2020

IEUA FY 2019-2020 Recycled Water Annual Report

Water Smart
Thinking in Terms of Tomorrow

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

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INTRODUCTION

The 2019/20 Recycled Water Annual Report for the Inland Empire Utilities Agency (IEUA) recycled water program provides annual delivery data by IEUA retail agencies, by usage types, and by customers. The report also gives an overview of the IEUA treatment plants, describes recent construction, and summarizes the program history. The 2019/20 report is for IEUA's fiscal year, which runs from July 2019 to June 2020.

As a regional wastewater treatment agency, IEUA provides sewage utility services to seven contracting agencies under the Chino Basin Regional Sewage Service Contract: the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and Cucamonga Valley Water District (CVWD) in the city of Rancho Cucamonga. Recycled water is generated through the water recycling process and delivered to its retail water agencies for use in the IEUA service area.

TREATMENT PLANTS

IEUA owns and operates five regional water recycling plants that serve over 875,000 people: Regional Water Recycling Plant No. 1 (RP-1), Regional Water Recycling Plant No. 2 (RP-2), Regional Water Recycling Plant No. 4 (RP-4), Regional Water Recycling Plant No. 5 (RP-5), and Carbon Canyon Water Recycling Facility (CCWRF). **Figure 1** below shows the IEUA service area, its contracting agencies, and the locations of IEUA's treatment plants. Of the five plants, four produce tertiary-treated, Title 22-quality recycled water; RP-2 does not have any liquid treatment processes and as such does not produce any recycled water. The combined hydraulic capacity of the four plants is approximately 85 million gallons per day (MGD). With the planned plant expansion of RP-5 over the coming years, up to 15 MGD of additional hydraulic capacity may be achieved.

Appendices A and **B** contain the recycled water effluent monitoring data and recycled water compliance data, respectively, for the 2019 calendar year for the four recycled water facilities.

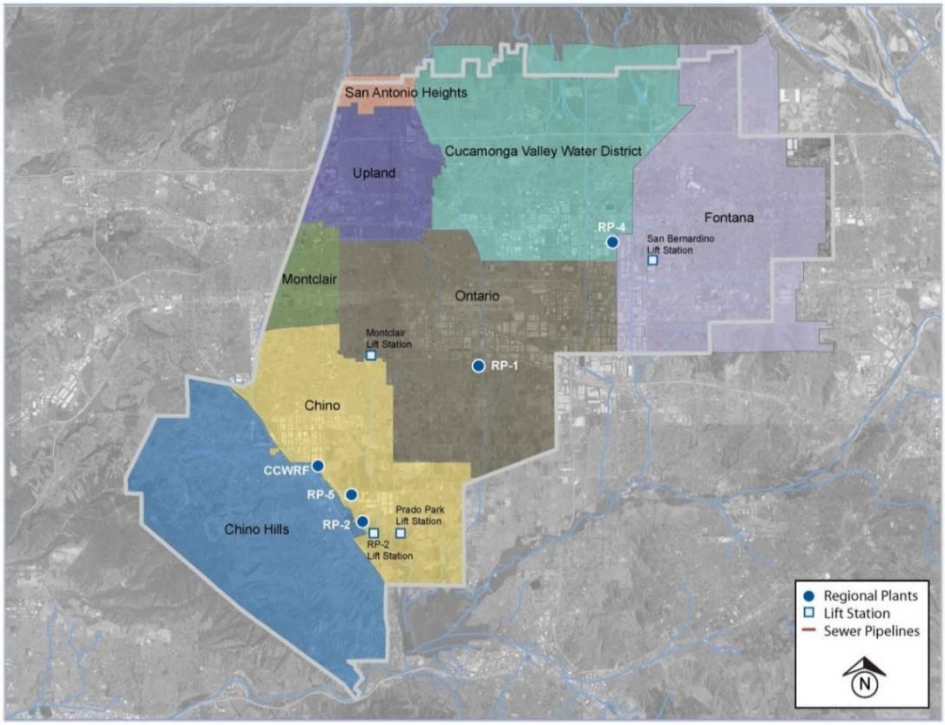

Figure 1 - IEUA Service Area

DEMANDS

During 2019/20, the average recycled water supply from IEUA's facilities was approximately 50 MGD, or 56,388 acre-feet per year (AFY). Recycled water groundwater recharge usage was 13,381 AFY and recycled water direct usage was 17,115 AFY. Total recycled water demands during 2019/20 were 30,495 AF (values throughout the report are rounded to the nearest acre-foot) an increase of 8% from the previous fiscal year. Recycled water recharge was up 16% and direct use was up 2%.

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 54 percent of the available supply. During the peak demand summer months (July through September), the total recycled water demands were approximately 75 percent of the available supply.

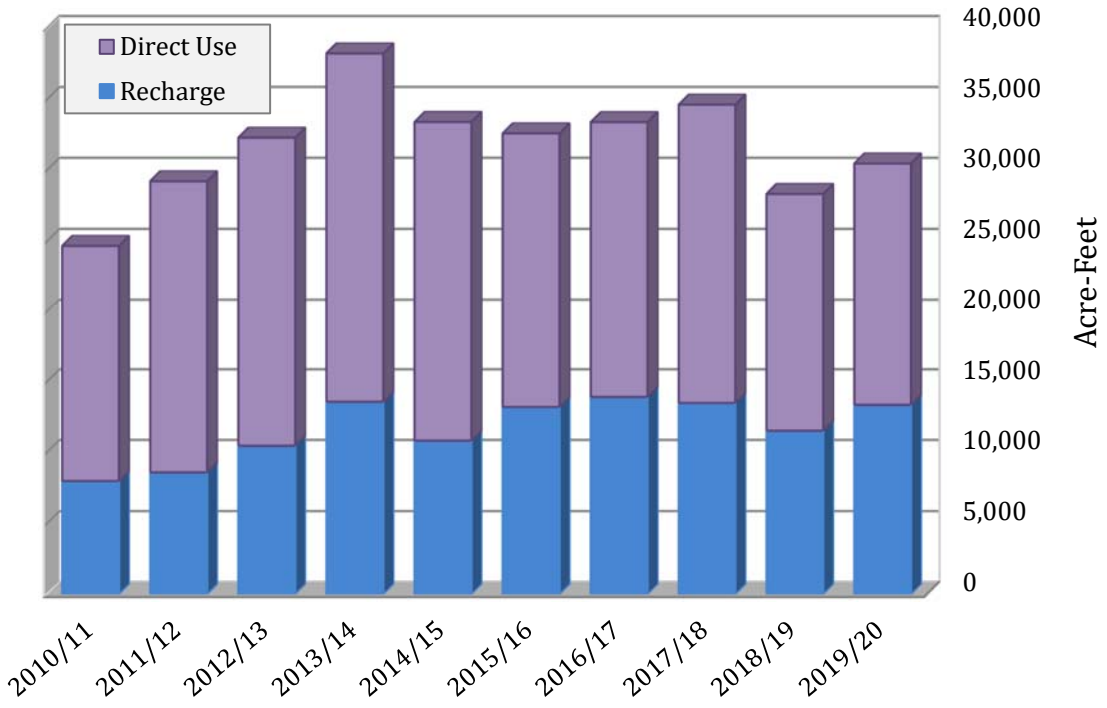

Figure 2 – Historical Recycled Water Direct Use and Groundwater Recharge

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 2019/20 recycled water demand by use type.

Table 1 – Recycled Water Demand by Use Type for 2019/20

Type of Use	Demand (AF)	Percent of Demand
Recharge	13,381	44%
Agriculture	5,757	19%
Landscape	9,716	32%
Industrial	1,004	3%
Construction	638	2%
Total Demand	**30,495**	**100%**

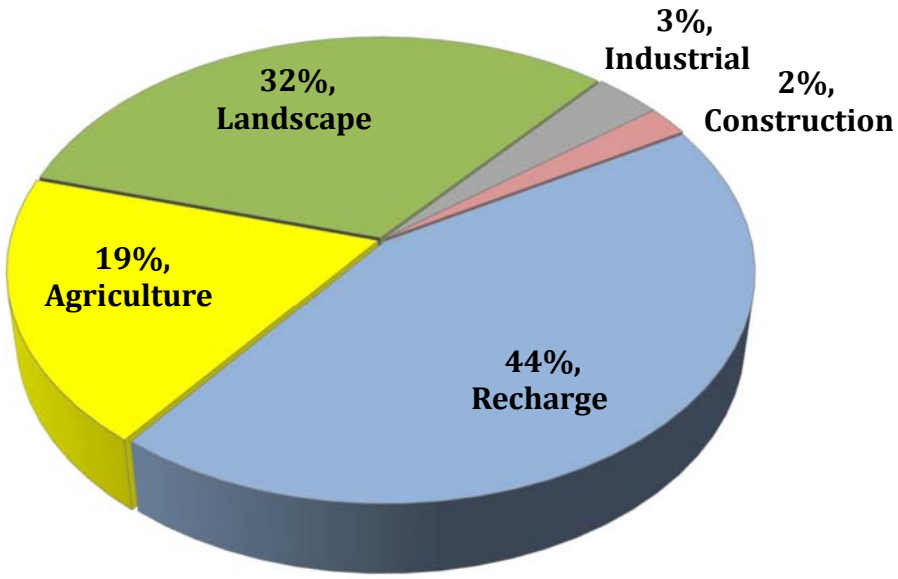

Figure 3 – Recycled Water Demand by Use Type for 2019/20

RETAIL DEMANDS

IEUA is the wholesale recycled water provider to its contracting agencies, which work as or with retail agencies to directly serve their customers. IEUA contracting/retail agencies which served recycled water in 2019/20 include:

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

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

Table 2 shows the 2019/20 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 the Chino Basin Regional Sewage Service Contract.

Table 2 – Recycled Water Demand by Agency for 2019/20

Retail Agency	Direct Use (AF)	Recharge (AF)	Agency Total (AF)
Chino	4,795	0	4,795
Chino Hills	1,417	1,188	2,605
CVWD	1,038	4,458	5,496
Fontana/FWC	211	2,693	2,904
Montclair/MVWD	298	781	1,079
Ontario	7,817	3,017	10,834
Upland	703	1,243	1,946
IEUA	773	0	773
San Bernardino County	65	0	65
Subtotal	**17,115**	**13,381**	**30,495**

CUSTOMERS DEMANDS

Table 3 lists the top ten largest direct reuse customer sites for the fiscal year (excluding groundwater recharge sites). During 2019/20, eighty-seven (87) new connections were made to the recycled water system with a total new demand estimated at 199 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 2019/20

Customer	Use (AF)	Type of Use	Retailer
Cleveland Farm	1,855	Agricultural	Chino/Ontario
Cal Poly Pomona	1,028	Agricultural	Chino
GH Dairy	931	Agricultural	Ontario
New Indy Ontario	870	Industrial	Ontario
Whispering Lakes Golf Course	631	Landscape	Ontario
IEUA Headquarters	630	Landscape	IEUA
Superior Sod	595	Agricultural	Chino
Weststeyn Dairy	473	Agricultural	Chino
City of Ontario	390	Landscape	Ontario
Upland Hills Country Club	389	Landscape	Upland
Subtotal	**7,792**		

ECONOMIC AND ENVIRONMENTAL IMPACTS

The 30,495 AF of recycled water used during the fiscal year is the equivalent of the water supply for roughly 40,945 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 2019/20 was $490/AF for direct usage and $550/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 combined efforts 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 sites (Banana, Hickory, Etiwanda Conservation Ponds, Declez, 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 5,396 AF in 2004/05 to a peak of 38,251 AF in 2013/14. Over the past several years, recycled water demand has fallen slightly, which has been primarily driven by land use conversion from agriculture to urban.

