

Oklahoma City Utilities - Water Quality Summary 2016

DETECTED CONTAMINANTS	UNITS	IDEAL GOAL (EPA'S MCLG)	HIGHEST LEVEL ALLOWED (EPA'S MCL)	HEFNER WTP PWS ID 1020902	DRAPER WTP PWS ID 1020902B	OVERHOLSER WTP PWS ID 1020902C	COMPLIANCE	MAJOR SOURCES IN DRINKING WATER
Inorganic Compounds								
Fluoride ¹	ppm	4	4	Average level detected in most recent testing - 2016			YES	Added during treatment for dental health or dissolved from natural deposits
				0.61	0.69	0.67		
Lead	ppb	0	AL = 15	Most recent systemwide distribution testing			All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
				June/July 2015 - 90th Percentile = <5.0				
Barium	ppm	2	2	Highest level, most recent testing - 2013			YES	Discharge of Drilling Wastes; discharge from metal refineries; erosion of natural deposits
				0.052	0.057	0.032		
Copper	ppm	0	AL = 1.3	Most recent systemwide distribution testing			All Sites < AL YES	Corrosion of household plumbing; erosion of natural deposits
				June/July 2015 - 90th Percentile = 0.079				
Arsenic	ppb	0	10	Highest level, most recent testing - 2013			YES	Erosion of natural deposits; runoff from orchards; runoff from electronics and glass production wastes
				<2	<2	<2		
Nitrate-Nitrite ²	ppm	10	10	Highest level, most recent testing - 2016			YES	Runoff from fertilizer; leaching from septic tanks, sewage or erosion of natural deposits
				0.366	0.109	0.231		
Radiological								
Gross Alpha Gross Beta Radium 226 + 228 Uranium	pCi/L pCi/L pCi/L ppb	0 0 0 0	15 50 5 30	Range detected in most recent testing - 2012			YES	Decay of natural and man-made deposits
				<2.229	<0.4744	<2.373		
				6.784	2.611	6.824		
				<0.545	<0.495	0.980		
				<1	<1	<1		
Disinfection By-Products Stage 2 Rule Monitoring³								
Total Trihalomethanes ⁴	ppb	0	80 (LRAA)	Most recent systemwide distribution testing 2015/2016			YES	By-product of drinking water disinfection
				Highest Locational Running Annual Average (LRAA)				
				2840 SW 59th St (Draper) - 71.50				
				Range Detected: 4.17 - 78.01				
				Highest quarterly average (LRAA)				
				17.96	71.50	64.66		
				Range detected				
4.17 - 19.43	5.29 - 77.07	21.58 - 78.01						
Haloacetic Acids ⁴	ppb	0	60 (LRAA)	Most recent systemwide distribution testing 2015/2016			YES	By-product of drinking water disinfection
				Highest Locational Running Annual Average (LRAA)				
				12716 NE 36th St (Draper) - 43.15				
				Range Detected: 1.67 - 48.10				
				Highest quarterly average (LRAA)				
				8.49	43.15	33.05		
				Range detected				
1.67 - 5.89	2.09 - 48.10	14.10 - 41.70						
Bromate ⁵	ppb	0	10 (RAA)	Highest quarterly average (RAA) - 2.89			YES	By-product of disinfection by ozone Only Hefner Plant uses Ozone
				Range detected - <8.75 - 40.5				
Precursor Removal								
Total Organic Carbon ⁶ (TOC)			TT = Ratio must be greater than or equal to 1.00 for compliance	Average of monthly ratios			YES	Naturally occurring
				1.89	0.406	1.62		
				Monthly Ratio = (% TOC removed) divided by (% TOC removal required)				
Disinfection Residual								
Chloramines Chlorine ⁷	as ppm	NA	MRDL 4.0	Average readings			YES	Water additive used to control microbes
				3.66	3.37	3.45		
				Range detected 2.10 - 5.00 1.20 - 3.80 1.07 - 4.40				
Microbiological								
Coliform Bacteria	CFUs % positive	0	Presence of Coliform bacteria in <5% of samples	2016 System-wide distribution testing			YES	Naturally present in the environment - No Fecal Coliforms or E. Coli in 3286 tests in 2016.
				Month having the highest % positive - October (2 positive in 262 samples - 0.763 %) Two positive Coliform results in 3286 samples (0.061 % occurrence)				
Clarity								
Turbidity ⁸	NTU % > 0.3	NA	TT = > 0.3 NTU in not more than 5% of samples	Lowest monthly % of samples with < 0.3 NTU			YES	Lime and/or calcium carbonate particles from softening efforts; soil runoff
				100.0%	99.5%	98.9%		
				Highest single reading 0.25 0.74 1.06				
Long Term 2 Enhanced Surface Water Treatment Rule								
Cryptosporidium ⁹	cysts/L	0	NA	All source waters tested were non-detect.			YES	Storm runoff, agricultural runoff and leaking sewage systems
Detected UCMR3 Analytes (2013)¹⁰								
				Average	Range	More Info		
Chlorate	ppb	NA	NA	36.4	<20.0 - 36.4	1 of 12 samples >20.0	NA	By-product of drinking water disinfection, making of dyes, explosives, matches, printing fabrics, herbicides, antiseptics, toothpastes and in paper pulp processing.
Hexavalent Chromium	ppb	NA	NA	0.141	<0.030 - 0.391	11 of 12 samples >0.030	NA	Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.
Total Chromium	ppb	100 (0.100 mg/L)	100 (0.100 mg/L)	0.428	<0.200 - 0.471	2 of 12 samples >0.200	YES	Naturally occurring. By-product of making steel and other alloys, plating, dyes and pigments, leather and wood preservation.
Molybdenum	ppb	NA	NA	2.76	<1.00 - 3.24	6 of 12 samples >1.00	NA	Naturally occurring. By-product of making steel and other alloys, lubricants, dyes and pigments, fertilizers.
Strontium	ppb	NA	NA	295	42.9 - 763	12 of 12 samples >3.00	NA	Naturally occurring. By-product of making electronics and fireworks.
Vanadium	ppb	NA	NA	2.78	<0.200 - 7.50	11 of 12 samples >0.200	NA	Naturally occurring. By-product of making steel alloys, chemical manufacturing, ceramics and batteries.