



COMPREHENSIVE WATER ANALYSIS 2022

| <u>PARAMETER</u> | <u>YWC Sample</u> | <u>EPA/DEP DRINKING WATER STANDARDS</u> |
|---|---------------------------------------|---|
| Primary Inorganics (Results in PPM)¹ | | |
| Antimony | <0.000500 | 0.006 |
| Arsenic | <0.000500 | 0.010 |
| Asbestos | N.D. | < 7 MFL |
| Barium | 0.019 | 2.00 |
| Beryllium | <0.000300 | 0.004 |
| Cadmium | <0.000500 | 0.005 |
| Chromium | 0.0059 | 0.100 |
| Cyanide (total) | <0.0100 | 0.200 |
| Fluoride | <0.100 | 2.00 |
| Lead (customer tap) | 0.0020 (90th percentile) ⁴ | 0.015 |
| Mercury | <0.0001 | 0.002 |
| Nickel | <0.00139 | 0.100 |
| Nitrate Nitrogen | 3.0 | 10.0 |
| Nitrite Nitrogen | N.D. | 1.00 |
| Total Nitrate & Nitrite | 3.0 | 10.0 |
| Selenium | <0.00300 | 0.050 |
| Thallium | <0.000500 | 0.002 |
| Turbidity | 0.033 | 0.30 |
| Herbicides/Pesticides/SOC's (Results in PPM)¹ | | |
| Alachlor | N.D. | 0.002 |
| Atrazine | 0.00061 | 0.003 |
| Benzo (a) Pyrene | N.D. | 0.0002 |
| Carbofuran | N.D. | 0.040 |
| Chlordane | N.D. | 0.002 |
| Dalapon | N.D. | 0.20 |
| Dibromochloropropane (DBCP) | N.D. | 0.0002 |
| Di (2-Ethylhexyl) Adipate | N.D. | 0.40 |
| Di (2-Ethylhexyl) Phthalate | N.D. | 0.006 |
| Dioxin | N.D. | 0.00000003 |
| Dinoseb | N.D. | 0.007 |
| Diquat | N.D. | 0.02 |
| Endothall | N.D. | 0.10 |
| Endrin | N.D. | 0.002 |
| Ethylene Dibromide (EDB) | N.D. | 0.00005 |
| Glyphosphate | N.D. | 0.70 |
| Heptachlor | N.D. | 0.0004 |
| Heptachlor Epoxide | N.D. | 0.0002 |
| Hexachlorobenzene | N.D. | 0.001 |
| Hexachlorocyclopentadiene | N.D. | 0.05 |
| Lindane | N.D. | 0.0002 |
| Methoxychlor | N.D. | 0.04 |
| Oxymal | N.D. | 0.20 |
| PCB's | N.D. | 0.0005 |
| Pentachlorophenol | N.D. | 0.001 |
| Piclorem | N.D. | 0.50 |
| Simazine | N.D. | 0.004 |
| Toxaphene | N.D. | 0.003 |
| 2,4-D | N.D. | 0.07 |
| 2,4,5TP (Silvex) | N.D. | 0.05 |

| <u>PARAMETER</u> | <u>SAMPLE</u> | <u>WATER STANDARDS</u> |
|--|---------------|------------------------|
| Haloacetic Acids (Results in PPB)² | | |
| First Quarter 2022 | 19.94 | 60 |
| Second Quarter 2022 | 32.05 | 60 |
| Third Quarter 2022 | 29.59 | 60 |
| Fourth Quarter 2022 | 23.38 | 60 |
| Total Trihalomethanes (Results in PPB)² | | |
| First Quarter 2022 | 17.71 | 80 |
| Second Quarter 2022 | 35.73 | 80 |
| Third Quarter 2022 | 51.75 | 80 |
| Fourth Quarter 2022 | 26.90 | 80 |
| Radiological Characteristics (Results in pCi/L)³ | | |
| Gross Alpha | N.D. | <15.0 |
| Radium-226 | N.D. | <5.0 |
| Radium-228 | N.D. | <5.0 |
| Uranium | N.D. | <30.0 |
| Microbiological (Results in units)⁵ | | |
| Coliform Bacteria (% of positive samples) ⁵ | < 0.2% | 5.00% |
| Number of Acute Violations | 0 | 0 |
| Regulated Volatile Organic Chemicals (Results in PPM)¹ | | |
| Benzene | N.D. | 0.005 |
| Carbon Tetrachloride | N.D. | 0.005 |
| Chlorobenzene | N.D. | 0.10 |
| 1,2-Dichloroethane | N.D. | 0.005 |
| o-Dichlorobenzene | N.D. | 0.60 |
| p-Dichlorobenzene | N.D. | 0.075 |
| 1,1-Dichloroethylene | N.D. | 0.007 |
| cis-1,2-Dichloroethylene | N.D. | 0.07 |
| trans-1,2-Dichloroethylene | N.D. | 0.10 |
| Dichloromethane | N.D. | 0.005 |
| 1,2-Dichloropropane | N.D. | 0.005 |
| Ethylbenzene | N.D. | 0.70 |
| Styrene | N.D. | 0.10 |
| Tetrachloroethylene | N.D. | 0.005 |
| Toluene | N.D. | 1.0 |
| 1,2,4-Trichlorobenzene | N.D. | 0.07 |
| 1,1,1-Trichloroethane | N.D. | 0.20 |
| 1,1,2-Trichloroethane | N.D. | 0.005 |
| Trichloroethylene | N.D. | 0.005 |
| Vinyl Chloride | N.D. | 0.002 |
| Xylenes (Total) | N.D. | 10.0 |

