

Appendix B-2

Detailed Plan

Upper Saranac Lake has 44.3 miles of shoreline. Currently, four divers are only able to hand harvest a small portion, less than 40%, of this total area. To successfully control the milfoil problem in USL, the entire shoreline, including islands, must be harvested. The following discussion shows how the entire lake can be hand harvested in one year.

Crews and Equipment

A total of 20 divers and 6 top water people will be used. There will be 4 crews of 4 divers using Hookah Rigs (pumped air) to hand harvest the areas with dense milfoil stands. Two additional crews, consisting of 2 divers each, will be used to lay benthic mats and to swim the rest of the shoreline. These divers will be working with the aid of compressed air. One top water person per boat will also be needed.

4 Diving Platforms

2 Runabouts with Divers + Crew Chief Boat

4 Divers 1 Topside	4 Divers 1 Topside	4 Divers 1 Topside	4 Divers 1 Topside
Dive Platform Hookah Rig Kayak Aluminum Boat	Dive Platform Hookah Rig Kayak Aluminum Boat	Dive Platform Hookah Rig Kayak Aluminum Boat	Dive Platform Hookah Rig Kayak Aluminum Boat

2 Divers 1 Topside Steward's Boat Kayak Aluminum Boat	2 Divers 1 Topside Dive Boat Kayak Aluminum Boat	Crew Chief Uses USLA Patrol Boat	Weed Removal Boat Jon Boat
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DIVE TIME TABLE

Phase I

Diving will start on May 19. A total of 6 divers are needed for this first stage. 2 crews of 3 divers and a minimum of 2 top water people (per boat). These crews will utilize compressed air. Their mission is to lay the benthic barriers over the largest, densest stands of milfoil. There are approximately 50 mats, sized 14' by 100' owned by USLF. Each crew can lay 5 mats per day for a total of 5 days.

Mat placement is prioritized as follows:

15 mats placed in Bottle Bay
20 mats placed in the back of Square Bay
20 mats will be placed in Saginaw Bay

Depending on the actual number of mats, plans will be adjusted accordingly. The positioning of the mats will be determined the day before by a single experienced milfoil diver. This diver will deploy buoys outlining the area to be covered. The following day two crews, preferably in different bays, will lay the mats in the sectioned off areas.

Water temps during late May and early June will be very cold. The boats and divers will need additional equipment during this period. Each boat will need equipment to provide the divers with warm water to pour into their suits before each dive, or we will fund additional dry suits for the smaller group of divers. In addition, a somewhat weather protected area will be provided on each boat.

Phase II

The next phase of diving will start May 31. All dive crews will be deployed, and work until August 15th. All the divers will now be used for hand harvesting.

Mass removal of dense Milfoil stands will utilize 4 crews each consisting of 4 Hookah Rig Divers (HRD), and will work in 4 different areas concurrently. Benthic mats will be repositioned as necessary and appropriate throughout the season. Two crews will swim the entire shoreline with dive tanks focusing on the sparsely populated areas and searching for new growth. Since all divers must be 'dive certified', rotation of crews will insure productivity and variety in the daily dive activity.

The overall target is to complete the project in 55 hand-harvesting dive days. However, taking into account weather, diver attrition, unmapped milfoil stands and equipment delays, this plan is still both reasonable and flexible enough to meet all objectives within the dive season.

Additional Resources:

Removal Resources to dispose of Harvested Milfoil consists of one additional person, a Jon Boat and a tandem axle dump trailer. Dump sites and access sites are being negotiated and will be updated on the Upper Saranac Lake Foundation website. www.uslf.org

The process works as follows: divers bring bags of milfoil to the surface, topside person hands them a new bag and puts the full bag in the aluminum boat. The Weed Removal boat empties the aluminum boats on rotational basis. Removal boat is driven to waiting trailer which transports boat and full bags to the dump site. The boat and trailer is returned to the lake and the bags are recycled for use by the divers. Expectation is for two trips to the dump site per day.