

Murphy (Wingra) Creek downstream Lake Wingra

Road Salt Monitoring Data Summary November 2012 – April 2013¹



Volunteer: Nancy Sheehan

Photo courtesy of Jim Beecher

Specific conductance summary:

- 9 measurements taken
- Minimum: 860 $\mu\text{S}/\text{cm}$ on 11/14/2012 and 4/12/2013
- Maximum: 960 $\mu\text{S}/\text{cm}$ on 1/28/2013
- Mean: 898 $\mu\text{S}/\text{cm}$

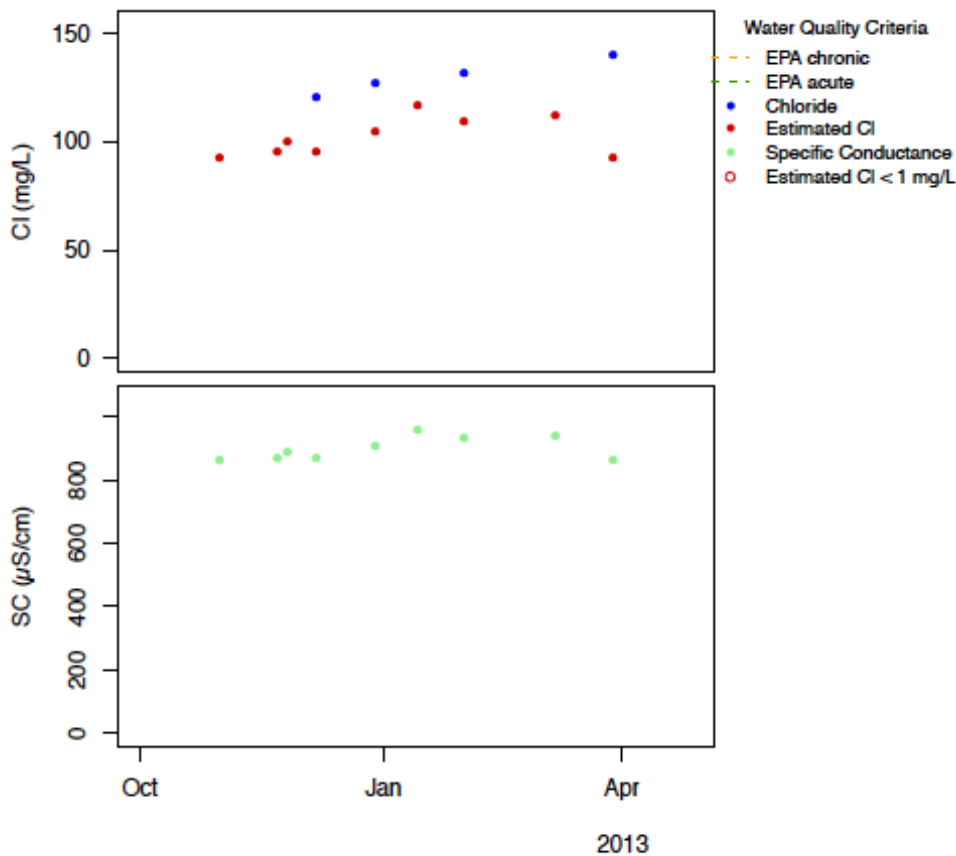
Chloride (Cl^-) summary:

- 4 samples collected
- Minimum: 120 mg/L on 12/21/2012
- Maximum: 140 mg/L on 4/12/2013
- Mean: 130 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

Neither the EPA acute chloride standard of 860 mg/L nor the EPA chronic chloride standard of 230 mg/L have been exceeded 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: $\text{Cl} = 0.242 * \text{SC} - 115.2$, $\text{adjR}^2 = 0.8$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$