



# Capital Region PRISM AIS Detect & Monitor Report

## Lake Bonita, Moreau Lake State Park, Saratoga County

### Capital Region PRISM AIS Early Detection Survey

On June 28<sup>th</sup>, 2024 the Capital Region PRISM conducted an aquatic survey on Lake Bonita located in Saratoga County. The survey focused on early detection of Tier 1-4 aquatic invasive species. Upon completion of the surveys it was determined that no AIS were detected. Dominant native species at the time of survey included: Eel grass, pipewort, white waterlily, and Watershield.

Lake Bonita embodies 40.5 acres and is located in the town of Corinth, Saratoga County. This waterbody is located within Moreau Lake State Park. Boating access to Lake Bonita is prohibited unless a permit is obtained from the NYS Office of Parks, Recreational and Historic Preservation. The shoreline is wooded with a hiking trail around the perimeter. Evidence of fishing from the shoreline is evident from lines tangled in tree limbs. The bottom cover of the lake is primarily comprised of woody debris, leaf pack, macrophytes and boulders.



### Invasive Species Recorded at Lake Bonita

Common Name	Scientific Name	Location (GPS)	Growth Type	Phenology	Abundance
No AIS detected					

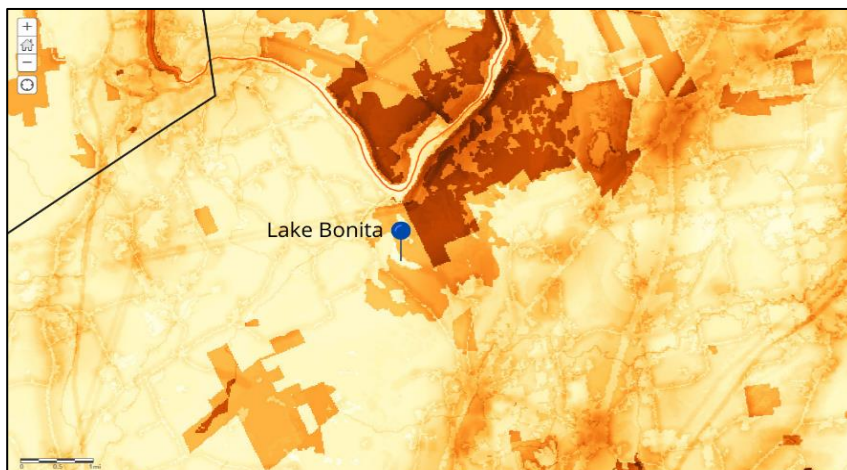
**Growth Type:** Tree, Shrub, Vine, Ground Cover, Herbaceous, Riparian, Submerged, Floating, Emergent, Wetland, Pest, Animal

**Phenology:** Flowering, Leaf unfolding, fruit ripening, leaf color change, dormant, swarming, spawning, emergence (insects), migrating, in seed, senesce

**Distribution/Abundance:** Trace (single plant/clump), Sparse (scattered plants/clumps), Dense plants/clumps, linearly scattered, Monoculture

### New York State Invasive Species Prioritization Model

Lake Bonita is located within Moreau Lake State Park which has a very high comprehensive score on the NYS Invasive Species Prioritization Model. Locations with high comprehensive scores have high ecological significance, a high risk of spread of invasives into the area, and high value according to their protected status. Moreau Lake State Park is an Invasive Species Prevention Zone. [NYS Invasive Species Prioritization Model.](#)





## AIS Detect & Monitor Survey: General Information

<b>Waterbody Name:</b> Lake Bonita, Moreau Lake State Park	<b>Date of Survey:</b> June 28 <sup>th</sup> , 2024
<b>Survey Lead:</b> Hannah Coppola	<b>Time to Conduct Survey:</b>
<b>Team Members:</b> Addison Kubik, E&O Coordinator CR-PRISM	<b>Address:</b> 201 Wilton Rd, Corinth, NY 12822
<b>iMapInvasives User ID:</b> 21052	<b>County:</b> Saratoga
<b>Property Owner Contact:</b> NYS OPRHP, Moreau Lake State Park (518) 793-0511	<b>Coordinates:</b> 43°12'27.4"N 73°46'06.5"W
<b>Date of Last Survey:</b> July 8 <sup>th</sup> , 2022	<b>Waterbody Acreage:</b> 40.5
<b>Recommended Date of Next Survey:</b> 2027	<b>Average Depth:</b> Unknown, estimated 10ft
<b>Has This Site Received Previous Management?</b> This site is free of AIS and has not received previous management.	

