Root River at Grange Ave

Road Salt Monitoring Data Summary February 2011 – March 2014¹



Photo courtesy of Jim Beecher

Volunteer: Kevin Hensiak **Specific conductance summary:**

47 measurements taken

• Minimum: 510 μS/cm on 9/28/2011

Maximum: 12700 μS/cm on 2/27/2011

• Mean: 3149 μS/cm

Chloride (Cl⁻) summary:

11 samples collected

Minimum: 78.1 mg/L on 9/28/2011
Maximum: 4130 mg/L on 2/27/2011

Mean: 1398 mg/L

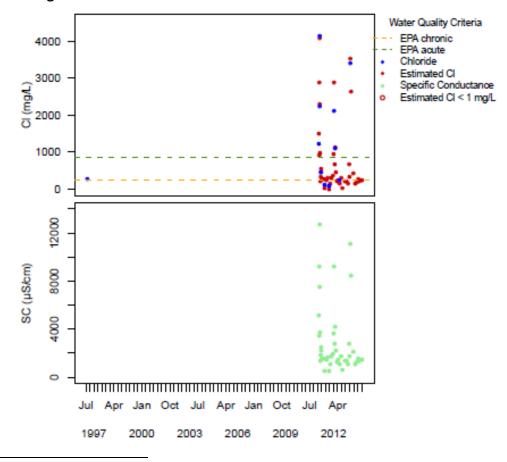
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded 14 times at this site, based on volunteer monitoring. These are shown on the graph below.

In addition, the EPA chronic chloride standard of 230 mg/L was exceeded 20 times. In addition to those exceedences shown on the graph below, the follow was predicted:

o 1074 mg/L on 3/14/2014 (calculated)

Results Through December 2013³⁴:



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 x SC-115.2 adjR 2 = 0.8, except when SC >2250, then CI = 0.346 * SC - 309.8, adjR 2 = 0.97

⁴ Note that the 1996 sample was collected by DNR previous to the current study.