APPENDIX A

RECYCLED WATER

EFFLUENT MONITORING DATA

FOR CALENDAR YEAR 2019

RP-1 (M-001A* & M-001B) Effluent Monitoring Data — **Table No. 3a**

	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
Date	MGD			µmhos/cm			unit			mg/L			%	mg/L			%	mg/L			mg/L			mg/L			mg/L			mg/L		
Limit>>>							6.5 -8.5			20			15	20			15													4.5		
Jan-19	2.0	1.5	2.3	997	942	1068	6.9	6.6	7.1	<2	<2	<2	0.4	<2	<2	<2	0.4	6.0	5.2	6.7	578	558	594	4.8	4.5	5.5	5.6	5.2	6.3	<0.1	<0.1	<0.1
Feb-19	3.0	1.8	4.0	1002	929	1065	6.9	6.6	7.1	<2	<2	<2	0.7	<2	<2	<2	0.5	6.5	5.4	7.5	553	522	576	4.4	3.7	5.0	5.2	4.1	6.1	<0.1	<0.1	<0.1
Mar-19	2.6	1.3	3.5	1043	830	1171	7.0	6.6	7.3	2	<2	2	0.6	<2	<2	2	0.5	7.9	6.6	9.6	593	558	638	5.0	3.8	6.1	5.8	5.0	6.8	<0.1	<0.1	<0.1
Apr-19	2.8	1.6	3.1	1002	929	1065	7.1	6.9	7.2	2	<2	4	0.5	<2	<2	<2	0.5	8.4	7.3	14.4	527	502	564	4.4	3.3	6.5	5.5	4.6	6.2	<0.1	<0.1	<0.1
May-19	2.4	1.9	3.0	900	854	957	7.0	6.8	7.2	<2	<2	2	0.5	<2	<2	<2	0.5	7.5	6.9	8.2	510	502	520	3.6	1.9	4.8	5.0	3.8	5.8	<0.1	<0.1	<0.1
Jun-19	1.9	1.2	2.1	944	892	980	7.1	6.8	7.2	<2	<2	2	0.5	<2	<2	2	0.5	7.4	6.9	8.2	545	524	562	2.3	0.8	4.1	3.8	2.2	5.0	<0.1	<0.1	<0.1
Jul-19	1.6	1.0	2.5	888	804	956	7.2	6.7	7.4	<2	<2	2	0.5	<2	<2	<2	0.5	7.2	6.0	8.6	496	468	524	3.2	2.3	4.6	4.6	4.1	5.6	<0.1	<0.1	<0.1
Aug-19	1.4	1.0	1.8	834	796	1013	7.3	6.9	7.4	<2	<2	<2	0.5	<2	<2	<2	0.4	6.8	6.0	7.4	468	460	478	3.1	2.4	4.1	4.4	3.9	5.0	<0.1	<0.1	<0.1
Sep-19	1.8	0.1	2.6	858	811	981	7.2	6.8	7.5	<2	<2	2	0.5	<2	<2	<2	0.4	6.9	5.6	7.7	532	464	612	2.9	2.1	4.2	4.0	3.7	4.4	<0.1	<0.1	<0.1
Oct-19	2.7	2.5	3.0	825	789	871	7.1	6.7	7.5	<2	<2	2	0.5	<2	<2	<2	0.5	6.8	5.8	7.7	498	454	590	2.8	1.5	3.8	4.6	4.1	5.0	<0.1	<0.1	<0.1
Nov-19	2.1	0.0	2.5	877	845	927	7.0	6.7	7.3	<2	<2	2	0.5	<2	<2	<2	0.5	7.2	6.3	7.9	478	456	500	3.4	2.1	4.2	4.9	4.5	5.2	<0.1	<0.1	0.2
Dec-19	1.9	1.5	2.5	889	783	922	6.9	6.7	7.1	<2	<2	2	0.5	<2	<2	<2	0.5	7.0	5.9	8.1	474	456	490	4.4	3.6	5.4	6.0	5.3	6.7	<0.1	<0.1	<0.1
Avg	**2.2**	**1.3**	**2.8**	**921**	**850**	**998**	**7.1**	**6.7**	**7.3**	**<2**	**<2**	**2**	**0.5**	**<2**	**<2**	**<2**	**0.5**	**7.1**	**6.2**	**8.5**	**521**	**494**	**554**	**3.7**	**2.7**	**4.9**	**5.0**	**4.2**	**5.7**	**<0.1**	**<0.1**	**<0.1**
Min	**1.4**	**0.0**	**1.8**	**825**	**783**	**871**	**6.9**	**6.6**	**7.1**	**<2**	**<2**	**<2**	**0.4**	**<2**	**<2**	**<2**	**0.4**	**6.0**	**5.2**	**6.7**	**468**	**454**	**478**	**2.3**	**0.8**	**3.8**	**3.8**	**2.2**	**4.4**	**<0.1**	**<0.1**	**<0.1**
Max	**3.0**	**2.5**	**4.0**	**1043**	**942**	**1171**	**7.3**	**6.9**	**7.5**	**2**	**<2**	**4**	**0.7**	**<2**	**<2**	**2**	**0.5**	**8.4**	**7.3**	**14.4**	**593**	**558**	**638**	**5.0**	**4.5**	**6.5**	**6.0**	**5.3**	**6.8**	**<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**

	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
Date	MGD			µmhos/cm			unit			mg/L			%	mg/L			%	mg/L			mg/L			mg/L			mg/L			mg/L		
Limit>>>							6.5 -8.5			20			15	20			15													4.5		
Jan-19	25.5	13.2	41.3	740	676	805	6.8	6.6	7.1	<2	<2	2	0.5	<2	<2	5	0.6	6.1	5.0	7.8	481	428	508	6.1	6.1	6.1	6.9	6.9	6.9	<0.1	<0.1	<0.1
Feb-19	33.8	28.2	43.1	636	533	705	6.8	6.6	7.0	<2	<2	<2	0.6	<2	<2	<2	0.5	6.4	5.3	7.3	459	428	480	4.5	3.5	5.0	5.2	4.3	6.1	<0.1	<0.1	0.1
Mar-19	25.6	14.0	36.7	692	568	829	6.9	6.8	7.1	2	<2	2	0.6	<2	<2	2	0.5	7.8	6.7	9.4	465	424	480	5.0	3.5	6.1	6.6	6.5	6.7	<0.1	<0.1	<0.1
Apr-19	11.7	5.1	20.4	742	656	833	6.9	6.8	7.2	2	<2	3	0.5	<2	<2	<2	0.5	7.8	5.1	8.7	477	464	488	4.8	3.3	6.4	4.7	4.2	5.2	<0.1	<0.1	<0.1
May-19	14.2	4.4	28.4	773	707	834	7.0	6.8	7.4	<2	<2	2	0.5	<2	<2	<2	0.5	7.2	6.1	7.8	478	464	492	3.7	2.1	5.4	6.0	6.0	6.0	<0.1	<0.1	<0.1
Jun-19	9.2	3.8	12.0	866	747	936	7.0	6.6	7.2	<2	<2	2	0.6	<2	<2	<2	0.5	7.1	6.7	7.8	484	476	490	2.6	1.4	4.2	4.7	4.7	4.7	<0.1	<0.1	0.1
Jul-19	6.7	0.3	14.2	815	750	869	7.0	6.7	7.2	<2	<2	3	0.6	<2	<2	<2	0.5	6.9	6.0	8.5	458	434	480	3.4	2.5	4.3	5.3	5.3	5.3	<0.1	<0.1	<0.1
Aug-19	0.9	0.3	2.6	819	736	900	6.9	6.7	7.1	<2	<2	2	0.5	<2	<2	<2	0.5	6.7	5.7	9.1	472	456	498	3.2	2.4	4.2	5.4	5.4	5.4	<0.1	<0.1	<0.1
Sep-19	3.7	0.3	10.5	805	680	850	7.0	6.7	7.2	<2	<2	<2	0.5	<2	<2	<2	0.5	6.6	5.7	7.3	449	430	466	2.8	2.0	3.9	4.0	4.0	4.0	<0.1	<0.1	<0.1
Oct-19	2.3	0.3	8.9	720	626	803	6.9	6.6	7.2	<2	<2	<2	0.6	<2	<2	<2	0.5	6.6	5.6	7.4	452	448	458	3.1	1.6	4.5	4.7	4.7	4.7	<0.1	<0.1	<0.1
Nov-19	10.7	2.1	31.2	752	678	837	6.9	6.5	7.3	<2	<2	2	0.5	<2	<2	<2	0.5	6.8	6.0	7.9	471	456	484	3.3	2.2	4.9	3.8	3.8	3.8	<0.1	<0.1	0.2
Dec-19	22.7	9.7	33.7	705	576	793	6.8	6.6	7.1	<2	<2	2	0.5	<2	<2	<2	0.5	6.9	5.5	7.8	444	416	460	4.1	3.5	5.2	6.1	6.1	6.1	<0.1	<0.1	0.1
Avg	**13.9**	**6.8**	**23.6**	**755**	**661**	**833**	**6.9**	**6.7**	**7.2**	**<2**	**<2**	**2**	**0.5**	**<2**	**<2**	**<2**	**0.5**	**6.9**	**5.8**	**8.1**	**466**	**444**	**482**	**3.9**	**2.8**	**5.0**	**5.3**	**5.2**	**5.4**	**<0.1**	**<0.1**	**<0.1**
Min	**0.9**	**0.3**	**2.6**	**636**	**533**	**705**	**6.8**	**6.5**	**7.0**	**<2**	**<2**	**<2**	**0.5**	**<2**	**<2**	**<2**	**0.5**	**6.1**	**5.0**	**7.3**	**444**	**416**	**458**	**2.6**	**1.4**	**3.9**	**3.8**	**3.8**	**3.8**	**<0.1**	**<0.1**	**<0.1**
Max	**33.8**	**28.2**	**43.1**	**866**	**750**	**936**	**7.0**	**6.8**	**7.4**	**2**	**<2**	**3**	**0.6**	**<2**	**<2**	**5**	**0.6**	**7.8**	**6.7**	**9.4**	**484**	**476**	**508**	**6.1**	**6.1**	**6.4**	**6.9**	**6.9**	**6.9**	**<0.1**	**<0.1**	**0.2**

RP-5 (M-003) Effluent Monitoring Data — **Table No. 3c**

	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
Date	MGD			µmhos/cm			unit			mg/L			%	mg/L			%	mg/L			mg/L			mg/L			mg/L			mg/L		
Limit>>>							6.5 -8.5			20			15	20			15													4.5		
Jan-19	5.8	4.2	8.0	914	866	966	6.8	6.6	6.9	<2	<2	<2	0.6	<2	<2	<2	0.6	5.0	4.6	5.2	572	556	596	8.2	8.2	8.2	8.9	8.9	8.9	<0.1	<0.1	<0.1
Feb-19	6.0	4.3	9.3	926	832	986	6.9	6.8	7.1	<2	<2	<2	0.5	<2	<2	<2	0.6	5.3	4.7	6.1	574	532	592	7.4	6.3	9.0	7.4	7.4	7.4	<0.1	<0.1	0.1
Mar-19	5.6	3.5	8.4	1005	946	1103	7.0	6.8	7.1	<2	<2	<2	0.9	<2	<2	3	0.9	5.6	4.9	6.3	600	566	646	10.5	7.3	17.2	12.4	12.4	12.4	<0.1	<0.1	<0.1
Apr-19	4.7	3.2	7.1	953	914	987	7.0	6.7	7.1	<2	<2	<2	0.6	<2	<2	<2	0.7	5.4	4.9	6.3	551	544	556	7.0	5.2	10.4	5.9	5.9	5.9	<0.1	<0.1	0.1
May-19	7.3	5.2	9.4	951	925	983	7.0	6.8	7.1	<2	<2	3	0.7	<2	<2	2	0.9	5.4	4.8	6.0	547	526	560	5.4	3.7	9.7	6.6	6.6	6.6	<0.1	<0.1	<0.1
Jun-19	3.8	2.1	6.8	992	970	1013	7.0	6.9	7.2	<2	<2	<2	0.7	<2	<2	<2	0.8	5.4	4.8	5.6	542	536	548	3.7	3.0	5.4	4.5	4.5	4.5	<0.1	<0.1	0.1
Jul-19	4.1	1.3	8.1	1003	982	1020	7.0	6.8	7.2	<2	<2	<2	0.5	<2	<2	7	0.4	5.7	5.3	6.6	515	500	530	2.7	1.3	3.9	3.5	3.5	3.5	<0.1	<0.1	<0.1
Aug-19	7.3	5.8	8.5	1016	977	1068	7.0	6.8	7.2	<2	<2	<2	0.7	<2	<2	3	0.6	5.5	4.6	6.2	513	492	530	4.0	2.1	5.9	2.9	2.9	2.9	<0.1	<0.1	<0.1
Sep-19	7.4	5.0	8.6	1030	985	1073	7.0	6.9	7.2	<2	<2	<2	0.8	<2	<2	<2	0.8	5.5	5.1	7.3	530	512	540	4.9	4.0	5.7	5.5	5.5	5.5	<0.1	<0.1	<0.1
Oct-19	6.7	5.1	8.8	946	897	1004	7.0	6.9	7.2	<2	<2	<2	0.6	<2	<2	<2	0.7	5.3	4.2	5.7	547	496	632	5.7	4.6	7.2	6.0	6.0	6.0	<0.1	<0.1	<0.1
Nov-19	7.7	4.8	9.8	918	841	940	6.9	6.7	7.2	<2	<2	2	0.5	<2	<2	<2	0.6	6.0	4.9	7.6	514	506	528	5.6	4.8	6.0	6.1	6.1	6.1	<0.1	<0.1	<0.1
Dec-19	9.4	8.0	11.0	869	798	909	6.8	6.6	7.0	<2	<2	<2	0.6	<2	<2	2	0.6	6.1	5.5	6.8	514	504	526	6.1	4.6	7.4	7.6	7.6	7.6	<0.1	<0.1	<0.1
Avg	**6.3**	**4.4**	**8.7**	**960**	**911**	**1004**	**7.0**	**6.8**	**7.1**	**<2**	**<2**	**<2**	**0.6**	**<2**	**<2**	**<3**	**0.7**	**5.5**	**4.9**	**6.3**	**543**	**523**	**565**	**5.9**	**4.6**	**8.0**	**6.4**	**6.4**	**6.4**	**<0.1**	**<0.1**	**<0.1**
Min	**3.8**	**1.3**	**6.8**	**869**	**798**	**909**	**6.8**	**6.6**	**6.9**	**<2**	**<2**	**<2**	**0.5**	**<2**	**<2**	**<2**	**0.4**	**5.0**	**4.2**	**5.2**	**513**	**492**	**526**	**2.7**	**1.3**	**3.9**	**2.9**	**2.9**	**2.9**	**<0.1**	**<0.1**	**<0.1**
Max	**9.4**	**8.0**	**11.0**	**1030**	**985**	**1103**	**7.0**	**6.9**	**7.2**	**<2**	**<2**	**3**	**0.9**	**<2**	**<2**	**7**	**0.9**	**6.1**	**5.5**	**7.6**	**600**	**566**	**646**	**10.5**	**8.2**	**17.2**	**12.4**	**12.4**	**12.4**	**<0.1**	**<0.1**	**0.1**

