



February 16, 2012

SEVEN HILLS LAKE ASSOCIATION  
 James Polk  
 74 Seven Hills Lake Drive  
 Kent Lakes, New York 10512

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**2012 AQUATIC VEGETATION CONTROL APPLICATION**  
**SEVEN HILLS LAKE**  
**PUTNAM COUNTY, NEW YORK**

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ALLIED BIOLOGICAL is submitting this proposal to continue Aquatic Vegetation Management at Seven Hills Lake in 2012. Management will focus on herbicide application for control of nuisance aquatic weeds specifically, Curlyleaf pondweed (*Potamogeton crispus*) and Eurasian Watermilfoil (*Myriophyllum sp.*) within designated portions of this 55 acre lake. The proposal includes treatment cost for algae control, if requested. A Spring lake survey will be conducted prior to the scheduled treatment to assess plant density and distribution. The survey and application is expected to take place in May, when target plants are between 9"-24" tall. Water quality information including dissolved oxygen, temperature, pH and clarity will be documented.

AQUATHOL-K (endothall) is the herbicide of choice for site selective or seasonal aquatic weed control. CAPTAIN XTR, a new chelated copper algicide will be applied for algae control. Treatments will be conducted in accordance with NYSDEC regulations which restrict the material, concentrations and frequency of such treatments. Permit regulations require notification of treatments to NYSDEC seven days in advance. Water use restrictions are as indicated and will be posted in the vicinity at the time of treatment. The client is responsible for removal of any treatment postings upon expiration.

	Swimming	Fish Consumption	Drinking	Irrigation	Livestock Watering	Hold Water
Aquathol-K @ 0.5 ppm (Curlyleaf Pondweed)	1 day	3 days	7 days	7 days	7 days	7 days
Aquathol -K @ 1.5 ppm (Curlyleaf & milfoil)	1 day	3 days	14 days	14 days	14 days	14 days
Captain XTR	1 day	1 day	1 day	1 day	1 day	1 day

**PERMITS**

Aquathol-K and Captain XTR Aquatic Use Permits require new applications in 2012. The Freshwater Wetland Permit also requires new applications in 2012. ALLIED BIOLOGICAL will prepare and submit the appropriate permit applications. Permit approval will require approximately **12-16** weeks to obtain. Contract acceptance for 2012 should be made well in advance of anticipated treatment dates to allow adequate time for submission and approval.

Current NYSDEC permitting requirements for 2012 include compliance with the State Pollution Discharge Elimination Permit (SPDES), in addition to the annual Aquatic Pesticide Use Permit. ALLIED BIOLOGICAL will prepare and submit the appropriate Notice Of Intent application for submittal to Albany.



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**CLIENT RESPONSIBILITIES**

1. Conduct the NYSDEC riparian owner and user notification of properties within the treatment area. As an alternative to water retention requirements, NYSDEC allows for pre-notification and approval to include residents within ½ mile downstream. This may be preferable to the logistics of 14 day water retention and possible penalties for unintentional outflow.

2. Enforce any water use restrictions imposed by NYSDEC.

**CERTIFICATION**

ALLIED BIOLOGICAL is listed with the NYSDEC as a registered applicator of aquatic herbicides and algicides (#1301). Supervisory personnel and applicators hold current certification from the Department.

**INSURANCE**

ALLIED BIOLOGICAL carries Workers Compensation, General Liability, Professional Liability, Property Damage and Environmental Liability Insurance which will remain in full effect throughout the term of this contract. A certificate of insurance is available upon request.

**COMPENSATION FOR SERVICES**

The cost to conduct Aquatic Vegetation Management for Seven Hills Lake in 2012 is based on the following treatment rates:

Curlyleaf Pondweed only	Aquathol-K (0.5 ppm)	\$ 319.00/acre 5-10 acres
		\$ 240.00/acre 11+ acres
Curlyleaf Pondweed	Aquathol-K (1.5 ppm)	\$ 559.00/acre 5-10 acres
and Eurasian Watermilfoil		\$ 495.00/acre 11+ acres
Algae Control	Captain XTR application	\$1,105.00/application 5-10 ac.
		\$1,740.00/application 11-27 ac.
NYSDEC Permitting		
	Renewable Aquatic Pesticide Permits (2)	\$ 300.00
	Freshwater Wetland Permit	\$ 550.00
	SPDES Notice Of Intent	\$ 50.00

**ACCEPTANCE**

Acceptance of the 2012 Aquatic Vegetation Management Proposal for Seven Hills Lake can be made by returning one signed copy. Please include the permitting fees (\$900.00) made payable to ALLIED BIOLOGICAL with the acceptance.

ALLIED BIOLOGICAL INC.

Accepted this \_\_\_\_ day of \_\_\_\_\_, 2012

SEVEN HILLS LAKE ASSOCIATION

Glenn P. Sullivan, CLM  
President

By \_\_\_\_\_

Title \_\_\_\_\_

## Lake Survey Report

### Seven Hills Lake Association

#### Contact Information

Contact: James Polk  
 Telephone: C 845-228-2611  
 Fax:  
 E-mail: canstruct@comcast.net

#### Survey Information

Date: 8/22/2012  
 Time: 9:15:00 AM  
 Biologist: Wayne Horn  
 Survey Method: 17' boat

#### Water Quality

Alkalinity (mg/l) [Range: 20-200 mg/l]	Dissolved Oxygen (ppm) [Desirable range: 6-10 ppm]	Secchi/Clarity (ft) [Higher = Better]	pH (SU) [Range: 6.5-8.5 SU]	Temperature (°F) [Seasonal range: 41-86 °F]
	<b>10</b>	<b>3</b>	<b>8.5</b>	<b>77.3</b>

Note: Typical ranges are provided unless otherwise noted. Normal readings may be within, above, or below typical ranges. Fluctuations from normal readings may indicate a need for further analysis.

#### Aquatic Vegetation Species

Waterlilies *Nymphaea spp.*

Coontail *Ceratophyllum demersum*

#### Algae Species

Unicellular Algae  
 Filamentous Algae

#### Comments

Water column green with unicellular algae bloom. Trace amount of floating filamentous algae along shoreline. Trace amount of Coontail observed along eastern shoreline. Waterlilies scattered throughout the lake.

Chelated copper algicide (Captain XTR) applied for algae control. Treatment notices were posted.

#### Plant Density Key



None



Trace



Sparse



Moderate



Dense