

2024 Curlyleaf Pondweed Delineation

Lake Sarah (# 27-0191)
Hennepin County, MN

Surveyed April 9, 2024



Survey, Analysis, and Reporting by:

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Certified Lake Manager
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Purpose of Survey

This survey was conducted to locate and delineate areas of curlyleaf pondweed (CLP) throughout the vegetated portion of Lake Sarah (#27-0191). This information will help to guide CLP management and is required as a part of the DNR permitting process.

Survey Method

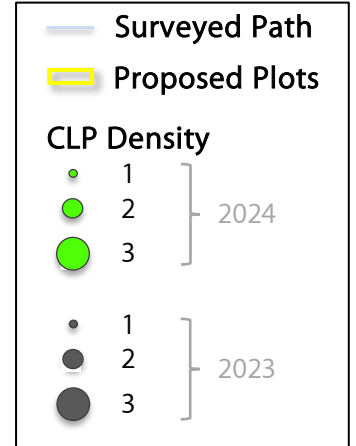
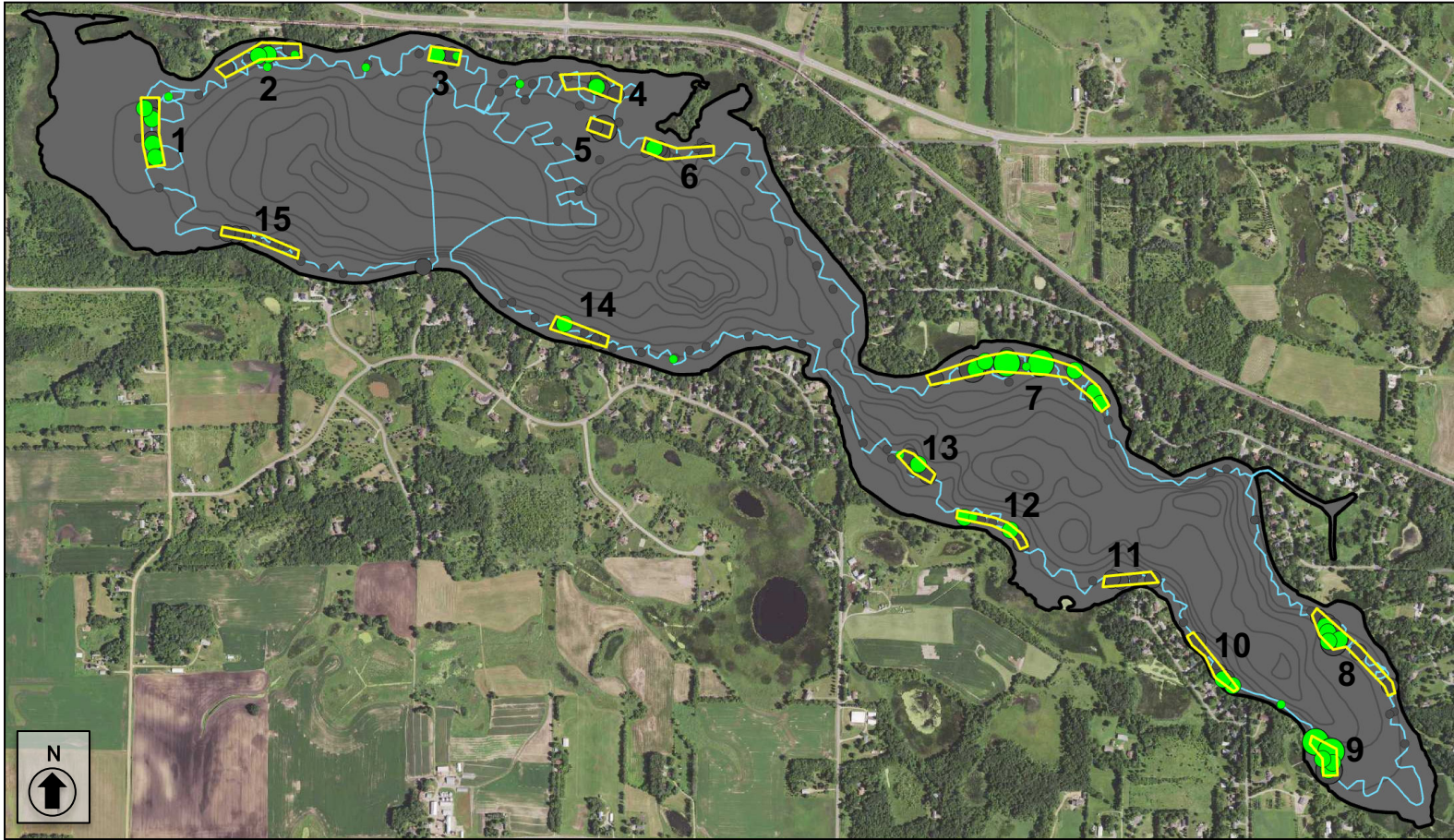
CLP Delineation Survey

We surveyed Lake Sarah on April 9, 2024. During this survey, we navigated a meandering path over the vegetated portion of the lake. While navigating this search path, we used a combination of rake tosses, visual surface observations, and sonar readings to locate and delineate areas of CLP growth. When we encountered CLP, we marked the location, recorded the water depth, and rated the density of the growth using visual and rake density scores as described in the table below. We also recorded the density of Eurasian watermilfoil and native plant species encountered during the survey.

Score	Visual	Rake
1	Light / Solitary plants	1-2 stems
2	Moderate / Scattered dense patches	3 to 9 stems
3	Dense / Uniform dense growth	10+ stems

For rake samples, we dragged a sampling rake over approximately 10 square feet of lake bottom and recorded the CLP density based upon the number of plants (stem count) retrieved on the rake. The recorded water depths and density scores were linked to the appropriate GPS locations and then mapped using desktop GIS software.

2024 Delineation of Curlyleaf Pondweed Lake Sarah (#27-0191)



Plot	Area (acres)	Avg Depth (ft)
1	2.4	7.1
2	2.4	1.9
3	0.9	1.9
4	1.9	4.5
5	0.6	2.9
6	1.6	4.3
7	5.7	2.4
8	2.7	8.0
9	1.2	6.0
10	1.2	3.6
11	1.1	3.0
12	1.3	3.4
13	1.0	10.4
14	1.4	7.3
15	1.3	4.3

Surveyed: April 9, 2024
 Methods: Rake, Visual, Sonar
 Surveyor: JA Johnson



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 Osseo, MN 55369
 fixmylake.com
 (651) 336-8696

Total 26.7 acres

Online Resources & Contacts

Minnesota Administrative Rules for Aquatic Plant Management

<https://www.revisor.mn.gov/rules/?id=6280>

Minnesota DNR – Aquatic Plant Management Regulations & Permit Application Forms

<http://www.dnr.state.mn.us/apm/index.html>

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