

Lake Narrative

Loon Lake

Survey Dates: July 31, and August 22, 2018

Lake Description

Loon Lake is 547.16 acres. It is located in Chester, Warren County and lies in the Upper Hudson watershed. The team launched at the town launch on the southern-most shore of the lake.

Aquatic Invasive Plant Presence

There is active invasive *Myriophyllum spicatum* (Eurasian watermilfoil) management on Loon Lake. At the time of survey, the management team was removing *Myriophyllum spicatum* from the lake. Nine beds of *Myriophyllum spicatum* were detected. Beds were moderately dense. *Trapa natans* (water chestnut) is another AIS that has been historically found in Loon Lake. In 2015, a small infestation was detected by a contracted management team and APIPP has been assisting the lake association with management ever since. No *Trapa natans* was detected in 2018. *Potamogeton crispus* (curly-leaf pondweed) is another known invasive species in Loon Lake, though none was detected during this survey. *Potamogeton crispus* has a unique biology that may factor into detection. It is usually one of the first plants to emerge each spring, and by mid-June or July the plants typically have died off for the season.

Native Plant Biota

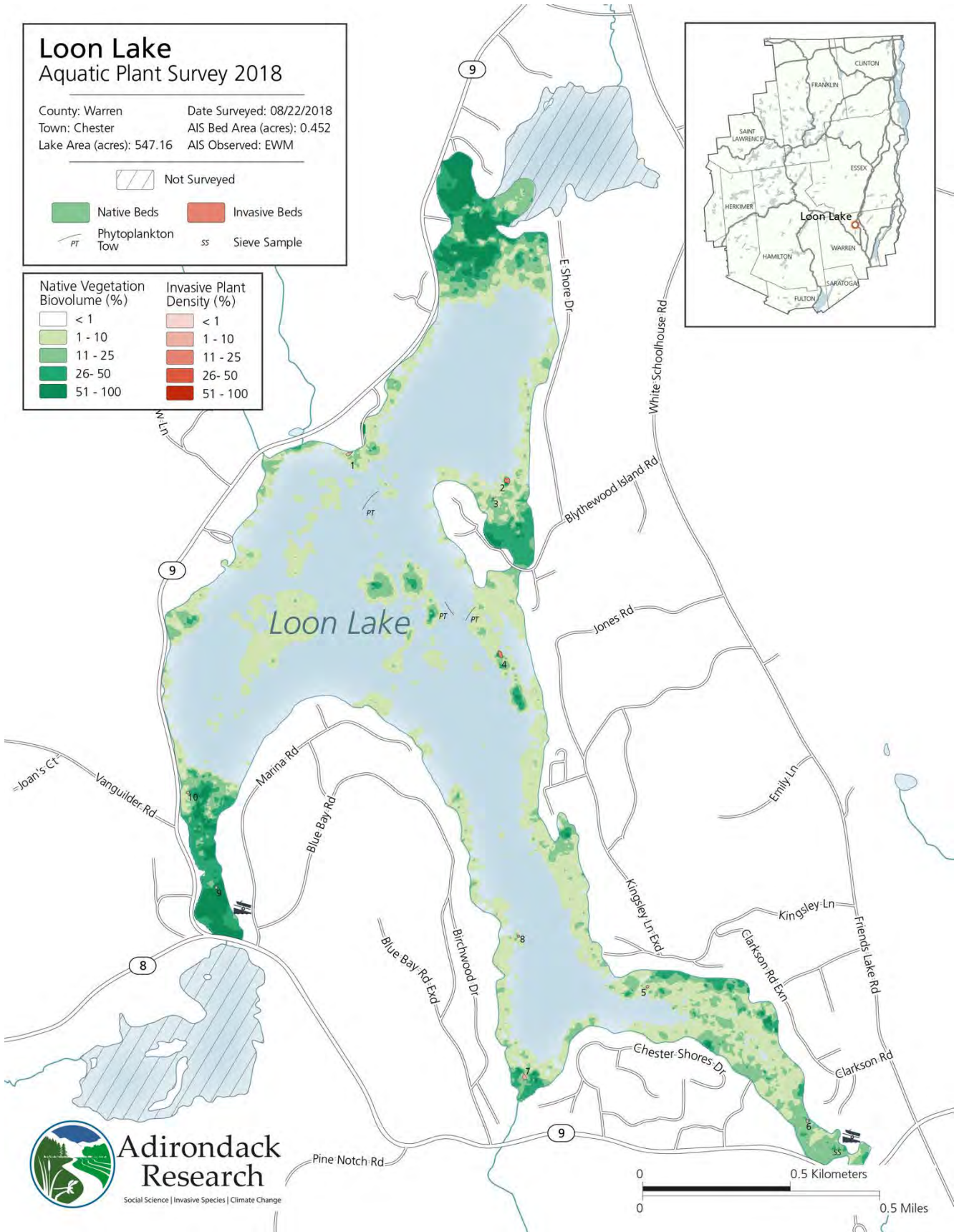
Comprehensive surveys of all native plants found within the pond were not prioritized in 2018, as this data had been previously collected in 2015 when the lake was first surveyed. Native species detected in Loon Lake included: *Potamogeton amplifolius* (large leaf pondweed), *Brasenia schreberi* (watershield), *Elodea canadensis* (common waterweed), *Potamogeton robbinsii* (fern pondweed), *Nitella* spp., *Myriophyllum sibiricum* (northern watermilfoil), *Chara* spp., *Vallisneria americana* (eelgrass), and *Nuphar variegata* (bullhead pond lily).

