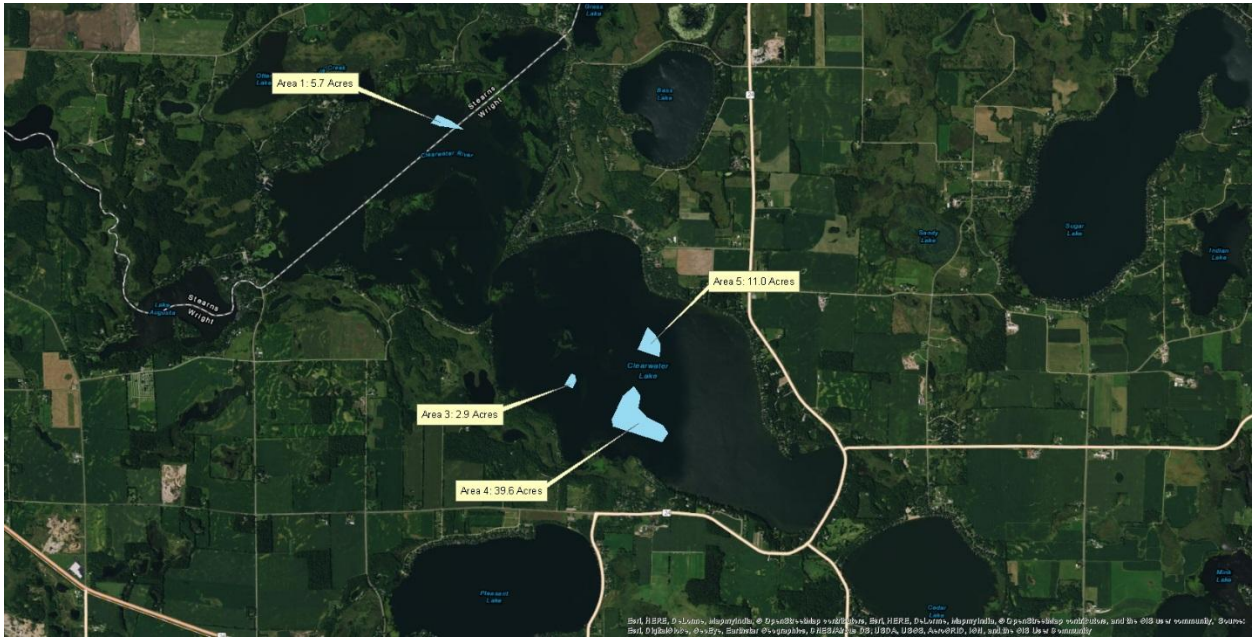


Eurasian Water Milfoil Survey for Clearwater Lake Wright County, Minnesota September 13, 2017



Prepared for:
Clearwater Lake Association

Prepared by:
Kyle Blazek
Lake Restoration Inc.
Rogers, MN

Overview

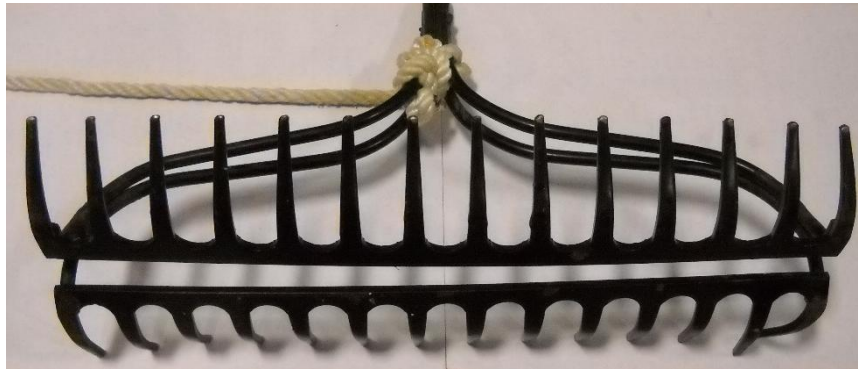
In Clearwater Lake on September 13, 2017 a survey of Eurasian Water Milfoil was conducted to see the results of treatments performed on July 31st and August 1st in 2017. Four sites were treated and surveyed.

Clearwater Lake EWM Post Treatment Survey September 2017



Method

Survey was conducted within each treatment area using a GPS to mark survey points and depth and a double-tined rake attached to a rope. Rake is used at each survey point by dragging along bottom, retrieved, and each plant species identified. Survey points were spread out across treatment areas and at each point the location and depth were recorded.



Results

Treatment Site	Acres	Survey Points	Results
1	5.7	6	Few single strands of EWM spotted
3	2.9	4	No EWM found
4	39.6	35	No EWM found
5	11.0	10	No EWM found

Treatment site 1 had 6 survey points ranging in depth from 5.5 ft. to 23 ft. Aquatic plants found from sampling included Chara (Fig. 4), Coontail (Fig. 2), and Curly Leaf (Fig. 3) with Chara being the dominate vegetation found. Although EWM was not located by the rake during survey, shallow (3'-8') locations were spotted on the edge of treatment area or just outside of treatment area that showed single strands of EWM that rose to the surface. Locations spotted with EWM during survey were infrequent.

Treatment site 3 had 4 survey points ranging in depth from 5 ft. to 6 ft. Aquatic plants found from sampling included Chara, Coontail, and Narrow Leaf with Chara and Coontail being the most dominate. No EWM were spotted or found during survey sampling in treatment site 3.

Treatment site 4 had 35 survey points ranging in depth from 4 ft. to 33 ft. This treatment site was the largest and had a diverse structure throughout. Aquatic plants found from sampling included Chara, Coontail, Clasp Leaf (Fig. 1), Curly Leaf, Northern Watermilfoil (Fig. 5). Chara and Coontail were the dominate species and the other species were not very prevalent. No EWM were spotted or found during survey sampling in treatment site 4.

Treatment site 5 had 10 survey points ranging in depth from 8 ft. to 16 ft. Aquatic plants found from sampling included Chara, Coontail, Narrow Leaf, Clasp Leaf, Curly Leaf, and Naiad. Chara and Coontail were the dominate species in the area. No EWM were spotted or found during survey sampling in treatment site 5.

From the results of the survey there were no Eurasian Watermilfoil found from sampling. Very few single strands were spotted during survey from the boat in shallow areas just outside treatment site 1 and no EWM was found at the other survey sites.



Figure 1: Clasp Leaf



Figure 2: Coontail



Figure 3: Curly Leaf



Figure 4: Chara



Figure 5: Northern Milfoil