Pike River at CTH Y north of CTH E

Road Salt Monitoring Data Summary February 2012 – May 2014¹



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine **Specific conductance summary:**

• 40 measurements taken

• Minimum: 495 µS/cm on 3/11/2013

• Maximum: 1593 μS/cm on 2/20/2014

• Mean: 915 μS/cm

Chloride (Cl⁻) summary:

42 samples collected

• Minimum: 67.7 mg/L on 10/4/2012

• Maximum: 497.8 mg/L on 2/20/2014

• Mean: 178 mg/L

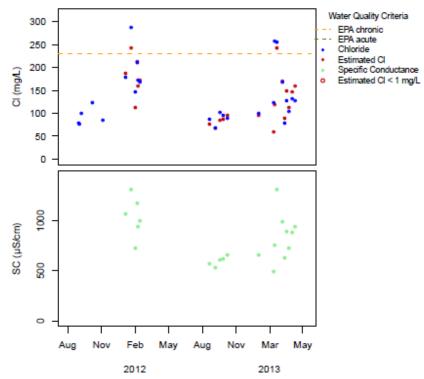
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was not exceeded at this site based on volunteer monitoring.

However, the EPA chronic chloride standard of 230 mg/L was exceeded at this site a few times in 2012 and 2013, and on nearly every monitoring date in 2014. 2014 exceedences were as follows:

- o 498 mg/L on 2/20/2014 (measured)
- o 330 mg/L on 4/10/2014 (measured)
- o 267 mg/L on 4/15/2014 (measured)
- 370 mg/L on 5/1/2014 (measured)
- o 295 mg/L on 4/16/2014 (measured)
- 396 mg/L on 4/13/2014 (measured)
- 476 mg/L on 4/28/2014 (measured)

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: CI = 0.225 x SC-52.3 adjR 2 = 0.74, except when SC >2250, then CI = 0.346 * SC - 309.8, adjR 2 = 0.97.