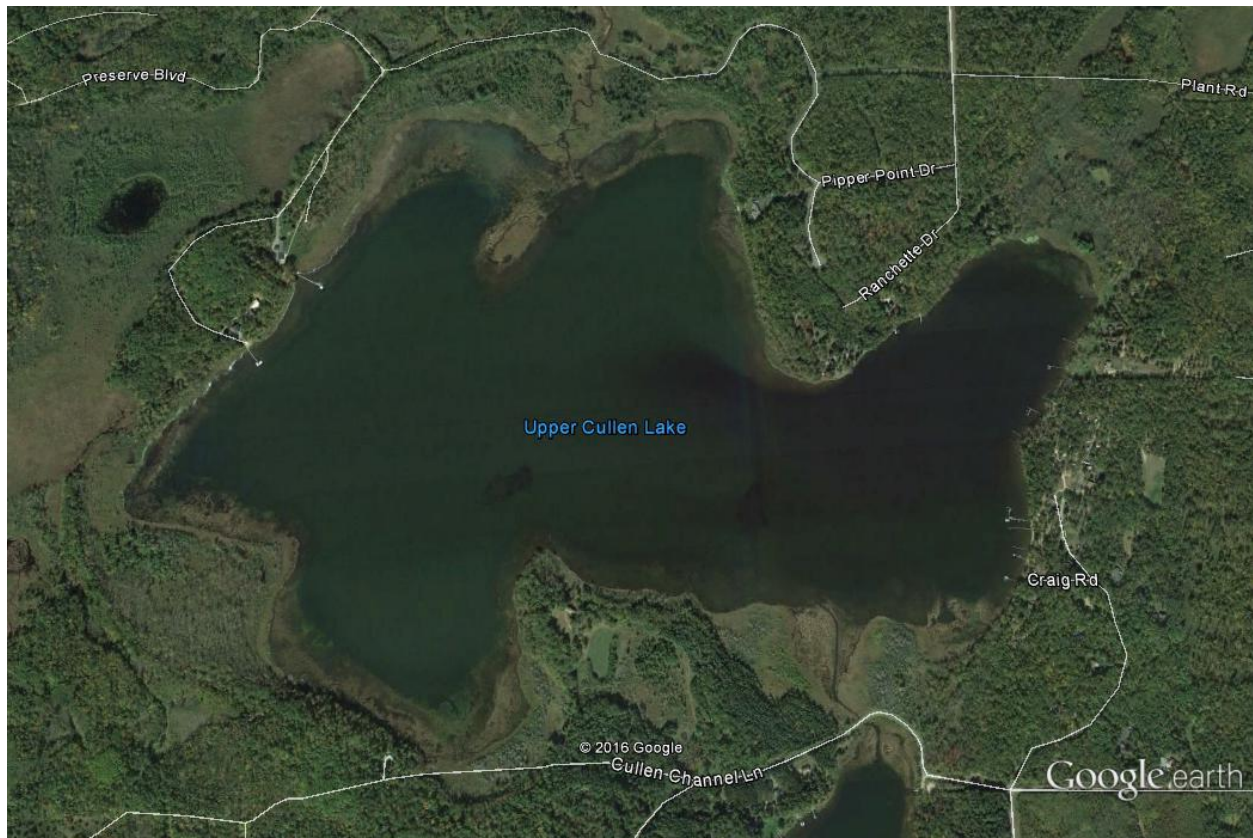


2021 CURLY LEAF PONDWEED ASSESSMENT
Upper Cullen Lake, Crow Wing County, Minnesota

Mid-Season Assessment



Submitted by:



Submitted to:
Cullen Lakes Association

July 13, 2021

Survey Information:

Clarke performed a Curly Leaf Pondweed Survey on Upper Cullen Lake on 6/18/2021. The purpose of this survey was to assess the potential treatment areas and the rest of the lake to see densities of Curly Leaf Pondweed when it was at the peak of its life cycle. This also will show areas to focus our surveying on for 2021 and use as potential treatment areas for 2021.

