



To: Green Lake Improvement District (GLID)
From: Eric Fieldseth, AIS Consulting Services
Date: February 18, 2021

Quote for Post-Treatment CLP Survey & EWM Survey on Green Lake (Isanti Co.)

Overview

A Curlyleaf Pondweed treatment is being planned on Green Lake (Isanti Co. – DNR ID# 30013600) for spring 2021. The treatment is proposed to use diquat herbicide, which would have a dual impact to both Curlyleaf Pondweed (CLP) and Eurasian Watermilfoil (EWM), if present at the time of treatment. The DNR has informed the GLID that a pre-treatment delineation of CLP would not be required in 2021 to obtain a permit since CLP has historically been observed in many of the same locations each year. However, if GLID receives a DNR control grant in 2021, a pre-treatment survey would likely be required as part of the grant. While there have been past pre-treatment surveys conducted on Green Lake, there has not been any post-treatment surveys assessing the efficacy of the treatments and the amount of CLP control received on a lakewide scale. Chemical treatments often result in some drift after application, providing for potential control of CLP beyond the treatment areas. In 2021, AIS Consulting Services is proposing a post-treatment survey to assess the efficacy of the treatment and determine the how much lakewide CLP control was achieved. This information will help inform future treatment strategies to control CLP and EWM. The timing of a post-treatment survey, which would likely occur in early June depending upon when CLP is treated, should occur at a time when EWM growth is active and detectable on our sample rake providing an assessment of EWM during this same survey.

Methods

The survey will follow the DNR's standard methods for delineations of invasive plants. We will maneuver our boat in a meandering pattern throughout the littoral area (≤ 15 ft.) of the lake. We will use a combination of rake tosses, visual observations, and our sonar unit to locate areas of CLP and EWM. When CLP or EWM is observed, we will search additional areas around that point to determine the boundaries of the CLP or EWM plant bed and determine acreage and estimated density of each plant bed.

Timeline

Survey will occur approximately 3 to 4 weeks following the CLP treatment. This will likely be early to mid-June, ultimately depending upon when CLP is treated.



Deliverables

Report containing the following:

- Map showing CLP and EWM distribution and estimated density of each point.
- Map showing delineated beds of CLP and EWM with average depth and acreage.
- Analysis of treatment efficacy based on historical CLP and EWM treatment areas.
- Recommendations on future management strategies.

Report with associated maps will be delivered via email within two weeks following survey. If timeline for treatment is tighter, we will work within that timeline.

Cost

\$788

Cost is lump sum and invoice will be sent along with final report.

Thank you for the opportunity to provide this proposal, please feel free to contact us if you have additional questions.

Sincerely,

Eric Fieldseth
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