Nine Springs at Syene Rd

Road Salt Monitoring Data Summary
February 2011–December 2012

Volunteers: Kris Stepenuck and Christophe Stoelinga

Specific conductance summary:
- 27 measurements taken
- Minimum: 560 µS/cm on 3/21/2011
- Maximum: 1030 µS/cm on 3/10/2011
- Mean: 841 µS/cm

Chloride (Cl⁻) summary:
- 10 samples collected
- Minimum: 59.3 mg/L on 5/28/2012
- Maximum: 137 mg/L on 3/10/2011
- Mean: 76 mg/L

EPA Acute and Chronic Exceedences for Chloride¹:
Neither the EPA acute nor chronic chloride standards was exceeded at this site based on volunteer monitoring in 2011² or in 2012.

Results Over Time³:

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¹ EPA acute chloride standard: The one-hour average concentration should not exceed 860 mg/L more than once every three years on average. EPA chronic chloride standard: The four day average concentration should not exceed 230 mg/L more than once every three years on average. Source: EPA. 1988. Ambient Water Quality Criteria for Chloride. EPA 440/6-88-001.

² [http://watermonitoring.uwex.edu/level3/UrbanRoadSaltReports.html](http://watermonitoring.uwex.edu/level3/UrbanRoadSaltReports.html)

³ Calculated chloride: When SC >1540 µS/cm was Cl⁻ = 0.3441 * SC – 291, adjR² = 0.98; when SC was ≤ 1540 µS/cm was Cl⁻ = 1.044 * (exp(0.001609 * SC + 3.046)), adj R² = 0.65. Equations based on data from both Madison and Milwaukee.