
Fluoranthene											<1		<1
Fluorene											<1		<1
Hexachlorobenzene											<1		<1
Hexachlorobutadiene											<1		<1
Hexachlorocyclopentadiene											<5		<5
Hexachloroethane											<1		<1
Indeno(1,2,3-cd)pyrene											<2		<2
Isophorone											<1		<1
Naphthalene											<1		<1
Nitrobenzene											<1		<1
N-Nitrosodimethylamine											<1		<1
N-Nitroso-di-n-propylamine											<1		<1
N-Nitrosodiphenylamine											<1		<1
Pentachlorophenol											<2		<2
Phenanthrene											<1		<1
Phenol											<1		<1
Pyrene											<1		<1
TCDD Scan											ND		ND

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RP-5 Chino Creek Upstream (R-003U) Remaining Priority Pollutants

Table 24d

RP-5 Chino Creek Upstream (R-003U) Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD												<0.006	<0.006
4,4-DDE												<0.006	<0.006
4,4-DDT												<0.008	<0.008
Aldrin												<0.004	<0.004
Alpha-BHC												<0.008	<0.008
Beta-BHC												<0.005	<0.005
Delta-BHC												<0.007	<0.007
Dieldrin												<0.006	<0.006
Endosulfan I												0.046	0.046
Endosulfan II												<0.007	<0.007
Endosulfan Sulfate												<0.009	<0.009
Endrin												<0.009	<0.009
Endrin aldehyde												<0.006	<0.006
Gamma-BHC												<0.01	<0.01
Heptachlor												<0.006	<0.006
Heptachlor epoxide												<0.007	<0.007
Chlordane												<0.1	<0.1
PCB-1016												<0.5	<0.5
PCB-1221												<0.5	<0.5
PCB-1232												<0.5	<0.5
PCB-1242												<0.5	<0.5
PCB-1248												<0.5	<0.5
PCB-1254												<0.5	<0.5
PCB-1260												<0.5	<0.5
Toxaphene												<0.5	<0.5

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RP-5 Chino Creek Downstream (R-003D) Remaining Priority Pollutants

Table 25a

RP-5 Chino Creek Downstream (R-003D) Remaining Priority Pollutant Metals & Cyanide, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Hg, Total Recoverable											<0.05		<0.05
Ag, Total Dissolved											<0.25		<0.25
As, Total Dissolved											1		1
Be, Total Dissolved											<0.5		<0.5
Cd, Total Dissolved											<0.25		<0.25
Cr, Total Dissolved											<0.5		<0.5
Cu, Total Dissolved											3.4		3.4
Ni, Total Dissolved											<1		<1
Pb, Total Dissolved											<0.5		<0.5
Sb, Total Dissolved											<1		<1
Se, Total Dissolved											<2		<2
Tl, Total Dissolved											<1		<1
Zn, Total Dissolved											34		34

Table 25b

RP-5 Chino Creek Downstream (R-003D) Volatile Organics (EPA Methods 624, 601/602), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,1,1-Trichloroethane											<1		<1
1,1,2,2-Tetrachloroethane											<0.5		<0.5
1,1,2-Trichloroethane											<1		<1
1,1-Dichloroethane											<0.5		<0.5
1,1-Dichloroethene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,2-Dichloroethane											<1		<1
1,2-Dichloropropane											<0.5		<0.5
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2-Chloroethyl vinyl ether											<1		<1
Benzene											<1		<1
Bromodichloromethane											5		5
Bromoform											<1		<1
Bromomethane											<1		<1
Carbon tetrachloride											<1		<1
Chlorobenzene											<1		<1
Chloroethane											<1		<1
Chloroform											20		20
Chloromethane											<1		<1
cis-1,3-Dichloropropene											<1		<1
Dibromochloromethane											<1		<1
Ethylbenzene											<1		<1
Methylene chloride											<1		<1
Tetrachloroethene											<1		<1
Toluene											<1		<1
trans-1,2-Dichloroethene											<0.5		<0.5
trans-1,3-Dichloropropene											<1		<1
Trichloroethene											<1		<1
Trichlorofluoromethane											<2		<2
Vinyl chloride											<1		<1
Acrolein											<2		<2
Acrylonitrile											<2		<2

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RP-5 Chino Creek Downstream (R-003D) Remaining Priority Pollutants

