

RP-1 Recycled Water Quality (2012)

| Parameter | Units | Average ¹ | Minimum ¹ | Maximum ¹ |
|----------------------------|---------------------------|----------------------|----------------------|----------------------|
| BOD | mg/L | <2 | <2 | <2 |
| TSS | mg/L | <2 | <2 | <2 |
| pH | units | 7.2 | 7.0 | 7.3 |
| Turbidity | NTU | 0.8 | 0.5 | 1.1 |
| Total Coliform (7d median) | MPN/100mL | <2 | <2 | <2 |
| EC ² | µmhos/cm | 772 | 721 | 804 |
| TDS | mg/L | 464 | 441 | 480 |
| TOC | mg/L | 5.8 | 5.1 | 6.7 |
| NH ₃ -N | mg/L | <0.1 | <0.1 | <0.1 |
| Bicarbonate Alkalinity | mg/L as CaCO ₃ | 141 | 130 | 155 |
| TIN | mg/L | 6.4 | 4.8 | 8.4 |
| Boron | mg/L | 0.2 | 0.2 | 0.4 |
| Calcium | mg/L | 43 | 38 | 49 |
| Carbonate Alkalinity | mg/L as CaCO ₃ | 0 | 0 | 0 |
| Chloride | mg/L | 112 | 96 | 132 |
| Fluoride | mg/L | 0.2 | 0.1 | 0.3 |
| Magnesium | mg/L | 10 | 9 | 11 |
| NO ₃ -N | mg/L | 6.4 | 4.7 | 8.3 |
| Sodium | mg/L | 97 | 84 | 104 |
| Sulfate | mg/L | 44 | 38 | 52 |
| Total Hardness | mg/L as CaCO ₃ | 147 | 134 | 164 |
| TR Manganese | µg/L | 8 | 6 | 14 |
| TR Arsenic | µg/L | <2 | <2 | <2 |
| TR Barium | µg/L | 13 | 10 | 15 |
| TR Chromium | µg/L | 0.9 | <0.5 | 1.3 |
| 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 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 | 26 | 22 | 31 |
| Silica | mg/L | 25 | 21 | 30 |
| Orthophosphate | mg/L | <0.6 | <0.6 | 1.5 |

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 (2012)

| 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 | 0.3 | 1.3 |
| Total Coliform (7d median) | MPN/100mL | <2 | <2 | <2 |
| EC ² | µmhos/cm | 728 | 682 | 767 |
| TDS | mg/L | 434 | 407 | 451 |
| TOC | mg/L | 3.9 | 3.3 | 4.4 |
| NH ₃ -N | mg/L | <0.1 | <0.1 | 0.1 |
| Bicarbonate Alkalinity | mg/L as CaCO ₃ | 135 | 114 | 150 |
| TIN | mg/L | 3.9 | 2.5 | 5.5 |
| Boron | mg/L | 0.2 | 0.2 | 0.3 |
| Calcium | mg/L | 42 | 39 | 47 |
| Carbonate Alkalinity | mg/L as CaCO ₃ | 0 | 0 | 0 |
| Chloride | mg/L | 109 | 97 | 120 |
| Fluoride | mg/L | 0.2 | 0.2 | 0.2 |
| Magnesium | mg/L | 10 | 8 | 11 |
| NO ₃ -N | mg/L | 3.8 | 2.4 | 5.5 |
| Sodium | mg/L | 88 | 76 | 98 |
| Sulfate | mg/L | 45 | 37 | 53 |
| Total Hardness | mg/L as CaCO ₃ | 146 | 130 | 163 |
| Iron | µg/L | 43 | 37 | 52 |
| Silica | mg/L | 96 | 80 | 113 |
| Orthophosphate | mg/L | 3.3 | 1.8 | 5.6 |

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

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

RP-5 Recycled Water Quality (2012)

| Parameter | Units | Average ¹ | Minimum ¹ | Maximum ¹ |
|----------------------------|---------------------------|----------------------|----------------------|----------------------|
| BOD | mg/L | <2 | <2 | <2 |
| TSS | mg/L | <2 | <2 | 3 |
| pH | units | 7.0 | 6.7 | 7.3 |
| Turbidity | NTU | 1.1 | 0.6 | 1.4 |
| Total Coliform (7d median) | MPN/100mL | <2 | <2 | 3 |
| EC ² | µmhos/cm | 882 | 839 | 925 |
| TDS | mg/L | 514 | 498 | 532 |
| TOC | mg/L | 4.4 | 4.0 | 4.6 |
| NH ₃ -N | mg/L | <0.1 | <0.1 | <0.5 |
| Bicarbonate Alkalinity | mg/L as CaCO ₃ | 140 | 129 | 149 |
| TIN | mg/L | 6.8 | 5.9 | 7.8 |
| Boron | mg/L | 0.3 | 0.2 | 0.3 |
| Calcium | mg/L | 56 | 53 | 62 |
| Carbonate Alkalinity | mg/L as CaCO ₃ | 0 | 0 | 0 |
| Chloride | mg/L | 138 | 127 | 150 |
| Fluoride | mg/L | 0.2 | 0.1 | 0.2 |
| Magnesium | mg/L | 13 | 11 | 14 |
| NO ₃ -N | mg/L | 6.7 | 5.7 | 7.7 |
| Sodium | mg/L | 100 | 91 | 110 |
| Sulfate | mg/L | 59 | 48 | 69 |
| Total Hardness | mg/L as CaCO ₃ | 192 | 183 | 212 |
| TR Manganese | µg/L | 20 | 5 | 34 |
| TR Arsenic | µg/L | <2 | <2 | <2 |
| TR Barium | µg/L | 26 | 17 | 33 |
| TR Chromium | µg/L | 1.0 | 0.8 | 1.2 |
| TR Copper | µg/L | 7 | 5 | 10 |
| TR Cadmium | µg/L | <0.25 | <0.25 | <0.25 |
| TR Lead | µg/L | <0.5 | <0.5 | <0.5 |
| 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 | 41 | 32 | 54 |
| Silica | mg/L | 23 | 22 | 26 |

