

Jarrett Creek 100m upstream of Lake Menomin

Road Salt Monitoring Data Summary December 2012 – August 2014¹



Photo by Lisa Ludwig

Volunteers: Ted Ludwig, Lindsey Provos, and Megen Hines

Specific conductance summary:

- 64 measurements taken
- Minimum: 140 $\mu\text{S}/\text{cm}$ on 4/29/2014
- Maximum: 5100 $\mu\text{S}/\text{cm}$ on 1/29/2013
- Mean: 736 $\mu\text{S}/\text{cm}$

Chloride (Cl^-) summary:

- 8 samples collected
- Minimum: 48.6 mg/L on 4/10/2013
- Maximum: 1530 mg/L on 1/29/2013
- Mean: 356 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

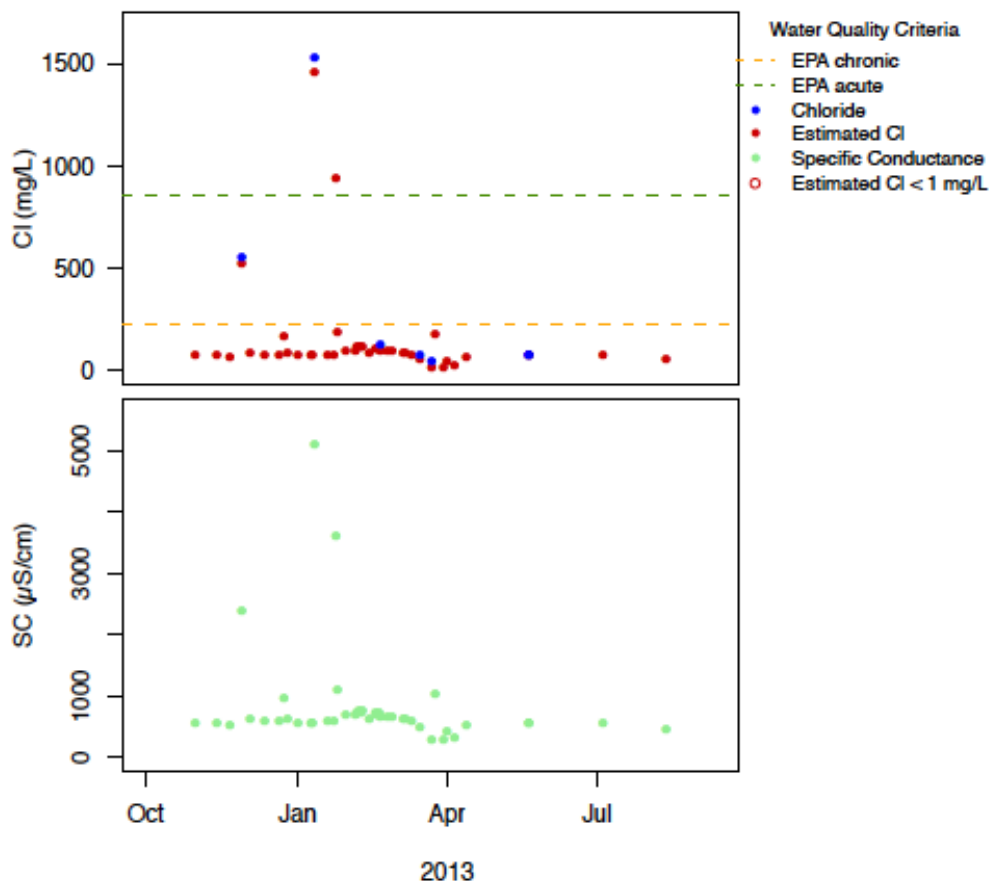
The EPA acute chloride standard of 860 mg/L was exceeded twice at this site.

- 1530 mg/L on 1/29/2013 (measured)
- 936 mg/L on 2/11/2013 (calculated)

In addition, the EPA chronic chloride standard of 230 mg/L was exceeded twice at this site:

- 555 mg/L on 12/16/2012 (measured)
- 233 mg/L on 2/12/2013 (calculated)

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: $\text{Cl} = 0.225 * \text{SC} - 52.3$, $\text{adjR}^2 = 0.74$, except if $\text{S} > 2250$, then $\text{Cl} = 0.346 * \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$