

Sherman Creek at Race Street

Road Salt Monitoring Data Summary

January 2012- April 2014¹



Photo courtesy of Jim Beecher

Volunteers: Katy Grant, Tim Molitor, Keilor Eggan and Travis Bender (2012), Anastasia Burns and Alan Gustafson (2013-4)

Specific conductance summary:

- 22 measurements taken
- Minimum: 200 $\mu\text{S}/\text{cm}$ on 4/5/2014
- Maximum: 1550 $\mu\text{S}/\text{cm}$ on 1/11/2014
- Mean: 534 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 8 samples collected
- Minimum: 37.4 mg/L on 3/31/2012
- Maximum: 408 mg/L on 1/11/2014
- Mean: 183 mg/L

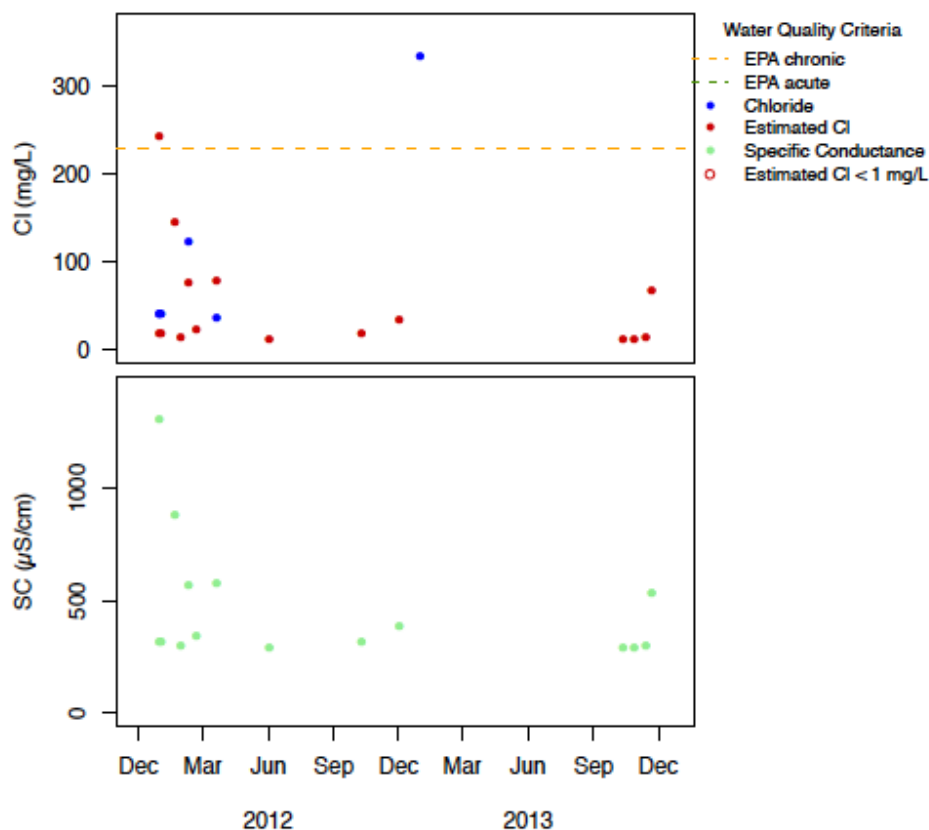
Measured EPA Acute and Chronic Exceedences for Chloride²:

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

The EPA chronic chloride standard of 230 mg/L has been exceeded three times at this site:

- 335 mg/L on 1/11/2013
- 408 mg/L on 1/11/2014
- 265 mg/L on 2/20/2014

Results Through December 2013³:



¹ All data in SWIMS as of 8/26/2014 downloaded

² Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

³ Calculated chloride: $\text{Cl} = 0.225 * \text{SC} - 52.3$, $\text{adjR}^2 = 0.74$