

2013 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Distribution Water Quality *(unless otherwise noted)*
 Samples Collected: May 14, 2013 *(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	1.8	1.9	0.2
Beryllium	4 µg/L	ND	ND	0.2
Bromate #	10 µg/L	ND (5/03/13)	ND(5/15/13)	1.0
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	0.76	0.78	0.10
Haloacetic Acids(5), Total~	60 µg/L	30	31	1.0
Mercury	2 µg/L	ND	ND	0.2
Nickel	100 µg/L	ND	ND	0.5
Nitrate-Nitrogen	10 mg/L	ND	ND	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	30	29	0.5
Turbidity #	5 NTU for Cedar/ 0.30 NTU for Tolt	0.49	0.21	0.05
Secondary Standards **				SMCL
Aluminum	50 - 200 µg/L	25.0	38.0	1.0
Chloride	250 mg/L	3.2	2.8	0.5
Color	15 std. units	ND	ND	5
Fluoride	2 mg/L	0.76	0.78	0.10
Iron	300 µg/L	61	43	6
Manganese	50 µg/L	2.4	2.2	0.5
pH, range ++	6.5 - 8.5 pH units, Target 8.2	7.66 - 8.24	8.12 - 8.57	NA
Silver	100 µg/L	ND	ND	0.8
Solids, Total Dissolved	500 mg/L	38.3	38.5	5.0
Specific Conductance	700 µmhos/cm	52.6	55.4	5.0
Sulfate	250 mg/L	2.9	2.8	1.0
Zinc	5000 µg/L	ND	ND	0.8
Other Parameters				Units
Alkalinity, Total	mg/L (as CaCO ₃)	18.8	20.5	2.0
Bromide	µg/L	ND	ND	5
Calcium	mg/L (as CaCO ₃)	21.0	26.0	2.0
Copper, Source water	µg/L	0.5	0.6	0.5
Hardness, Total	mg/L (as CaCO ₃)	23.5	27.3	2.0
Hardness, Total	grains/gal. (as CaCO ₃)	1.4	1.6	0.1
Lead, Source water	µg/L	ND	ND	0.5
Magnesium	mg/L	0.67	0.35	0.01
Oxygen, Dissolved	mg/L	12.4	17.9	0.5
Phosphate, soluble-reactive	µg/L	4	ND	1
Potassium	mg/L	0.20	0.12	0.02
Silica, Reactive	mg/L	9.3	5.2	1.0
Sodium	mg/L	1.65	1.02	0.08
Temperature, 2012 annual range	deg. C.	5 - 24	5 - 21	NA
Total Organic Carbon #	mg/L	0.93	0.97	0.20
Residential Survey @		Action Level	Combined System	
2010 Lead Reduced Monitoring	15 µg/L	5.1		1.0
2010 Copper Reduced Monitoring	1300 µg/L	135		1.0

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

* Health stds.: Supplier subject to public notification.

++ January-July 2012, 10-90th percentile

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

\$ Test results 9/2/2009.

~ Average of the last 4 quarters testing, through 6/13.

As measured at treatment plant.

ND = Not Detected at or above the Minimum Reporting Level

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 9/2013.

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