

2013 AQUATIC PESTICIDE PERMIT APPLICATION

SARATOGA LAKE

Saratoga Springs & Stillwater, NY

January 2013

Prepared for:

**Saratoga Lake Protection and Improvement District
P.O. Box 2551
Ballston Spa, NY 12020**

Prepared by:

**Aquatic Control Technology
11 John Road
Sutton, MA 01590-2509**



AQUATIC CONTROL TECHNOLOGY

POND AND LAKE MANAGEMENT SPECIALISTS

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Under Separate Cover

- ◆ Riparian Owner/User Notification
 - Copy of Notice
 - List of Recipients
 - Certification of Mailing

January 17, 2013

John Bennett, Pesticide Control Specialist
 Bureau of Pesticide Management
 NYDEC Region 5 Warrensburg Sub-Office
 232 Golf Course Road
 Warrensburg, NY 12885-0220

Re: Aquatic Herbicide Permit Application and Freshwater Wetlands Permit Application – Saratoga Lake – 2013 Season

Dear Mr. Bennett:

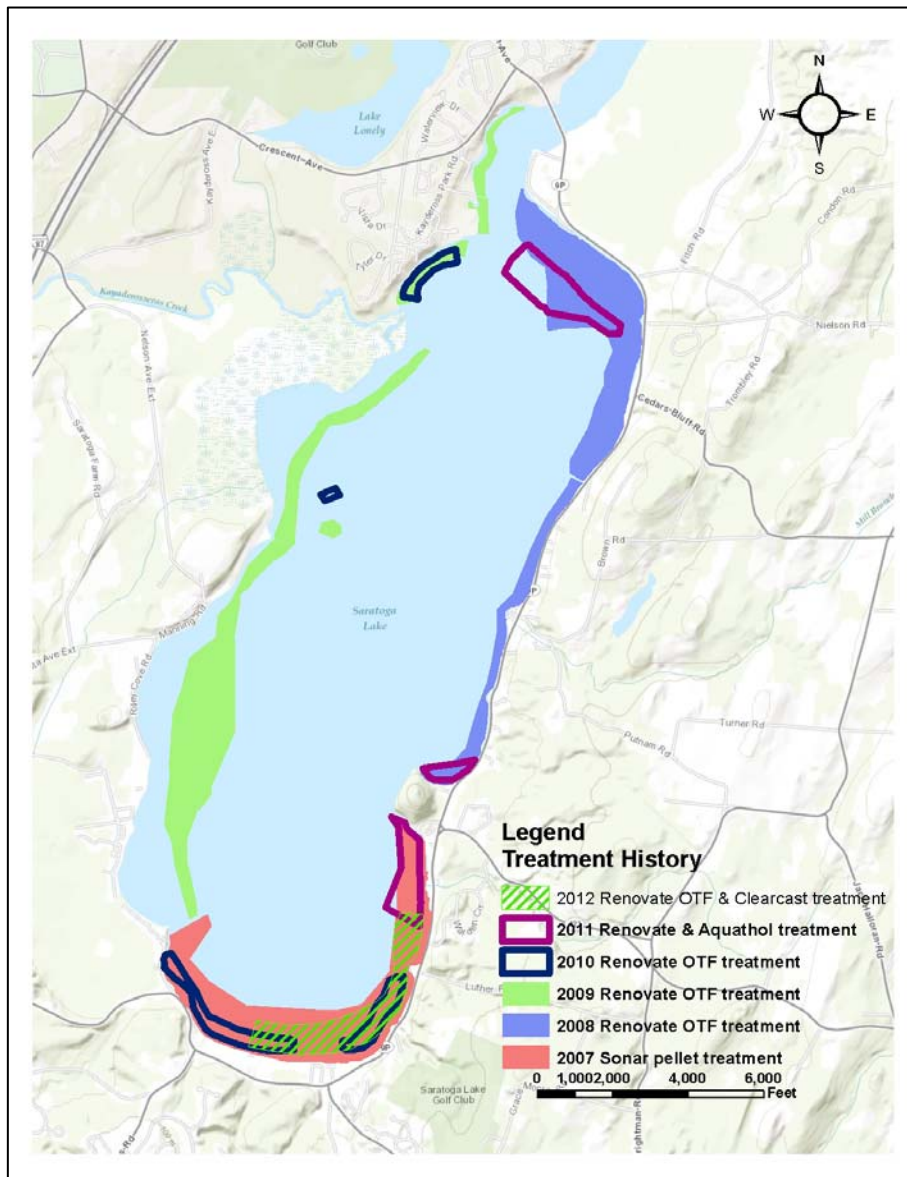
The following was prepared as supplemental information for the Aquatic Pesticide Permit Applications (AQV forms) and Freshwater Wetlands Permit Application (Joint Application for Permit form) for Saratoga Lake in 2013.

