

Aquatic Invasive Species Early Detection Survey

Surveyor 1: Ethan Hosey
Surveyor 2: NA

Survey Date: 9/22/2020
Survey Time: 15:30 – 19:00 CDT

Environmental Conditions

Fair conditions with no precipitation, air temperature at 63 °F, 81% relative humidity and no wind. Water temperature at 68 °F.

History

Known infestations of curly-leaf pondweed since 1980 and Zebra Mussels since 2017 (EDDMapS).

Diagnosis

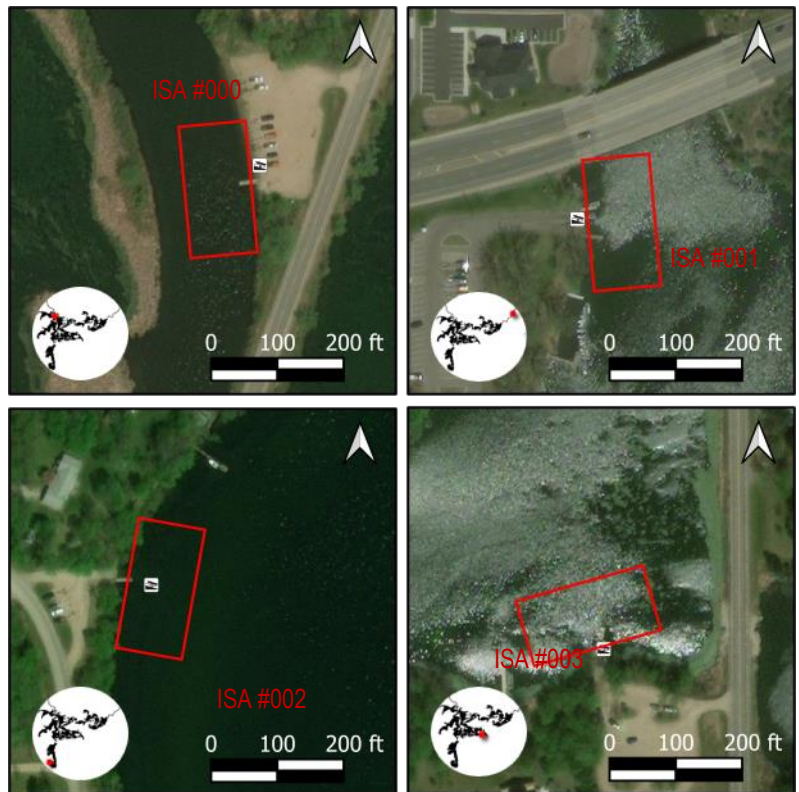
- Starry stonewort: Not detected
- Eurasian watermilfoil: Suspected but unconfirmed hybrid (see attached)**
- Curly-leaf pondweed: Not detected
- Brittle naiad: Not detected
- Zebra mussels: Adults detected**

Outcome Summary

Transects within sampling area with saturating rake tosses, visual and sonar observations. Water was too turbid at sampling period for diving to be an effective tool for detection. Adult Zebra Mussels were detected at ISA #001. Curly-leaf pondweed was not detected at the time of this survey though there is a known infestation.

