

Pheasant Branch at Deming Way Road Salt Monitoring Data Summary February 2011 – April 2014¹



Photo courtesy of Jim Beecher

Volunteer: Jim Beecher

Specific conductance summary:

- 46 measurements taken
- Minimum: 471 $\mu\text{S}/\text{cm}$ on 8/8/2011
- Maximum: 3400 $\mu\text{S}/\text{cm}$ on 3/1/2013
- Mean: 1139 $\mu\text{S}/\text{cm}$

Chloride (Cl⁻) summary:

- 12 samples collected
- Minimum: 68.5 mg/L on 9/11/2011
- Maximum: 1450 mg/L on 1/28/2013
- Mean: 357 mg/L

EPA Acute and Chronic Exceedences for Chloride²:

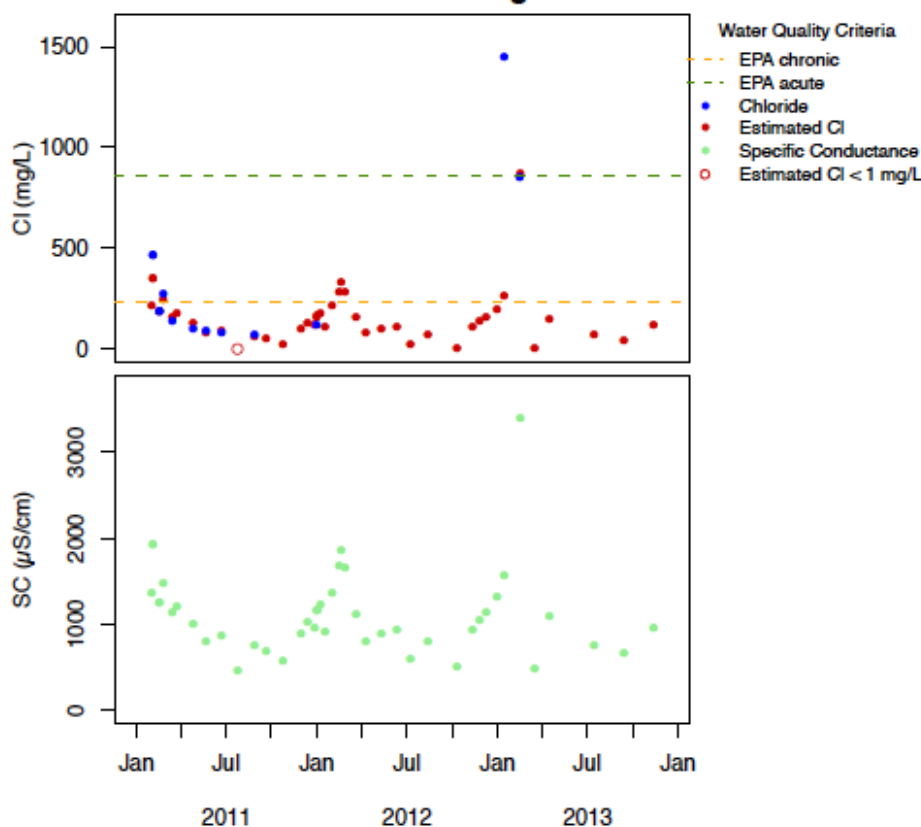
The EPA acute chloride standard of 860 mg/L was exceeded twice at this site:

- 1450 mg/L on 1/28/2013 (measured)
- 867 mg/L on 3/1/2013 (calculated)³

In addition, the EPA chronic chloride standard of 230 mg/L was measured or calculated to have been exceeded eight times at this site. In addition to those exceedences shown on the graph below, the following were measured or predicted:

- 308 mg/L on 1/13/2014 (calculated)
- 457 mg/L on 3/9/2014 (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: $\text{Cl} = 0.242 \times \text{SC} - 115.2$ $\text{adjR}^2 = 0.8$, except when $\text{SC} > 2250$, then $\text{Cl} = 0.346 \times \text{SC} - 309.8$, $\text{adjR}^2 = 0.97$.