

Town Creek at State Highway 12

Road Salt Monitoring Data Summary

December 2012 – April 2013¹



Photo courtesy of Jim Beecher

Volunteers: John Elliott and Quinn Robinson

Specific conductance summary:

- 5 measurements taken
- Minimum: 270 $\mu\text{S}/\text{cm}$ on 4/12/2013
- Maximum: 1170 $\mu\text{S}/\text{cm}$ on 2/12/2013
- Mean: 498 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 5 samples collected
- Minimum: 26 mg/L on 1/4/2013
- Maximum: 306 mg/L on 2/12/2013
- Mean: 100 mg/L

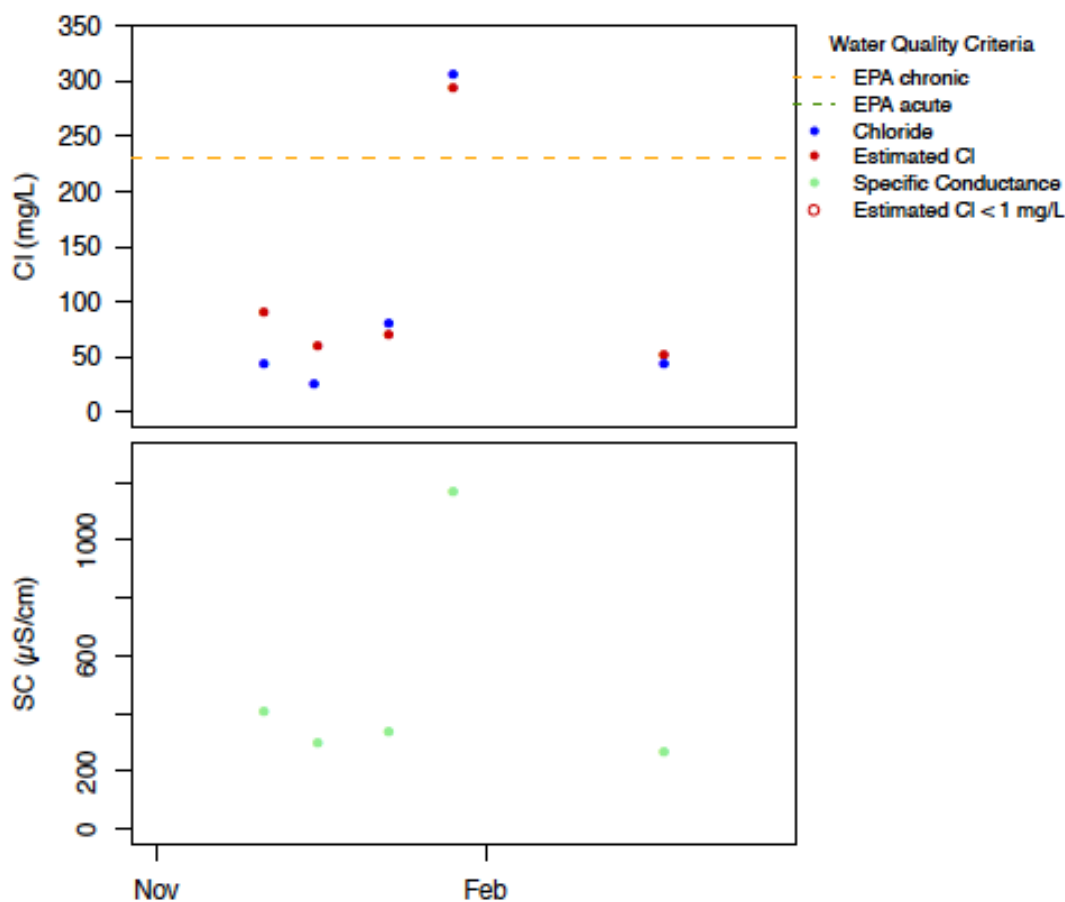
EPA Acute and Chronic Exceedences for Chloride²:

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

The EPA chronic chloride standard of 230 mg/L was exceeded once at this site:

- 306 mg/L on 2/12/2013 (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: $\text{Cl} = 0.268 \times \text{SC} - 20.3$ $\text{adjR}^2 = 0.95$, , except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 \times \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$