Survey Description

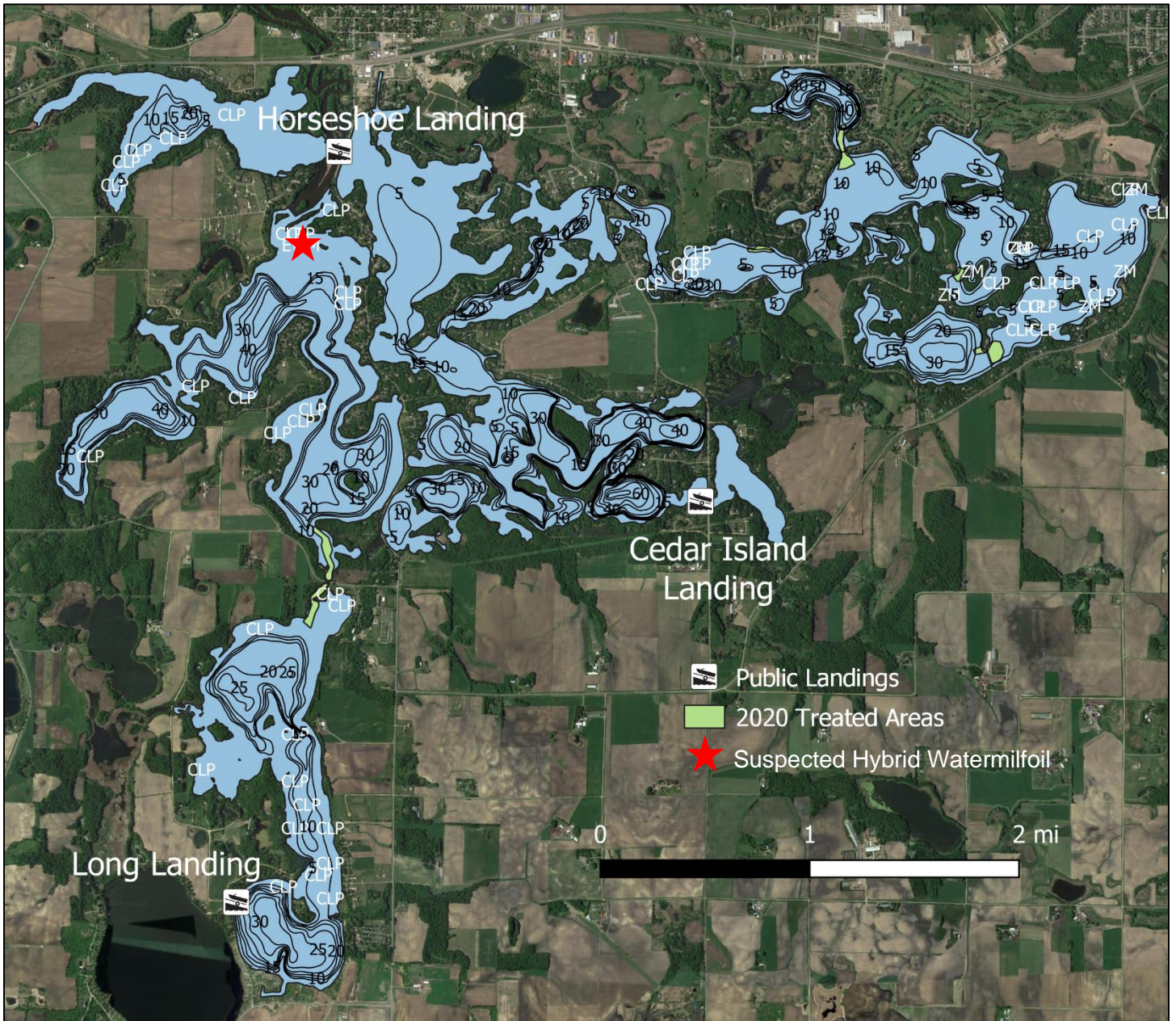
- ISA #000: 200 ft x 100 ft, boat launch
- ISA #100: 200 ft x 100 ft, boat launch
- ISA #200: 200 ft x 100 ft, boat launch
- ISA #300: 200 ft x 100 ft, boat launch
- Point Intercept Survey (see attached)



*ISA = Intensive Search Area

Aquatic Plant Point Intercept Survey

August 2020



Suspected new infestation of hybrid watermilfoil (Northern watermilfoil x Eurasian watermilfoil) in Horseshoe Lake. A single plant was collected and photographed (see next page). A report was made to the MN DNR AIS Specialist (Chris Jurek) who sent staff to visit the site. They were unable to find any additional plants. Limnopro also revisited the site and were unable to find more. Given the MN DNR was unable to find additional plants and because the plant we collected did not have intact roots, the MN DNR would not provide an official confirmation.

Point Location: -94.52627041325391133, 45.43640588908289146

Suspected Hybrid Watermilfoil

Horseshoe Lake

