# Pike River north of mouth to Lake Michigan

Road Salt Monitoring Data Summary February 2012 – May 2014<sup>1</sup>



Photo courtesy of Jim Beecher

Volunteers: Chris Blaine

#### **Specific conductance summary:**

• 36 measurements taken

Minimum: 360 μS/cm on 9/18/2012
Maximum: 1700 μS/cm on 2/6/2013

• Mean: 829 μS/cm

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

36 samples collected

• Minimum: 28.6 mg/L on 2/29/2012

Maximum: 921.73 mg/L on 4/15/2014

Mean: 170 mg/L

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

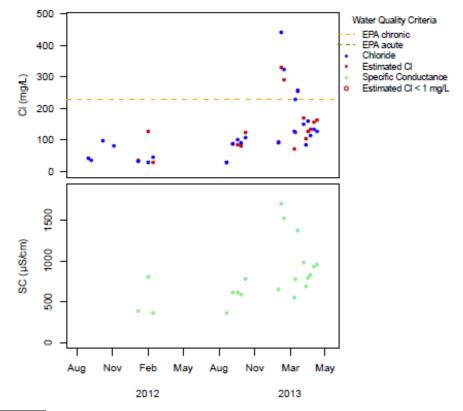
The EPA acute chloride standard of 860 mg/L was exceeded once at this site

• 922 mg/L on 4/15/2014 (measured)

Plus, in addition to exceedences shown on the graph below, the chronic chloride standard of 230 mg/L was exceeded five more times:

- 297 mg/L on 4/6/2014 (measured)
- 253 mg/L on 4/15/2014 (calculated)
- 308 mg/L on 5/1/2014 (measured)
- 345 mg/L on 4/10/2014 (measured)
- 424 mg/L on 4/28/2014 (measured)

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



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

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

 $<sup>^{3}</sup>$  Calculated chloride: CI = 0.225 x SC-52.3 adjR $^{2}$  = 0.74, except when SC >2250, then CI = 0.346 \* SC - 309.8, adjR $^{2}$  = 0.97