Table 25c

RP-5 Chino Creek Downstream (R-003D) Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2,4,6-Trichlorophenol											<1		<1
2,4-Dichlorophenol											<2		<2
2,4-Dimethylphenol											<1		<1
2,4-Dinitrophenol											<3		<3
2,4-Dinitrotoluene											<1		<1
2,6-Dinitrotoluene											<2		<2
2-Chloronaphthalene											<1		<1
2-Chlorophenol											<1		<1
2-Methyl-4,6-dinitrophenol											<2		<2
2-Nitrophenol											<1		<1
3,3-Dichlorobenzidine											<5		<5
4-Bromophenyl phenyl ether											<1		<1
4-Chloro-3-methylphenol											<1		<1
4-Chlorophenyl phenyl ether											<1		<1
4-Nitrophenol											<3		<3
Acenaphthene											<1		<1
Acenaphthylene											<1		<1
Anthracene											<1		<1
Azobenzene											<1		<1
Benzidine											<5		<5
Benzo(a)anthracene											<5		<5
Benzo(a)pyrene											<1		<1
Benzo(b)fluoranthene											<1		<1
Benzo(g,h,i)perylene											<2		<2
Benzo(k)fluoranthene											<1		<1
Bis(2-chloroethoxy)methane											<2		<2
Bis(2-chloroethyl)ether											<1		<1
Bis(2-chloroisopropyl)ether											<1		<1
Bis(2-ethylhexyl)phthalate											<2		<2
Butyl benzyl phthalate											<1		<1
Chrysene											<1		<1
Dibenzo(a,h)anthracene											<1		<1
Diethyl phthalate											<2		<2
Dimethyl phthalate											<1		<1
Di-n-butyl phthalate											<1		<1
Di-n-octyl phthalate											<1		<1
Fluoranthene											<1		<1
Fluorene											<1		<1
Hexachlorobenzene											<1		<1
Hexachlorobutadiene											<1		<1
Hexachlorocyclopentadiene											<5		<5
Hexachloroethane											<1		<1
Indeno(1,2,3-cd)pyrene											<2		<2
Isophorone											<1		<1
Naphthalene											<1		<1
Nitrobenzene											<1		<1
N-Nitrosodimethylamine											<1		<1
N-Nitroso-di-n-propylamine											<1		<1
N-Nitrosodiphenylamine											<1		<1
Pentachlorophenol											<2		<2
Phenanthrene											<1		<1
Phenol											<1		<1
Pyrene											<1		<1
TCDD Scan											ND		ND

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RP-5 Chino Creek Downstream (R-003D) Remaining Priority Pollutants

Table 25d

RP-5 Chino Creek Downstream (R-003D) Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD												<0.006	<0.006
4,4-DDE												<0.006	<0.006
4,4-DDT												<0.008	<0.008
Aldrin												<0.004	<0.004
Alpha-BHC												<0.008	<0.008
Beta-BHC												<0.005	<0.005
Delta-BHC												<0.007	<0.007
Dieldrin												<0.006	<0.006
Endosulfan I												0.022	0.022
Endosulfan II												<0.007	<0.007
Endosulfan Sulfate												<0.009	<0.009
Endrin												<0.009	<0.009
Endrin aldehyde												<0.006	<0.006
Gamma-BHC												<0.01	<0.01
Heptachlor												<0.006	<0.006
Heptachlor epoxide												<0.007	<0.007
Chlordane												<0.1	<0.1
PCB-1016												<0.5	<0.5
PCB-1221												<0.5	<0.5
PCB-1232												<0.5	<0.5
PCB-1242												<0.5	<0.5
PCB-1248												<0.5	<0.5
PCB-1254												<0.5	<0.5
PCB-1260												<0.5	<0.5
Toxaphene												<0.5	<0.5

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CCWRF Chino Creek Upstream (R-004U) Remaining Priority Pollutants

Table 26a

CCWRF Chino Creek Upstream (R-004U) Remaining Priority Pollutant Metals & Cyanide, µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
Hg, Total Recoverable											<0.05		<0.05
Ag, Total Dissolved											<0.25		<0.25
As, Total Dissolved											1		1
Be, Total Dissolved											<0.5		<0.5
Cd, Total Dissolved											<0.25		<0.25
Cr, Total Dissolved											<0.5		<0.5
Cu, Total Dissolved											6.1		6.1
Ni, Total Dissolved											<1		<1
Pb, Total Dissolved											0.5		0.5
Sb, Total Dissolved											<1		<1
Se, Total Dissolved											<2		<2
Tl, Total Dissolved											<1		<1
Zn, Total Dissolved											26		26

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CCWRF Chino Creek Upstream (R-004U) Remaining Priority Pollutants

Table 26b

CCWRF Chino Creek Upstream (R-004U) Volatile Organics (EPA Methods 624, 601/602), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,1,1-Trichloroethane											<1		<1
1,1,2,2-Tetrachloroethane											<0.5		<0.5
1,1,2-Trichloroethane											<1		<1
1,1-Dichloroethane											<0.5		<0.5
1,1-Dichloroethene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,2-Dichloroethane											<1		<1
1,2-Dichloropropane											<0.5		<0.5
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2-Chloroethyl vinyl ether											<1		<1
Benzene											<1		<1
Bromodichloromethane											<1		<1
Bromoform											<1		<1
Bromomethane											<1		<1
Carbon tetrachloride											<1		<1
Chlorobenzene											<1		<1
Chloroethane											<1		<1
Chloroform											<1		<1
Chloromethane											<1		<1
cis-1,3-Dichloropropene											<1		<1
Dibromochloromethane											<1		<1
Ethylbenzene											<1		<1
Methylene chloride											<1		<1
Tetrachloroethene											<1		<1
Toluene											<1		<1
trans-1,2-Dichloroethene											<0.5		<0.5
trans-1,3-Dichloropropene											<1		<1
Trichloroethene											<1		<1
Trichlorofluoromethane											<2		<2
Vinyl chloride											<1		<1
Acrolein											<2		<2
Acrylonitrile											<2		<2

