

Curlyleaf Pondweed in Red Rock Lake: 2019

(WBIC# 27-0076)

Hennepin County, MN

Spring Delineation Survey – May 1, 2019



Survey, Analysis, and Reporting by:

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Prepared for Riley Purgatory Bluff Creek Watershed District – May 2019

Survey & Analysis Methods

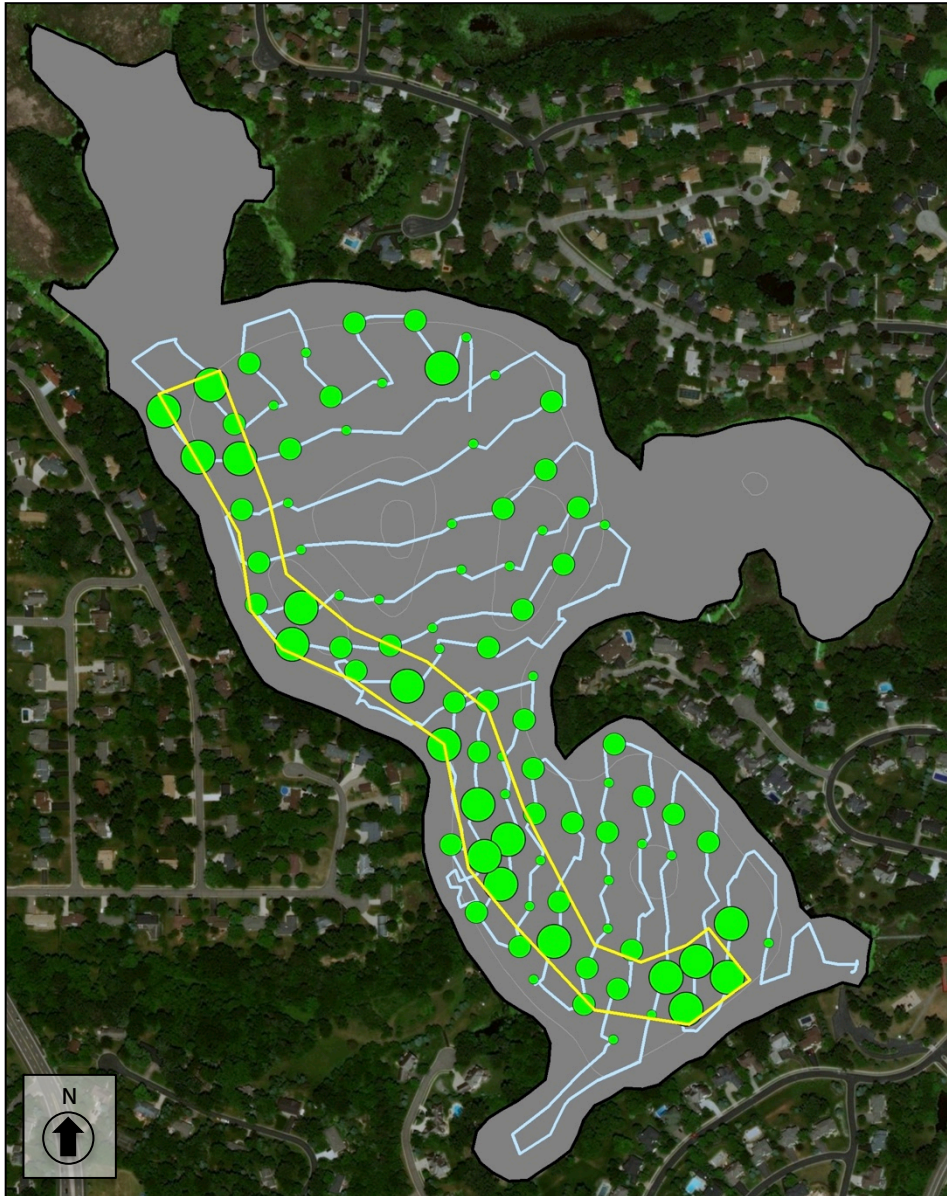
Spring Delineation Survey

Freshwater Scientific Services, LLC completed delineation survey for CLP in Red Rock Lake (#27-0076) on May 1, 2019. During this survey, we navigated a meandering search path over the littoral portion of the lake (excluding shallow bays) while using a combination of surface observations, sonar readings, and rake tosses 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.

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 retrieved on the rake (stem count). The recorded water depths and density scores were linked to the appropriate GPS locations and then mapped using desktop GIS software.

Red Rock Lake (#27-0076-00)
Spring Delineation of Curlyleaf Pondweed: May 1, 2019



Curlyleaf Pondweed
 Rake Density Rating (0-3)

- 1
- 2
- 3

□ Proposed Treatment Plot

Plot Area (acres)	Avg Depth (ft)	Avg CLP Density (0-3)
13.0	8.4	2.3

Surveyed: May 1, 2019
 Methods: Rake, Sonar, Visual
 Surveyor: JA Johnson



Map created for Riley Purgatory Bluff Creek Watershed District by:

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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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