

# Indian Lake

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                  Clarity Report of July 23, 2014



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## Indian Lake AIS Monitoring and Water Clarity Report

WBIC: 1598900  
Previous AIS Findings: Chinese Mystery Snails, Freshwater Jellyfish  
New AIS Findings: None  
Field Date: July 23, 2014  
Field Crew: Stephanie Boismenu and Sara Mills, AIS Project Assistants,  
Oneida County Land and Water Conservation Department  
Report by: Sara Mills

Stephanie Boismenu and I monitored Indian Lake (#1598900) on Wednesday, July 23, 2014. We were accompanied by members of the Indian Lake Association. They were kind enough to provide a pontoon boat so all of us could monitor together. Our purpose for monitoring Indian Lake was to measure water clarity and dissolved oxygen in the lake, check for the possible presence of invasive species, and provide an example for the members of the lake association to follow when they do their own lake monitoring.

The deep hole site where we measured water clarity and dissolved oxygen ranged between 27 and 28 feet in depth. Our secchi disk reading for water clarity was in between 2 and 3 meters or approximately 8.2 feet. Additionally we measured dissolved oxygen in the lake, starting at 1 foot below the water surface and continuing at 3 foot intervals. Table 1 presents the dissolved oxygen levels and temperature readings at the various depths measured in Indian Lake.

We visually inspected the lake's shoreline at three sites labeled one, two, and three on Figure 1. Indian Lake is listed only to have freshwater jellyfish and Chinese mystery snails. We did not find any indication of any other invasive species being in the lake. Our first location (site one on figure 1) was located on the northeast side of the lake near a bay. It was sandy with a lot of pickerel weed, Chinese mystery snails, and some native snails.

Our second site (site two on figure 1) was at the boat landing. The boat landing does not have a dock. It had more weeds there than our previous site with most of the weeds being pondweeds. There was no indication of Eurasian water-milfoil or curly leaf pondweed mixed in with the native weeds. There were less Chinese mystery snails at this site.

Our third site (site three on figure 1) was across from the boat landing at the entrance to an island that can be used for one night overnight camping. It was less sandy than the other sites and had more pondweed. There were Chinese mystery snails but no other indication of any other invasive species there. The vegetation seemed to be very healthy.

We also attached a zebra mussel plate to the dock of Martin and Joyce Haavisto at 7154 Timber Lane that is to be removed in about 2 weeks to check for the presence or absence of zebra mussels in Indian Lake. This dock is located right after the boat landing.



**Figure 1.** A map of Indian Lake with lines representing the approximate locations of our visual surveys and a pink dot representing the deep hole site.

**Table 1.** The dissolved oxygen levels and temperature readings in Indian Lake at deep hole site.

<b>Depth</b>	<b>Dissolved Oxygen Level</b>	<b>Temperature Reading</b>
1'	8.50 mg/L	72.3°F
4'	8.46 mg/L	72.3°F
7'	8.46 mg/L	72.3°F
10'	8.43 mg/L	72.2°F
13'	8.41 mg/L	72.2°F
16'	5.84 mg/L	69.0°F
19'	2.78 mg/L	66.9°F
22'	0.26 mg/L	62.5°F
25'	0.08 mg/L	58.7°F
27'	0.05 mg/L	55.2°F