

Velvet Lake

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Clarity Report on August 1st,
2018



Land & Water Conservation Department

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Velvet Lake AIS Monitoring and Water Clarity Report

Field Date: August 1st, 2018
WBIC: 1176500
Previous AIS Findings: None
New AIS Findings: None
Field Crew: Aubrey Nycz, AIS Project Leader, Tom Boisvert, AIS Project Assistant,
and Jody Partin, AIS Project Assistant, Oneida County Land and Water
Conservation Department
Report By: Jody Partin

On August 1st, 2018, Aubrey, Tom, and I went to Velvet Lake to implement AIS monitoring along with water clarity and quality assessments. Velvet Lake is a 34 acre mesotrophic lake located in Oneida County and can be accessed by one public boat launch that is located on Flannery Lake, which is connected to Velvet Lake. The shoreline along Velvet Lake is composed of private owners. The lake has a maximum depth of 16 feet, and the substrate is reported to be 30% sand, 5% gravel, 0% rock, and 65% muck. Along with reporting the depth and substrate, the Wisconsin Department of Natural Resources also reports that the lake has largemouth bass, smallmouth bass, and panfish present.

The weather while conducting research on Velvet Lake was cloudy with occasional light rain. The outside temperature was in the low 70 degrees Fahrenheit, the wind was fairly calm, and despite the rain, the water clarity was still good. The slightly adverse weather did not impede our measurements in any way.

When conducting our AIS lake survey, the AIS team did a complete shoreline scan while meandering in and out between different depths. We looked on the shoreline itself and also in the water, noting the plants and animals we had observed in the process.

To observe the water clarity and quality of Velvet Lake, the AIS team went to the deep hole and used a Secchi disk to measure water clarity. Due to another lake association using our dissolved oxygen

meter to measure water health, we had to conduct this lake monitoring without our DO meter. The Secchi disk reading was 8.5 feet.

The AIS team was glad to see that no invasive species were present at this time. The lake seems to be healthy, and native plants were present and thriving. The three most common native plants we observed were Watershield, Water Smartweed, and Bladderwort. These plants, along with others, can be seen below in table 1.

Findings: Taken 11:00 am – 11:30 p.m. on August 1st, 2018

Aquatic Invasive Species: We did not find any new invasive species along the perimeter of Velvet Lake.

Secchi: The Secchi reading on this lake was 8.5 feet out of a 16 foot maximum depth. The water color was a brownish color, and appeared clear when glancing across the lake.



Figure 1. Map of Oneida County, WI with Velvet Lake circled in red (approximate location).





Figure 2. Map of Velvet Lake with boat landing and location of Secchi disk reading labeled.



Table 1. Plants found in Velvet Lake when monitoring.

Common Plant Name Scientific Plant Name	Description	Image
<p style="text-align: center;">Water Shield</p> <p style="text-align: center;"><i>Brasenia schreberi</i></p>	<p>An aquatic plant with stems up to 2 meters long. This plant has small floating leaves and reddish purple flowers that have 6-8 petals. This plant is native.</p>	 <p style="text-align: center;"><i>Photo Credit: Shannon Sharp</i></p>
<p style="text-align: center;">Water Smartweed</p> <p style="text-align: center;"><i>Persicaria amphibia</i></p>	<p>An aquatic, floating plant with swollen leaf nodes. Leaves tend to be smooth and rounded. Water smartweed has pink flowers that are raised a few inches above the water. This plant is native.</p>	 <p style="text-align: center;"><i>Photo Credit: Superior National Forest/CCSA</i></p>

<p>Bladderwort</p> <p><i>Utricularia spp.</i></p>	<p>An aquatic plant with leaves containing small sacks that trap small invertebrates. This plant usually has unrooted stems that easily tangle with other plants. In the water, this plant tends to look cloudy or slimy. This plant is native.</p>	 <p><i>Photo Credit: frenchhill.org</i></p>
<p>White Water Lily</p> <p><i>Nymphaea odorata</i></p>	<p>An aquatic plant that has large, round leaves that can grow to be 12 inches in diameter. White water lilies also have large, white flowers with many petals. This plant is native.</p>	 <p><i>Photo Credit: Joseph A. Marcus</i></p>