

Lincoln Creek at Sed. Trap(46th St)

Road Salt Monitoring Data Summary

January 2012 – March 2014¹



Photo from Jim Beecher

Volunteer: Peter Horgan

Specific conductance summary:

- 24 measurements taken
- Minimum: 530 $\mu\text{S}/\text{cm}$ on 11/11/2012
- Maximum: 15400 $\mu\text{S}/\text{cm}$ on 3/6/2013
- Mean: 4114 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 5 samples collected
- Minimum: 484 mg/L on 3/19/2012
- Maximum: 2730 mg/L on 1/21/2012
- Mean: 1288 mg/L

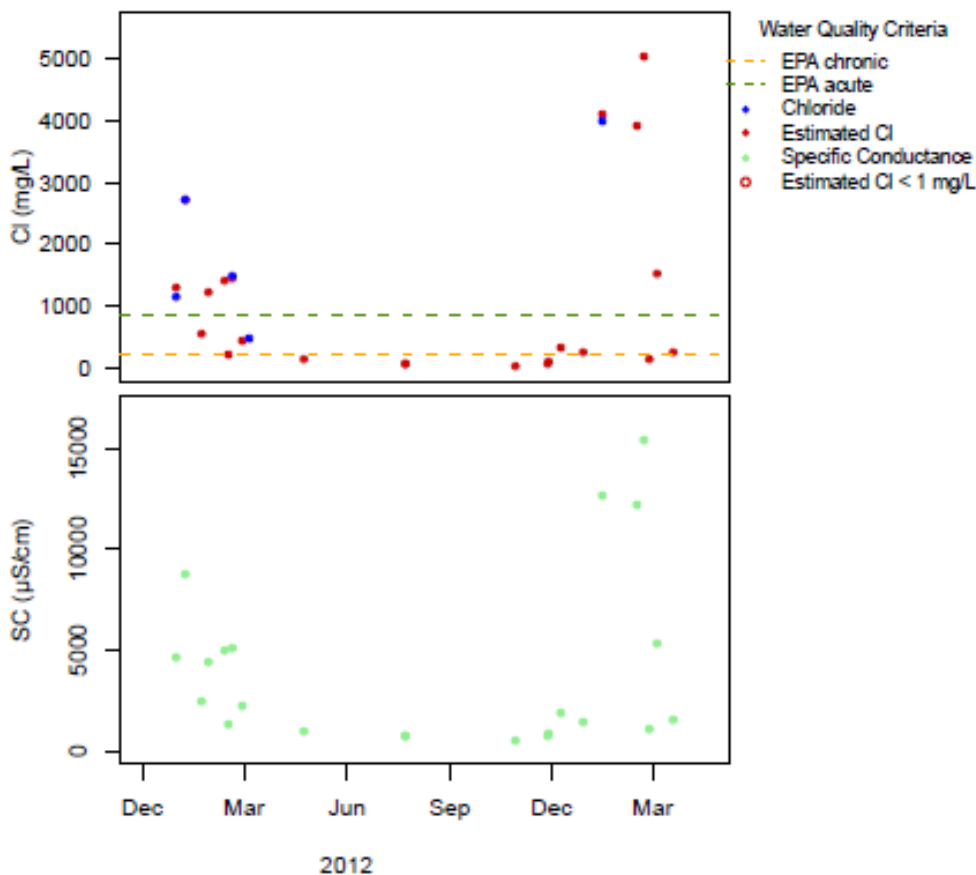
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded 11 times at this site based on volunteer monitoring efforts. In addition to those shown on the graph below, the following exceedences were predicted³:

- 1351 mg/L on 2/22/2014
- 970 mg/L on 3/31/2014

In addition, the EPA chronic chloride standard of 230 mg/L was met or predicted to have been exceeded six times, all shown on the graph below:

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: $\text{Cl} = 0.242 \times \text{SC} - 115.2$ $\text{adjR}^2 = 0.8$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$