*Lab EC data used

CCWRF (M-004) Effluent Monitoring Data — **Table No. 3d**

	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
Date	MGD			µmhos/cm			unit			mg/L			%	mg/L			%	mg/L			mg/L			mg/L			mg/L			mg/L		
Limit>>>							6.5 -8.5			20			15	20			15													4.5		
Jan-19	6.1	0.5	10.0	935	873	985	6.8	6.6	7.0	<2	<2	<2	0.5	<2	<2	<2	0.6	5.5	4.9	5.9	535	518	550	5.4	5.4	5.4	6.3	6.3	6.3	0.1	<0.1	0.2
Feb-19	7.4	5.5	11.4	942	835	986	6.9	6.7	7.1	<2	<2	2	0.4	<2	<2	2	0.6	6.5	5.3	7.7	523	478	546	5.1	4.3	5.6	6.6	6.3	6.8	<0.1	<0.1	0.1
Mar-19	5.5	0.7	8.0	959	908	1023	6.9	6.7	7.1	<2	<2	2	0.5	<2	<2	2	0.6	7.7	6.8	8.8	545	516	574	4.3	3.0	4.7	5.4	5.4	5.4	<0.1	<0.1	0.1
Apr-19	1.0	0.7	1.8	902	878	924	6.8	6.6	7.0	<2	<2	2	0.5	<2	<2	<2	0.6	6.8	6.3	7.6	511	506	514	4.3	3.0	5.1	4.9	4.9	4.9	<0.1	<0.1	<0.1
May-19	2.2	0.7	5.3	932	904	969	6.8	6.6	7.6	<2	<2	2	0.4	<2	<2	<2	0.5	7.0	6.2	7.7	535	508	548	4.0	2.7	4.8	4.7	4.7	4.7	<0.1	<0.1	<0.1
Jun-19	0.9	0.0	2.5	951	878	988	6.8	6.6	7.5	<2	<2	2	0.5	<2	<2	<2	0.5	7.1	6.4	7.7	542	532	550	4.9	3.5	5.8	6.5	6.5	6.5	<0.1	<0.1	<0.1
Jul-19	0.0	0.0	0.0	836	793	870	7.1	7.0	7.2	<2	<2	<2	0.6	<2	<2	<2	0.5	6.4	5.7	7.5				4.5	3.3	6.0	7.0	7.0	7.0			
Aug-19	0.0	0.0	0.0	815	794	854	7.1	7.0	7.2	<2	<2	2	0.5	<2	<2	<2	0.5	6.6	5.8	7.9				4.8	4.1	5.7	5.8	5.8	5.8			
Sep-19	0.0	0.0	0.0	825	798	861	7.0	6.6	7.2	<2	<2	<2	0.5	<2	<2	<2	0.6	6.9	6.4	7.5				5.1	4.3	5.8	6.0	6.0	6.0			
Oct-19	0.0	0.0	0.0	794	742	837	7.1	7.0	7.2	<2	<2	<2	0.4	<2	<2	<2	0.5	6.7	5.8	7.5				5.0	3.8	5.9	6.7	6.7	6.7			
Nov-19	1.5	0.0	8.3	878	800	924	6.8	6.5	7.1	<2	<2	<2	0.5	<2	<2	<2	0.5	6.6	5.7	7.1	519	502	530	5.6	4.7	6.7	7.7	7.7	7.7	0.2	<0.1	0.3
Dec-19	4.6	2.6	6.8	881	780	929	6.8	6.6	7.0	<2	<2	<2	0.4	<2	<2	<2	0.5	6.6	5.9	7.4	482	464	500	5.4	4.6	7.2	6.5	6.5	6.5	<0.1	<0.1	0.1
Avg	**2.4**	**0.9**	**4.5**	**888**	**832**	**929**	**6.9**	**6.7**	**7.2**	**<2**	**<2**	**2**	**0.5**	**<2**	**<2**	**<2**	**0.5**	**6.7**	**5.9**	**7.5**	**524**	**503**	**539**	**4.8**	**3.9**	**5.7**	**6.2**	**6.1**	**6.2**	**<0.1**	**<0.1**	**0.1**
Min	**0.0**	**0.0**	**0.0**	**794**	**742**	**837**	**6.8**	**6.5**	**7.0**	**<2**	**<2**	**<2**	**0.4**	**<2**	**<2**	**<2**	**0.5**	**5.5**	**4.9**	**5.9**	**482**	**464**	**500**	**4.0**	**2.7**	**4.7**	**4.7**	**4.7**	**4.7**	**<0.1**	**<0.1**	**<0.1**
Max	**7.4**	**5.5**	**11.4**	**959**	**908**	**1023**	**7.1**	**7.0**	**7.6**	**<2**	**<2**	**2**	**0.6**	**<2**	**<2**	**2**	**0.6**	**7.7**	**6.8**	**8.8**	**545**	**532**	**574**	**5.6**	**5.4**	**7.2**	**7.7**	**7.7**	**7.7**	**0.2**	**<0.1**	**0.3**

RP-1 (M-001A) Effluent Monthly Toxicity Data **Table No. 4a**

CHRONIC TOXICITY - SURVIVAL (*Ceriodaphnia Dubia*)						CHRONIC TOXICITY - REPRODUCTION (*Ceriodaphnia dubia*)			
START DATE		END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC_{25}
01/14/19*	thru	01/18/19	100	1.0	1.0	100	1.0	1.0	100
02/25/19*	thru	03/01/19	100	1.0	1.0	<100	>1.0	1.0	96.2
03/18/19*	thru	03/22/19	100	1.0	1.0	100	1.0	1.0	100
04/22/19*	thru	04/26/19	100	1.0	1.0	100	1.0	1.0	100
05/13/19*	thru	05/17/19	100	1.0	1.0	100	1.0	1.0	100
06/17/19*	thru	06/21/19	100	1.0	1.0	100	1.0	1.0	100
07/20/19*	thru	07/26/19	100	1.0	1.0	100	1.0	1.0	100
08/03/19	thru	08/09/19	100	1.0	1.0	60	1.7	1.3	87.0
08/17/19	thru	08/23/19	100	1.0	1.0	100	1.0	1.0	100
08/31/19	thru	09/06/19	100	1.0	1.0	100	1.0	1.0	100
10/05/19	thru	10/11/19	100	1.0	1.0	100	1.0	1.0	100
11/02/19	thru	11/08/19	100	1.0	1.0	60	1.7	1.3	100
11/16/19	thru	11/22/19	100	1.0	1.0	100	1.0	1.0	100
11/30/19	thru	12/06/19	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 (*Ceriodaphnia Dubia*)						CHRONIC TOXICITY - REPRODUCTION (*Ceriodaphnia dubia*)			
START DATE		END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC_{25}
01/14/19*	thru	01/18/19	100	1.0	1.0	100	1.0	1.0	100
02/25/19*	thru	03/01/19	100	1.0	1.0	100	1.0	1.0	100
03/18/19*	thru	03/22/19	100	1.0	1.0	100	1.0	1.0	100
04/22/19*	thru	04/26/19	100	1.0	1.0	100	1.0	1.0	100
05/13/19*	thru	05/17/19	100	1.0	1.0	100	1.0	1.0	100
06/17/19*	thru	06/21/19	100	1.0	1.0	90	1.1	1.1	96.3
06/26/19*	thru	07/01/19	100	1.0	1.0	100	1.0	1.0	100
07/13/19*	thru	07/19/19	100	1.0	1.0	100	1.0	1.0	100
08/10/19	thru	08/16/19	100	1.0	1.0	100	1.0	1.0	100
09/07/19	thru	09/13/19	100	1.0	1.0	100	1.0	1.0	100
10/12/19	thru	10/18/19	100	1.0	1.0	100	1.0	1.0	100
11/09/19	thru	11/14/19	100	1.0	1.0	100	1.0	1.0	100
12/14/19	thru	12/20/19	100	1.0	1.0	100	1.0	1.0	100
12/16/19*	thru	12/20/19	100	1.0	1.0	100	1.0	1.0	100

* MBC Laboratory

RP-5 (M-003) Effluent Monthly Toxicity Data **Table No. 4c**

			CHRONIC TOXICITY - SURVIVAL (*Ceriodaphnia Dubia*)			CHRONIC TOXICITY - REPRODUCTION (*Ceriodaphnia dubia*)			
START DATE		END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC_{25}
01/14/19*	thru	01/18/19	100	1.0	1.0	100	1.0	1.0	100
02/25/19*	thru	03/01/19	100	1.0	1.0	100	1.0	1.0	100
03/18/19*	thru	03/22/19	100	1.0	1.0	100	1.0	1.0	100
04/22/19*	thru	04/26/19	100	1.0	1.0	100	1.0	1.0	100
05/13/19*	thru	05/17/19	100	1.0	1.0	100	1.0	1.0	100
06/17/19*	thru	06/21/19	100	1.0	1.0	100	1.0	1.0	100
07/20/19*	thru	07/26/19	100	1.0	1.0	100	1.0	1.0	100
08/17/19	thru	08/23/19	100	1.0	1.0	100	1.0	1.0	100
08/31/19	thru	09/06/19	100	1.0	1.0	100	1.0	1.0	100
10/05/19	thru	10/11/19	100	1.0	1.0	100	1.0	1.0	100
11/02/19	thru	11/08/19	100	1.0	1.0	100	1.0	1.0	100
11/30/19	thru	12/06/19	100	1.0	1.0	100	1.0	1.0	100

