Biota of Chazy Lake: The Legacy of Invasive Species and other Abiotic Stressors
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Goal & Hypothesis
Survey biota and water quality of Chazy Lake

Hypothesis: Fish and turtle richness and abundance will be greatest at the (Pump Station, South inlet) where water quality is better and is void of invasive species.

<table>
<thead>
<tr>
<th>Site</th>
<th>Substrate</th>
<th>pH</th>
<th>Conductivity uS/cm</th>
<th>Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Pump station</td>
<td>Silt and rock</td>
<td>7.75</td>
<td>95</td>
<td>Good - Low/moderate density watermilfoil</td>
</tr>
<tr>
<td>2. South inlet</td>
<td>Rock</td>
<td>7.59</td>
<td>90.3</td>
<td>Good - Low/moderate density watermilfoil</td>
</tr>
<tr>
<td>3. Dam</td>
<td>Rock</td>
<td>7.62</td>
<td>97.5</td>
<td>Low/moderate density watermilfoil - mechanical removal efforts</td>
</tr>
<tr>
<td>4. Seine Bay</td>
<td>Silt</td>
<td>7.28</td>
<td>512.4</td>
<td>High road salt concentration - mechanical removal efforts - Chinese mystery snail</td>
</tr>
</tbody>
</table>

Methods
Trapping
Morphometric measurements
Water Chemistry

Take Homes
- Species richness of fish in Chazy Lake was low (S=5) and pumpkinseed sunfish and rock bass were the most common.
- Fish were only caught at the Pump station and Seine Bay.
- Sites with the highest pH and conductivity associated with higher catches.
- Pumpkinseed sunfish were significantly larger at the Pump Station than at Seine Bay (p<0.04).
- No turtles were found in Chazy Lake.

Chazy Lake Watershed Initiative has been managing invasive species by performing water draw downs and mechanical removal of Eurasian watermilfoil and efforts will continue to improve lake health.

Acknowledgements
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