PARAMETERSAMPLEWATER STANDARDS**Unregulated Contaminant Monitoring (Results in PPB)² UCMR Round #4, thru 3rd qtr. 2020**

| Entry Point | | |
|--|---------|----|
| Anatoxin-a | <0.0300 | * |
| Cylindrospermopsin | <0.0900 | * |
| Total Microcystin | <0.300 | * |
| Manganese | 2.82 | 50 |
| Germanium | <0.1 | * |
| Chlorpyrifos | <0.01 | * |
| Total permethrin | <0.013 | * |
| Alpha-hexachlorocyclohexane | <0.0033 | * |
| Dimethipin | <0.067 | * |
| Oxyfluorfen | <0.017 | * |
| Profenofos | <0.1 | * |
| Tebuconazole | <0.067 | * |
| Tribufos | <0.023 | * |
| Ethoprop | <0.01 | * |
| Butylated hydroxyanisole | <0.01 | * |
| o-toluidine | <0.0023 | * |
| Quinoline | <0.0067 | * |
| 1-butanol | <0.67 | * |
| 2-methoxyethanol | <0.13 | * |
| 2-propen-1-ol | <0.17 | * |
| Customer Tap | | |
| HAA5 | 26.929 | * |
| HAA6Br | 5.501 | * |
| HAA9 | 32.013 | * |
| Raw Water (Result in PPM) ¹ | | |
| Bromide | 0.0418 | * |
| Total Organic Carbon | 2.33 | * |

Secondary Inorganics (Results in PPM)¹

| | | |
|------------------------------|--------------------------------------|-------------|
| Alkalinity | 48.7 | * |
| Aluminum | N.D. | 0.05 - 0.20 |
| Calcium | 21.4 | * |
| Chloride | 26.9 | 250 |
| Conductivity | 278 | * |
| Color | 0 | 15 |
| Copper (customer tap) | 0.047 (90th percentile) ⁴ | 1.3 |
| Copper (distribution system) | N.D. | 1 |
| Corrosivity (Langlier Index) | 0.1 | * |
| Hardness | 74 | * |
| Total Iron | 0.06 | 0.3 |
| Lead (distribution system) | N.D. | 0.005 |
| Magnesium | 6.1 | * |
| Manganese | 0.02 | 0.05 |
| Total Phosphorus | N.D. | * |
| pH Value | 8.6 | 7.4 - 9.0 |
| Silver | N.D. | 0.1 |
| Sodium | 16.8 | * |
| Sulfate | 19.6 | 250 |
| Foaming Agents (MBAS) | N.D. | 0.5 |
| Total Dissolved Solids | 178 | 500 |
| Zinc | N.D. | 5 |

> Greater than

< Less than

N.D. Not detected

* No EPA/DEP Standard at present time

¹ Part per million = 1 milligram per liter

² Part per billion = 1 microgram per liter

³ pCi/L = 1 picocurie per liter = 1-trillionth of a curie per liter

⁴ Action level = 90% of tier 1 customer tap samples must meet the stated action levels for lead and copper.

- Lead Action Level at customer tap after minimum 6 hr. residence, 90th percentile sample >0.015 mg/L.

- Copper Action Level at customer tap after minimum 6 hr. residence, 90th percentile sample >1.300 mg/L.

⁵ Based on 1,441 distribution tap samples collected during 2022. (DEP requires 1,440).