Root River at Layton Ave

Road Salt Monitoring Data Summary
February 2011–December 2013[1]

Photo courtesy of Jim Beecher

Volunteer: Kevin Hensiak

Specific conductance summary:

- 43 measurements taken
- Minimum: 480 µS/cm on 7/31/2012
- Maximum: 12300 µS/cm on 1/28/2013
- Mean: 2859 µS/cm

Chloride (Cl^-) summary:

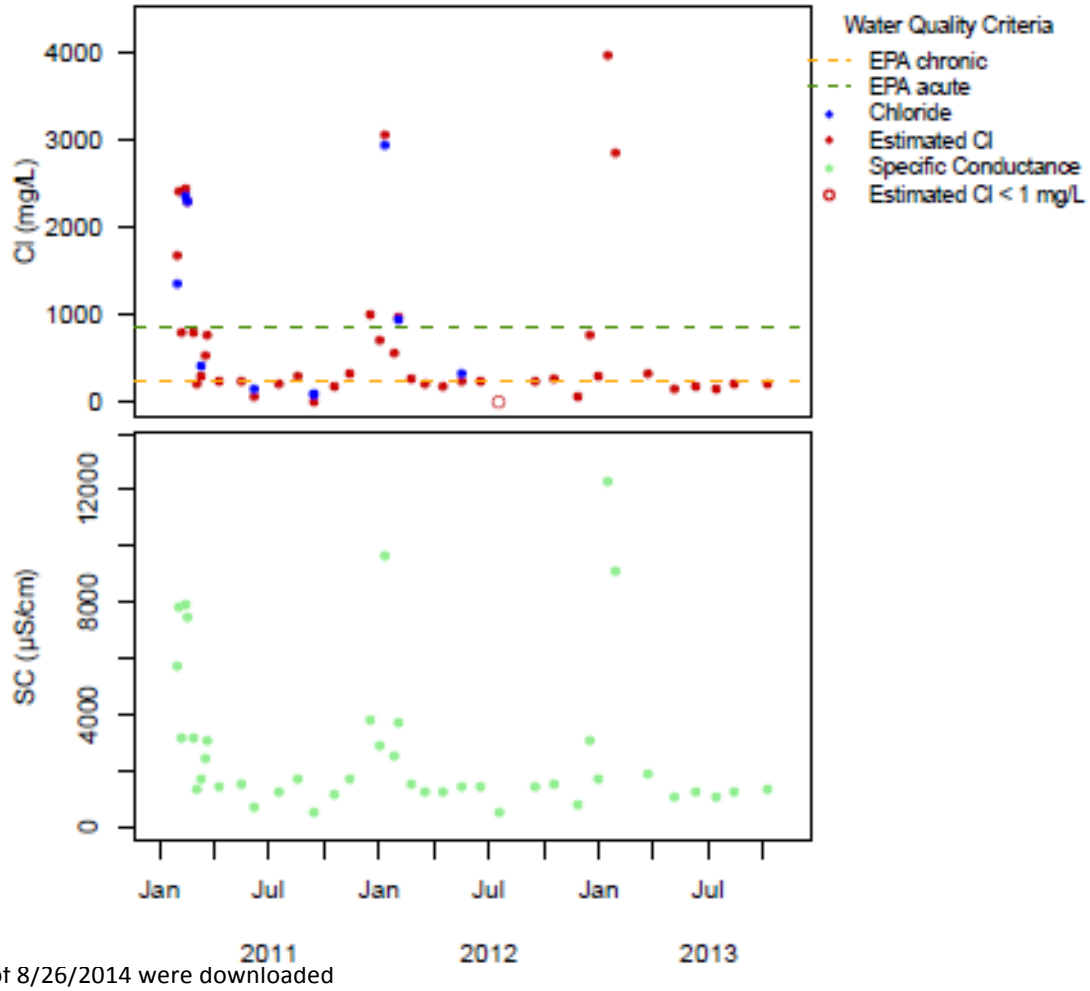
- 9 samples collected
- Minimum: 73.8 mg/L on 9/28/2011
- Maximum: 2930 mg/L on 1/23/2012
- Mean: 1198 mg/L

EPA Acute and Chronic Exceedences for Chloride[2]:

The EPA acute chloride standard of 860 mg/L was exceeded nine times based on volunteer monitoring efforts. These are shown on the graph below.

In addition, the EPA chronic chloride standard of 230 mg/L was predicted to have been exceeded 17 times at this site.

Results Through December 2013[3]:



[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: Cl = 0.242 x SC−115.2 adjR^2 = 0.8, except when SC >2250, then Cl = 0.346 * SC – 309.8, adjR^2 = 0.97