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 (2012)

| 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 | 0.6 | 0.3 | 0.8 |
| Total Coliform (7d median) | MPN/100mL | <2 | <2 | 7 |
| EC ² | µmhos/cm | 882 | 842 | 904 |
| TDS | mg/L | 505 | 491 | 517 |
| TOC | mg/L | 4.7 | 4.1 | 5.3 |
| NH ₃ -N | mg/L | <0.1 | <0.1 | <0.2 |
| Bicarbonate Alkalinity | mg/L as CaCO ₃ | 136 | 117 | 152 |
| TIN | mg/L | 4.7 | 3.9 | 6.3 |
| Boron | mg/L | 0.3 | 0.2 | 0.3 |
| Calcium | mg/L | 49 | 45 | 54 |
| Carbonate Alkalinity | mg/L as CaCO ₃ | 0 | 0 | 0 |
| Chloride | mg/L | 140 | 115 | 154 |
| Fluoride | mg/L | 0.2 | 0.1 | 0.4 |
| Magnesium | mg/L | 12 | 11 | 13 |
| NO ₃ -N | mg/L | 4.7 | 3.8 | 6.3 |
| Sodium | mg/L | 106 | 90 | 117 |
| Sulfate | mg/L | 64 | 51 | 73 |
| Total Hardness | mg/L as CaCO ₃ | 173 | 159 | 189 |
| TR Manganese | µg/L | 16 | 8 | 24 |
| TR Arsenic | µg/L | <2 | <2 | <2 |
| TR Barium | µg/L | 15 | 10 | 23 |
| TR Chromium | µg/L | 1.0 | 0.8 | 1.3 |
| 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 Mercury | µg/L | <0.05 | <0.05 | <0.05 |
| TR Nickel | µg/L | 3 | 2 | 7 |
| TR Selenium | µg/L | <2 | <2 | <2 |
| TR Silver | µg/L | <0.25 | <0.25 | <0.25 |
| TR Zinc | µg/L | 43 | 35 | 68 |
| Silica | mg/L | 19 | 14 | 22 |

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 (2012) 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 | 6.7 | 7.3 |
| Turbidity | NTU | 0.8 | 0.3 | 1.4 |
| Total Coliform (7d median) | MPN/100mL | <2 | <2 | 7 |
| EC ³ | µmhos/cm | 816 | 682 | 925 |
| TDS | mg/L | 479 | 407 | 532 |
| TOC | mg/L | 4.7 | 3.3 | 6.7 |
| NH ₃ -N | mg/L | <0.1 | <0.1 | <0.5 |
| Bicarbonate Alkalinity | mg/L as CaCO ₃ | 138 | 114 | 155 |
| TIN | mg/L | 5.5 | 2.5 | 8.4 |
| Boron | mg/L | 0.3 | 0.2 | 0.4 |
| Calcium | mg/L | 48 | 38 | 62 |
| Carbonate Alkalinity | mg/L as CaCO ₃ | 0 | 0 | 0 |
| Chloride | mg/L | 124 | 96 | 154 |
| Fluoride | mg/L | 0.2 | 0.1 | 0.4 |
| Magnesium | mg/L | 11 | 8 | 14 |
| NO ₃ -N | mg/L | 5.4 | 2.4 | 8.3 |
| Sodium | mg/L | 98 | 76 | 117 |
| Sulfate | mg/L | 53 | 37 | 73 |
| Total Hardness | mg/L as CaCO ₃ | 164 | 130 | 212 |
| TR Manganese | µg/L | 15 | 5 | 34 |
| TR Arsenic | µg/L | <2 | <2 | <2 |
| TR Barium | µg/L | 18 | 10 | 33 |
| TR Chromium | µg/L | 1.0 | 0.8 | 1.3 |
| TR Copper | µg/L | 5 | 1 | 10 |
| TR Cadmium | µg/L | <0.25 | <0.25 | <0.25 |
| TR Lead | µg/L | <0.5 | <0.5 | <0.5 |
| TR Mercury | µg/L | <0.05 | <0.05 | <0.05 |
| TR Nickel | µg/L | 3 | 2 | 7 |
| TR Selenium | µg/L | <2 | <2 | <2 |
| TR Silver | µg/L | <0.25 | <0.25 | <0.25 |
| TR Zinc | µg/L | 37 | 22 | 68 |
| Silica | mg/L | 41 | 14 | 113 |
| Orthophosphate | mg/L | 3.3 | <0.6 | 5.6 |

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