Mud Creek at Spencer St

Road Salt Monitoring Data Summary December 2011- August 2014¹



Photo by Jim Beecher

Volunteer: Paul Gravunder Specific conductance summary:

42 measurements taken

Minimum: 360 μS/cm on 11/17/2013 Maximum: 4200 μS/cm on 2/24/2013

Mean: 1586 µS/cm

Chloride (Cl⁻) summary:

11 samples collected

Minimum: 134 mg/L on 5/13/2012 Maximum: 1120 mg/L on 2/24/2013

Mean: 460 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L has been exceeded twice at this site:

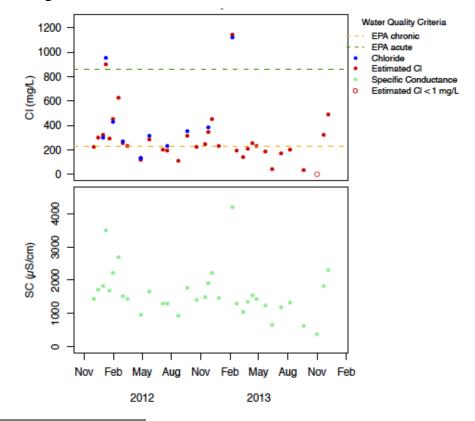
955 mg/L on 1/24/2014 (measured)

o 1120 mg/L on 2/24/2013 (measured)

The EPA chronic chloride standard of 230 mg/L was measured or predicted to have been met or exceeded on a number of occasions between December 2011 and August 2014. In addition to the exceedences shown on the graph below, measured or calculated estimations suggest the following exceedences in 2014:

- o 557 mg/L on 3/15/2014 (measured)
- 236 mg/L on 7/12/2014 (calculated)
- 301 mg/L on 4/26/2014 (calculated)³
- 262 mg/L on 8/3/2014 (calculated)

Results Through December 2013³:



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 = 0.242 * SC – 115.2, adjR 2 = 0.8, except when SC >2250, then CI = 0.346 * SC – 309.8, adjR 2 = 0.97