Project Applicant / Lead Agency:	Saratoga Lake Protection and Improvement District (SLPID)
Applicant Contact:	Joe Finn, SLPID Commissioner [518- 581-0409 or jfynn14@nycap.rr.com]
Applicator:	Aquatic Control Technology / Reg . # 07865 Marc Bellaud / Applicator ID# C0806081 [508-865-1000 or mbellaud@aquaticcontroltech.com]
Lake Manager:	Dean Long, Director of Environmental Planning, The LA Group, P.C. [518-587-8100 or dlong@thelagroup.com]
Requested Treatments:	<p>SLPID is seeking approval for treatment of 172 acres with Renovate OTF (triclopyr) herbicide to selectively control invasive Eurasian watermilfoil (<i>Myriophyllum spicatum</i>). Treatment is proposed in the northeast and northwest shorelines of the lake.</p> <p>This is a continuation of an ongoing invasive species maintenance treatment program that was initiated in 2007. The treatment area will finalized following a pre-treatment survey May 2013. Preliminary treatment (see Figure 1) areas are based on the Eurasian watermilfoil distribution mapped by the Darin Fresh Water Institute in August 2012 and the hydroacoustic mapping performed by Aquatic Control Technology in November 2012.</p> <p>The treatment protocol calls for a surface application of granular herbicide throughout the treatment areas. Low application rates are proposed to selectively control the targeted invasives, reduce impacts to native species and limit associated water use restrictions. Renovate OTF will be applied at 1.3-1.5 ppm. We plan to apply 70% of the total herbicide dosage on the first day of treatment. The remaining 30% will be applied the following day.</p>

SUMMARY OF RECENT TREATMENTS

A multiple-year, sequential herbicide treatment program targeting control of all of the dense Eurasian watermilfoil (EWM) beds in Saratoga Lake was initiated during the 2007 season. The following treatments have been performed since that time:

Year	acres treated	location	herbicide applied
2007	158 acres	south end	Sonar PR & Q (fluridone pellets)
2008	292 acres	northeast and east shore	Renovate OTF (triclopyr granular)
2009	285 acres	northwest and west shore	Renovate OTF (triclopyr granular)
2010	50 acres	various locations	Renovate OTF (triclopyr granular)
2011	100 acres	east shore – three locations	Renovate 3 (triclopyr liquid) and Aquathol K (endothall liquid) combination
2012	100 acres	south end	Renovate OTF (triclopyr granular) and Clearcast 2.7G (imazamox liquid) - Clearcast only applied to 1/2 treatment area (50 ac)



PROPOSED TREATMENT PROGRAM FOR 2013

In 2013, treatment of up to 172 acres with Renovate OTF (triclopyr granular) herbicide is proposed for the northern end of the lake.

Renovate OTF has demonstrated its effectiveness in past years at Saratoga Lake. In 2013, we are proposing an application rate of 1.3-1.5 ppm; the lower application rate will be used for the larger treatment area where dilution is less of a concern. The use of granular formulations of herbicide is recommended to deliver the herbicide to the bottom and allow for herbicide absorption and uptake in the lower portions of the plants. Using the granular formulations should also help reduce the effects of dilution.

Treatment is proposed for the mid-late May period. Specific objectives of the proposed treatment protocol include:

- Control of EWM while it is actively growing but before it reaches full biomass,
- Reduced impacts on slower-growing native species,
- Reduced lake and lake water user conflicts from the temporary water use restrictions that will be imposed following treatment, and
- Shortened water use restriction periods following treatment due to the lower herbicide concentrations being used.

