2014 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Distribution Water Quality *(unless otherwise noted)*

Samples Collected: May 13, 2014 *(unless otherwise noted)*

Cedar Distribution = South of the ship canal & lower elevations North of ship canal. Tolt Distribution = Higher elevations North of the ship canal.

Water Quality Parameter	State Dept. of Health Maximum Contaminant Level	CEDAR	TOLT	Minimum Reporting Level
Primary Standards *	**MCL**			
Antimony	6 µg/L	ND	ND	0.8
Arsenic	10 µg/L	ND	ND	0.5
Asbestos $	7 million fibers/L (>10um long)	ND (2009)	ND (2009)	0.2
Barium	2000 µg/L	1.4	1.2	0.2
Beryllium	4 µg/L	ND	ND	0.2
Bromate #	10 µg/L	ND (5/07/14)	ND(5/13/14)	5.0
Cadmium	5 µg/L	ND	ND	0.2
Chromium	100 µg/L	ND	ND	0.5
Cyanide	200 µg/L	ND	ND	10
Fluoride	4 mg/L	0.79	0.77	0.10
Haloacetic Acids(5), Total~	60 µg/L	28	33	1.0
Mercury	2 µg/L	ND	ND	0.2
Nickel	100 µg/L	ND	ND	0.5
Nitrate-Nitrogen	10 mg/L	0.02	0.11	0.01
Nitrite-Nitrogen	1 mg/L	ND	ND	0.002
Selenium	50 µg/L	ND	ND	0.8
Thallium	2 µg/L	ND	ND	0.2
Trihalomethanes, Total~	80 µg/L	28	29	0.5
Turbidity #	5 NTU for Cedar/ 0.30 NTU for Tolt	0.66	0.12	0.1
Uranium	30 µg/L	ND	ND	0.2
Secondary Standards **	**SMCL**			
Aluminum	50 - 200 µg/L	16.9	31.1	1.0
Chloride	250 mg/L	3.5	2.8	0.5
Color	15 std. units	ND	ND	5
Fluoride	2 mg/L	0.79	0.77	0.10
Iron	300 µg/L	42	38	6
Manganese	50 µg/L	2.0	2.6	0.5
pH, 2013 range ++	6.5 - 8.5 pH units, Target 8.2	7.82 - 8.35	8.16 - 8.61	NA
Silver	100 µg/L	ND	ND	0.8
Solids,Total Dissolved	500 mg/L	38.3	37.8	5.0
Specific Conductance	700 µmhos/cm	55.8	57.7	5.0
Sulfate	250 mg/L	1.2	1.6	1.0
Zinc	5000 µg/L	ND	1.0	0.8
Other Parameters	**Units**			
Alkalinity, Total	mg/L (as $CaCO_3$)	18.1	20.3	2.0
Bromide	µg/L	ND	ND	5
Calcium	mg/L (as $CaCO_3$)	19.4	24.9	2.0
Copper, Source water	µg/L	0.9	ND	0.5
Hardness, Total	mg/L (as $CaCO_3$)	21.8	25.6	2.0
Hardness, Total	grains/gal. (as $CaCO_3$)	1.3	1.5	0.1
Lead, Source water	µg/L	ND	ND	0.5
Magnesium	mg/L	0.90	0.36	0.01
Combined Nitrate + Nitrite	mg/L	ND	0.10	0.01
Oxygen, Dissolved	mg/L	12.9	19.4	0.5
Phosphate, soluable-reactive	µg/L	1	ND	1
Potassium	mg/L	0.23	0.10	0.02
Silica, Reactive	mg/L	6.2	5.3	1.0
Sodium	mg/L	1.77	0.85	0.08
Temperature, 2013 annual range	deg. C.	6 - 24	4 - 21	NA
Thorium	µg/L	ND	ND	0.5
Total Organic Carbon #	mg/L	0.91	0.98	0.2
Vanadium	ug/L	0.6	0.5	0.5
Reduced Monitoring Residential Survey @	**Action Level**	**Combined System**		
2013 Lead	15 µg/L	3.0		1.0
2013 Copper	1300 µg/L	104		1.0

Primary and Secondary Standards were measured at the Intake to the distribution system after treatment.

* Health stds.: Supplier subject to public notification.

** Aesthetic stds.: Supplier not subject to public notification.

~ Average of the last 4 quarters testing, through 6/14.

ND = Not Detected at or above the Minimum Reporting Level

++ January-Dec 2013, 10-90th percentile

$ Test results 9/2/2009.

As measured at treatment plant.

1 ppm = 1 mg/L = 1000 µg/L

@ Measured at 90th percentile of overnight standing residential samples from homes with copper pipes and lead solder. Next round 9/2016.

Seattle Public Utilities Water Quality Laboratory, 800 S. Stacy St., Seattle 98134 (206) 684-7834

http://www.seattle.gov/util/MyServices/Water/Water_Quality/WaterQualityAnalyses/index.htm