CCWRF (M-004) Effluent Monthly Toxicity Data **Table No. 4d**

			CHRONIC TOXICITY - SURVIVAL (*Ceriodaphnia Dubia*)			CHRONIC TOXICITY - REPRODUCTION (*Ceriodaphnia dubia*)			
START DATE		END DATE	NOEC	TUc	2-Mo Median TUc	NOEC	TUc	2-Mo Median TUc	IC_{25}
01/14/19*	thru	01/18/19	100	1.0	1.0	100	1.0	1.0	100
01/21/19*	thru	01/25/19	100	1.0	1.0	100	1.0	1.0	100
02/25/19*	thru	03/01/19	100	1.0	1.0	100	1.0	1.0	100
03/18/19*	thru	03/22/19	100	1.0	1.0	100	1.0	1.0	100
04/22/19*	thru	04/26/19	100	1.0	1.0	100	1.0	1.0	100
05/13/19*	thru	05/17/19	100	1.0	1.0	100	1.0	1.0	100
06/17/19*	thru	06/21/19	100	1.0	1.0	100	1.0	1.0	100
					No Discharge During July 2019				
					No Discharge During August 2019				
					No Discharge During September 2019				
					No Discharge During October 2019				
11/23/19	thru	11/29/19	100	1.0	1.0	100	1.0	1.0	100
12/07/19	thru	12/12/19	100	1.0	1.0	100	1.0	1.0	100

* MBC Laboratory

RP-1 (M-001A & M-001B) & RP-1/RP-4 (M-002A) Effluent Monitoring and Coliform Data **Table No. 5a**

	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
Date	NTU		NTU		°C		°C		MPN / 100 mL								gpm/ft^2	min	mg-min/L	gpm/ft^3	min	mg-min/L
Jan-19	0.6	0.7	0.5	0.7	22.1	22.7	22.5	23.2	<2	29.2	<1	1.0	<2	29.2	<1	1.0	4	147	793	4	143	870
Feb-19	0.6	0.7	0.5	1.5	21.4	22.3	21.1	22.3	<1	2.0	<1	<1	<1	2.0	<1	<1	4	126	747	4	104	592
Mar-19	0.7	1.0	0.6	1.4	22.5	23.5	21.7	23.4	<1	2.0	<1	<1	<1	2.0	<1	<1	4	138	550	4	154	770
Apr-19	0.9	1.3	0.8	1.2	24.5	25.9	24.0	24.9	<1	10.9	<1	<1	<1	10.9	<1	<1	3	159	777	3	148	816
May-19	0.9	1.1	0.8	1.6	25.4	26.0	23.9	25.8	<1	2.0	<1	<1	<1	2.0	<1	<1	3	153	789	3	153	658
Jun-19	0.8	1.0	0.7	1.0	26.5	27.2	26.6	27.8	<1	6.3	<1	<1	<1	6.3	<1	<1	3	152	706	3	172	795
Jul-19	0.9	1.2	0.8	1.9	28.5	29.9	27.6	28.5	<1	14.5	<1	<1	<1	14.5	<1	<1	3	133	607	3	126	604
Aug-19	0.8	0.8	0.6	1.1	30.0	30.2	28.8	29.1	<1	2.0	<1	<1	<1	2.0	<1	<1	4	132	571	4	136	651
Sep-19	0.7	0.8	0.6	0.8	29.8	30.7	28.7	29.6	<10	261.3	<1	<1	<10	261.3	<1	<1	4	134	669	4	126	618
Oct-19	0.6	0.8	0.5	0.8	27.9	28.8	26.5	27.3	<1	5.2	<1	<1	<1	5.2	<1	<1	4	124	639	4	127	700
Nov-19	0.6	0.8	0.5	0.8	26.1	26.8	23.3	25.9	<1	5.0	<1	<1	<1	5.0	<1	<1	4	126	580	4	141	543
Dec-19	0.6	0.9	0.7	1.1	23.3	24.2	21.3	23.3	<1	4.1	<1	<1	<1	4.1	<1	<1	4	126	549	4	135	528
Avg	**0.7**	**0.9**	**0.6**	**1.2**	**25.7**	**26.5**	**24.7**	**25.9**	**<2**	**29**	**<1**	**<1**	**<2**	**29**	**<1**	**<1**	**4**	**138**	**670**	**4**	**139**	**679**
Min	**0.6**	**0.7**	**0.5**	**0.7**	**21.4**	**22.3**	**21.1**	**22.3**	**<1**	**2**	**<1**	**<1**	**<1**	**2**	**<1**	**<1**	**3**	**124**	**549**	**3**	**104**	**528**
Max	**0.9**	**1.3**	**0.8**	**1.9**	**30.0**	**30.7**	**28.8**	**29.6**	**<10**	**261**	**<1**	**1**	**<10**	**261**	**<1**	**1**	**4**	**159**	**793**	**4**	**172**	**870**

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**

	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
Date	NTU		NTU		°C		°C		MPN / 100 mL								gpm/ft^2	min	mg-min/L	gpm/ft^3	min	mg-min/L
Jan-19	0.6	0.7	0.5	0.6	21.4	21.9	21.5	22.5	<1	2.0	<1	<1	<1	3.1	<1	<1	4	127	455	3	127	518
Feb-19	0.6	0.8	0.7	0.8	21.4	21.6	21.1	21.8	<1	1.0	<1	<1	<1	2.0	<1	<1	4	106	499	3	112	519
Mar-19	0.6	0.9	0.7	1.0	22.9	23.7	22.1	22.9	<1	2.0	<1	<1	<1	1.0	<1	<1	4	147	526	3	128	482
Apr-19	0.7	0.9	0.6	0.7	24.1	25.1	23.0	23.5	<1	2.0	<1	<1	<1	1.0	<1	<1	3	144	591	2	137	572
May-19	1.0	1.4	0.6	0.9	23.9	25.1	23.1	25.6	<1	4.1	<1	1	<1	1.0	<1	<1	3	135	580	2	115	497
Jun-19	0.8	1.1	0.7	0.8	25.7	26.1	25.4	27.6	<1	1.0	<1	<1	<1	1.0	<1	<1	3	134	531	2	129	517
Jul-19	1.0	1.3	0.6	0.9	27.6	30.1			<5	104.3	<1	<1	<6	145.0	<1	<1	3	138	558	2	127	538
Aug-19	1.0	1.6	0.6	0.7	29.1	29.4			<1	<1.0	<1	<1	<1	<1.0	<1	<1	3	151	550	2	128	568
Sep-19	0.9	1.2	0.5	0.6	27.6	28.1			<1	1.0	<1	<1	<1	<1	<1	<1	3	145	587	2	122	508
Oct-19	0.9	1.2	0.6	0.7	24.7	26.5			<1	<1	<1	<1	<1	1.0	<1	<1	3	126	598	2	136	579
Nov-19	0.9	1.5	0.6	1.0	24.0	25.0	20.0	23.3	<1	1	<1	<1	<1	1.0	<1	<1	4	119	511	2	110	578
Dec-19	1.0	1.4	0.7	0.8	21.6	23.0	20.5	21.6	<1	1	<1	<1	<1	2.0	<1	<1	3	133	507	2	116	480
Avg	**0.8**	**1.2**	**0.6**	**0.8**	**24.5**	**25.5**	**22.1**	**23.6**	**<1**	**10**	**<1**	**<1**	**<1**	**13**	**<1**	**<1**	**3**	**134**	**540**	**2**	**124**	**530**
Min	**0.6**	**0.7**	**0.5**	**0.6**	**21.4**	**21.6**	**20.0**	**21.6**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**<1**	**3**	**106**	**455**	**2**	**110**	**480**
Max	**1.0**	**1.6**	**0.7**	**1.0**	**29.1**	**30.1**	**25.4**	**27.6**	**<5**	**104**	**<1**	**1**	**<6**	**145**	**<1**	**<1**	**4**	**151**	**598**	**3**	**137**	**579**

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

RP-1 (M-001A) & RP-1/RP-4 (M-002A) Effluent and Receiving Water (R-002U & R-002D) Data **Table No. 6a**

	M-001A Cl_2 Residual*		M-002A Cl2 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
Date	mg/L				mg/L		°C		unit		mg/L	mg/L	mg/L	mg/L	mg/L		°C		unit		mg/L	mg/L
Jan-19	0.0	0.0	0.0	0.0	10.0	8.5	13.5	16.9	9.1	9.7	254	0.3	126	9	9.2	7.8	19.5	19.9	7.4	8.1	152	7
Feb-19	0.0	0.0	0.0	0.0	10.4	9.0	10.7	12.4	8.8	9.7	154	0.8			9.8	9.1	17.3	19.0	7.7	8.0		
Mar-19	0.0	0.0	0.0	0.0	10.3	8.4	16.2	17.7	8.9	10.1	270	<0.2			11.5	10.2	20.2	21.3	8.1	8.6		
Apr-19	0.0	0.0	0.0	0.0	10.3	9.6	16.5	18.5	9.1	10.6	308	0.3	138	5	10.1	8.6	20.7	22.5	8.1	9.1	145	3
May-19	0.0	0.0	0.0	0.0	10.4	9.2	18.1	19.1	9.3	10.0	332	1.0			11.4	8.8	20.9	22.6	8.5	9.0		
Jun-19	0.0	0.0	0.0	0.0	10.2	9.8	19.0	20.1	9.2	9.9	544	<0.2			10.4	10.0	22.2	24.2	8.3	8.7		
Jul-19	0.0	0.0	0.0	0.0	10.3	10.0	24.8	29.1	9.6	10.3	382	1.8	193	18	12.7	10.6	27.0	29.7	8.8	9.9	161	8
Aug-19	0.0	0.0	0.0	0.0	9.7	9.1	23.2	24.3	9.7	10.0	382	1.2			11.4	7.5	23.5	24.6	9.0	9.6		
Sep-19	0.0	0.0	0.0	0.0	9.8	9.2	23.0	24.8	9.6	9.9	272	<0.2			10.7	8.6	25.3	26.6	9.1	9.3		
Oct-19	0.0	0.0	0.0	0.0	10.3	9.7	16.6	17.3	9.4	9.7	544	0.6	152	4	9.6	7.2	21.4	23.8	8.1	9.2	164	24
Nov-19	0.0	0.0	0.0	0.0	11.7	10.6	16.9	21.0	9.6	10.6	418	<0.2			10.5	8.4	21.4	24.9	8.7	9.4		
Dec-19	0.0	0.0	0.0	0.0	12.2	10.9	11.4	14.3	8.9	9.8	150	1.0			10.1	8.5	19.9	21.0	8.1	8.6		
Avg	**0.0**	**0.0**	**0.0**	**0.0**	**10.5**	**9.5**	**17.5**	**19.6**	**9.3**	**10.0**	**334**	**0.7**	**152**	**9**	**10.6**	**8.8**	**21.6**	**23.3**	**8.3**	**9.0**	**156**	**11**
Min	**0.0**	**0.0**	**0.0**	**0.0**	**9.7**	**8.4**	**10.7**	**12.4**	**8.8**	**9.7**	**150**	**<0.2**	**126**	**4**	**9.2**	**7.2**	**17.3**	**19.0**	**7.4**	**8.0**	**145**	**3**
Max	**0.0**	**0.0**	**0.0**	**0.0**	**12.2**	**10.9**	**24.8**	**29.1**	**9.7**	**10.6**	**544**	**1.8**	**193**	**18**	**12.7**	**10.6**	**27.0**	**29.7**	**9.1**	**9.9**	**164**	**24**

RP-5 (M-003) & CCWRF (M-004) Effluent and Receiving Water (R-003U, R-003D, & R-004U) Data **Table No. 6b**