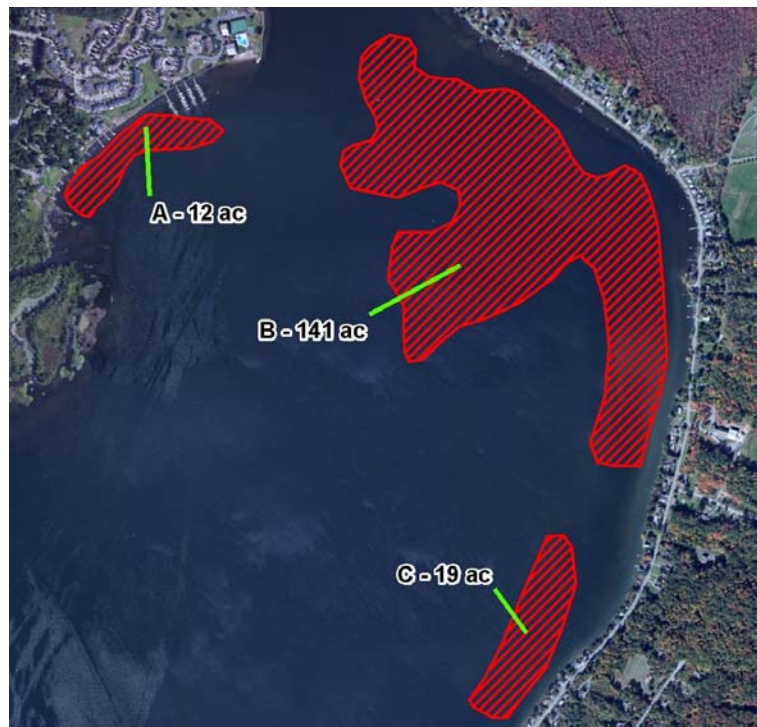
Freshwater Wetlands

We expect that a Freshwater Wetlands Permit will be required for the 2013 treatment program due to the proximity of treatment to the State-regulated Freshwater Wetland Q-11 & Q-31 located along the northeastern and northern shorelines, respectively. We do not believe that impacts to these adjacent wetlands will be significant since the herbicides proposed for use will be highly selective for EWM and most of the native plant species found throughout the treatment area will be preserved.

Chemical Treatment Protocol - 2013

Approval is requested for treatment of 3 areas totaling 172-acres in the northern end of the lake. All three areas will be treated with Renovate OTF (triclopyr) herbicide. Preliminary Treatment Areas have been established based on the post-treatment conditions observed in 2012 and findings of DFWI's 2012 survey. A map of the Preliminary Treatment Areas is attached (Figure 1). The final location of treatment areas may be adjusted following a pre-treatment survey in early May 2013, but the total treatment area will not exceed 172 acres.

Details on the proposed treatment approach are provided below:



Area to be Treated	Renovate OTF – 172 acres in northern end Final locations may be adjusted following pre-treatment survey to be performed in early May 2012.
Herbicides	Renovate OTF / EPA Reg. No.: 67690-42; SLN NY-070004 Active Ingredient: triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, triethylamine salt 14%; triclopyr acid equivalent 10%
Application Rates	Application rates/dose calculations have been calculated based on the bottom 5 feet of the water column. <u>Area A</u> <ul style="list-style-type: none"> ▪ 1.5 ppm or 200 lbs/acre ▪ 2,400 lbs for 12 acres <u>Area B</u> <ul style="list-style-type: none"> ▪ 1.3 ppm or 175 lbs/acre ▪ 24,675 lbs for 141 acres <u>Area C</u> <ul style="list-style-type: none"> ▪ 1.5 ppm or 200 lbs/acre ▪ 3,800 lbs for 19 acres
Treatment Timing	Treatment in mid-late May 2013 is proposed. A tentative date of Tuesday, May 14 th and Wednesday 15 th is planned. We plan to apply 70% of the total herbicide dosage on the first day of treatment. The remaining 30% will be applied the following day. Contingent treatment dates of Tuesday May 21 st and Wednesday May 22 nd will be used in the event of unfavorable weather. If only one suitable day is forecasted we will aim to complete the application in one day. Treatment is recommended early in the growing cycle when targeted EWM plants are more susceptible to impacts from the proposed herbicide but once there is enough actively growing plant tissue to insure that sufficient herbicide absorption will occur. This timing should still control EWM before it reaches full biomass and should limit lake user conflicts with the temporary water use restrictions that will be imposed following treatment.
Method of Application	The solid (granular) formulation will be evenly applied using the eductor spray system used in recent years or calibrated cyclone spreader mounted in the sprayboats. It is expected that one or possibly two conventional work skiffs powered by outboard motors will be used for this herbicide application and that the treatment will be completed during one work day. The treatment boat(s) will be equipped with DGPS/WAAS system to provide real-time navigation and to insure that the herbicide is evenly applied throughout the designated treatment areas.
Staging Area / Base of Operations	Either the ramp located at the 9P bridge at the north end of the lake or the South Shore Marina will serve as the boat launch and base of operations for the herbicide treatment. The herbicide will be brought to the lake on the day of treatment in a truck and/or trailer and nothing will be stored on site. All of the herbicide bags will be collected and returned to Aquatic Control's Sutton, MA facility for proper recycling and disposal.
Herbicide Residue Monitoring	Water samples will be collected from locations inside and outside of the treatment area for immunoassay analysis of triclopyr residues following treatment. SLPID members will be trained on how to properly collect and ship the samples. Additional monitoring will be performed as required.
Post-Treatment Vegetation Surveys	DFWI will be contracted to perform a point-intercept aquatic plant survey similar to what they have completed in recent years. Survey work will occur in August and September,

