

Robinson Creek at Highway 27

Road Salt Monitoring Data Summary

December 2012 – March 2013¹



Photo courtesy of Jim Beecher

Volunteers: Don Kauffman

Specific conductance summary:

- 5 measurements taken
- Minimum: 60 $\mu\text{S}/\text{cm}$ on 12/21/2012
- Maximum: 5500 $\mu\text{S}/\text{cm}$ on 1/28/2013
- Mean: 1162 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 5 samples collected
- Minimum: 6.8 mg/L on 12/21/2012
- Maximum: 5110 mg/L on 1/28/2013
- Mean: 1031 mg/L

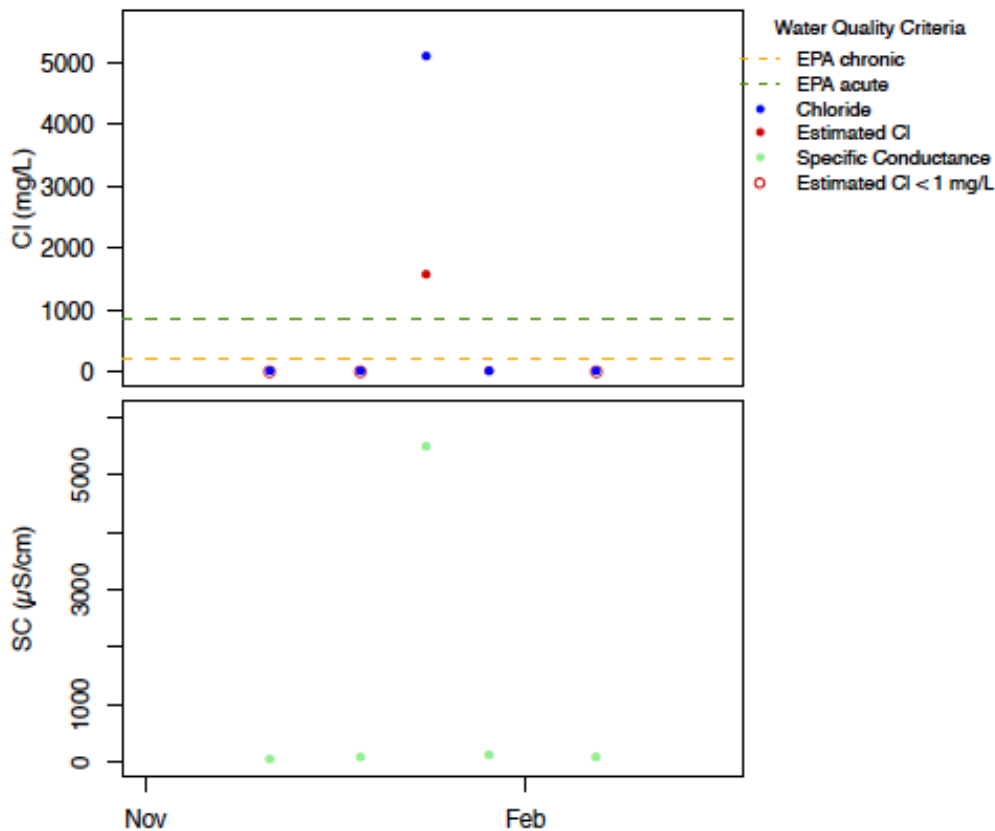
EPA Acute and Chronic Exceedences for Chloride²:

The EPA acute chloride standard of 860 mg/L was exceeded once at this site.

- 5110 mg/L on 1/28/2013 (measured)

There were no additional findings that exceeded the EPA chronic chloride standard of 230 mg/L at this site.

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: $\text{Cl} = 0.268 \times \text{SC} - 20.3$ $\text{adjR}^2 = 0.95$, , except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 \times \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$