	M-003 Cl_2 Residual*		M-004 Cl2 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	Avg	Min	Avg	Max	Min	Max	Avg	Avg	Avg	Avg
Date	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-19	0.0	0.0	0.0	0.0	12.7	8.9	22.0	22.7	7.0	9.7	554	3.6	176	7	8.2	7.7	17.2	18.3	7.0	7.9	288	6	14.7	9.5	16.9	22.8	8.6	10.4	748	<0.2	396	32
Feb-19	0.0	0.0	0.0	0.0	12.1	9.8	18.5	22.8	7.2	9.2	1140	3.9			8.6	8.6	16.8	17.8	7.6	8.3			13.7	11.6	15.9	22.5	7.6	10.5	1120	2.8		
Mar-19	0.0	0.0	0.0	0.0	9.6	7.5	20.6	22.6	7.0	11.0	406	3.7			8.0	7.3	19.4	19.9	7.6	7.7			15.0	13.1	15.3	21.0	8.4	9.6	336	2.1		
Apr-19	0.0	0.0	0.0	0.0	13.5	12.7	19.6	24.9	7.5	8.6	518	3.1	155	3	7.3	6.8	21.6	24.8	7.4	8.0	379	2	14.1	12.9	18.8	25.1	8.3	8.9	648	2.4	365	31
May-19	0.0	0.0	0.0	0.0	12.3	8.0	24.3	25.6	7.6	8.8	912	1.2			7.1	6.7	22.9	23.7	7.2	8.1			13.5	12.2	23.3	26.1	8.4	10.6	972	1.4		
Jun-19	0.0	0.0	0.0	0.0	16.3	15.0	27.2	28.4	7.8	8.6	556	4.0			7.0	6.0	23.9	24.7	7.5	7.8			13.4	9.9	28.1	30.6	8.5	10.2	650	<0.2		
Jul-19	0.0	0.0			12.4	9.3	30.2	31.6	8.5	9.3	486	3.5	308	10	7.3	6.8	26.7	29.7	7.2	7.9	578	11	13.6	12.5	29.5	31.8	8.8	9.5	512	3.7	319	8
Aug-19	0.0	0.0			13.3	9.7	25.6	28.6	8.1	9.3	716	5.0			7.3	7.1	27.9	28.1	7.2	7.7												
Sep-19	0.0	0.0			13.5	11.7	23.4	29.9	8.4	9.6					7.0	6.5	25.9	28.1	7.4	7.9												
Oct-19	0.0	0.0			14.1	11.2	25.2	31.0	8.3	10.3	624	<0.2	323	32	7.2	6.8	24.1	26.6	5.2	8.2	270	<5	14.1	11.2	25.2	31.0	8.3	10.3	646	<0.2	322	38
Nov-19	0.0	0.0	0.0	0.0	11.7	8.2	20.9	24.0	7.4	10.0	696	2.7			7.1	6.8	22.7	23.4	7.0	7.9			13.3	11.6	20.8	24.0	7.9	10.4	710	0.7		
Dec-19	0.0	0.0	0.0	0.0	14.6	11.8	18.4	22.3	7.8	8.6	334	3.1			7.4	7.1	19.3	21.1	7.0	7.8			16.4	14.0	14.3	17.4	8.4	10.1	646	2.7		
Avg	**0.0**	**0.0**	**0.0**	**0.0**	**13.0**	**10.3**	**23.0**	**26.2**	**7.7**	**9.4**	**631**	**3.1**	**241**	**13**	**7.5**	**7.0**	**22.4**	**23.9**	**7.1**	**7.9**	**379**	**6**	**14.2**	**11.8**	**20.8**	**25.2**	**8.3**	**10.1**	**699**	**1.6**	**351**	**27**
Min	**0.0**	**0.0**	**0.0**	**0.0**	**9.6**	**7.5**	**18.4**	**22.3**	**7.0**	**8.6**	**334**	**<0.2**	**155**	**3**	**7.0**	**6.0**	**16.8**	**17.8**	**5.2**	**7.7**	**270**	**2**	**13.3**	**9.5**	**14.3**	**17.4**	**7.6**	**8.9**	**336**	**<0.2**	**319**	**8**
Max	**0.0**	**0.0**	**0.0**	**0.0**	**16.3**	**15.0**	**30.2**	**31.6**	**8.5**	**11.0**	**1,140**	**5.0**	**323**	**32**	**8.6**	**8.6**	**27.9**	**29.7**	**7.6**	**8.3**	**578**	**11**	**16.4**	**14.0**	**29.5**	**31.8**	**8.8**	**10.6**	**1,120**	**3.7**	**396**	**38**

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

RP-1 (REC-001) & RP-4 (REC-002) Recycled Water Data **Table No. 7a**

	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
Date	mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L			mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-19	2.3	6.9	0.6	793	<2	29.2	<1	1.0	<2	<2	475	5.8	6.8	0.5	884	<1	<1.0	<1	<1	<2	<2	469
Feb-19	0.1	6.9	0.6	747	<1	2.0	<1	<1.0	<2	<2	432	3.4	7.1	0.4	769	<1	3.1	<1	<1	<2	<2	427
Mar-19	2.8	7.0	0.7	550	<1	2.0	<1	<1.0	2	<2	452	5.9	7.1	0.4	841	<1	2.0	<1	<1	<2	<2	426
Apr-19	11.0	7.1	0.9	777	<1	10.9	<1	<1.0	2	<2	461	8.3	7.0	0.4	792	<1	<1.0	<1	<1	<2	<2	409
May-19	8.5	7.0	0.9	789	<1	2.0	<1	<1.0	<2	<2	469	7.2	7.0	0.3	919	<1	<1.0	<1	<1	<2	<2	424
Jun-19	12.5	7.1	0.8	706	<1	6.3	<1	<1.0	<2	<2	483	8.8	7.0	0.4	917	<1	<1.0	<1	<1	<2	<2	432
Jul-19	16.0	7.2	0.9	607	<1	14.5	<1	<1.0	<2	<2	438	9.0	7.1	0.5	754	<1	2.0	<1	<1	<2	<2	390
Aug-19	21.8	7.3	0.8	571	<1	2.0	<1	<1.0	<2	<2	438	9.0	7.1	0.5	755	<2	21.1	<1	<1	<2	<2	403
Sep-19	20.3	7.2	0.7	669	<10	261.3	<1	<1.0	<2	<2	434	9.0	7.2	0.5	824	<1	<1.0	<1	<1	<2	<2	411
Oct-19	21.1	7.1	0.6	639	<1	5.2	<1	<1	<2	<2	425	8.9	7.0	0.4	906	<1	<1	<1	<1	<2	<2	399
Nov-19	16.4	7.0	0.6	580	<1	5.0	<1	<1	<2	<2	445	7.4	7.0	0.6	817	<3	45.7	<1	<1	<2	<2	399
Dec-19	4.1	6.9	0.6	549	<1	4.1	<1	<1	<2	<2	430	7.5	6.8	0.9	1061	<13	365.4	<1	<1	<2	<2	449
Avg	**11.4**	**7.1**	**0.7**	**664**	**<2**	**29**	**<1**	**<1**	**<2**	**<2**	**448**	**7.5**	**7.0**	**0.5**	**856**	**<2**	**37**	**<1**	**<1**	**<2**	**<2**	**419**
Min	**0.1**	**6.9**	**0.6**	**549**	**<1**	**2**	**<1**	**<1**	**<2**	**<2**	**425**	**3.4**	**6.8**	**0.3**	**754**	**<1**	**<1**	**<1**	**<1**	**<2**	**<2**	**390**
Max	**21.8**	**7.3**	**0.9**	**793**	**<10**	**261**	**<1**	**1**	**2**	**<2**	**483**	**9.0**	**7.2**	**0.9**	**1061**	**<13**	**365**	**<1**	**<1**	**<2**	**<2**	**469**

RP-5 (REC-003) & CCWRF (REC-004) Recycled Water Data **Table No. 7b**

	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
Date	mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L			mgd	unit	NTU	mg-min/L	MPN / 100 mL				mg/L		
Jan-19	2.7	6.8	0.6	455	<1	2.0	<1	<1	<2	<2	543	1.4	6.8	0.5	518	<1	3.1	<1	<1	<2	<2	513
Feb-19	1.0	6.9	0.6	499	<1	1.0	<1	<1	<2	<2	557	0.6	6.9	0.7	519	<1	2.0	<1	<1	<2	<2	515
Mar-19	1.5	7.0	0.6	526	<1	2.0	<1	<1	<2	<2	590	1.9	6.9	0.7	482	<1	1.0	<1	<1	<2	<2	517
Apr-19	2.5	7.0	0.7	591	<1	2.0	<1	<1	<2	<2	519	6.0	6.8	0.6	572	<1	1.0	<1	<1	<2	<2	489
May-19	1.3	7.0	1.0	580	<1	4.1	<1	1	<2	<2	512	4.8	6.8	0.6	497	<1	1.0	<1	<1	<2	<2	508
Jun-19	5.4	7.0	0.8	531	<1	1.0	<1	<1	<2	<2	524	6.6	6.8	0.7	517	<1	1.0	<1	<1	<2	<2	504
Jul-19	4.7	7.0	1.0	558	<5	104.3	<1	<1	<2	<2	492	6.8	7.1	0.6	538	<6	145.0	<1	<1	<2	<2	453
Aug-19	1.0	7.0	1.0	550	<1	<1.0	<1	<1	<2	<2	503	7.0	7.1	0.6	568	<1	<1.0	<1	<1	<2	<2	449
Sep-19	0.6	7.0	0.9	587	<1	1.0	<1	<1	<2	<2	509	7.2	7.0	0.5	508	<1	<1	<1	<1	<2	<2	452
Oct-19	0.0	7.0	0.9	598	<1	<1	<1	<1	<2	<2	488	6.7	7.1	0.6	579	<1	1.0	<1	<1	<2	<2	441
Nov-19	0.5	6.9	0.9	511	<1	1	<1	<1	<2	<2	501	5.6	6.8	0.6	578	<1	1.0	<1	<1	<2	<2	476
Dec-19	0.3	6.8	1.0	507	<1	1	<1	<1	<2	<2	496	3.3	6.8	0.7	480	<1	2.0	<1	<1	<2	<2	458
Avg	**1.8**	**7.0**	**0.8**	**537**	**<1**	**10**	**<1**	**<1**	**<2**	**<2**	**519**	**4.8**	**6.9**	**0.6**	**532**	**<1**	**13**	**<1**	**<1**	**<2**	**<2**	**481**
Min	**0.0**	**6.8**	**0.6**	**455**	**<1**	**<1**	**<1**	**<1**	**<2**	**<2**	**488**	**0.6**	**6.8**	**0.5**	**480**	**<1**	**<1**	**<1**	**<1**	**<2**	**<2**	**441**
Max	**5.4**	**7.0**	**1.0**	**598**	**<5**	**104**	**<1**	**1**	**<2**	**<2**	**590**	**7.2**	**7.1**	**0.7**	**579**	**<6**	**145**	**<1**	**<1**	**<2**	**<2**	**517**

RP-1 (M-001B) Effluent Monthly Inorganic & Organic Data — **Table No. 8a**

	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																					
Jan-19	150			45				10			<0.5		<2	<0.5				36			
Feb-19	148	153	0.2	44	0	111	0.2	9	91	43	<0.25	<0.5	5	<0.5		<2	<0.25	40			
Mar-19	151	156	0.2	45	0	99	0.4	9	99	45	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	39			
Apr-19	143	162	0.3	43	0	98	0.2	9	95	49	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	44			
May-19	144	148	0.3	43	0	112	0.3	9	87	47	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	41	2	15	
Jun-19	149	123	0.3	43	0	123	0.2	10	99	48	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	41			
Jul-19	146	155	0.2	44	0	109	0.2	9	94	47	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	42	2	19	
Aug-19	150	178	0.2	47	0	94	0.2	8	96	40	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	39			
Sep-19	138	166	0.2	42	0	100	0.2	8	91	44	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	32			
Oct-19	137	162	0.2	41	0	96	0.2	8	93	41	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	36	2	18	
Nov-19	152	164	0.3	46	0	112	0.2	9	100	45	<0.25	<0.5	4	<0.5	<0.025	<2	<0.25	32			0.000
Dec-19	142	135	0.3	43	0	103	0.2	10	92	46	<0.25	<0.5	4	<0.5	<0.025	<2	<0.25	48			
Avg	**146**	**155**	**0.2**	**44**	**0**	**105**	**0.2**	**9**	**94**	**45**	**<0.27**	**<0.5**	**4**	**<0.5**	**<0.05**	**<2**	**<0.25**	**39**	**2**	**17**	**0.000**
Min	**137**	**123**	**0.2**	**41**	**0**	**94**	**0.2**	**8**	**87**	**40**	**<0.25**	**<0.5**	**<2**	**<0.5**	**<0.03**	**<2**	**<0.25**	**32**	**2**	**15**	**0.000**
Max	**152**	**178**	**0.3**	**47**	**0**	**123**	**0.4**	**10**	**100**	**49**	**<0.50**	**<0.5**	**6**	**<0.5**	**<0.05**	**<2**	**<0.25**	**48**	**2**	**19**	**0.000**