	which will correspond with timing of previous surveys.
Water Use Restrictions and Notification	<p>The temporary water use restrictions listed on the Specimen Label and the New York Special Local Needs (SLN) Label for Renovate OTF Specimen Label will be complied with, as follows:</p> <p><u>Potable/Domestic Water</u> - There are potable water intakes located within the setback distances listed on the Specimen Labels and the SLN Label.</p> <p>The residents with intakes along Manning Cove will be notified of the treatment date. Regular water testing will be conducted to determine when the in-lake concentrations are below 50ppb and potable use can resume.</p> <p>As was the case in past years, all abutting property owners to the lake will receive a notice of the proposed treatment program and will be asked to contact SLPID immediately if they use water from the lake for potable/domestic purposes. Per the label instructions, treated lake water should not be used for domestic/potable purposes until the triclopyr concentrations are determined to be below 50 ppb.</p> <p><u>Irrigation</u> –Use of treated lake water for irrigation is restricted until the triclopyr concentration drops to <1 ppb. There is no restriction on the use of Renovate OTF treated water to irrigate established grasses.</p> <p><u>Swimming</u> - The NY SLN Label requires a “3-hour” restriction on swimming in areas treated with Renovate OTF. All treatment areas will be closed to swimming for the entire day(s) of treatment.</p> <p>There are no other water use restrictions listed on the product label, but we intend to comply with any specific conditions imposed by DEC</p> <p><u>Notification</u> – All riparian owners located around Saratoga Lake received a notice by direct mail with the following language:</p> <p>“The anticipated restrictions on water use that will result from the proposed application will be: <u>Swimming</u> – treated areas will be closed for the day(s) of treatment; <u>Irrigation</u> – lake water cannot be used for irrigation purposes until testing shows that the in-lake triclopyr concentrations are less than 1 ppb, which is expected to take 4-6 weeks; and <u>Potable/Domestic Water</u> – treated lake water cannot be used as a potable/domestic water source until the in-lake triclopyr concentrations are <50 ppb.”</p> <p>Notification of the specific dates of treatment will occur through posting of the shoreline, placing notices in the Saratogian newspaper, and posting dates on the SLPID and SLA websites.</p>

SUMMARY

The Renovate OTF herbicide treatment program proposed for the 2013 season is expected to provide selective control of EWM in the treated portions of Saratoga Lake. While the treatments performed in prior years have proven to be effective, the 2013 program is seeking to further refine product selection, treatment rates and treatment timing in order to achieve the most selective control using the lowest practical application rates. Use of the granular formulation will be critical to the success of future treatment programs in areas that are subject to rapid dilution with untreated water.

SLPID remains committed to an integrated management program at Saratoga Lake to control invasive aquatic weeds. In addition to herbicide treatments, SLPID continues to perform limited winter drawdown and continues to fund and operate a large-scale mechanical harvesting program. Due to the lake-wide reduction of EWM the scope of the harvesting program has shifted in recent years to control of native plants. Since control of EWM is no longer the primary target of the harvesting program, harvester operators have modified their protocol, cutting to a depth of 2-3 ft as opposed to the standard 5 depth used for EWM control. Native plants grow slower than EWM; thus by reducing the depth to which the plants were cut SLPID was able to increase the rate of harvesting without sacrificing the efficacy of the cut, and reduce impacts to the overall native plant population.

If additional information is required to process this permit application, please let us know at your earliest convenience and we will prepare submit the requested material immediately. Please do not hesitate to contact me directly if you have any questions or require additional information.

