Chateaugay Lakes
Milfoil Control Program

Summary of Activities and Findings for
June – August 2010

Prepared For:

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ACTIVITY SUMMARY

Control Summary

- The milfoil control program began on 06/01/10 and ended on 08/12/10
- 1,000 man-hours were logged; this was equivalent to 5 forty hour work weeks with a 5 person crew (3 divers and 2 top water personnel)
- 52% of crew time was spent benthic matting and 48% of crew time was spent hand harvesting
- 26% of total effort was spent at the Sand Bar, 54% of total effort was spent at the Boat Launch, and the remaining 20% of effort was spent at the Lower Lake
- The crew installed 2.7 acres of benthic mats and hand harvested 6.3 acres, for a total of 9.0 acres of treated area
- The crew also hand harvested Curlyleaf pondweed discovered at the Boat Launch and Lower Lake; a very small quantity was discovered (less than 20 lbs) and it was all removed
- The crew removed about 17,700 lbs (8.9 tons) of milfoil, with 13,550 lbs coming from the Boat Launch and the remaining 4,150 lbs coming from the Sand Bar
- Hand harvesting removals averaged 2,810 lbs/acre, 76.2 man-hours/acre, or $1,951/acre
- Benthic mat removal and re-installation averaged 193 man-hours/acre, $4,941/acre, or $49.60/mat.

Transect Summary

- Milfoil density at the Boat Launch averaged 38,000 stems/acre in July, 2008, prior to control, 3,000 stems/acre in August, 2009, at the end of the second season of control, and 3,340 stems/acre in August, 2010, at the end of the third season of control. Thus, no additional reduction in milfoil density was achieved at the Boat Launch in the third season of control.
- Milfoil density at the Sand Bar averaged 36,500 stems/acre in May, 2009, prior to control, 10,000 stems/acre in August, 2009, at the end of the first season of control, and 16,000 stems/acre in August, 2010, at the end of the second season of control.. Thus, milfoil density increased significantly compared to the previous year.
- Milfoil density at the Lower Lake averaged 12,000 stems/acre in May, 2009, prior to control, 22,000 stems/acre in August, 2009, at the end of the first season of control, and 16,000 stems/acre in August, 2010, at the end of the second season of control. Benthic mats were placed in the transect locations during 2010, and the reduction in milfoil density reflects this placement.
- Four new transects were established in the Narrows between Buckhorn Point and the Boat Launch in May, 2010. Milfoil density on these transects averaged 17,600 stems per acre in May, before harvesting began, and 13,500 stems per acre in August after harvesting ended. Thus, a small reduction in milfoil density in response to management was observed after the first season of control.

South Inlet Summary

- The South Inlet has an approximately 103 acre milfoil bed of variable density. The bed expanded into deeper water beyond the hazard buoys in 2009. Though the bed has expanded, milfoil density was stable when comparing 2009 to 2010, with identical August densities of 6,600 stems per acre.

ACTIVITY SUMMARY TABLES

Table 1. Summary of milfoil control activity by location in the Chateaugay Lakes in 2010.

	Boat Launch	Sand Bar	Lower Lake	Total
Man-Hours Worked	540	260	200	1,000
Benthic Mats Installed	89	88	90	267
Pounds of Milfoil Removed	13,550	4,150	0	17,700
Acres Controlled	7.1	1.0	0.9	9.0

Table 2. Weekly summary of milfoil control activity in the Chateaugay Lakes for 2010.

Week Beginning	Location	Man-Hours Worked	Benthic Mats Installed	Pounds of Milfoil Removed
5/31/10	Boat Launch	140	52	0
6/07/10	Boat Launch	80	37	0
	Sand Bar	100	47	
6/14/10	Sand Bar	40	41	0
	Lower Lake	160	90	
6/21/10	Boat Launch	200	0	6,875
6/28/10	Boat Launch	200	0	6,675
8/09/10	Sand Bar	80	0	4,150
TOTAL		1,000	267	17,700

AVERAGE MILFOIL DENSITY ALONG MONITORING TRANSECTS