

## Horseshoe Lake

**Survey Date:** June 17, 2019

**Last Surveyed:** 2016

### Lake Description

Horseshoe Lake is 398.58-acres and has 4.46-miles of shoreline. It is located in the town of Piercefild, St. Lawrence County and lies in the Raquette River watershed. The team launched two canoes at the hand launch at the southeastern end of the lake.

### Aquatic Invasive Plant Presence

A total of 5 invasive *Myriophyllum heterophyllum* (variable leaf milfoil) plant beds were mapped, with the heaviest concentrations documented at the southwestern end of the lake.

### Native Plant Biota

Comprehensive surveys of all native plants found within the lake were not prioritized in 2019 as this data had previously been collected in 2016. Alongside the *Myriophyllum heterophyllum* beds were three varieties of floating plant species, including: *Brasenia schreberi* (watershield), *Nymphaea odorata* (white water lily), and *Nuphar lutea* (yellow pond lily). Submerged plants detected in Horseshoe Lake were: *Eriocaulon* spp. (pipewort), *Utricularia purpurea* (large purple bladderwort), *Utricularia vulgaris* (common bladderwort), and *Vallisneria americana* (eelgrass).

### Aquatic Invasive Animal Presence

Sediment sieves were taken to determine the presence of *Corbicula fluminea* (Asian clams). None were found. Three plankton tows were also conducted with no invasive zooplankton detected.

### Invasive Species Percent Cover (See map on adjacent page)

Bed	Variable Leaf Milfoil			Asian Clam	Spiny Waterflea
	Size (Ac.)	Size (Sq. Ft.)	% Cover	Present (Y/N)	Present (Y/N)
1	.02	711.54	26-50	No	No
2	.57	24940.8	11-25		
3	.05	2135.45	11-25		
4	9.84	428714	26.50		
5	.093	40597.7	11-25		

### Horseshoe Lake Aquatic Plant Survey 2019

County: St Lawrence      Date Surveyed: 06/17/2019  
 Town: Piercefild      AIS Bed Area (acres): 11.41  
 Lake Area (acres): 398.58      AIS Observed: VLM

   Not Surveyed  
 Native Beds     Invasive Beds  
 PT Phytoplankton Tow     ss Sieve Sample

Native Vegetation Biovolume (%)	Invasive Plant Density (%)
<span style="display: inline-block; width: 15px; height: 10px; background-color: #FFFFFF; border: 1px solid black;"></span> < 1	<span style="display: inline-block; width: 15px; height: 10px; background-color: #F08080; border: 1px solid black;"></span> < 1
<span style="display: inline-block; width: 15px; height: 10px; background-color: #C8E6C9; border: 1px solid black;"></span> 1 - 10	<span style="display: inline-block; width: 15px; height: 10px; background-color: #FFCDD2; border: 1px solid black;"></span> 1 - 10
<span style="display: inline-block; width: 15px; height: 10px; background-color: #81C784; border: 1px solid black;"></span> 11 - 25	<span style="display: inline-block; width: 15px; height: 10px; background-color: #FF8A65; border: 1px solid black;"></span> 11 - 25
<span style="display: inline-block; width: 15px; height: 10px; background-color: #4DB6AC; border: 1px solid black;"></span> 26 - 50	<span style="display: inline-block; width: 15px; height: 10px; background-color: #FF5722; border: 1px solid black;"></span> 26 - 50
<span style="display: inline-block; width: 15px; height: 10px; background-color: #2E7D32; border: 1px solid black;"></span> 51 - 100	<span style="display: inline-block; width: 15px; height: 10px; background-color: #D32F2F; border: 1px solid black;"></span> 51 - 100

