

Little Niagara Creek-UWEC Campus

Road Salt Monitoring Data Summary

January 2012– March 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:

- 28 measurements taken
- Minimum: 330 $\mu\text{S}/\text{cm}$ on 6/13/2012
- Maximum: 1840 $\mu\text{S}/\text{cm}$ on 1/6/2012
- Mean: 632 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 11 samples collected
- Minimum: 55.4 mg/L on 1/4/2014
- Maximum: 610 mg/L on 1/6/2012
- Mean: 312 mg/L

Measured EPA Acute and Chronic Exceedences for Chloride²:

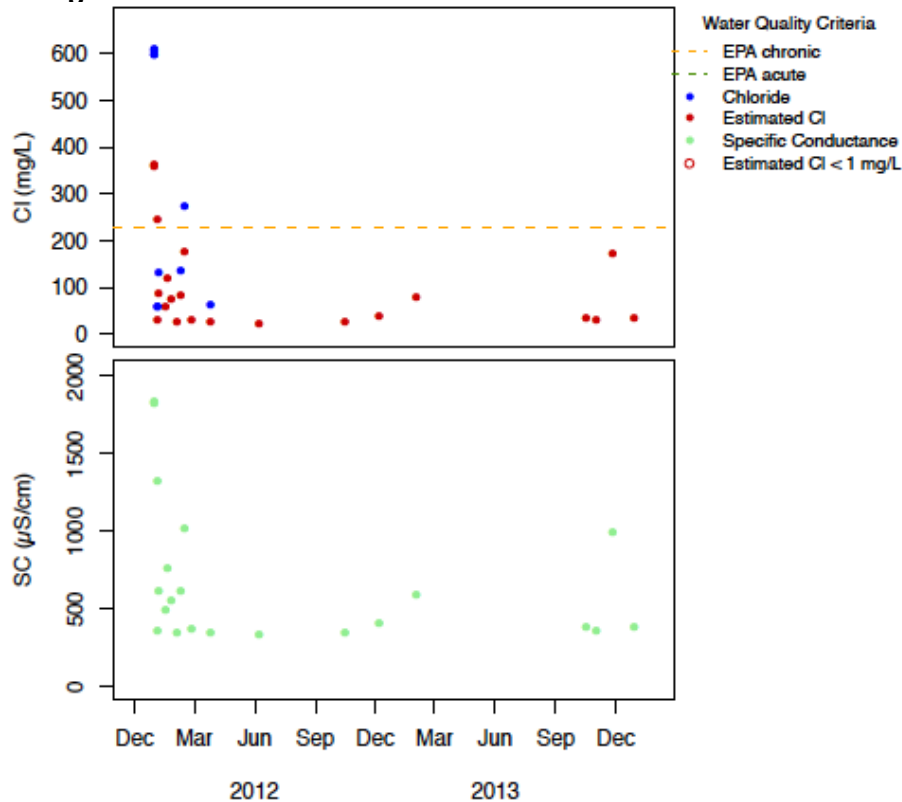
The EPA acute chloride standard of 860 mg/L has not been exceeded at this site.

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

- 610 mg/L on 1/6/2012
- 275 mg/L on 2/21/2012
- 300 mg/L on 2/20/2014

* Note: four samples were collected on 1/6/2012. 610 mg/L was highest result.

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