

Sunday Lake

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 Clarity Report of July 2, 2014



Land & Water Conservation Department

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Sunday Lake AIS Monitoring and Water Clarity Report

WBIC: 1020600
Previous AIS Findings: Freshwater Jellyfish
New AIS Findings: Chinese Mystery Snails
Field Date: July 2, 2014
Field Crew: Stephanie Boismenu and Sara Mills, AIS Project Assistants,
Oneida County Land and Water Conservation Department
Report by: Sara Mills

Stephanie and I monitored Sunday Lake (#1020600) on July 2, 2014. Our maps told us that there were two boat landings on Sunday Lake (Sites B and C on Figure 1). Upon arrival to Sunday Lake, we realized that both boat landings are no longer for use to the public. In 1941 when the lake was surveyed, these boat landings belonged to resorts but now they belong to private residences. We were asking for directions and a man let us launch our canoe from his daughter's dock.

Once we were on the lake, we canoed to the deep hole, labeled Site A in Figure 1. We took a Secchi disk reading and a dissolved oxygen reading. Our Secchi disk reading was thirteen feet. Our dissolved oxygen reading started at one foot below the water surface and then at three foot intervals until we could no longer get accurate readings. Table 1 presents the amount of dissolved oxygen and temperature at various depths.

After we collected data at the deep hole site, we chose three spots along the shoreline to conduct visual surveys for 100 feet. We chose the first spot at random near the Southeast corner. Our second spot was near a supposed carry-in access off of highway 70 (Site D on Figure 1). We believe it to be used as a carry-in access due to its location to the highway, a slight path, and a survey post. Our third spot was near Site C due to it once being a public landing. Our first visual survey at the Southeast corner resulted in us finding Chinese mystery snails (Site E on Figure 1) that we bagged and brought back to the office for further examination since Sunday Lake is reported to only have invasive freshwater jellyfish. The other two visual surveys did not yield any new discoveries of invasive species. There seemed to be a very good amount of native vegetation and a lot of fish. The invasive snails did not appear to be at any other spots that we surveyed.



Figure 1. Sunday Lake (#1020600)

- Site A: Deep hole
- Site B and C: Previous boat landings
- Site D: Carry-in access
- Site E: Newly discovered Chinese mystery snails

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

Depth	Dissolved Oxygen Level	Temperature
1'	8.48 mg/L	73.5°F
4'	8.56 mg/L	72.6°F
7'	8.60 mg/L	72.4°F
10'	8.52 mg/L	72.2°F