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 plankton detected.

Invasive Species Percent Cover (See map on adjacent page)

Eurasian Watermilfoil				Eurasian Watermilfoil			
Bed	Size (Ac.)	Size (Sq. Ft.)	% Cover	Bed	Size (Ac.)	Size (Sq. Ft.)	% Cover
1	0.08	3,391	1 to 10	9	0.01	366	1 to 10
2	0.15	6,454	11 to 25				
3	0.000007	0.308097	1 to 10				
4	0.14	6,008	11 to 25				
5	0.000004	0.154658	1 to 10				
6	0.01	326	1 to 10				
7	0.10	4,445	1 to 10				
8	0.02	895	11 to 25				
				Asian Clam		Spiny Waterflea	
				Present (Y/N)		Present (Y/N)	
				No		No	








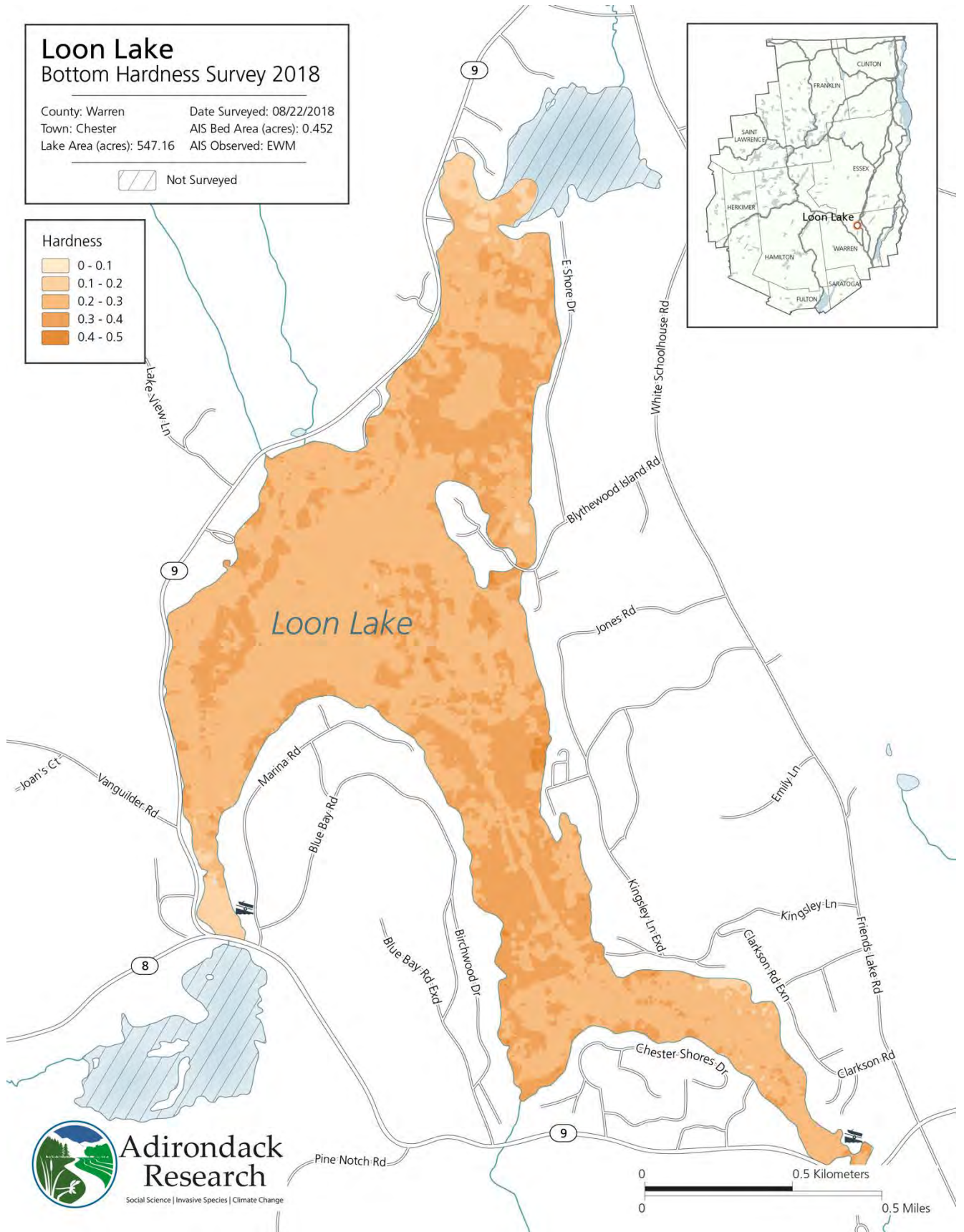
Loon Lake Bottom Hardness Survey 2018

County: Warren Date Surveyed: 08/22/2018
 Town: Chester AIS Bed Area (acres): 0.452
 Lake Area (acres): 547.16 AIS Observed: EWM

 Not Surveyed

Hardness

-  0 - 0.1
-  0.1 - 0.2
-  0.2 - 0.3
-  0.3 - 0.4
-  0.4 - 0.5




**Adirondack
Research**







Social Science | Invasive Species | Climate Change

Loon Lake
Bathymetry Survey 2018

County: Warren Date Surveyed: 08/22/2018
 Town: Chester AIS Bed Area (acres): 0.452
 Lake Area (acres): 547.16 AIS Observed: EWM

 Not Surveyed

Bathymetry

-  0 - 5
-  5 - 10
-  10 - 20
-  20 - 30
-  30 - 40
-  more 40

