Pike River at First Bridge at Northern Entrance

Road Salt Monitoring Data Summary February 2012 – May 2014¹



Photo courtesy of Jim Beecher

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

- 38 measurements taken
- Minimum: 154.4 μS/cm on 9/24/2013
- Maximum: 2600 μS/cm on 4/16/2013
- Mean: 954 μS/cm

Chloride (Cl⁻) summary:

- 40 samples collected
- Minimum: 73.53 mg/L on 10/1/2013
- Maximum: 718.42 mg/L on 2/20/2014
- Mean: 189.25 mg/L

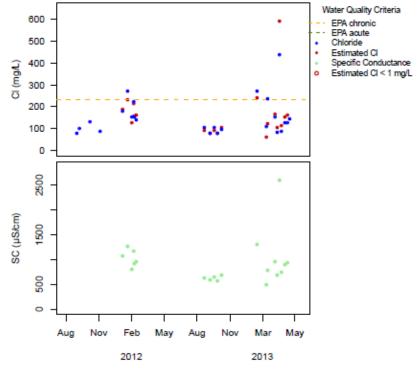
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has nt been exceeded at this site based on volunteer monitoring.

However, the EPA chronic chloride standard of 230 mg/L was exceeded at this site four times prior to 2014, as shown on the graph below. In addition, the standard was met or exceeded eight times in 2014:

- o 718 mg/L on 2/20/2014 (measured)
- o 295 mg/L on 4/6/2014 (measured)
- o 394 mg/L on 4/13/2014 (measured)
- o 412 mg/L on 4/28/2014 (measured)
- o 230 mg/L on 3/20/2014 (measured)
- 351 mg/L on 4/10/2014 (measured)
- o 250 mg/L on 4/15/2014 (measured)
- o 335 mg/L on 5/1/2014 (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