

RP-1 Recycled Water Quality (2015)

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	0.6	0.5	0.8
Total Coliform (7d median)	MPN/100mL	<2	<2	<2
EC ²	µmhos/cm	828	804	852
TDS	mg/L	504	476	559
TOC	mg/L	5.3	4.8	6.0
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	154	137	178
TIN	mg/L	6.4	4.9	9.6
Boron	mg/L	0.2	0.2	0.3
Calcium	mg/L	48	45	50
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	109	99	123
Fluoride	mg/L	0.3	0.2	0.3
Magnesium	mg/L	9	8	10
NO ₃ -N	mg/L	6.3	4.8	9.6
Sodium	mg/L	101	93	109
Sulfate	mg/L	55	46	72
Total Hardness	mg/L as CaCO ₃	155	146	163
TR Aluminium	µg/L	35	<25	47
TR Arsenic	µg/L	<2	<2	<2
TR Barium	µg/L	14	11	19
TR Chromium	µg/L	0.8	<0.5	1.6
TR Copper	µg/L	4	3	5
TR Cadmium	µg/L	<0.25	<0.25	<0.25
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	13	6	30
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	26	21	31
Silica	mg/L	25	21	28
Orthophosphate	mg/L	<0.6	<0.6	<0.6

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 (2015)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.2	7.1	7.3
Turbidity	NTU	0.5	0.4	0.9
Total Coliform (7d median)	MPN/100mL	<2	<2	<2
EC ²	µmhos/cm	794	763	818
TDS	mg/L	481	458	498
TOC	mg/L	4.0	3.8	4.4
NH ₃ -N	mg/L	<0.1	<0.1	0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	142	122	161
TIN	mg/L	4.9	4.1	6.4
Boron	mg/L	0.3	0.2	0.3
Calcium	mg/L	43	39	49
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	107	82	121
Fluoride	mg/L	0.2	0.2	0.3
Iron	µg/L	41	24	49
Magnesium	mg/L	9	9	10
NO ₃ -N	mg/L	4.8	4.0	6.3
Sodium	mg/L	97	85	107
Sulfate	mg/L	57	39	70
Total Hardness	mg/L as CaCO ₃	147	137	163
Silica	mg/L	24	20	31
Orthophosphate	mg/L	5.1	3.0	8.0

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 (2015)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<2
pH	units	7.0	6.9	7.1
Turbidity	NTU	0.7	0.6	0.9
Total Coliform (7d median)	MPN/100mL	<2	<2	<2
EC ²	µmhos/cm	913	888	955
TDS	mg/L	528	511	558
TOC	mg/L	4.9	4.7	5.3
NH ₃ -N	mg/L	<0.4	<0.1	<2.4
Bicarbonate Alkalinity	mg/L as CaCO ₃	134	117	146
TIN	mg/L	6.8	5.1	8.9
Boron	mg/L	0.2	0.2	0.3
Calcium	mg/L	57	51	65
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	137	129	148
Fluoride	mg/L	0.2	0.1	0.2
Magnesium	mg/L	11	10	13
NO ₃ -N	mg/L	6.5	5.0	7.2
Sodium	mg/L	104	96	112
Sulfate	mg/L	71	63	87
Total Hardness	mg/L as CaCO ₃	190	173	210
TR Aluminium	µg/L	<25	<25	<25
TR Arsenic	µg/L	<2	<2	2
TR Barium	µg/L	31	17	42
TR Chromium	µg/L	1.0	<0.5	1.7
TR Copper	µg/L	7	5	9
TR Cadmium	µg/L	<0.32	<0.25	0.83
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	8	4	16
TR Mercury	µg/L	<0.05	<0.05	<0.05
TR Nickel	µg/L	3	2	3
TR Selenium	µg/L	<2	<2	<2
TR Silver	µg/L	<0.25	<0.25	<0.25
TR Zinc	µg/L	52	45	64
Silica	mg/L	20	18	22

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 (2015)

Parameter	Units	Average ¹	Minimum ¹	Maximum ¹
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<3
pH	units	7.0	6.8	7.2
Turbidity	NTU	0.6	0.4	0.8
Total Coliform (7d median)	MPN/100mL	<2	<2	<2
EC ²	µmhos/cm	955	892	1,008
TDS	mg/L	558	527	574
TOC	mg/L	5.1	4.3	6.1
NH ₃ -N	mg/L	<0.1	<0.1	<0.1
Bicarbonate Alkalinity	mg/L as CaCO ₃	135	121	150
TIN	mg/L	4.1	3.0	5.6
Boron	mg/L	0.3	0.2	0.3
Calcium	mg/L	54	50	58
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	139	130	152
Fluoride	mg/L	0.2	0.2	0.3
Magnesium	mg/L	11	10	12
NO ₃ -N	mg/L	4.0	3.0	5.6
Sodium	mg/L	114	101	126
Sulfate	mg/L	87	68	100
Total Hardness	mg/L as CaCO ₃	179	168	195
TR Aluminium	µg/L	57	<25	86
TR Arsenic	µg/L	<2	<2	3
TR Barium	µg/L	21	13	26
TR Chromium	µg/L	1.1	0.5	1.8
TR Copper	µg/L	7	5	8
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	2	28
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	60	49	71
Silica	mg/L	19	16	21

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 (2015) ¹

Parameter	Units	Average ²	Minimum ²	Maximum ²
BOD	mg/L	<2	<2	<2
TSS	mg/L	<2	<2	<3
pH	units	7.1	6.8	7.3
Turbidity	NTU	0.6	0.4	0.9
Total Coliform (7d median)	MPN/100mL	<2	<2	<2
EC ³	µmhos/cm	872	763	1008
TDS	mg/L	518	458	574
TOC	mg/L	4.8	3.8	6.1
NH ₃ -N	mg/L	<0.2	<0.1	<2.4
Bicarbonate Alkalinity	mg/L as CaCO ₃	141	117	178
TIN	mg/L	5.6	3.0	9.6
Boron	mg/L	0.3	0.2	0.3
Calcium	mg/L	51	39	65
Carbonate Alkalinity	mg/L as CaCO ₃	0	0	0
Chloride	mg/L	123	82	152
Fluoride	mg/L	0.2	0.1	0.3
Magnesium	mg/L	10	8	13
NO ₃ -N	mg/L	5.4	3.0	9.6
Sodium	mg/L	104	85	126
Sulfate	mg/L	68	39	100
Total Hardness	mg/L as CaCO ₃	168	137	210
TR Aluminium	µg/L	39	<25	86
TR Arsenic	µg/L	<2	<2	3
TR Barium	µg/L	22	11	42
TR Chromium	µg/L	1.0	0.5	1.8
TR Copper	µg/L	6	3	9
TR Cadmium	µg/L	<0.27	<0.25	0.83
TR Lead	µg/L	<0.5	<0.5	<0.5
TR Manganese	µg/L	10	2	30
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	46	21	71
Silica	mg/L	22	16	31

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