

# Sweeny Lake

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Clarity Report of August 13,  
2014



Land & Water Conservation Department

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## **Sweeny Lake AIS Monitoring and Water Clarity Report**

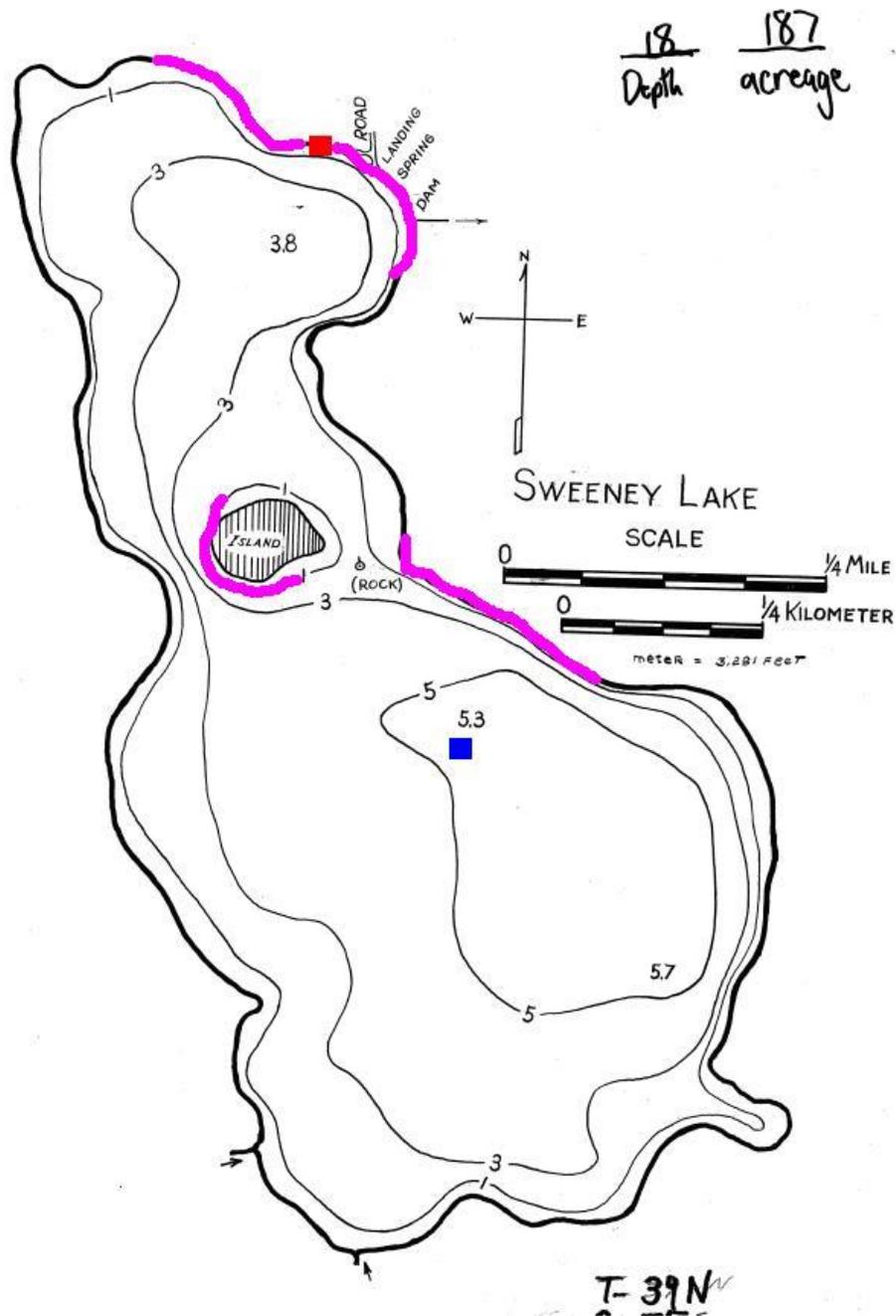
WBIC: 1589600  
Previous AIS Findings: Chinese Mystery Snails  
New AIS Findings: Purple Loosestrife  
Field Date: August 13, 2014  
Field Crew: Stephanie Boismenu and Alyssa Nycz, AIS Project Assistants,  
Oneida County Land and Water Conservation Department  
Report by: Alyssa Nycz

Stephanie and I monitored Sweeny Lake on Wednesday, August 13<sup>th</sup>. After launching our canoe at the lake's public access, we discovered a purple loosestrife colony to the west of the boat landing. We estimate that the colony extends about 25 feet down the shoreline. We originally planned to clip these plants, just as we have clipped other purple loosestrife plants in Oneida County. However, a closer look revealed that we need waders to clip the purple loosestrife at this location.

As Stephanie and I were navigating to the lake's deep hole, we noticed that the depth finder was reading depths greater than 5.7 feet, so the Wisconsin Department of Natural Resources' contour map (Figure 1) is no longer accurate with regards to depth. We anchored the canoe at a depth of 12 feet and mapped GPS coordinates of our location. At the deep hole, we recorded a Secchi disk reading of only 3 feet. Our dissolved oxygen measurements are represented in Table 1.

The first area of shoreline we visually monitored was northeast of our deep hole. We did not observe anything of concern along this stretch of shoreline. There is native vegetation at this location, which we mapped with the GPS. Stephanie and I wanted to canoe the northern shoreline of the island for our second location, but due to the wind speed, this would have been difficult. Instead, we began monitoring the southern shoreline of the island, working westward from a large white pine that has fallen sideways over the water. We observed lots of vegetation here that provides for good fish habitats. We continued canoeing around the northwest side of the island, and then made our way back to the boat landing to monitor along this shoreline, as well. At the boat landing, we observed two Chinese mystery snails, but since these have been previously identified on the lake, our finding is not new.

Overall, the only cause for concern that we observed on Sweeny Lake is the cluster of purple loosestrife plants growing to the west of the boat launch.



**Figure 1.** A map of Sweeney Lake: the red square is the approximate location of the public boat landing, the blue square is the approximate location of our deep site, and the pink lines represent areas where we visually monitored the shoreline for the presence/absence of AIS.

**Table 1.** Dissolved oxygen and temperature readings were taken at our deep hole site, where the depth was approximately 12 feet.

<b>Depth</b>	<b>Dissolved Oxygen Level</b>	<b>Temperature Reading</b>
1'	7.37 mg/L	71.2°F
4'	7.05 mg/L	71.3°F
7'	6.91 mg/L	71.2°F
10'	6.82 mg/L	71.1°F