## Survey Techniques

This survey was conducted using the following methods.

- Top-side (visual): Surveyor observers and records species detected by visually inspecting the water within the littoral zone. 41 species observations.
- Meandering rake toss: 14 total rake tosses. In locations where no species are detected, multiple rake tosses are thrown to increase data confidence.

## Native Species Presence

Common Name	Scientific Name	Observation Notes
Arrowhead	<i>Sagittaria sp.</i>	
Common bladderwort	<i>Utricularia vulgaris</i>	Trace abundance, free floating
Creeping bladderwort	<i>Utricularia gibba</i>	
Eel Grass	<i>Vallisneria americana</i>	Dense to sparse populations throughout. Small monoculture found on western side of waterbody.
Flat-leaved bladderwort	<i>Utricularia intermedia</i>	
Freshwater sponge	<i>Spongilla lacustris</i>	Single sample found
Large leaf pondweed	<i>Potamogeton ampifolius</i>	Sparse at southern end of waterbody
Pickerelweed	<i>Pontederia cordata</i>	
Seven-angled pipewort	<i>Eriocaulon aquaticum</i>	Submerged and emergent plants. One flowering stalk per leaf rosette
Lake Quillwort	<i>Isoetes lacustris</i>	
Ribbon leaf pondweed	<i>Potamogeton epihydrus</i>	



Robbin's pondweed	<i>Potamogeton robbinsii</i>	Primarily found in sparse populations at the south/east end.
Slender naiad	<i>Najas flexilis</i>	
Small pondweed	<i>Potamogeton pusillus</i>	
Spatterdock	<i>Nuphar variegata</i>	
Watershield	<i>Brasenia schreberi</i>	Sparse to dense populations
White waterlily	<i>Nymphaea odorata</i>	Dense populations found in pockets throughout waterbody

