Galloway Creek at Red Cedar River

Road Salt Monitoring Data Summary
November 2012 – August 2014[1]

Photo by Lisa Ludwig

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Specific conductance summary:

- 69 measurements taken
- Minimum: 170 µS/cm on 4/29/2014
- Maximum: 6400 µS/cm on 2/11/2013
- Mean: 884 µS/cm

Chloride (Cl^-) summary:

- 7 samples collected
- Minimum: 19.4 mg/L on 4/10/2013
- Maximum: 1550 mg/L on 1/29/2013
- Mean: 517 mg/L

EPA Acute and Chronic Exceedences for Chloride[2]:

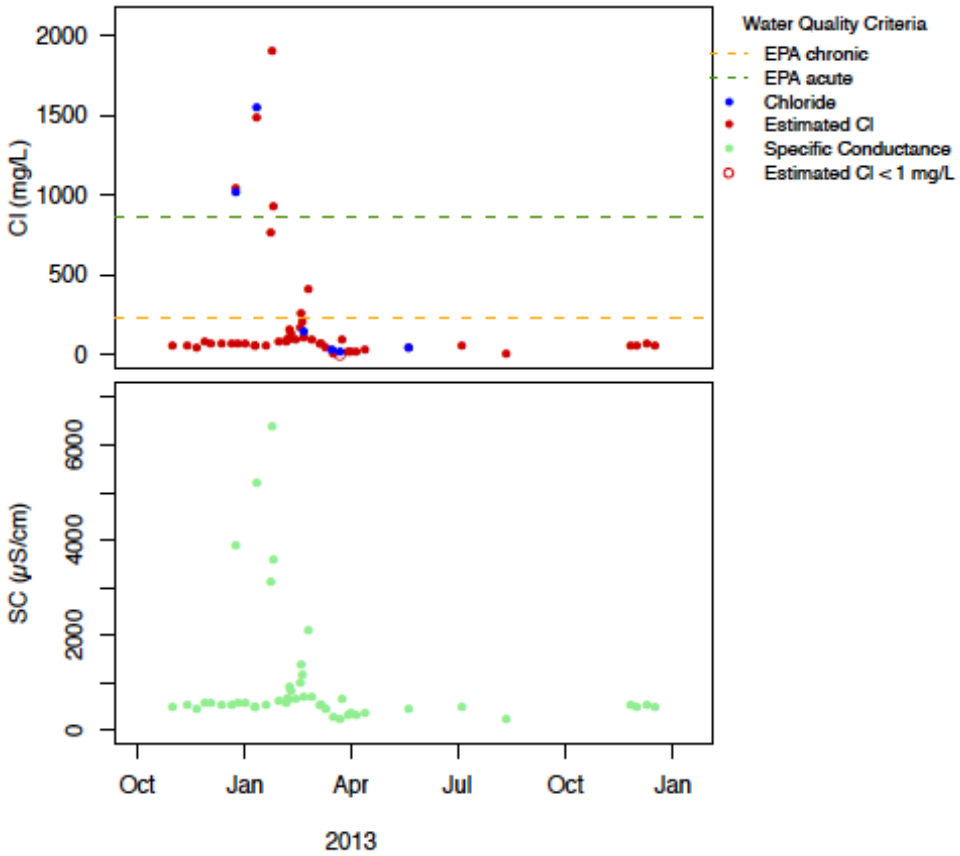
The EPA acute chloride standard of 860 mg/L was exceeded four times at this site:

- 1020 mg/L on 1/11/2013 (measured)
- 1905 mg/L on 2/11/2013 (calculated)
- 1550 mg/L on 1/29/2013 (measured)
- 936 mg/L on 2/12/2013 (calculated)

In addition, the EPA chronic chloride standard of 230 mg/L was exceeded six times at this site. The following exceedences were predicted in addition to those displayed on the graph below:

- 267 mg/L on 3/7/2014 (calculated)
- 763 mg/L on 3/10/2014 (calculated)

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 = 0.225 * SC – 52.3, adjR^2 = 0.74, except if S >2250, then Cl = 0.346 * SC – 309.8, adjR^2 = 0.97