

# Long Lake

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                  Clarity Report of June 18, 2014



Land & Water Conservation Department

*Jean Hansen, County Conservationist  
Michele Sadauskas, AIS Coordinator  
Jonna Stephens Jewell, Program Assistant*

Oneida County Courthouse  
P O Box 400, Rhinelander, Wisconsin 54501  
Phone (715) 369-7835 Fax (715) 369-6268

## Long Lake AIS Monitoring and Water Clarity Report

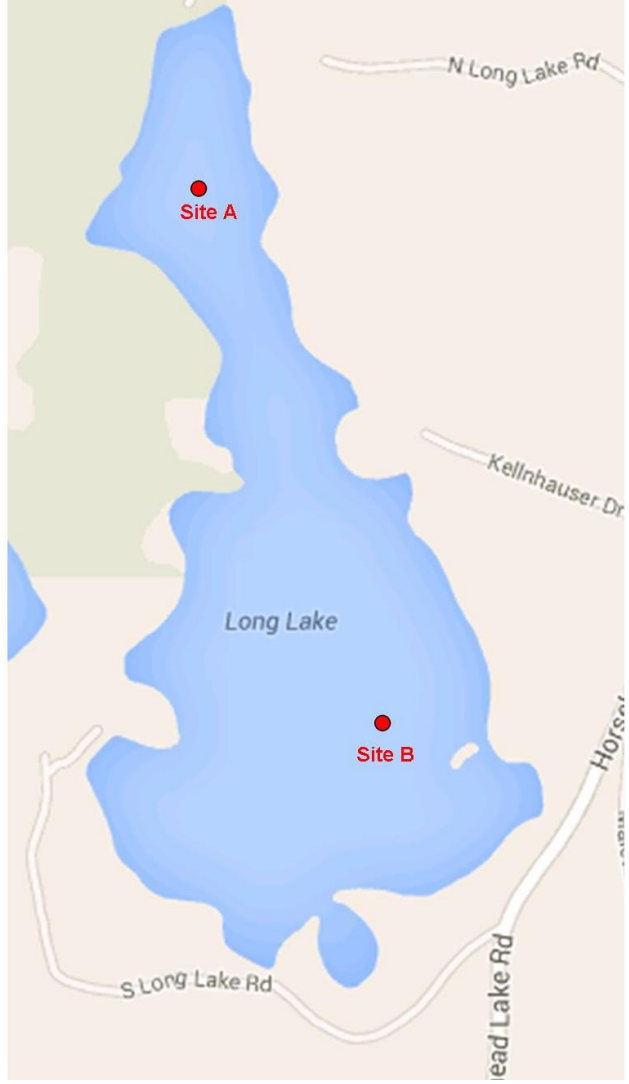
WBIC: 1001300  
Previous AIS Findings: None  
New AIS Findings: None  
Field Date: June 18, 2014  
Field Crew: Stephanie Boismenu and Alyssa Nycz, AIS Project Assistants,  
Oneida County Land and Water Conservation Department  
Report by: Alyssa Nycz

Stephanie and I monitored Long Lake (#1001300) on Wednesday, June 18<sup>th</sup>. We used our canoe to navigate the lake (Figure 1). Our goals were to take Secchi disk and dissolved oxygen readings in the deepest parts of the lake, as well as perform a visual survey along the public boat landing and two other shoreline locations.

Site A marks the first deep hole that we collected data from. Our Secchi disk reading was eighteen feet. Additionally, we measured dissolved oxygen levels one foot below the water's surface, and at three foot intervals below that. We were not able to obtain accurate readings below a thirteen foot depth. Table 1 presents dissolved oxygen levels and temperature at various depths. We repeated the same process at Site B, which had a Secchi disk reading of twenty feet. Our notes are listed in Table 2.

After collecting data at our deep hole sites, we beached the canoe along the shoreline of the southern end of the lake. We walked knee-deep about one hundred feet from our canoe in either direction along the shoreline. The property owner happens to be the president of the lake association, and he said that while there appears to be a private launch on his waterfront, this is currently not in use. We did not find any suspicious plant or animal matter along the shoreline at this location.

We continued our visual survey in the loon nesting bay located at the southeast end of the lake. We also inspected a portion of the southwestern shoreline. On our way back to the boat landing at the northern end of the lake, we inspected a portion of shoreline along the northeast shoreline. Finally, we canoed about one hundred feet on either side of the boat landing. In each of the locations we inspected, we found nothing of concern. Much of the lake's shoreline consisted of healthy, native vegetation, and all snails that we observed were also native.



**Figure 1.** A map of Long Lake #1001300 including the deep hole sites A and B.

**Table 1.** Dissolved oxygen levels and temperature readings at deep hole site A.

<b>Depth</b>	<b>Dissolved Oxygen Level</b>	<b>Temperature Reading</b>
1'	8.72mg/L	69.9°F
4'	8.74mg/L	69.4°F
7'	8.79mg/L	69.2°F
10'	8.89mg/L	68.6°F
13'	8.92mg/L	67.5°F

**Table 2.** Dissolved oxygen levels and temperature readings at deep hole site B.

<b>Depth</b>	<b>Dissolved Oxygen Level</b>	<b>Temperature Reading</b>
1'	8.73mg/L	70.3°F
4'	8.77mg/L	69.9°F
7'	8.79mg/L	69.7°F
10'	8.88mg/L	68.9°F
13'	9.12mg/L	67.1°F