Badger Mill Creek at Bruce Street

Road Salt Monitoring Data Summary December 2011 – June 2014¹



Photo courtesy of Jim Beecher

Volunteer: Bill Keen

Specific conductance summary:

• 11 measurements taken

Minimum: 850 μS/cm on 2/29/2012
 Maximum: 1827 μS/cm on 6/7/2012

Mean: 1303 μS/cm

Chloride (Cl⁻) summary:

9 samples collected

Minimum: 193 mg/L on 12/16/2011
Maximum: 403 mg/L on 1/28/2013

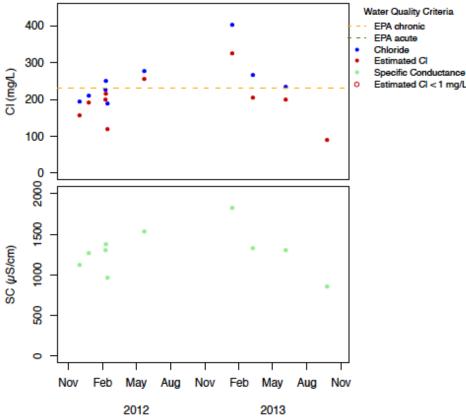
Mean: 258 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site. However, this monitoring revealed that the EPA chronic chloride standard of 230 mg/L has been exceeded. In addition to exceedences able to be observed on the graph below, the following exceedences was measured:

o 259 mg/L on 6/11/2014

Results Through December 2013³:



¹ All data in SWIMS as of 8/26/2014 were downloaded

² Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

 $^{^{3}}$ Calculated chloride: CI = 0.242 * SC – 115.2, adjR 2 = 0.8, except when SC >2250, then CI = 0.346 * SC – 309.8, adjR 2 = 0.97