During the survey the technicians found 105 locations where CLP was found. The points where CLP was found were at varied densities. Some of the areas found were at densities that should be considered for treatment in 2022 pending the spring survey.

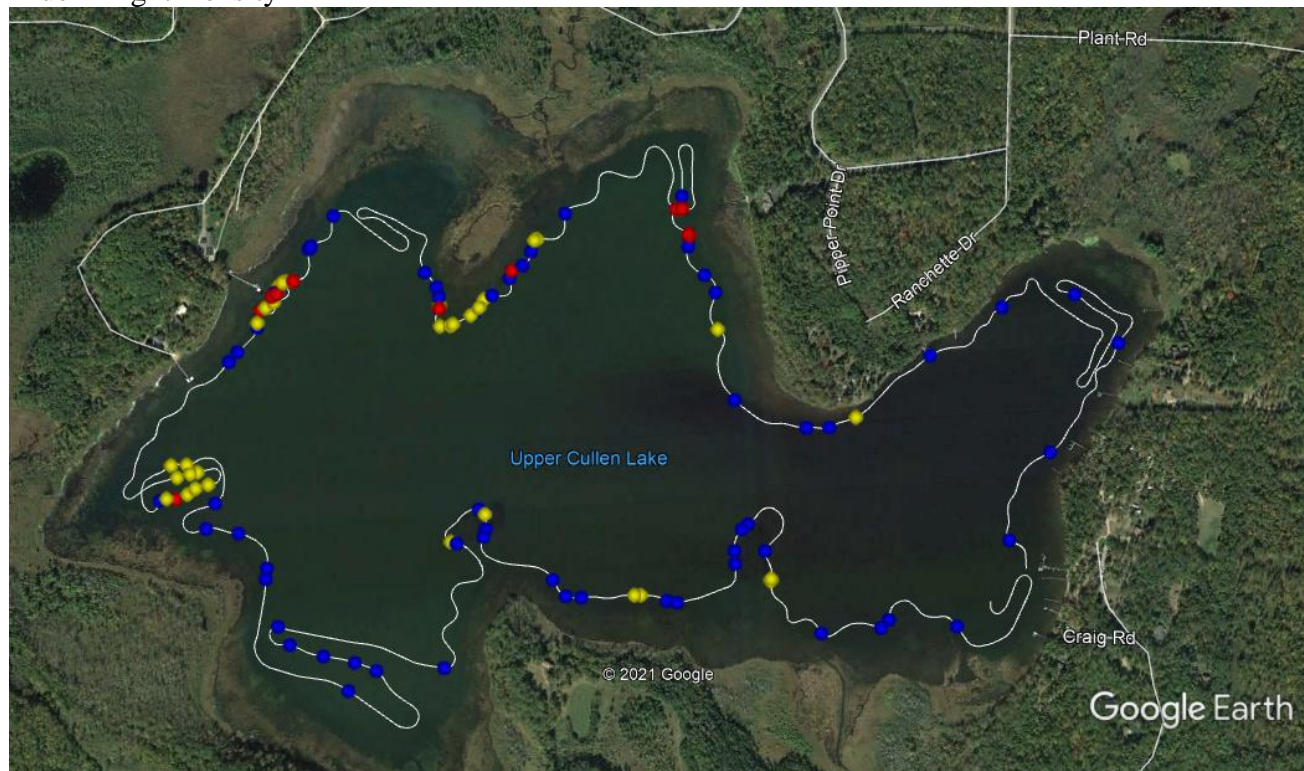
During the survey other native plants were found. Some of those especially Clasp Leaf Pondweed and Coontail were at high densities. Water clarity was also better than past years. Water levels were also low which may be contributing to higher vegetation levels.

6/18/2021 Survey Map**Table**

Red – High Density

Yellow Mid Density

Blue – Light Density



2022 Potential Treatment Areas (pending spring assessment)

Table

White Areas – 2022 Potential treatment areas (pending 2022 Spring Assessment)



Total potential treatment acreage = 14.8 acres

Survey Picture