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CCWRF Chino Creek Upstream (R-004U) Remaining Priority Pollutants

Table 26c

CCWRF Chino Creek Upstream (R-004U) Base/Neutral and Acid Extractibles (EPA Method 625), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
1,2,4-Trichlorobenzene											<1		<1
1,2-Dichlorobenzene											<1		<1
1,3-Dichlorobenzene											<1		<1
1,4-Dichlorobenzene											<1		<1
2,4,6-Trichlorophenol											<1		<1
2,4-Dichlorophenol											<2		<2
2,4-Dimethylphenol											<1		<1
2,4-Dinitrophenol											<3		<3
2,4-Dinitrotoluene											<1		<1
2,6-Dinitrotoluene											<2		<2
2-Chloronaphthalene											<1		<1
2-Chlorophenol											<1		<1
2-Methyl-4,6-dinitrophenol											<2		<2
2-Nitrophenol											<1		<1
3,3-Dichlorobenzidine											<5		<5
4-Bromophenyl phenyl ether											<1		<1
4-Chloro-3-methylphenol											<1		<1
4-Chlorophenyl phenyl ether											<1		<1
4-Nitrophenol											<3		<3
Acenaphthene											<1		<1
Acenaphthylene											<1		<1
Anthracene											<1		<1
Azobenzene											<1		<1
Benzidine											<5		<5
Benzo(a)anthracene											<5		<5
Benzo(a)pyrene											<1		<1
Benzo(b)fluoranthene											<1		<1
Benzo(g,h,i)perylene											<2		<2
Benzo(k)fluoranthene											<1		<1
Bis(2-chloroethoxy)methane											<2		<2
Bis(2-chloroethyl)ether											<1		<1
Bis(2-chloroisopropyl)ether											<1		<1
Bis(2-ethylhexyl)phthalate											<2		<2
Butyl benzyl phthalate											<1		<1
Chrysene											<1		<1
Dibenzo(a,h)anthracene											<1		<1
Diethyl phthalate											<2		<2
Dimethyl phthalate											<1		<1
Di-n-butyl phthalate											<1		<1
Di-n-octyl phthalate											<1		<1
Fluoranthene											<1		<1
Fluorene											<1		<1
Hexachlorobenzene											<1		<1
Hexachlorobutadiene											<1		<1
Hexachlorocyclopentadiene											<5		<5
Hexachloroethane											<1		<1
Indeno(1,2,3-cd)pyrene											<2		<2
Isophorone											<1		<1
Naphthalene											<1		<1
Nitrobenzene											<1		<1
N-Nitrosodimethylamine											<1		<1
N-Nitroso-di-n-propylamine											<1		<1
N-Nitrosodiphenylamine											<1		<1
Pentachlorophenol											<2		<2
Phenanthrene											<1		<1
Phenol											<1		<1
Pyrene											<1		<1
TCDD Scan											ND		ND

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CCWRF Chino Creek Upstream (R-004U) Remaining Priority Pollutants

Table 26d

CCWRF Chino Creek Upstream (R-004U) Pesticides (EPA Method 608), µg/L

Constituent	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Max.
4,4-DDD												<0.006	<0.006
4,4-DDE												<0.006	<0.006
4,4-DDT												<0.008	<0.008
Aldrin												<0.004	<0.004
Alpha-BHC												<0.008	<0.008
Beta-BHC												<0.005	<0.005
Delta-BHC												<0.007	<0.007
Dieldrin												<0.006	<0.006
Endosulfan I												<0.01	<0.01
Endosulfan II												<0.007	<0.007
Endosulfan Sulfate												<0.009	<0.009
Endrin												<0.009	<0.009
Endrin aldehyde												<0.006	<0.006
Gamma-BHC												<0.01	<0.01
Heptachlor												<0.006	<0.006
Heptachlor epoxide												<0.007	<0.007
Chlordane												<0.1	<0.1
PCB-1016												<0.5	<0.5
PCB-1221												<0.5	<0.5
PCB-1232												<0.5	<0.5
PCB-1242												<0.5	<0.5
PCB-1248												<0.5	<0.5
PCB-1254												<0.5	<0.5
PCB-1260												<0.5	<0.5
Toxaphene												<0.5	<0.5