

Pike River at lakeshore adj. to Carthage College

Road Salt Monitoring Data Summary February 2012 – May 2014¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

Specific conductance summary:

- 36 measurements taken
- Minimum: 305 $\mu\text{S}/\text{cm}$ on 10/16/2012
- Maximum: 625 $\mu\text{S}/\text{cm}$ on 4/16/2013
- Mean: 387 $\mu\text{S}/\text{cm}$

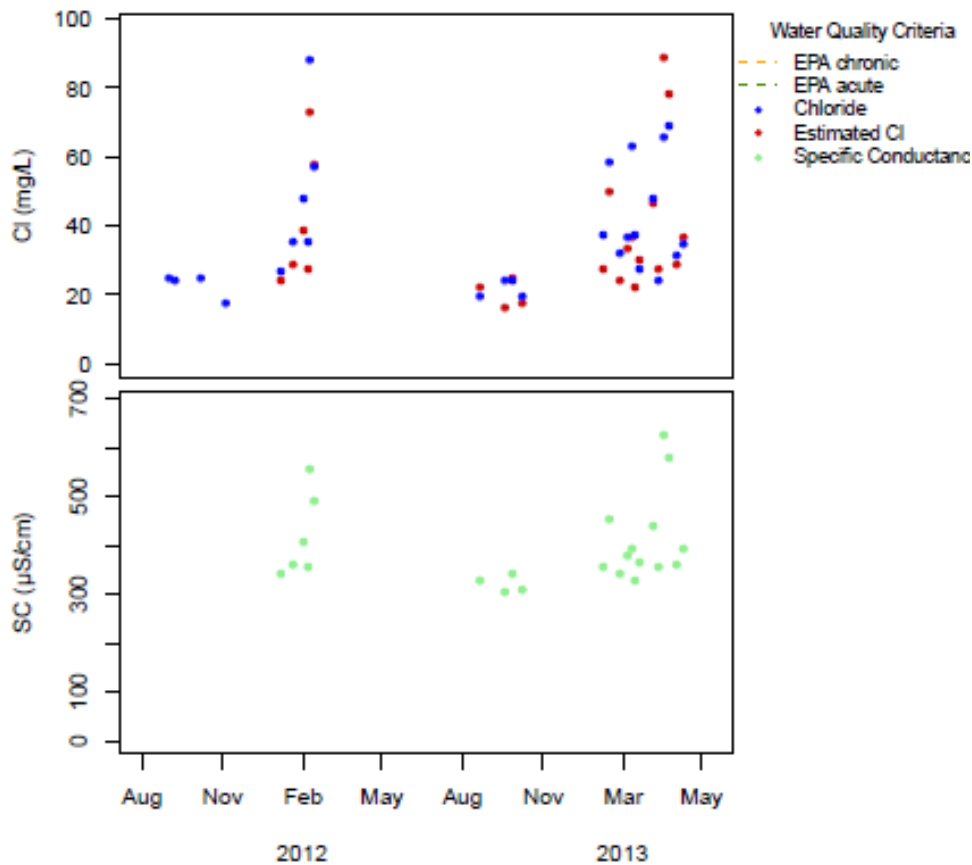
Chloride (Cl^-) summary:

- 36 samples collected
- Minimum: 15.75 mg/L on 10/1/2013
- Maximum: 91.97 mg/L on 4/10/2014
- Mean: 42.48 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 Over Time³:



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 $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$.