RP-1/RP-4 (M-002A) Effluent Monthly Inorganic & Organic Data — **Table No. 8b**

	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											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-19	140			40		115		10			<0.5		<2	<0.5				44			
Feb-19	147	143	0.2	44	0	110	0.2	9	96	60	<0.25	<0.5	6	<0.5		<2	<0.25	42			
Mar-19	150	149	0.2	45	0	103	0.3	9	94	61	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	40	2	14	
Apr-19	149	156	0.2	45	0	100	0.2	9	102	63	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	45			
May-19	150	140	0.3	45	0	114	0.2	9	94	60	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	44	2	15	
Jun-19	145	119	0.3	42	0	119	0.2	10	100	61	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	41			
Jul-19	144	150	0.2	43	0	107	0.2	9	97	62	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	43	2	14	
Aug-19	151	163	0.2	48	0	94	0.2	8	104	64	<0.25	<0.5	4	<0.5	<0.05	<2	<0.25	40			
Sep-19	134	150	0.2	40	0	101	0.2	8	97	68	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	33			
Oct-19	137	153	0.2	41	0	95	0.2	8	98	54	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	35	2	16	
Nov-19	149	160	0.2	45	0	112	0.3	9	107	72	<0.25	<0.5	4	<0.5	<0.025	<2	<0.25	31			0.000
Dec-19	139	135	0.3	43	0	105	0.2	10	95	58	<0.25	<0.5	4	<0.5	<0.025	<2	<0.25	45			
Avg	**145**	**147**	**0.2**	**43**	**0**	**106**	**0.2**	**9**	**99**	**62**	**<0.27**	**<0.5**	**5**	**<0.5**	**<0.05**	**<2**	**<0.25**	**40**	**2**	**15**	**0.000**
Min	**134**	**119**	**0.2**	**40**	**0**	**94**	**0.2**	**8**	**94**	**54**	**<0.25**	**<0.5**	**<2**	**<0.5**	**<0.03**	**<2**	**<0.25**	**31**	**2**	**14**	**0.000**
Max	**151**	**163**	**0.3**	**48**	**0**	**119**	**0.3**	**10**	**107**	**72**	**<0.50**	**<0.5**	**6**	**<0.5**	**<0.05**	**<2**	**<0.25**	**45**	**2**	**16**	**0.000**

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

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-19	210			59				15			<0.5		4	<0.5				52	3	13	0.000
Feb-19	244	144	0.2	69	0	167	0.1	17	103	74	<0.25	<0.5	7	<0.5		<2	<0.25	40	3	13	0.000
Mar-19	240	155	0.2	67	0	163	0.1	17	104	72	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	47			0.000
Apr-19	210	139	0.2	61	0	148	0.2	14	103	67	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	53	4	24	0.000
May-19	189	118	0.2	54	0	151	0.1	13	92	55	<0.25	<0.5	8	<0.5	<0.05	<2	<0.25	56	3	15	0.000
Jun-19	192	143	0.3	55	0	161	0.1	14	98	59	<0.25	<0.5	8	0.6	<0.05	<2	<0.25	46	3	15	0.000
Jul-19	194	137	0.2	59	0	166	0.1	11	107	63	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	33	3	17	0.000
Aug-19	181	138	0.3	54	0	148	0.1	11	104	50	<0.25	<0.5	5	<0.5	<0.05	<2	<0.25	41	2	16	0.000
Sep-19	176	130	0.2	51	0	155	0.1	12	100	54	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	50	3	17	0.000
Oct-19	187	127	0.2	54	0	155	0.1	13	106	54	<0.25	<0.5	6	<0.5	<0.05	<2	<0.25	56	8	23	0.000
Nov-19	183	129	0.3	52	0	153	0.2	13	101	56	<0.25	<0.5	7	<0.5	<0.025	<2	<0.25	53	3	14	NA*
Dec-19	183	116	0.3	53	0	157	0.1	14	104	58	<0.25	<0.5	7	<0.5	<0.025	<2	<0.25	47	3	16	0.000
Avg	**199**	**134**	**0.3**	**57**	**0**	**157**	**0.1**	**14**	**102**	**60**	**<0.27**	**<0.5**	**7**	**<0.5**	**<0.05**	**<2**	**<0.25**	**48**	**3**	**17**	**0.000**
Min	**176**	**116**	**0.2**	**51**	**0**	**148**	**0.1**	**11**	**92**	**50**	**<0.25**	**<0.5**	**4**	**<0.5**	**<0.03**	**<2**	**<0.25**	**33**	**2**	**13**	**0.000**
Max	**244**	**155**	**0.3**	**69**	**0**	**167**	**0.2**	**17**	**107**	**74**	**<0.50**	**<0.5**	**8**	**0.6**	**<0.05**	**<2**	**<0.25**	**56**	**8**	**24**	**0.000**

NA* - Not reported due to the effluent being higher than the influent. Highly suspect that the samples may have been switched. Since the original samples were disposed of, the sub lab is not able to confirm.

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-19	160			45				12			<0.5		4	<0.5				58	5	20	0.000
Feb-19	170	125	0.2	48	0	153	0.1	12	112	73	<0.25	<0.5	7	<0.5		<2	<0.25	59	4	18	
Mar-19	192	125	0.2	53	0	158	0.1	14	112	80	<0.25	<0.5	9	<0.5	<0.05	<2	<0.25	58			
Apr-19	159	120	0.2	46	0	128	0.2	11	108	81	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	54	5	26	0.000
May-19	151	134	0.3	44	0	139	0.1	10	112	86	<0.25	<0.5	8	<0.5	<0.05	<2	<0.25	50	3	20	
Jun-19	157	112	0.3	44	0	148	0.1	11	110	91	<0.25	<0.5	9	<0.5	<0.05	<2	<0.25	53	3	17	
Jul-19	149	111	0.2	43	0	134	0.1	10	101	54	<0.25	<0.5	8	<0.5	<0.05	<2	<0.25	47	4	23	0.000
Aug-19	137	109	0.3	39	0	125	<0.1	9	97	47	<0.25	<0.5	8	<0.5	<0.05	<2	<0.25	51	3	22	
Sep-19	141	119	0.2	36	0	125	<0.1	10	94	53	<0.25	<0.5	8	<0.5	<0.05	<2	<0.25	49	4	22	
Oct-19	144	114	0.2	41	0	120	0.1	10	97	47	<0.25	<0.5	7	<0.5	<0.05	<2	<0.25	63			
Nov-19	140	102	0.3	39	0	132	0.1	10	123	110	<0.25	<0.5	8	<0.5	<0.025	<2	<0.25	60	4	20	0.000
Dec-19	144	109	0.3	44	0	136	0.2	11	108	74	<0.25	<0.5	6	<0.5	<0.025	<2	<0.25	50	3	15	
Avg	**154**	**116**	**0.2**	**44**	**0**	**136**	**0.1**	**11**	**107**	**72**	**<0.27**	**<0.5**	**7**	**<0.5**	**<0.05**	**<2**	**<0.25**	**54**	**4**	**20**	**0.000**
Min	**137**	**102**	**0.2**	**36**	**0**	**120**	**0.1**	**9**	**94**	**47**	**<0.25**	**<0.5**	**4**	**<0.5**	**<0.03**	**<2**	**<0.25**	**47**	**3**	**15**	**0.000**
Max	**192**	**134**	**0.3**	**53**	**0**	**158**	**0.2**	**14**	**123**	**110**	**<0.50**	**<0.5**	**9**	**<0.5**	**<0.05**	**<2**	**<0.25**	**63**	**5**	**26**	**0.000**

RP-1 (M-001B) Effluent Quarterly Data — **Table No. 9a**

	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-19	NR	NR	NR	NR	NR	NR
Feb-19	65	<1	<2	14	<1	3
Mar-19	91	<1	<2	15	<1	3
Apr-19	84	<1	<2	20	<1	3
May-19	73	<1	<2	19	<1	3
Jun-19	68	<1	<2	20	<1	3
Jul-19	57	<1	<2	14	<1	3
Aug-19	110	<1	<2	20	<1	14
Sep-19	109	<1	<2	20	<1	3
Oct-19	105	<1	<2	16	<1	14
Nov-19	70	<1	2	23	<1	3
Dec-19	80	<1	<2	11	<1	3
Avg	**83**	**<1**	**<2**	**17**	**<1**	**5**
Min	**57**	**<1**	**<2**	**11**	**<1**	**3**
Max	**110**	**<1**	**2**	**23**	**<1**	**14**

RP-1/RP-4 (M-002A) Effluent Quarterly Data — **Table No. 9b**

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NR	NR	NR	NR	NR	NR	NR
100	<1	<2	14	<1	3	
98	<1	<2	15	<1	3	
87	<1	<2	20	<1	3	
72	<1	<2	19	<1	3	
72	<1	<2	20	<1	3	
59	<1	<2	14	<1	3	
108	<1	<2	21	<1	13	
104	<1	<2	20	<1	3	
108	<1	2	17	<1	14	
72	<1	2	24	<1	3	
92	<1	<2	11	<1	3	
88	**<1**	**<2**	**18**	**<1**	**5**	
59	**<1**	**<2**	**11**	**<1**	**3**	
108	**<1**	**2**	**24**	**<1**	**14**	

RP-5 (M-003) Effluent Quarterly Data — **Table No. 9c**

	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-19	NR	NR	NR	NR	NR	NR
Feb-19	<25	<1	<2	33	<1	4
Mar-19	<25	<1	<2	38	<1	4
Apr-19	<25	<1	<2	37	<1	3
May-19	<25	<1	<2	34	<1	4
Jun-19	<25	<1	2	30	<1	4
Jul-19	<25	<1	<2	35	<1	4
Aug-19	<25	<1	<2	24	<1	3
Sep-19	<25	<1	2	47	<1	3
Oct-19	<25	<1	3	34	<1	4
Nov-19	<25	<1	3	31	<1	3
Dec-19	<25	<1	<2	31	<1	4
Avg	**<25**	**<1**	**<2**	**34**	**<1**	**4**
Min	**<25**	**<1**	**<2**	**24**	**<1**	**3**
Max	**<25**	**<1**	**3**	**47**	**<1**	**4**

CCWRF (M-004) Effluent Quarterly Data — **Table No. 9d**

	Al, TR	Sb, TR	As, TR	Ba, TR	Co, TR	Ni, TR
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
NR	NR	NR	NR	NR	NR	NR
131	<1	<2	11	<1	3	
108	<1	<2	10	<1	4	
127	<1	<2	10	<1	3	
112	<1	<2	11	<1	4	
104	<1	2	11	<1	4	
64	<1	<2	8	<1	3	
107	<1	<2	9	<1	3	
43	<1	2	7	<1	4	
81	<1	2	7	<1	4	
87	<1	2	8	<1	3	
83	<1	2	10	<1	3	
95	**<1**	**<2**	**9**	**<1**	**3**	
43	**<1**	**<2**	**7**	**<1**	**3**	
131	**<1**	**2**	**11**	**<1**	**4**	

Table No. 10

	Flow				TIN								Agency-wide TIN				
	DP 001	DP 002	DP 003	DP 004	M-001B		M-002A		RP5		CC		Discharge		Limit		**12-MRA**
Mo-Yr													flow wt.	total	flow wt.	total	flow-wt.
	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-19	2.0	25.5	5.8	6.1	4.8	80	6.1	1,290	8.2	390	5.4	270	6.2	2,030	8	5,338	5.0
Feb-19	3.0	33.8	6.0	7.4	4.4	110	4.5	1,270	7.4	370	5.1	320	4.9	2,070	8	5,338	5.0
Mar-19	2.6	25.6	5.6	5.5	5.0	110	5.0	1,070	10.5	490	4.3	200	5.7	1,870	8	5,338	5.1
Apr-19	2.8	11.7	4.7	1.0	4.4	100	4.8	460	7.0	270	4.3	40	5.2	870	8	5,338	5.1
May-19	2.4	14.2	7.3	2.2	3.6	70	3.7	440	5.4	330	4.0	70	4.2	910	8	5,338	5.0
Jun-19	1.9	9.2	3.8	0.9	2.3	40	2.6	200	3.7	120	4.9	40	3.0	400	8	5,338	4.9
Jul-19	1.6	6.7	4.1	0.0	3.2	40	3.4	190	2.7	90	NA	0	3.2	320	8	5,338	4.8
Aug-19	1.4	0.9	7.3	0.0	3.1	40	3.2	20	4.0	240	NA	0	3.8	300	8	5,338	4.4
Sep-19	1.8	3.7	7.4	0.0	2.9	40	2.8	90	4.9	300	NA	0	4.0	430	8	5,338	4.7
Oct-19	2.7	2.3	6.7	0.0	2.8	60	3.1	60	5.7	320	NA	0	4.5	440	8	5,338	4.6
Nov-19	2.1	10.7	7.7	1.5	3.4	60	3.3	300	5.6	360	5.6	70	3.9	790	8	5,338	4.6
Dec-19	1.9	22.7	9.4	4.6	4.4	70	4.1	780	6.1	480	5.4	200	4.1	1,530	8	5,338	4.4
12-Mo Avg	2.2	13.9	6.3	2.4	3.7	70	3.9	510	5.9	310	4.9	100	4.4	1,000	8	5,338	**4.8**
Min	1.4	0.9	3.8	0.0	2.3	40	2.6	20	2.7	90	4.0	0	3.0	300	8	5,338	**4.4**
Max	3.0	33.8	9.4	7.4	5.0	110	6.1	1,290	10.5	490	5.6	320	6.2	2,070	8	5,338	**5.1**

