

AIS Survey Report

Lake Name: WASHINGTON LAKE

DOW: 47004600

Aquatic Invasive Species Early Detection Survey (Gold Package)

Surveyor 1: Ethan Hosey **Survey Date**: 8/23/2021

Surveyor 2: Dylan Notsch **Survey Time**: 11:00 – 17:00 CDT

Environmental Conditions

Partly cloudy conditions with no precipitation, air temperature at 90 °F, 43% relative humidity, 4 mph wind from the south. Water temperature at 78 °F.

History

Known infestations of Eurasian watermilfoil, curly-leaf pondweed and zebra mussels as of 2017. EWM was treated in 2020.

Diagnosis

Starry stonewort: Not detected Eurasian watermilfoil: Not Detected Curlyleaf pondweed: Present Brittle naiad: Not detected Rusty crayfish: Not detected

Banded mystery snails: Not detected Chinese mystery snails: Not detected Zebra mussels (Juvenile-Adults): Present

Common carp: Present

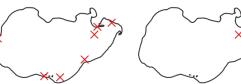




Zebra Mussels



Common Carp



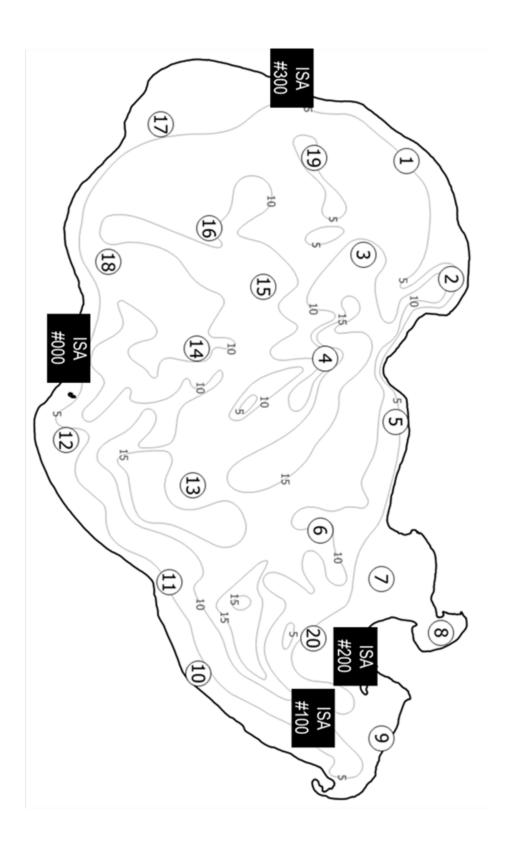
X Invasive Present

Outcome Summary

AIS were detected at multiple locations within the lake. AIS included zebra mussels (*Dreissena polymorpha*) (7/24 sites = 29%) and curly-leaf pondweed (Potamogeton crispus) (CLP; 3/24 sites =13%). Eurasian watermilfoil (Myriophyllum spicatum) was not detected but is known to be within the lake. CLP is underrepresented due to its life-cycle being such that at the time of this survey most of the annual crop has died back. No other invasive species were detected. Floating dead common carp were also found on Lake Twenty-nine native species of plants were detected, including coontail (Ceratophyllum demersum), muskgrass (Chara spp.), Canadian waterweed (Elodea canadensis), filamentous algae (various), water stargrass (Heterantha dubia), northern watermilfoil (Myriophyllum sibiricum), slender watermilfoil (Myriophyllum tenellum), slender naiad (Najas flexilis), nitella (Nitella spp.), variable-leaved pondweed (Potamogeton gramineus), Illinois Pondweed (Potamogeton illinoises), Floating-leaf Pondweed (Potamogeton natans), long-leaf pondweed (Potamogeton nodosus), small pondweed (Potamogeton pusillus), clasping-leaf Pondweed (Potamogeton Richardsonii), flat-stem pondweed (Potamogeton zosterformis), broad-leaved arrowhead (Sagittaria latifolia), hardstem bulrush (Schoenoplectus acutus), sago (Stuckenia pectinata), and water celery (Valisneria americana).

Survey Description

- ISA #000: 200 ft x 100 ft, boat launch, transect
- ISA #100: 100 ft x 100 ft, previous EWM, transect
- ISA #200: 100 ft x 100 ft, boat launch, transect
- ISA #300: 100 ft x 100 ft, inlet culvert area, transect



WASHINGTON LAKE, AIS EARLY DETECTION SURVEY: SPECIES SUMMARY AND SURVEY SITES

Site																										
Person Common Carp Carp	_	ISA #300	ISA #200	ISA #100	ISA #000	20	19	18	17	16	15	14	13	12	11	10	9	8	7	8	5	4	3	2	1	Site
A	ercent Sites					-94.35456	-94.39656	-94.38712	-94.39925	-94.39022	-94.38521	-94.37969	-94.36773	-94.37149	-94.35924	-94.35132	-94.34591	-94.35522	-94.35983	-94.36399	-94.3736	-94.37902	-94.38811	-94.38615	-94.39642	Longitude
1	Occupied	45.07117	45.07596	45.07359		45.07312	45.07265	45.06006	45.06315	45.06625	45.06969	45.0656	45.06553	45.05761	45.06415	45.06606	45.07746	45.08103	45.07727	45.07343	45.07799	45.07357	45.07582	45.08129	45.07839	Latitude
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10	4%																			×						
Filamentous Afgae Filater Fi				×				×												×						
Flatstem	$\overline{}$					×						×		×	×											
Floating-leaf Pondweed Pondweed Hardstem Bulrush Illinois Pondweed Long-leaf Pondweed Long-leaf Pondweed Long-leaf Pondweed Po	$\overline{}$		×	×						×			×													Flatstem
Note					×																					Floating-leaf
B S S S S S S S S S					×									×											\vdash	Hardstem
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Small Pondweed		×													×											Slender Naiad
1												×														
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Whorled			×		×					×																
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