

October 26, 2011

Chris Nadeau
Namaske Lake Association
chris_nadeau@hotmail.com

Re: 2012 Proposal/Agreement for a Chemical Treatment Program to Control Variable Milfoil at Namaske Lake in Goffstown, New Hampshire

Dear Mr. Nadeau:

Please accept this as our Proposal/Agreement for a variable milfoil (*Myriophyllum heterophyllum*) treatment in portions of Namaske Lake during the 2012 season. We have good familiarity with the lake having performed the sizable milfoil treatment program during the 2010 season.

We understand that up to 19 acres as depicted in the attached map that was prepared by DES will require treatment in 2012. We further understand that Navigate (2,4-D granular) is the herbicide of choice for this treatment program. 2,4-D was successfully permitted and used in 2010. A bid for the standard application rate of 100 lbs/ac is provided. Some of the smaller areas shown on the map that require treatment appear to be less than 1-acre in size. These areas may be subject to excessive dilution from untreated water and slightly higher application rates may be worth considering for more complete control of the targeted milfoil. An alternate bid for the use of higher application rates is provided.

SCOPE OF SERVICES

Permitting:

Aquatic Control will prepare and file a Special Permit application for this treatment project on behalf of the Association. Tasks completed during permitting will include:

- Completing the Special Permit Application form and assembling the normal attachments.
- Assisting the Town with assembling names and mailing addresses for abutting property owners that can be keyed to Town Tax Maps, querying abutting property owners as to their source of domestic water.
- Completing all normal mailings and newspaper notifications required by the Special Permit.

Treatment:

Aquatic Control's New Hampshire licensed chemical applicators will apply USEPA/State registered chemical Navigate (2,4-D) at the agreed upon application rate. Chemical applications would be made pursuant to a special permit issued by the NH Division of Pesticide Control. Shorelines around the treatment area and for a 200-foot buffer distance would be posted with signs warning of the temporary water use restrictions immediately prior to treatment that provides warning of the temporary water use restrictions to be imposed.

2,4-D granular herbicide will be applied using a granular eductor system or a cyclone spreader mounted in an Airboat or conventional spray boat. A Differential/WAAS GPS system will be used during the application to insure that the herbicide is evenly applied throughout the designated treatment areas.

Monitoring and Reporting:

Aquatic Control will complete the following monitoring and reporting tasks to comply with conditions of the Special Permit.

- Perform pre and post treatment surveys of treatment areas.
- Arrange to have the post-treatment herbicide monitoring conducted by an independent, state-certified laboratory.
- Prepare and submit a year-end report.

TENTATIVE SCHEDULE OF PERFORMANCE - 2012

- Prepare and file Special Permit Application with NH DPC January/February
- Pre-treatment survey(s).....May/June
- Chemical treatment early –mid June
- Post-treatment inspections and reporting June-October

CLIENT RESPONSIBILITIES

It would be the Association’s Responsibility for compliance and assistance with the following:

1. Provide an accurate and current list of all abutting property owners to each treatment area (those located within 200 feet), a copy of the town tax maps that show all the abutting parcels, and an updated inventory of water source (i.e. wells or intakes) for the abutting properties
2. Identify and provide names and addresses of any property owners with direct water intakes located within 1200 feet of the proposed treatment areas.
3. Verify the location of any community or public wells and their proximity to the treatment areas.
4. Providing alternate water to abutters that may have to restrict their water use for drinking or irrigation following treatment, if requested and required.
5. Provide a copy of the updated Long-Term Vegetation Management Plan prepared by DES.
6. Assist with posting on the day of treatment or post the shorelines in advance, if possible.

COST AND PAYMENT SCHEDULE

The total cost of the chemical treatment program, broken down by task, is listed below.

