Revised: 1/11/2022

COMPREHENSIVE WATER ANALYSIS 2021

PARAMETER	YWC Sample	EPA/DEP DRINKING WATER STANDARDS
Primary Inorganics (Results in PPM)[1]		
Antimony	<0.000500	0.006
Arsenic	<0.000500	0.010
Asbestos	N.D.	< 7 MFL
Barium	0.02	2.00
Beryllium	<0.000300	0.004
Cadmium	<0.000500	0.005
Chromium	<0.00200	0.100
Cyanide (total)	<0.0100	0.200
Fluoride	<0.100	2.00
Lead (customer tap)	0.0035 (90th percentile) [4]	0.015
Mercury	<0.0001	0.002
Nickel	<0.00139	0.100
Nitrate Nitrogen	3.8	10.0
Nitrite Nitrogen	N.D.	1.00
Total Nitrate & Nitrite	3.8	10.0
Selenium	<0.00300	0.050
Thallium	<0.000500	0.002
Turbidity	0.035	0.30
Herbicides/Pesticides/SOC's (Results in PPM)[1]		
Alachlor	N.D.	0.002
Atrazine	0.00033	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

PARAMETER	SAMPLE	WATER STANDARDS
Haloacetic Acids (Results in PPB)[2]		
First Quarter 2021	13.19	60
Second Quarter 2021	21.66	60
Third Quarter 2021	22.39	60
Fourth Quarter 2021	17.78	60
Total Trihalomethanes (Results in PPB)[2]		
First Quarter 2021	15.86	80
Second Quarter 2021	25.31	80
Third Quarter 2021	37.76	80
Fourth Quarter 2021	23.31	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]	< 0.1%	5.00%
Number of Acute Violations	0	0
Heterotrophic Plate Count (Bac/ml.) [6]	0.07	*(previously 500)
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

PARAMETER	SAMPLE	WATER 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	2.117	*
Secondary Inorganics (Results in PPM)[1]		
Alkalinity	52	*
Aluminum	0.11	0.05 - 0.20
Calcium	21.3	*
Chloride	34.2	250
Conductivity	249.92	*
Color	0	15
Copper (customer tap)	0.029 (90th percentile)[4]	1.3
Copper (distribution system)	N.D.	1
Corrosivity (Langlier Index)	0.1	*
Hardness	89	*
Total Iron	0.02	0.3
Lead (distribution system)	N.D.	0.005
Magnesium	6.3	*
Manganese	0.01	0.05
Total Phosphorus	0.19	*
pH Value	8.5	7.4 - 9.0
Silver	N.D.	0.1
Sodium	17.8	*
Sulfate	21	250
Foaming Agents (MBAS)	N.D.	0.5
Total Dissolved Solids	160	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, 90^{th} percentile sample >0.015 mg/L.
- Copper Action Level at customer tap after minimum 6 hr. residence, 90^{th} percentile sample >1.300 mg/L.

[5] Based on 1,440 distribution tap samples collected during 2021. (DEP requires 1,440).

[6] Based on 1,094 distribution tap samples collected during 2021.