

Pike River at Lannon Terrace

Road Salt Monitoring Data Summary

February 2012 – April 2014¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

Specific conductance summary:

- 19 measurements taken
- Minimum: 540 $\mu\text{S}/\text{cm}$ on 3/11/2013
- Maximum: 1595 $\mu\text{S}/\text{cm}$ on 2/13/2013
- Mean: 1015 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 23 samples collected
- Minimum: 81 mg/L on 4/22/2013
- Maximum: 446 mg/L on 4/10/2014
- Mean: 187 mg/L

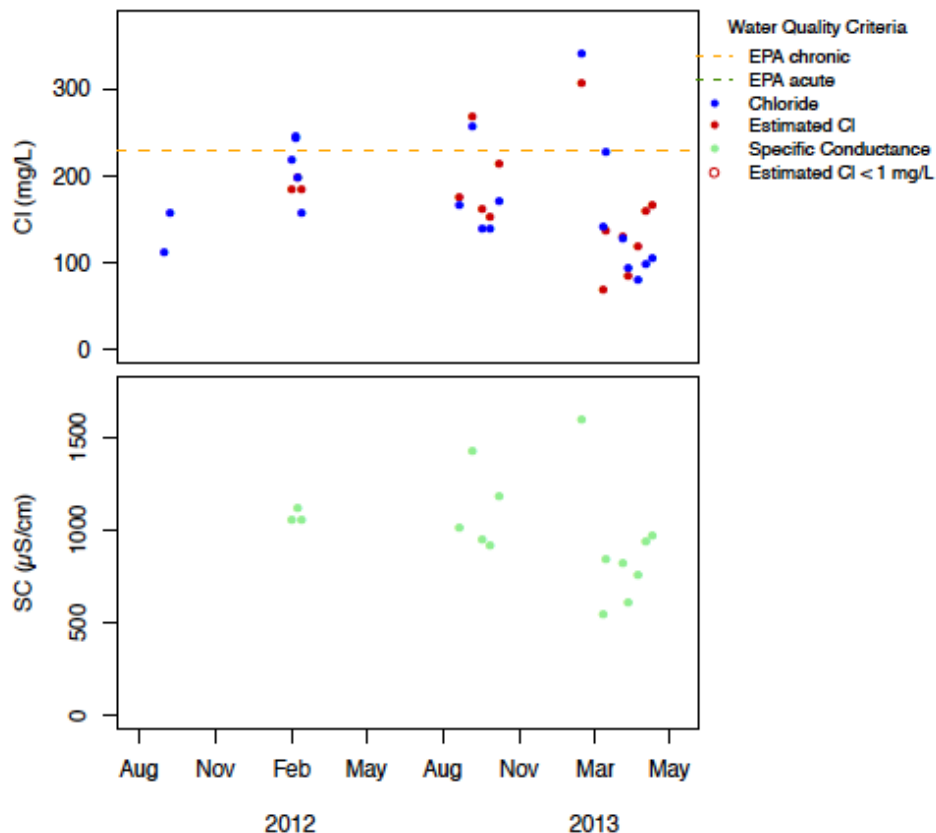
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has not been exceeded at this site.

However, the EPA chronic chloride standard of 230 mg/L was exceeded six times:

- 244 mg/L on 3/5/2012 (measured)
- 254 mg/L on 11/6/2012 (calculated)³
- 282 mg/L on 3/20/2014 (calculated)
- 257 mg/L on 10/4/2012 (measured)
- 341 mg/L on 2/13/2013 (measured)
- 274 mg/L on 4/10/2014 (calculated)

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