OPTION 1: Standard Navigate (2,4-D) Treatment of 19 acres at 100 lbs/ac

- Task 1 – Prepare and file Special Permit application with NH DPC (inclusive of all required direct and certified mailings to a maximum of 100 abutters and publication of newspaper notices) \$1,850^{1,2}
- Task 2 – Perform chemical treatment with Navigate (2,4-D) herbicide (inclusive of all labor, chemical & equipment) up to 19 acres of the pond with 1900 lbs..... \$7,510
- Task 3 – Pre and post-treatment surveys and submittal of the required written reporting to the State \$700
- Task 4 – Herbicide residue sample collection and analysis (assumes 2 samples are required) \$925³
- Total Program Cost – Option 1 \$10,985**

OPTION 2: Recommended Navigate (2,4-D) Treatment of 14 acres @ 100 lbs/ac plus 5 acres @ 200 lbs/ac

- **Task 1** – Prepare and file Special Permit application with NH DPC (inclusive of all required direct and certified mailings to a maximum of 100 abutters and publication of newspaper notices) \$1,850^{1,2}
 - **Task 2** – Perform chemical treatment with Navigate (2,4-D) herbicide (inclusive of all labor, chemical & equipment) up to 19 acres of the pond with 2400 lbs..... \$9,135
 - **Task 3** – Pre and post-treatment surveys and submittal of the required written reporting to the State \$700
 - **Task 4** – Herbicide residue sample collection and analysis (assumes 2 samples are required) \$925³
- Total Program Cost – Option 1 \$12,610**

¹ Any changes to the 2011 permitting process (i.e. requirements for additional information, different notification requirements, different survey and monitoring requirements, etc.) may incur additional cost. Should a Public Hearing be requested, there will be additional charge of: \$500 for Aquatic Control to prepare for and attend the Public Hearing plus any direct costs associated with mailing (certified mail at \$7.00 per piece).

² In 2011, the US EPA made available to the public a draft of the National Pollutant Discharge Elimination System (NPDES) permit for point source application of pesticides to US waters. The final set of regulations is mandated to take effect on October 31, 2011. Until the final regulations are published, we have no way of knowing what they will entail; however, based on the draft regulations, it is possible that additional permitting, survey work and regulatory reporting will be necessary in order to legally complete the project as proposed. We will inform you of the additional work and associated costs required by the final regulations as soon as possible.

³ Requirements for additional sampling will carry additional costs of \$200 per sample for analysis and \$250 per round for sample collection and delivery to the lab.

Payment of the project total shall be made as follows:

- **\$1850** for permitting due upon accepting and returning a signed copy of this Proposal/Agreement
- Total treatment cost plus **\$1125** from Tasks 3 & 4 due on or before the day of treatment
- Additional tasks billed upon completion.
- **\$500** (balance) due upon submission of project completion report

In the unforeseen event that the NH DPC does not issue a permit for a timely treatment program, you would be obligated to only pay for work and expenses performed on Task 1 (permitting). Our ability to proceed with this treatment program is naturally contingent upon timely receipt of the required NH DPC approved permits. Specific, mutually agreeable date(s) for chemical treatment will be scheduled with you in advance and prior to permitting.

If we are selected for this project, please return a signed copy of this Proposal/Agreement to our office at your earliest convenience. If you have questions or need any additional information please do not hesitate to contact our office. We look forward to assisting the Namaske Lake Association with its variable milfoil control efforts again in 2012.

Sincerely,

Aquatic Control Technology, Inc.



Gerald N. Smith
President/Aquatic Biologist

Accepted: Namaske Lake Association

By: _____
(sign name)

(print name)

(date)

cc: Amy Smagula, NH DES (via email)

Namaske Lake

Goffstown/Manchester



Legend

 2012 Treatment Area- 19 acres

 Namaske Milfoil_081811



BID NOTE

Please obtain bids for treating 19 acres with 2,4-D in June 2012.

Please also obtain bids for hand-removal or Diver-Assisted Suction Harvesting of isolated milfoil growth (yellow dots not inside orange polygons) for spring/summer 2012.