

# Meadow Brook at CTH SS

## Road Salt Monitoring Data Summary

### November 2012- July 2014<sup>1</sup>



Photo by Jim Beecher

**Volunteer:** Jayne Jenks

**Specific conductance summary:**

- 27 measurements taken
- Minimum: 850  $\mu\text{S}/\text{cm}$  on 2/20/2014
- Maximum: 2800  $\mu\text{S}/\text{cm}$  on 3/5/2013
- Mean: 1873  $\mu\text{S}/\text{cm}$

**Chloride (Cl<sup>-</sup>) summary:**

- No samples collected

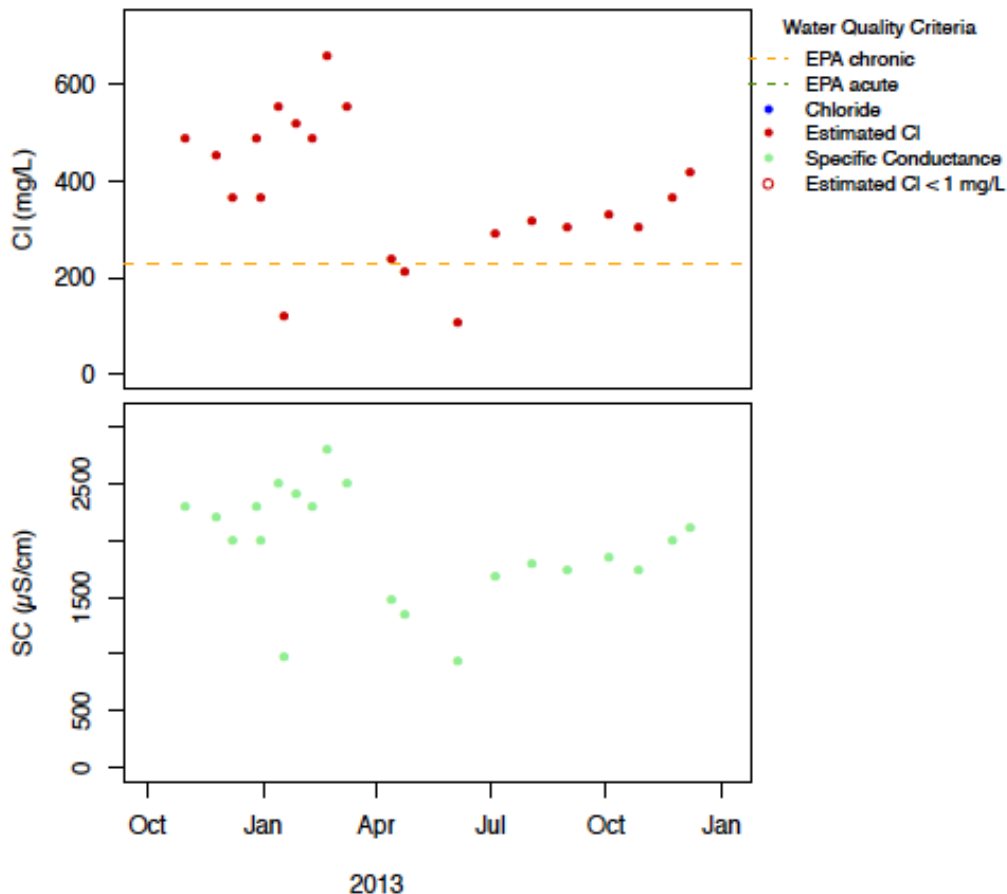
**EPA Acute and Chronic Exceedences for Chloride<sup>2</sup>:**

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 was predicted<sup>3</sup> to have been exceeded numerous times at this site. In addition to those exceedences shown on the graph below, the following exceedences were predicted:

- 521 mg/L on 1/30/2014
- 311 mg/L on 5/8/2014
- 325 mg/L on 3/31/2014
- 282 mg/L on 7/11/2014

**Results Through December 2013<sup>3</sup>:**



<sup>1</sup> All data in SWIMS as of 8/26/2014 were downloaded

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

<sup>3</sup> Calculated chloride:  $\text{Cl} = 0.242 * \text{SC} - 115.2$ ,  $\text{adjR}^2 = 0.8$ , except when  $\text{SC} > 2250$ , then  $\text{Cl} = 0.346 * \text{SC} - 309.8$ ,  $\text{adjR}^2 = 0.97$