NA: Not Analyzed, due to no discharge

Agency-wide TDS 12-Month Running Averages **Table No. 11**

	Flows								Total Dissolved Solids (TDS)								Agency-wide TDS				
	001 [1]	RP-1 RW	002	RP-4 RW	RP-5	RP-5 RW	CC	CC RW	001	RP-1 RW [2]	002	RP-4 RW	RP-5	RP-5 RW [2]	CC	CC RW [2]	Discharge		Limit		12-MRA
Mo-Yr	MGD								mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	flow wt. mg/L	total lbs/day	flow wt. mg/L	total lbs/day	flow wt. mg/L
Jan-19	2.0	2.3	25.5	5.8	5.8	2.7	6.1	1.4	578	475	481	469	572	543	535	513	503	216,860	550	366,960	490
Feb-19	3.0	0.1	33.8	3.4	6.0	1.0	7.4	0.6	553	432	459	427	574	557	523	515	485	223,550	550	366,960	490
Mar-19	2.6	2.8	25.6	5.9	5.6	1.5	5.5	1.9	593	452	465	426	600	590	545	517	495	211,930	550	366,960	489
Apr-19	2.8	11.0	11.7	8.3	4.7	2.5	1.0	6.0	527	461	477	409	551	519	511	489	476	190,620	550	366,960	489
May-19	2.4	8.5	14.2	7.2	7.3	1.3	2.2	4.8	510	469	478	424	547	512	535	508	487	195,100	550	366,960	488
Jun-19	1.9	12.5	9.2	8.8	3.8	5.4	0.9	6.6	545	483	484	432	542	524	542	504	489	199,960	550	366,960	488
Jul-19	1.6	16.0	6.7	9.0	4.1	4.7	0.0	6.8	496	438	458	390	515	492	NA	453	447	181,920	550	366,960	485
Aug-19	1.4	21.8	0.9	9.0	7.3	1.0	0.0	7.0	468	438	472	403	513	503	NA	449	447	180,140	550	366,960	482
Sep-19	1.8	20.3	3.7	9.0	7.4	0.6	0.0	7.2	532	434	449	411	530	509	NA	452	452	188,380	550	366,960	481
Oct-19	2.7	21.1	2.3	8.9	6.7	0.0	0.0	6.7	498	425	452	399	547	488	NA	441	445	179,360	550	366,960	477
Nov-19	2.1	16.4	10.7	7.4	7.7	0.5	1.5	5.6	478	445	471	427	514	501	519	476	465	201,020	550	366,960	473
Dec-19	1.9	4.1	22.7	7.5	9.4	0.3	4.6	3.3	474	430	444	449	514	496	482	458	461	206,940	550	366,960	471
Avg	**2.2**	**11.4**	**13.9**	**7.5**	**6.3**	**1.8**	**2.4**	**4.8**	**521**	**448**	**466**	**422**	**543**	**519**	**524**	**481**	**471**	**197,980**	**550**	**366,960**	**484**
Min	**1.4**	**0.1**	**0.9**	**3.4**	**3.8**	**0.0**	**0.0**	**0.6**	**468**	**425**	**444**	**390**	**513**	**488**	**482**	**441**	**445**	**179,360**	**550**	**366,960**	**471**
Max	**3.0**	**21.8**	**33.8**	**9.0**	**9.4**	**5.4**	**7.4**	**7.2**	**593**	**483**	**484**	**469**	**600**	**590**	**545**	**517**	**503**	**223,550**	**550**	**366,960**	**490**

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 2019

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 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	0.03			<0.01			**0.03**
Copper (Cu)			0.04			0.09	0.54			0.03			**0.54**
Lead (Pb)			<0.02			<0.02	<0.02			<0.02			**<0.02**
Mercury (Hg)			<0.0005			<0.0005	0.0010				0.0006		**0.001**
Nickel (Ni)			<0.01			<0.01	0.02			<0.01			**0.02**
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			0.13			0.19	1.44			0.13			**1.44**
CN, Aquatic Free		<2		3					<2	<2			**3**

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

1,1,1-Trichloroethane										<5			**<5**
1,1,2,2-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**
Bromoform										<5			**<5**
Bromomethane										<5			**<5**
Carbon tetrachloride										<2.5			**<2.5**
Chlorobenzene										<5			**<5**
Chloroethane										<5			**<5**
Chloroform										29			**29**
Chloromethane										<5			**<5**
cis-1,3-Dichloropropene										<2.5			**<2.5**
Dibromochloromethane										<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*										0.000			**0.000**

*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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)			0.03			0.08	0.23			0.04			**0.23**
Lead (Pb)			<0.02			<0.02	<0.02			<0.02			**<0.02**
Mercury (Hg)			<0.0005			<0.0005	0.0006				<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			0.09			0.17	0.65			0.14			**0.65**
CN, Aquatic Free		<2		<2					8	<2			**8**

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

1,1,1-Trichloroethane										<5			**<5**
1,1,2,2-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**
Bromoform										<5			**<5**
Bromomethane										<5			**<5**
Carbon tetrachloride										<2.5			**<2.5**
Chlorobenzene										<5			**<5**
Chloroethane										<5			**<5**
Chloroform										34			**34**
Chloromethane										<5			**<5**
cis-1,3-Dichloropropene										<2.5			**<2.5**
Dibromochloromethane										<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*	0.028	0.000	0.000	0.031	0.000	0.040	0.000	0.000	0.000	0.000	0.000	0.082	**0.082**

*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	<1
Arsenic (As)		<2	<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	**<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	<0.5	<0.5	<0.5	**<0.5**
Copper (Cu)		5.1	5.8	5.1	4.4	6.1	4.9	3.9	4.4	4.2	3.7	4.4	**6.1**
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)		2.9	3.0	2.9	3.3	3.2	3.4	13.5	3.1	14.2	3.1	2.8	**14.2**
Selenium (Se)		<2	<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	**<0.25**
Thallium (Tl)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<1**
Zinc (Zn)	36	40	39	44	41	41	42	39	32	36	32	48	**48**
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**
1,1,2,2-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			**<1**
Benzene										<1			**<1**
Bromodichloromethane			<1		15		19			18			**19**
Bromoform			<1		<1		<1			<1			**<1**
Bromomethane										<1			**<1**
Carbon tetrachloride										<0.5			**<0.5**
Chlorobenzene										<1			**<1**
Chloroethane										<1			**<1**
Chloroform			<1		65		96			75			**96**
Chloromethane										<1			**<1**
cis-1,3-Dichloropropene										<0.5			**<0.5**
Dibromochloromethane			<1		2		2			2			**2**
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									<0.25	0.58			**0.58**

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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**
1,2-Dichlorobenzene									<1			<1	**<1**
1,3-Dichlorobenzene									<1			<1	**<1**
1,4-Dichlorobenzene									<1			<1	**<1**
2,4,6-Trichlorophenol									<1			<1	**<1**
2,4-Dichlorophenol									<2			<2	**<2**
2,4-Dimethylphenol									<1			<1	**<1**
2,4-Dinitrophenol									<3			<3	**<3**
2,4-Dinitrotoluene									<1			<1	**<1**
2,6-Dinitrotoluene									<2			<2	**<2**
2-Chloronaphthalene									<1			<1	**<1**
2-Chlorophenol									<1			<1	**<1**
2-Methyl-4,6-dinitrophenol									<2			<2	**<2**
2-Nitrophenol									<1			<1	**<1**
3,3-Dichlorobenzidine									<5			<5	**<5**
4-Bromophenyl phenyl ether									<1			<1	**<1**
4-Chloro-3-methylphenol									<1			<1	**<1**
4-Chlorophenyl phenyl ether									<1			<1	**<1**
4-Nitrophenol									<3			<3	**<3**
Acenaphthene									<1			<1	**<1**
Acenaphthylene									<1			<1	**<1**
Anthracene									<1			<1	**<1**
Azobenzene									<1			<1	**<1**
Benzidine									<5			<5	**<5**
Benzo(a)anthracene									<5			<5	**<5**
Benzo(a)pyrene									<1			<1	**<1**
Benzo(b)fluoranthene									<1			<1	**<1**
Benzo(g,h,i)perylene									<2			<2	**<2**
Benzo(k)fluoranthene									<1			<1	**<1**
Bis(2-chloroethoxy)methane									<2			<2	**<2**
Bis(2-chloroethyl)ether									<1			<1	**<1**
Bis(2-chloroisopropyl)ether									<1			<1	**<1**
Bis(2-ethylhexyl)phthalate			<2		<2		<2		9	<2		<2	**9**
Butyl benzyl phthalate									<1			2	**2**
Chrysene									<1			<1	**<1**
Dibenzo(a,h)anthracene									<1			<1	**<1**
Diethyl phthalate									<2			<2	**<2**
Dimethyl phthalate									<1			<1	**<1**
Di-n-butyl phthalate									<1			<1	**<1**
Di-n-octyl phthalate									<1			<1	**<1**
Fluoranthene									<1			<1	**<1**
Fluorene									<1			<1	**<1**
Hexachlorobenzene									<1			<1	**<1**
Hexachlorobutadiene									<1			<1	**<1**
Hexachlorocyclopentadiene									<5			<5	**<5**
Hexachloroethane									<1			<1	**<1**
Indeno(1,2,3-cd)pyrene									<2			<2	**<2**
Isophorone									<1			<1	**<1**
Naphthalene									<1			<1	**<1**
Nitrobenzene									<1			<1	**<1**
N-Nitrosodimethylamine									<1			<1	**<1**
N-Nitroso-di-n-propylamine									<1			<1	**<1**
N-Nitrosodiphenylamine									<1			<1	**<1**
Pentachlorophenol									<2			<2	**<2**
Phenanthrene									<1			<1	**<1**
Phenol									<1			<1	**<1**
Pyrene									<1			<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													
4,4-DDE													
4,4-DDT													
Aldrin													
Alpha-BHC													
Beta-BHC													
Delta-BHC													
Dieldrin													
Endosulfan I													
Endosulfan II													
Endosulfan Sulfate													
Endrin													
Endrin aldehyde													
Gamma-BHC													
Heptachlor													
Heptachlor epoxide													
Chlordane													
PCB-1016													
PCB-1221													
PCB-1232													
PCB-1242													
PCB-1248													
PCB-1254													
PCB-1260													
Toxaphene													

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

PCDD/PCDF Congeners*											0.000		**0.000**

*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	<1.0
Arsenic (As)		<2	<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	**<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	<0.5	<0.5	<0.5	**<0.5**
Copper (Cu)		5.7	5.4	5.3	4.6	6.0	6.5	4.2	4.8	4.6	4.0	4.4	**6.5**
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)		3.0	3.1	3.0	3.3	3.3	3.5	13.3	3.4	14.1	3.2	2.9	**14.1**
Selenium (Se)		<2	<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	**<0.25**
Thallium (Tl)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<1**
Zinc (Zn)	44	42	40	45	44	41	43	40	33	35	31	45	**45**
CN, Free		<2		<2					4	<2			**4**

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			14		15		14			16			**16**
Bromoform			<1		<1		<1			<1			**<1**
Bromomethane										<1			**<1**
Carbon tetrachloride										<0.5			**<0.5**
Chlorobenzene										<1			**<1**
Chloroethane										<1			**<1**
Chloroform			55		63		69			65			**69**
Chloromethane										<1			**<1**
cis-1,3-Dichloropropene										<0.5			**<0.5**
Dibromochloromethane			2		2		2			2			**2**
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										0.53			**0.53**

