### DES MOINES RIVER WATER QUALITY NETWORK
#### PROVISIONAL FIELD DATA AND OBSERVATIONS

**Week:** 1427  
**Date:** December 2, 2008

<table>
<thead>
<tr>
<th>Location</th>
<th>Station Number</th>
<th>Boone</th>
<th>Saylorville</th>
<th>Red Rock</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>surface</td>
<td>mid-depth</td>
<td>bottom</td>
</tr>
<tr>
<td>Time (CDT, CST)</td>
<td>820</td>
<td>945</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Flow (cfs)</td>
<td>700</td>
<td>***</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Elevation ft NGVD</td>
<td>***</td>
<td>837.38</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Water Temp (deg C)</td>
<td>-0.3</td>
<td>1.0</td>
<td>0.7</td>
<td>0.9</td>
</tr>
<tr>
<td>Cloud Cover (%)</td>
<td>15</td>
<td>15</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Ice Cover (%)</td>
<td>F</td>
<td>20</td>
<td>***</td>
<td>***</td>
</tr>
<tr>
<td>Sampling Depth (m)</td>
<td>***</td>
<td>0.25</td>
<td>4.75</td>
<td>9.00</td>
</tr>
<tr>
<td>Secchi Depth (m)</td>
<td>***</td>
<td>0.96</td>
<td>***</td>
<td>***</td>
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<tr>
<td>pH</td>
<td>8.37</td>
<td>8.45</td>
<td>8.50</td>
<td>8.47</td>
</tr>
<tr>
<td>Phenol Alkalinity *</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>CO2 (mg/l)</td>
<td>0.0</td>
<td>0.0</td>
<td>***</td>
<td>0.0</td>
</tr>
<tr>
<td>Total Alkalinity *</td>
<td>295</td>
<td>254</td>
<td>***</td>
<td>252</td>
</tr>
<tr>
<td>Calcium Hardness *</td>
<td>253</td>
<td>197</td>
<td>***</td>
<td>194</td>
</tr>
<tr>
<td>Total Hardness *</td>
<td>425</td>
<td>330</td>
<td>***</td>
<td>327</td>
</tr>
<tr>
<td>Phar (mmHg)</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>739</td>
</tr>
<tr>
<td>Delta P</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>46</td>
</tr>
<tr>
<td>Total Gas Sat. (%)</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>106.2</td>
</tr>
<tr>
<td>N2 Gas Sat. (%)</td>
<td>***</td>
<td>***</td>
<td>***</td>
<td>109.4</td>
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<tr>
<td>O2 Gas Sat. (%)</td>
<td>77.2</td>
<td>85.2</td>
<td>77.6</td>
<td>82.9</td>
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<tr>
<td>Turbidity (NTU)</td>
<td>11</td>
<td>7</td>
<td>***</td>
<td>7</td>
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<tr>
<td>Transparency Tube (cm)</td>
<td>21.0</td>
<td>***</td>
<td>***</td>
<td>39.9</td>
</tr>
</tbody>
</table>

**Comments:**  
Ice floes were present at Stations 1 and 10. Total gas pressure below RR Dam has decreased somewhat. Cyanobacteria were not visually apparent at any location (DMWW reported cyanobacteria in the DM river above Saylorville on Nov 25). Frozen samples being sent to E O’Brien, IDNR/IGS for microcystin analyses.

*mg/l as CaCO3