

RP-1 Recycled Water Quality (2024)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	2
TSS	mg/L	<2	<2	<2
pH	units	6.9	6.8	7.1
Turbidity	NTU	0.7	0.6	0.8
Total Coliform (7d median)	MPN/100mL	1	<1	1
EC ²	µmhos/cm	743	714	758
TDS	mg/L	438	419	454
TOC	mg/L	7.0	6.2	7.9
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	4.6	3.5	5.4
Bicarbonate Alkalinity	mg/L as CaCO ₃	158	158	158
Boron	mg/L	0.2	0.2	0.3
Calcium	mg/L	44	41	51
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	101	93	109
Fluoride	mg/L	0.2	0.2	0.3
Magnesium	mg/L	10	9	10
Sodium	mg/L	87	84	90
Sulfate	mg/L	44	40	52
Total Hardness	mg/L as CaCO ₃	150	140	165
TR Aluminium	µg/L	132	86	199
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	13	10	16
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.1
TR Copper	µg/L	3	3	7
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	8	4	21
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	3	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	29	24	31
Silica	mg/L	23	21	24

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

RP-4 Recycled Water Quality (2024)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	6.9	7.2
Turbidity	NTU	0.6	0.6	0.7
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	710	687	739
TDS	mg/L	418	406	438
TOC	mg/L	6.2	5.5	7.3
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	4.2	3.8	4.6
Boron	mg/L	0.3	0.1	0.3
Calcium	mg/L	41	38	47
Chloride	mg/L	88	88	88
Magnesium	mg/L	10	8	11
Sodium	mg/L	86	67	95
Sulfate	mg/L	40	40	40
Total Hardness	mg/L as CaCO ₃	143	129	160
Silica	mg/L	22	19	27

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

RP-5 Recycled Water Quality (2024)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	6.9	7.2
Turbidity	NTU	1.0	0.8	1.3
Total Coliform (7d median)	MPN/100mL	<1	<1	1
EC ²	µmhos/cm	946	863	1,021
TDS	mg/L	542	511	575
TOC	mg/L	5.2	4.6	5.9
NH ₃ -N	mg/L	<0.1	<0.1	0.1
TIN	mg/L	5.2	2.0	7.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	137	137	137
Boron	mg/L	0.2	0.2	0.3
Calcium	mg/L	58	51	70
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	163	163	163
Fluoride	mg/L	0.1	0.1	0.1
Magnesium	mg/L	15	13	18
Sodium ³	mg/L	112	107	120
Sulfate ³	mg/L	58	58	58
Total Hardness	mg/L as CaCO ₃	202	181	230
TR Aluminium	µg/L	<25	<25	<25
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	27	8	37
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.4
TR Copper	µg/L	5	4	7
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	17	4	41
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	3	5
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	29	19	36
Silica	mg/L	19	18	21

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

³ Effluent value reported will be higher than RW due to dechlorination chemicals.

CCWRF Recycled Water Quality (2024)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	2
TSS	mg/L	<2	<2	<2
pH	units	7.0	6.8	7.1
Turbidity	NTU	1.0	0.8	1.2
Total Coliform (7d median)	MPN/100mL	<1	<1	1
EC ²	µmhos/cm	846	789	884
TDS	mg/L	483	445	517
TOC	mg/L	7.3	6.1	8.3
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
TIN	mg/L	6.3	5.7	7.3
Bicarbonate Alkalinity	mg/L as CaCO ₃	130	130	130
Boron	mg/L	0.3	0.2	0.3
Calcium	mg/L	45	37	53
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	135	135	135
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	12	10	13
Sodium ³	mg/L	107	98	116
Sulfate ³	mg/L	72	72	72
Total Hardness	mg/L as CaCO ₃	161	139	185
TR Aluminium	µg/L	122	38	182
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	15	11	20
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.4
TR Copper	µg/L	6	3	7
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	13	2	32
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	2	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	36	28	46
Silica	mg/L	16	12	18

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring

³ Effluent value reported will be higher than RW due to dechlorination chemicals.

IEUA Recycled Water Quality (2024) ¹

Parameter	Units	Average ²	Minimum ²	Maximum ²
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.0	6.8	7.2
Turbidity	NTU	0.8	0.6	1.3
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ³	µmhos/cm	811	687	1021
TDS	mg/L	470	406	575
TOC	mg/L	6.4	4.6	8.3
NH ₃ -N	mg/L	<0.1	<0.1	0.2
TIN	mg/L	5.1	2.0	7.3
Bicarbonate Alkalinity	mg/L as CaCO ₃	142	130	158
Boron	mg/L	0.3	0.1	0.3
Calcium	mg/L	47	37	70
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	122	88	163
Fluoride	mg/L	0.2	0.1	0.3
Magnesium	mg/L	12	8	18
Sodium	mg/L	98	67	120
Sulfate	mg/L	54	40	72
Total Hardness	mg/L as CaCO ₃	164	129	230
TR Aluminium	µg/L	93	<25	199
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	18	8	37
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Chromium	µg/L	0.7	<0.5	1.4
TR Copper	µg/L	5	3	7
TR Lead	µg/L	<0.5	<0.5	0.5
TR Manganese	µg/L	13	2	41
TR Mercury	µg/L	<0.025	<0.025	<0.025
TR Nickel	µg/L	3	2	5
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	31	19	46
Silica	mg/L	20	12	27

¹ IEUA RW quality includes RP-1, RP-4, RP-5, and CCWRF. Some RW customers may receive RW from each of these facilities dependent upon regional demands

² Average, Minimum, and Maximum values based on monthly averages

³ EC values based on 24-hour composite lab samples, not continuous monitoring

RP-1/RP-4 Recycled Water Quality (2024)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.0	6.8	7.2
Turbidity	NTU	0.7	0.6	0.8
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	727	687	758
TDS	mg/L	428	406	454
TOC	mg/L	6.6	5.5	7.9
NH ₃ -N	mg/L	<0.1	<0.1	0.1
TIN	mg/L	4.4	3.5	5.4
Bicarbonate Alkalinity	mg/L as CaCO ₃	158	158	158
Boron	mg/L	0.3	0.1	0.2
Calcium	mg/L	43	38	51
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	95	88	109
Fluoride	mg/L	0.2	0.2	0.3
Magnesium	mg/L	10	8	11
Sodium	mg/L	87	67	95
Sulfate	mg/L	42	40	52
Total Hardness	mg/L as CaCO ₃	147	129	165
TR Aluminium (RP-1 Only)	µg/L	132	86	199
TR Arsenic (RP-1 Only)	µg/L	<2	<2	<2
TR Barium (RP-1 Only)	µg/L	13	10	16
TR Cadmium (RP-1 Only)	µg/L	<0.25	<0.25	<0.25
TR Chromium (RP-1 Only)	µg/L	0.7	<0.5	1.1
TR Copper (RP-1 Only)	µg/L	3	3	7
TR Lead (RP-1 Only)	µg/L	<0.5	<0.5	<0.5
TR Manganese (RP-1 Only)	µg/L	8	4	21
TR Mercury (RP-1 Only)	µg/L	<0.05	<0.05	<0.05
TR Nickel (RP-1 Only)	µg/L	3	3	4
TR Selenium (RP-1 Only)	µg/L	<2	<2	<2
TR Silver (RP-1 Only)	µg/L	<0.25	<0.25	<0.25
TR Zinc (RP-1 Only)	µg/L	29	24	31
Silica	mg/L	22	19	27

¹ Average, Minimum, and Maximum values based on monthly averages

² EC values based on 24-hour composite lab samples, not continuous monitoring