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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**
1,2-Dichlorobenzene					<1							<1	**<1**
1,3-Dichlorobenzene					<1							<1	**<1**
1,4-Dichlorobenzene					<1							<1	**<1**
2,4,6-Trichlorophenol					<1							<1	**<1**
2,4-Dichlorophenol					<2							<2	**<2**
2,4-Dimethylphenol					<1							<1	**<1**
2,4-Dinitrophenol					<3							<3	**<3**
2,4-Dinitrotoluene					<1							<1	**<1**
2,6-Dinitrotoluene					<2							<2	**<2**
2-Chloronaphthalene					<1							<1	**<1**
2-Chlorophenol					<1							<1	**<1**
2-Methyl-4,6-dinitrophenol					<2							<2	**<2**
2-Nitrophenol					<1							<1	**<1**
3,3-Dichlorobenzidine					<5							<5	**<5**
4-Bromophenyl phenyl ether					<1							<1	**<1**
4-Chloro-3-methylphenol					<1							<1	**<1**
4-Chlorophenyl phenyl ether					<1							<1	**<1**
4-Nitrophenol					<3							<3	**<3**
Acenaphthene					<1							<1	**<1**
Acenaphthylene					<1							<1	**<1**
Anthracene					<1							<1	**<1**
Azobenzene					<1							<1	**<1**
Benzidine					<5							<5	**<5**
Benzo(a)anthracene					<5							<5	**<5**
Benzo(a)pyrene					<1							<1	**<1**
Benzo(b)fluoranthene					<1							<1	**<1**
Benzo(g,h,i)perylene					<2							<2	**<2**
Benzo(k)fluoranthene					<1							<1	**<1**
Bis(2-chloroethoxy)methane					<2							<2	**<2**
Bis(2-chloroethyl)ether					<1							<1	**<1**
Bis(2-chloroisopropyl)ether					<1							<1	**<1**
Bis(2-ethylhexyl)phthalate			<2		<2		<2			<2		<2	**<2**
Butyl benzyl phthalate					<1							<1	**<1**
Chrysene					<1							<1	**<1**
Dibenzo(a,h)anthracene					<1							<1	**<1**
Diethyl phthalate					<2							<2	**<2**
Dimethyl phthalate					<1							<1	**<1**
Di-n-butyl phthalate					<1							<1	**<1**
Di-n-octyl phthalate					<1							<1	**<1**
Fluoranthene					<1							<1	**<1**
Fluorene					<1							<1	**<1**
Hexachlorobenzene					<1							<1	**<1**
Hexachlorobutadiene					<1							<1	**<1**
Hexachlorocyclopentadiene					<5							<5	**<5**
Hexachloroethane					<1							<1	**<1**
Indeno(1,2,3-cd)pyrene					<2							<2	**<2**
Isophorone					<1							<1	**<1**
Naphthalene					<1							<1	**<1**
Nitrobenzene					<1							<1	**<1**
N-Nitrosodimethylamine					<1							<1	**<1**
N-Nitroso-di-n-propylamine					<1							<1	**<1**
N-Nitrosodiphenylamine					<1							<1	**<1**
Pentachlorophenol					<2							<2	**<2**
Phenanthrene					<1							<1	**<1**
Phenol					<1							<1	**<1**
Pyrene					<1							<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*											0.000		**0.000**

*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	<1	<1	<1.0
Arsenic (As)		<2	<2	<2	<2	2	<2	<2	2	3	3	<2	**3**
Beryllium (Be)		<0.5	<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	<0.5	<0.5	<0.5	**<0.5**
Copper (Cu)		7.1	7.3	6.5	7.8	8.3	5.0	4.8	7.5	6.3	6.9	6.8	**8.3**
Lead (Pb)		<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.6**
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)		4.2	4.1	3.5	3.8	3.7	3.5	3.5	3.3	3.9	3.4	3.6	**4.2**
Selenium (Se)		<2	<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	**<0.25**
Thallium (Tl)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<1**
Zinc (Zn)	52	40	47	53	56	46	33	41	50	56	53	47	**56**
CN, Free		<2		<2					<2	<2			**<2**

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

1,1,1-Trichloroethane										<1			**<1**
1,1,2,2-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	13		24	15	15	17	16	17	23	14	16	**24**
Bromoform	<1	<1		<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	38	36		66	48	47	52	62	47	39	43	41	**66**
Chloromethane										<1			**<1**
cis-1,3-Dichloropropene										<0.5			**<0.5**
Dibromochloromethane	3	3		4	3	3	3	2	3	8	3	3	**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										0.29			**0.29**

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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		3		<2			<2			**3**
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	NA*	0.000	**0.000**

*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

NA* - Not reported due to the effluent being higher than the influent. Highly suspect that the samples may have been switched. Since the original samples were disposed of, the sub lab is not able to confirm

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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	<1	<1	<1	<1	<1.0
Arsenic (As)		<2	<2	<2	<2	2	<2	<2	2	3	2	2	**3**
Beryllium (Be)		<0.5	<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	<0.5	<0.5	<0.5	**<0.5**
Copper (Cu)		7.2	9.1	7.0	8.3	8.8	8.4	8.4	8.0	7.3	8.0	6.3	**9.1**
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)		3.4	3.8	3.4	3.5	4.1	3.4	3.2	3.6	3.7	3.2	3.1	**4.1**
Selenium (Se)		<2	<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	**<0.25**
Thallium (Tl)		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<1**
Zinc (Zn)	58	59	58	54	50	53	47	51	49	63	60	50	**63**
CN, Free		<2		<2					<2	<2			**<2**

CCWRF (M-004) 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	20	18		26	20	17	23	22	22		20	15	**26**
Bromoform	<1	<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	50	41		50	63	51	78	82	64		52	44	**82**
Chloromethane											<1		**<1**
cis-1,3-Dichloropropene											<0.5		**<0.5**
Dibromochloromethane	5	4		5	3	3	4	3	4		4	3	**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											0.42		**0.42**

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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**
1,2-Dichlorobenzene											<1	<1	**<1**
1,3-Dichlorobenzene											<1	<1	**<1**
1,4-Dichlorobenzene											<1	<1	**<1**
2,4,6-Trichlorophenol											<1	<1	**<1**
2,4-Dichlorophenol											<2	<2	**<2**
2,4-Dimethylphenol											<1	<1	**<1**
2,4-Dinitrophenol											<3	<3	**<3**
2,4-Dinitrotoluene											<1	<1	**<1**
2,6-Dinitrotoluene											<2	<2	**<2**
2-Chloronaphthalene											<1	<1	**<1**
2-Chlorophenol											<1	<1	**<1**
2-Methyl-4,6-dinitrophenol											<2	<2	**<2**
2-Nitrophenol											<1	<1	**<1**
3,3-Dichlorobenzidine											<5	<5	**<5**
4-Bromophenyl phenyl ether											<1	<1	**<1**
4-Chloro-3-methylphenol											<1	<1	**<1**
4-Chlorophenyl phenyl ether											<1	<1	**<1**
4-Nitrophenol											<3	<3	**<3**
Acenaphthene											<1	<1	**<1**
Acenaphthylene											<1	<1	**<1**
Anthracene											<1	<1	**<1**
Azobenzene											<1	<1	**<1**
Benzidine											<5	<5	**<5**
Benzo(a)anthracene											<5	<5	**<5**
Benzo(a)pyrene											<1	<1	**<1**
Benzo(b)fluoranthene											<1	<1	**<1**
Benzo(g,h,i)perylene											<2	<2	**<2**
Benzo(k)fluoranthene											<1	<1	**<1**
Bis(2-chloroethoxy)methane											<2	<2	**<2**
Bis(2-chloroethyl)ether											<1	<1	**<1**
Bis(2-chloroisopropyl)ether											<1	<1	**<1**
Bis(2-ethylhexyl)phthalate			<2		<2						<2	<2	**<2**
Butyl benzyl phthalate											<1	<1	**<1**
Chrysene											<1	<1	**<1**
Dibenzo(a,h)anthracene											<1	<1	**<1**
Diethyl phthalate											<2	<2	**<2**
Dimethyl phthalate											<1	<1	**<1**
Di-n-butyl phthalate											<1	<1	**<1**
Di-n-octyl phthalate											<1	<1	**<1**
Fluoranthene											<1	<1	**<1**
Fluorene											<1	<1	**<1**
Hexachlorobenzene											<1	<1	**<1**
Hexachlorobutadiene											<1	<1	**<1**
Hexachlorocyclopentadiene											<5	<5	**<5**
Hexachloroethane											<1	<1	**<1**
Indeno(1,2,3-cd)pyrene											<2	<2	**<2**
Isophorone											<1	<1	**<1**
Naphthalene											<1	<1	**<1**
Nitrobenzene											<1	<1	**<1**
N-Nitrosodimethylamine											<1	<1	**<1**
N-Nitroso-di-n-propylamine											<1	<1	**<1**
N-Nitrosodiphenylamine											<1	<1	**<1**
Pentachlorophenol											<2	<2	**<2**
Phenanthrene											<1	<1	**<1**
Phenol											<1	<1	**<1**
Pyrene											<1	<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			<0.006		**<0.006**
4,4-DDE					<0.006			<0.006			<0.006		**<0.006**
4,4-DDT					<0.008			<0.008			<0.008		**<0.008**
Aldrin					<0.004			<0.004			<0.004		**<0.004**
Alpha-BHC					<0.008			<0.008			<0.008		**<0.008**
Beta-BHC					<0.005			<0.005			<0.005		**<0.005**
Delta-BHC					<0.007			<0.007			<0.007		**<0.007**
Dieldrin					<0.006			<0.006			<0.006		**<0.006**
Endosulfan I			0.05		<0.01			<0.01			<0.01		**0.05**
Endosulfan II					<0.007			<0.007			<0.007		**<0.007**
Endosulfan Sulfate					<0.009			<0.009			<0.009		**<0.009**
Endrin					<0.009			<0.009			<0.009		**<0.009**
Endrin aldehyde					<0.006			<0.006			<0.006		**<0.006**
Gamma-BHC					<0.01			<0.01			<0.01		**<0.01**
Heptachlor					<0.006			<0.006			<0.006		**<0.006**
Heptachlor epoxide					<0.007			<0.007			<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			No Discharge				0.000		**0.000**

*TEQ is calculated based on congener concentrations below the reporting limit (RL) set to zero

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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											<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											1.8		**1.8**
Cu, Total Dissolved											5.9		**5.9**
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											8		**8**
CN, Free											<2		**<2**

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											0.8		**0.8**
Cu, Total Dissolved											4.0		**4.0**
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											33		**33**

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											5		**5**
Bromoform											<1		**<1**
Bromomethane											<1		**<1**
Carbon tetrachloride											<1		**<1**
Chlorobenzene											<1		**<1**
Chloroethane											<1		**<1**
Chloroform											23		**23**
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											0.55		**0.55**

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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											0.9		**0.9**
Cu, Total Dissolved											5.6		**5.6**
Ni, Total Dissolved											4		**4**
Pb, Total Dissolved											<0.5		**<0.5**
Sb, Total Dissolved											<1		**<1**
Se, Total Dissolved											3		**3**
Tl, Total Dissolved											<1		**<1**
Zn, Total Dissolved											6		**6**

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											<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-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											<0.01		**<0.010**
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**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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											<2		**<2**
Be, Total Dissolved											<0.5		**<0.5**
Cd, Total Dissolved											<0.25		**<0.25**
Cr, Total Dissolved											0.7		**0.7**
Cu, Total Dissolved											6.2		**6.2**
Ni, Total Dissolved											4		**4**
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											41		**41**

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											9		**9**
Bromoform											<1		**<1**
Bromomethane											<1		**<1**
Carbon tetrachloride											<1		**<1**
Chlorobenzene											<1		**<1**
Chloroethane											<1		**<1**
Chloroform											28		**28**
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											0.26		**0.26**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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											<0.01		**<0.010**
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**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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											2		**2**
Be, Total Dissolved											<0.5		**<0.5**
Cd, Total Dissolved											<0.25		**<0.25**
Cr, Total Dissolved											0.9		**0.9**
Cu, Total Dissolved											7.6		**7.6**
Ni, Total Dissolved											4		**4**
Pb, Total Dissolved											0.6		**0.6**
Sb, Total Dissolved											<1		**<1**
Se, Total Dissolved											3		**3**
Tl, Total Dissolved											<1		**<1**
Zn, Total Dissolved											7		**7**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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**

INLAND EMPIRE UTILITIES AGENCY

Regional Plant Nos. 1, 4, 5, & Carbon Canyon Water Recycling Facility, 2019 NPDES Annual Report

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**


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