

RP-1 Recycled Water Quality (2022)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.2
Turbidity	NTU	0.8	0.6	1.0
Total Coliform (7d median)	MPN/100mL	<1	<1	<2
EC ²	µmhos/cm	788	755	822
TDS	mg/L	460	441	479
TOC	mg/L	6.8	5.8	7.7
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	155	144	164
TIN	mg/L	4.5	3.1	5.7
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	45	41	49
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	104	99	111
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	8	7	9
NO ₃ -N	mg/L	4.5	3.0	5.7
Sodium	mg/L	94	88	106
Sulfate	mg/L	46	42	53
Total Hardness	mg/L as CaCO ₃	146	137	159
TR Aluminium	µg/L	69	32	162
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	9	6	15
TR Chromium	µg/L	<0.5	<0.5	0.7
TR Copper	µg/L	2	1	4
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	4	2	11
TR Mercury	µg/L	<0.05	<0.05	<0.05
TR Nickel	µg/L	2	1	3
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	38	24	45
Silica	mg/L	24	22	27
Orthophosphate	mg/L	1.2	<0.8	3.2

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 (2022)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.2
Turbidity	NTU	0.5	0.4	0.7
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	775	717	862
TDS	mg/L	453	428	487
TOC	mg/L	5.8	5.3	6.1
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	153	135	176
TIN	mg/L	4.2	2.8	6.5
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	40	33	48
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	107	81	145
Fluoride	mg/L	0.2	0.2	0.2
Iron	µg/L	24	16	29
Magnesium	mg/L	8	6	9
NO ₃ -N	mg/L	4.2	2.7	6.5
Sodium	mg/L	99	81	122
Sulfate	mg/L	50	41	66
Total Hardness	mg/L as CaCO ₃	131	115	156
Silica	mg/L	22	18	30
Orthophosphate	mg/L	3.1	1.9	5.0

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 (2022)

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	7.3
Turbidity	NTU	0.7	0.5	0.9
Total Coliform (7d median)	MPN/100mL	<1	<1	<1
EC ²	µmhos/cm	944	918	976
TDS	mg/L	522	441	550
TOC	mg/L	5.3	4.7	5.8
NH ₃ -N	mg/L	<0.1	<0.1	0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	128	119	134
TIN	mg/L	5.2	3.5	6.2
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	60	55	65
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	167	149	177
Fluoride	mg/L	0.1	0.1	0.1
Magnesium	mg/L	13	12	14
NO ₃ -N	mg/L	5.1	3.5	6.2
Sodium	mg/L	103	96	107
Sulfate	mg/L	53	35	68
Total Hardness	mg/L as CaCO ₃	204	185	222
TR Aluminium	µg/L	<25	<25	<25
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	36	21	48
TR Chromium	µg/L	0.6	<0.5	0.7
TR Copper	µg/L	5	4	8
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Lead	µg/L	<0.5	<0.5	0.6
TR Manganese	µg/L	9	2	41
TR Mercury	µg/L	<0.05	<0.05	<0.05
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	49	35	71
Silica	mg/L	19	17	21

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

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

CCWRF Recycled Water Quality (2022)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.3
Turbidity	NTU	0.8	0.6	1.1
Total Coliform (7d median)	MPN/100mL	<1	<1	<2
EC ²	µmhos/cm	909	878	937
TDS	mg/L	515	492	543
TOC	mg/L	6.6	5.8	7.3
NH ₃ -N	mg/L	<0.1	<0.1	0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	123	107	135
TIN	mg/L	5.0	4.1	5.7
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	49	45	54
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	148	140	156
Fluoride	mg/L	0.2	0.1	0.2
Magnesium	mg/L	10	9	11
NO ₃ -N	mg/L	4.9	4.1	5.7
Sodium	mg/L	113	102	125
Sulfate	mg/L	72	51	94
Total Hardness	mg/L as CaCO ₃	161	150	180
TR Aluminium	µg/L	120	58	163
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	13	9	17
TR Chromium	µg/L	0.6	<0.5	0.8
TR Copper	µg/L	6	4	9
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	7	1	18
TR Mercury	µg/L	<0.05	<0.05	<0.05
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	44	26	66
Silica	mg/L	17	14	18

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

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

IEUA Recycled Water Quality (2022) ¹

Parameter	Units	Average ²	Minimum ²	Maximum ²
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	6.8	7.3
Turbidity	NTU	0.7	0.4	1.1
Total Coliform (7d median)	MPN/100mL	<1	<1	<2
EC ³	µmhos/cm	854	717	976
TDS	mg/L	488	428	550
TOC	mg/L	6.1	4.7	7.7
NH ₃ -N	mg/L	<0.1	<0.1	0.2
Bicarbonate Alkalinity	mg/L as CaCO ₃	140	107	176
TIN	mg/L	4.7	2.8	6.5
Boron	mg/L	0.3	0.3	0.4
Calcium	mg/L	49	33	65
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	132	81	177
Fluoride	mg/L	0.2	0.1	0.2
Magnesium	mg/L	10	6	14
NO ₃ -N	mg/L	4.7	2.7	6.5
Sodium	mg/L	102	81	125
Sulfate	mg/L	55	35	94
Total Hardness	mg/L as CaCO ₃	161	115	222
TR Aluminium	µg/L	71	<25	170
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	19	6	48
TR Chromium	µg/L	<0.5	<0.5	1
TR Copper	µg/L	4	1	9
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	7	1	41
TR Mercury	µg/L	<0.05	<0.05	<0.05
TR Nickel	µg/L	3	1	4
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	44	24	71
Silica	mg/L	21	14	30

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 (2022)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.1	7.0	7.2
Turbidity	NTU	0.7	0.4	1.0
Total Coliform (7d median)	MPN/100mL	<1	<1	<2
EC ²	µmhos/cm	782	717	862
TDS	mg/L	457	428	487
TOC	mg/L	6.3	5.3	7.7
NH ₃ -N	mg/L	<0.1	<0.1	0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	154	135	176
TIN	mg/L	4.3	2.8	6.5
Boron	mg/L	0.3	0.3	0.2
Calcium	mg/L	43	33	49
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	106	81	145
Fluoride	mg/L	0.2	0.2	0.2
Magnesium	mg/L	8	6	9
NO ₃ -N	mg/L	4.3	2.7	6.5
Sodium	mg/L	97	81	122
Sulfate	mg/L	48	41	66
Total Hardness	mg/L as CaCO ₃	139	115	159
TR Aluminium (RP-1 Only)	µg/L	69	32	162
TR Arsenic (RP-1 Only)	µg/L	<2	<2	<2
TR Barium (RP-1 Only)	µg/L	9	6	15
TR Chromium (RP-1 Only)	µg/L	<0.5	<0.5	0.7
TR Copper (RP-1 Only)	µg/L	2	1	4
TR Cadmium (RP-1 Only)	µg/L	<0.25	<0.25	<0.25
TR Lead (RP-1 Only)	µg/L	<0.5	<0.5	<0.5
TR Manganese (RP-1 Only)	µg/L	4	2	11
TR Mercury (RP-1 Only)	µg/L	<0.05	<0.05	<0.05
TR Nickel (RP-1 Only)	µg/L	2	1	3
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	38	24	45
Silica	mg/L	23	18	30
Orthophosphate	mg/L	2.2	<0.8	7.8

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

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