



## COMPREHENSIVE WATER ANALYSIS 2018

<u>PARAMETER</u>	<u>YWC Sample</u>	<u>EPA/DEP DRINKING WATER STANDARDS</u>
<b>Primary Inorganics (Results in PPM)<sup>1</sup></b>		
Antimony	<0.000500	0.006
Arsenic	<0.000500	0.01
Asbestos	N.D.	< 7 MFL
Barium	0.02	2
Beryllium	<0.000300	0.004
Cadmium	<0.000500	0.005
Chromium	<0.00200	0.1
Cyanide (total)	<0.0100	0.2
Fluoride	<0.100	2
Lead (customer tap)	0.0083 (90th percentile) <sup>4</sup>	0.015
Mercury	<0.0001	0.002
Nickel	<0.00139	0.1
Nitrate Nitrogen	4.1	10
Nitrite Nitrogen	N.D.	1
Total Nitrate & Nitrite	4.1	10
Selenium	<0.00300	0.05
Thallium	<0.000500	0.002
Turbidity	0.03	0.3
<b>Herbicides/Pesticides/SOC's (Results in PPM)<sup>1</sup></b>		
Alachlor	N.D.	0.002
Atrazine	N.D.	0.003
Benzo (a) Pyrene	N.D.	0.0002
Carbofuran	N.D.	0.04
Chlordane	N.D.	0.002
Dalapon	N.D.	0.20
Dibromochloropropane (DBCP)	N.D.	0.0002
Di (2-Ethylhexyl) Adipate	N.D.	0.4
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.	0.1
Endrin	N.D.	0.002
Ethylene Dibromide (EDB)	N.D.	0.00005
Glyphosphate	N.D.	0.7
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.	0.2
PCB's	N.D.	0.0005
Pentachlorophenol	N.D.	0.001
Piclorem	N.D.	0.5
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>
<b>Haloacetic Acids (Results in PPB)<sup>2</sup></b>		
First Quarter 2018	17.68	60
Second Quarter 2018	22.43	60
Third Quarter 2018	28.95	60
Fourth Quarter 2018	17.24	60
<b>Total Trihalomethanes (Results in PPB)<sup>2</sup></b>		
First Quarter 2018	15.88	80
Second Quarter 2018	25.7	80
Third Quarter 2018	28.81	80
Fourth Quarter 2018	22.24	80
<b>Radiological Characteristics (Results in pCi/L)<sup>3</sup></b>		
Gross Alpha	0.1 (±1.3)	<15.0
Gross Beta	1.3 (±2.5)	<50.0
Radium-226	0.1 (±0.06)	<5.0
Radium-228	0.2 (±0.7)	<5.0
Uranium	0.9	<30.0
<b>Microbiological (Results in units)<sup>5</sup></b>		
Coliform Bacteria (% of positive samples) <sup>5</sup>	< 0.1%	5.00%
Number of Acute Violations	0	0
Heterotrophic Plate Count (Bac/ml.) <sup>5</sup>	0.64	500
<b>Regulated Volatile Organic Chemicals (Results in PPM)<sup>1</sup></b>		
Benzene	N.D.	0.005
Carbon Tetrachloride	N.D.	0.005
Chlorobenzene	N.D.	0.1
1,2-Dichloroethane	N.D.	0.005
o-Dichlorobenzene	N.D.	0.6
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.	0.1
Dichloromethane	N.D.	0.005
1,2-Dichloropropane	N.D.	0.005
Ethylbenzene	N.D.	0.7
Styrene	N.D.	0.1
Tetrachloroethylene	N.D.	0.005
Toluene	N.D.	1
1,2,4-Trichlorobenzene	N.D.	0.07
1,1,1-Trichloroethane	N.D.	0.2
1,1,2-Trichloroethane	N.D.	0.005
Trichloroethylene	N.D.	0.005
Vinyl Chloride	N.D.	0.002
Xylenes (Total)	N.D.	10

<u>PARAMETER</u>	<u>SAMPLE</u>	<u>WATER STANDARDS</u>
<b>Unregulated Contaminant Monitoring (Results in PPB)<sup>2</sup></b>		
Customer Tap		
Chromium (Total)	<0.2	*
Cobalt	<1	*
Molybdenum	<1	*
Strontium	64	*
Vanadium	<0.2	*
Chromium-6	0.09	*
Chlorate	166	*
Entry Point		
Androstene	<0.0003	*
Equilin	<0.004	*
Estradiol	<0.0004	*
Estriol	<0.0008	*
Estrone	<0.002	*
Ethynylestradiol	<0.0009	*
Testosterone	<0.0001	*
Chromium (Total)	<0.2	*
Cobalt	<1	*
Molybdenum	<1	*
Strontium	57.5	*
Vanadium	0.22	*
Chromium-6	0.095	*
Chlorate	209	*
1,4-dioxane	<0.07	*
1,1-dichloroethane	<0.03	*
1,2,3- trichloropropane	<0.03	*
1,3-butadiene	<0.1	*
Bromochloromethane	<0.06	*
Bromomethane	<0.2	*
Chlorodifluoromethane	<0.08	*
Chloromethane	<0.2	*
PFBS	<0.09	*
PFHpA	<0.01	*
PFHxS	<0.03	*
PHNA	<0.02	*
PFOA	<0.02	*
PFOS	<0.04	*
<b>Secondary Inorganics (Results in PPM)<sup>1</sup></b>		
Alkalinity	48	*
Aluminum	N.D.	0.05 – 0.20
Calcium	22.1	*
Chloride	31	250
Conductivity	202.9	*
Color	0	15
Copper (customer tap)	0.054 (90th percentile) <sup>4</sup>	1.3
Copper (distribution system)	N.D.	1
Corrosivity (Langlier Index)	0.2	*
Hardness	90	*
Total Iron	0.023	0.3
Lead (distribution system)	N.D.	0.005
Magnesium	6.6	*
Manganese	0.015	0.05
Total Phosphorus	N.D.	*
pH Value	8.76	7.4 - 9.0
Silver	N.D.	0.1

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<b>Secondary Inorganics (Results in PPM)<sup>1</sup></b>		
Sodium	16.8	20
Sulfate	23.8	250
Foaming Agents (MBAS)	N.D.	0.5
Total Dissolved Solids	136	500
Zinc	N.D.	5

> Greater than

< Less than

N.D. Not detected

\* No EPA/DEP Standard at present time

<sup>1</sup> Part per million = 1 milligram per liter

<sup>2</sup> Part per billion = 1 microgram per liter

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

<sup>4</sup> 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, 90<sup>th</sup> percentile sample >0.015 mg/L.

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

<sup>5</sup> Based on 1,440 distribution tap samples collected during 2018.

(DEP requires 1,440).