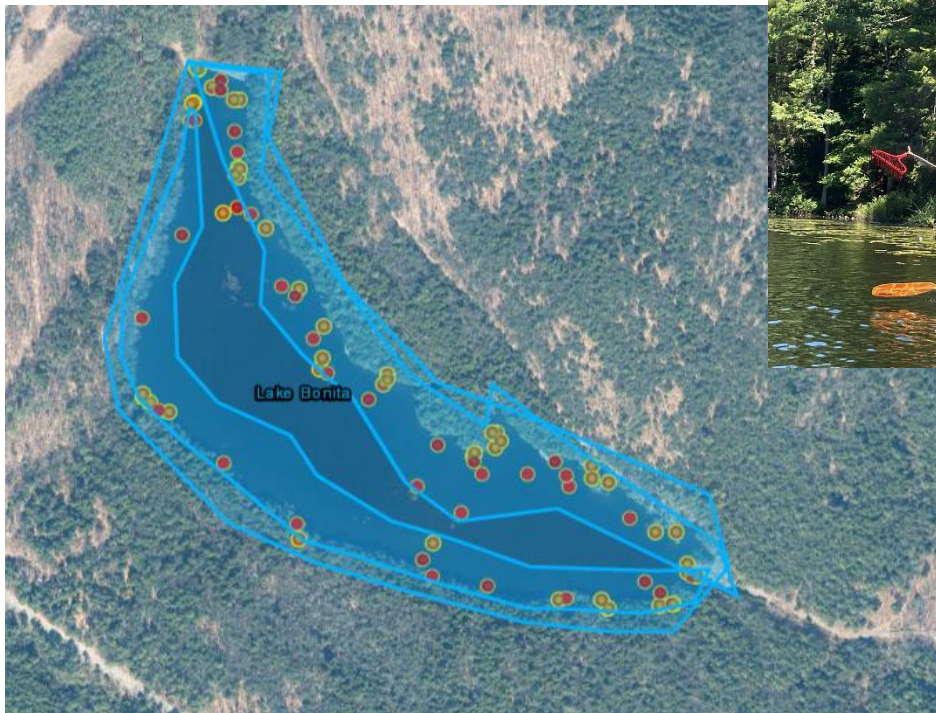
## Summary of Recommendations

### Prevention

Watercraft are not permitted on Lake Bonita. Lack of watercraft presence on Lake Bonita assists in preventing the spread of aquatic invasive species. Watercraft and equipment used during surveying should always be de-contaminated prior to arriving at the launch site.

With the presence of fishing, a plankton net survey would be beneficial in the future for detecting the presence of spiny and fishhook water fleas. Identifying and reporting any suspected aquatic invasive species is encouraged to ensure early detection.

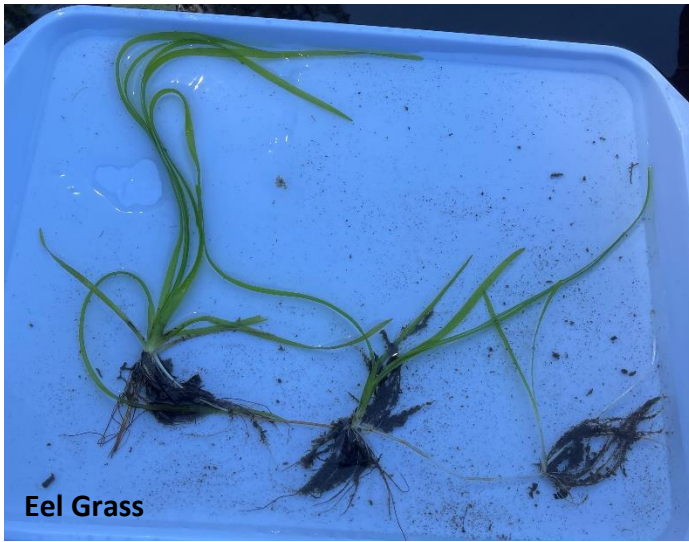
### Survey Photos Continued on Next Page



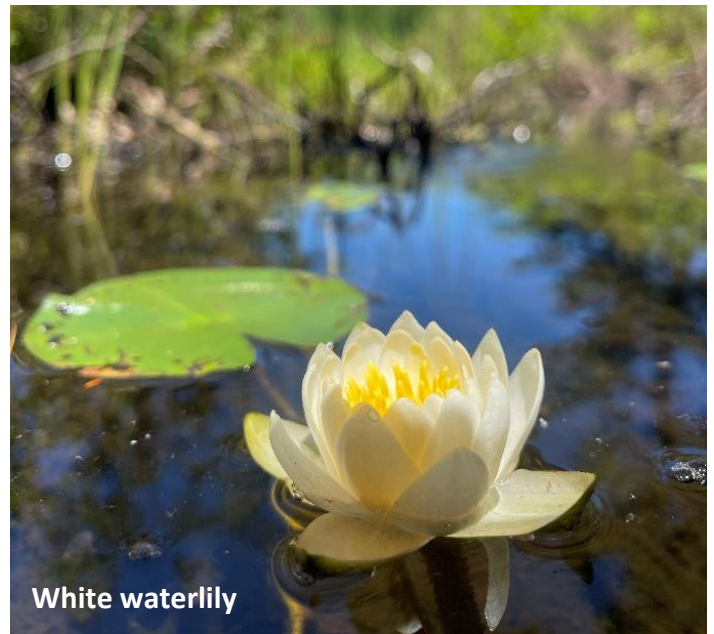
Red indicates rake toss areas conducted in 2022/2024

Yellow indicates species detected using top side visual methodology 2022/2024





Eel Grass



White waterlily



Large leaf pondweed



Snake mouth orchid



Seven-angled pipewort

