Token Creek at Portage Rd

Road Salt Monitoring Data Summary February – December 2011



Photo courtesy of Jim Beecher

Volunteers: Christina and Ian Anderson

Specific conductance summary:

8 measurements taken

Minimum: 530 μS/cm on 2/18/2011
Maximum: 770 μS/cm on 2/13/2011

Mean: 685 μS/cm

Chloride (Cl⁻) summary:

6 samples collected

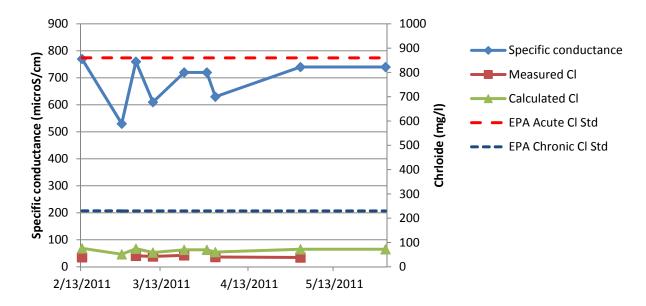
Minimum: 38.1 mg/L 9/30/2011Maximum: 47.1 mg/L 3/28/2011

Mean: 42 mg/L

EPA Acute and Chronic Exceedences for Chloride¹:

Neither the EPA acute nor chronic chloride standards were exceeded at this site based on volunteer monitoring in 2011.

Results Over Time²:



¹ EPA acute chloride standard: The one-hour average concentration should not exceed 860 mg/L more than once every three years. EPA chronic chloride standard: The four day average concentration should not exceed 230 mg/L more than once every three years on average. Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

² Two regression equations calculated based on specific conductance and chloride data collected from the Madison and Milwaukee areas collectively. The equation used when specific conductance >1540 μS/cm was Cl = 0.3441 * SC − 291, adjR² = 0.98; and when specific conductance ≤ 1540 μS/cm was Cl = 1.044 * (exp(0.001609 * SC + 3.046)), adj R² = 0.65.