

Lake George

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 Clarity Report of June 30, 2016



Land & Water Conservation Department

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Lake George AIS Monitoring and Water Clarity Report

WBIC: 1569600
Previous AIS Findings: Banded Mystery Snail (not verified), Chinese Mystery Snail, and Rusty Crayfish
New AIS Findings: Forget-Me-Nots
Field Date: June 30, 2016
Field Crew: Stephanie Boismenu, AIS Coordinator, and Aubrey Nycz, AIS Project Assistant, Oneida County Land and Water Conservation Department
Report By: Aubrey Nycz

Stephanie and I monitored half of Lake George on June 30, 2016. Lake George is located South-east of Rhinelander, WI in Oneida County (Figure 1). It is a drainage lake of 443 acres with a maximum depth of 26 feet. The substrate on the lake is 55% sand, 20% gravel, 2% rock, and 15% muck. The lake has musky, panfish, largemouth bass, smallmouth bass, northern pike, and walleye. Lake George's trophic state is eutrophic. According to dictionary.com, eutrophic lakes are characterized by an abundant accumulation of nutrients that support a dense growth of algae and other organisms, the decay of which depletes the shallow waters of oxygen in summer. Lake George has many homes around its perimeter and is located on Lake George Road.

Stephanie and I launched the canoe at the public boat landing on East Lake George Road. We only monitored half of the lake because it started to storm, but we were still able to walk in the water using aquascopes to check for invasives. We did come across some invasive Forget-Me-Nots, so I got a GPS reading for their location.

We used a contour map of Lake George to help us locate the deep spot on the lake. We found the deepest point of the lake to be 26 feet. When we found the deep spot, Stephanie anchored the canoe and I took the GPS coordinates of the location. Stephanie and I then measured the water clarity levels using a Secchi disk, dissolved oxygen using the dissolved oxygen meter, and temperature (Table 1).

Findings: All taken starting at 10:00 a.m.

Aquatic Invasive Species:

We found Forget-Me-Nots along the shoreline in some areas of the lake.

Secchi:

The Secchi reading on this lake was 5 feet out of a 47 foot max depth. The water color was a darker green, so I was not surprised that we could not see very far into the water.

Dissolved Oxygen:

These measurements can be seen in Table 1 at three foot increments.

Figure 1. Map of Oneida County, WI with Lake George circled in red.



Figure 2. Map of Lake George; the red circle shows where we entered the lake, the yellow square shows where the deep hole can be found, the green triangle shows where we obtained our Secchi Disk coordinates, and the orange line shows where we monitored the lake.



WDNR Secchi Disk Readings: Lake George - Deep Hole LATITUDE 45.61 LONGITUDE -89.33

Table 1. Dissolved oxygen levels and temperatures at the deep hole.

Depth (Feet)	Dissolved Oxygen Levels (mg/L)	Temperature (F)
3	8.15	72.9
6	7.58	72.4
9	6.35	71.4
12	3.6	69.7

15	0.12	64.8
18	0.07	61.3
21	0.05	58.8
24	0.04	57.2
27	0.03	65.5

Resources:

<https://oneidacounty.maps.arcgis.com/apps/webappviewer/index.html?id=c0144697a23243d6beb981727c3e6e2b>

<http://dnr.wi.gov/lakes/lakepages/LakeDetail.aspx?wbic=1569600&page=facts>