

Pike River north of parking lot-Carthage College

Road Salt Monitoring Data Summary February 2012 – May 2013¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

Specific conductance summary:

- 23 measurements taken
- Minimum: 290 $\mu\text{S}/\text{cm}$ on 3/5/2012
- Maximum: 765 $\mu\text{S}/\text{cm}$ on 3/20/2013
- Mean: 691 $\mu\text{S}/\text{cm}$

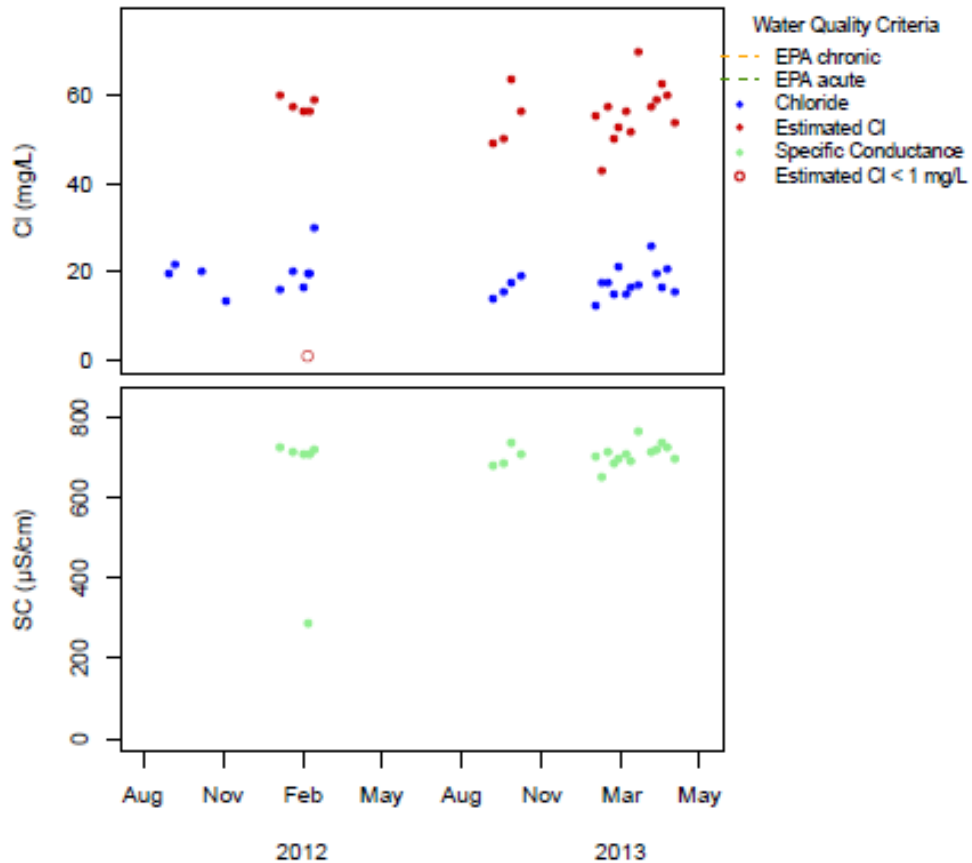
Chloride (Cl^-) summary:

- 27 samples collected
- Minimum: 12.2 mg/L on 1/30/2013
- Maximum: 29.9 mg/L on 3/12/2012
- Mean: 18 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

Neither the EPA acute chloride standard of 860 mg/L nor the chronic chloride standard of 230 mg/L have been exceeded at this site based on volunteer monitoring.

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: $\text{Cl} = 0.225 \times \text{SC} - 52.3$ $\text{adjR}^2 = 0.74$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 \times \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$