### Location:
Outflow of Henderson Lake and Calamity Brook.

### Area:
**Surrounding Land Use:** Forested 100%; Interesting to note that ½ mile downstream is the mining (iron) site at Tahawus, where a dam used to support a small lake, and ½ mile upstream is a dam at Henderson Lake.

**Sampling Site:** Covered with vegetation – brush and trees, some driftwood on shoreline, rocks

**Plants in area:** The shoreline is planted with trees, shrubs and flowers.

**Water depth:** 5cm in shallows to 150 cm in deep pools

**River Bottom** – rocky

**Plants in water** – none – only aquatic vegetation is a small amount of algae on the exposed rocks near shore

### ITEM | Time | Reading 1 | Reading 2 | Comments
--- | --- | --- | --- | ---
**Physical**
Air Temperature | 9:45 AM | 60° F | 15.5° C | 
Wind Speed | 9:45 AM | 4-6 kts | | Variable direction
Cloud Cover | overcast | |
Weather yesterday | Fairly cloudy to clear last 3 days, all temps in high 60’s |
**Water Temperature** | 9:45 AM | 15.2° C | 59.4 ° F | All 3 trials the same
 | 10:05 AM | 15.4° C | 59.7 ° F | All 3 trails the same
**Water surface** | Water choppy due to gradient not wind disturbance |
**Turbidity**
*Large sight tube* | Found unlimited transparency to the water, even with a large sight tube. The water had very little sediment |
**Chlorophyll** | Time | Chla/ug/L | Pheo ug/L | Location
--- | --- | --- | --- | ---
Sample run by Darrin Freshwater Institute | 9:45 AM | 1.03 ug/L | 0.90 ug/L | Upper Hudson River
 | 2.14 ug/L | 1.21 ug/L |
**Chemical**
DO (ampules) | 10:05 AM | 7 mg/L shallow pool | Temp 15° C | 70% saturated
<table>
<thead>
<tr>
<th>Time</th>
<th>pH</th>
<th>Method</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:05 AM</td>
<td>10 mg/L</td>
<td>Acid Rain Paper</td>
<td>Deep pool</td>
</tr>
<tr>
<td>10:05 AM</td>
<td>Temp 15° C</td>
<td>Universal Ind.</td>
<td>Solution</td>
</tr>
<tr>
<td>10:05 AM</td>
<td>95%</td>
<td>pH test strips</td>
<td></td>
</tr>
<tr>
<td>10:15 AM</td>
<td>10:15 AM</td>
<td>5.5</td>
<td>6.0</td>
</tr>
<tr>
<td>Phosphate</td>
<td>10:30 AM</td>
<td>No color change in</td>
<td>0.0 mg/L</td>
</tr>
<tr>
<td>Nitrate</td>
<td>10:30 AM</td>
<td>No color change in</td>
<td>0.0 mg/L</td>
</tr>
<tr>
<td>Alkalinity</td>
<td></td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Salinity</td>
<td></td>
<td>Time</td>
<td>Method</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reading</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fish Catch</th>
<th>Number Caught</th>
<th>Species</th>
<th>Minnow traps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kick nets &amp;</td>
<td>2</td>
<td>Dragonfly</td>
<td>Spent 30</td>
</tr>
<tr>
<td>overturning rocks</td>
<td></td>
<td>nymphs</td>
<td>minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>looking but</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>it was</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>a relatively,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>deep, fast-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>moving area</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tides</th>
<th>Currents</th>
<th>South/ebb</th>
<th>Traffic</th>
</tr>
</thead>
<tbody>
<tr>
<td>5700 cm/60 secs</td>
<td>95 cm/sec</td>
<td>114 kts.</td>
<td></td>
</tr>
<tr>
<td>660 cm/60 secs.</td>
<td>11 cm/sec</td>
<td>13.2 kts</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>in shallower</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>areas</td>
<td></td>
</tr>
</tbody>
</table>