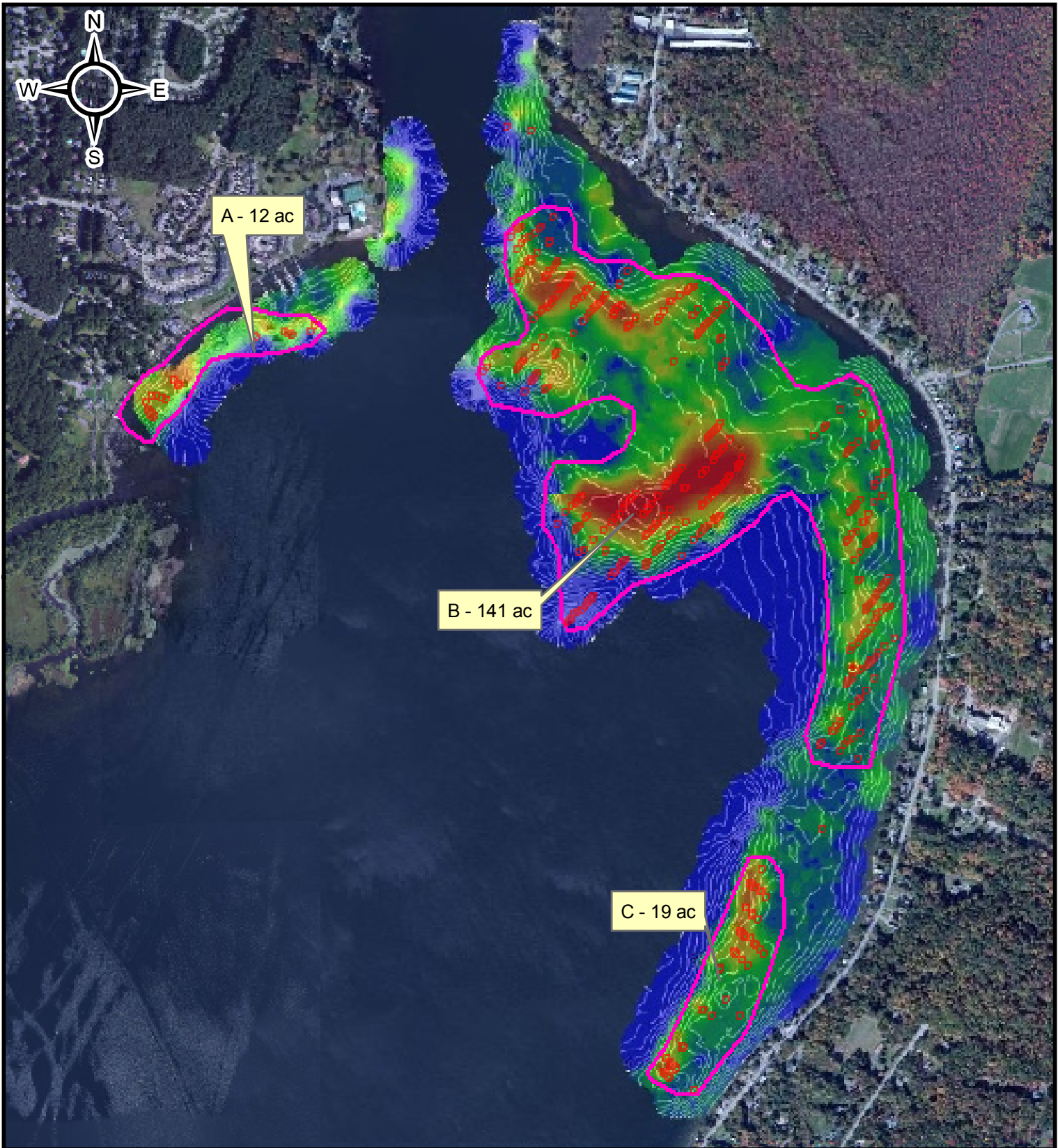
Sincerely,

AQUATIC CONTROL TECHNOLOGY

Marc Bellaud
President/Aquatic Biologist


Enclosures

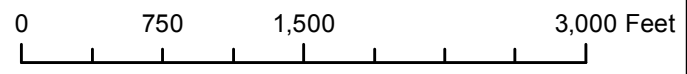
cc: Joe Finn, SLPID Commissioner
Dean Long, Director of Environmental Planning, The LA Group, P.C.



SARATOGA LAKE

Proposed 2013 Treatment Areas

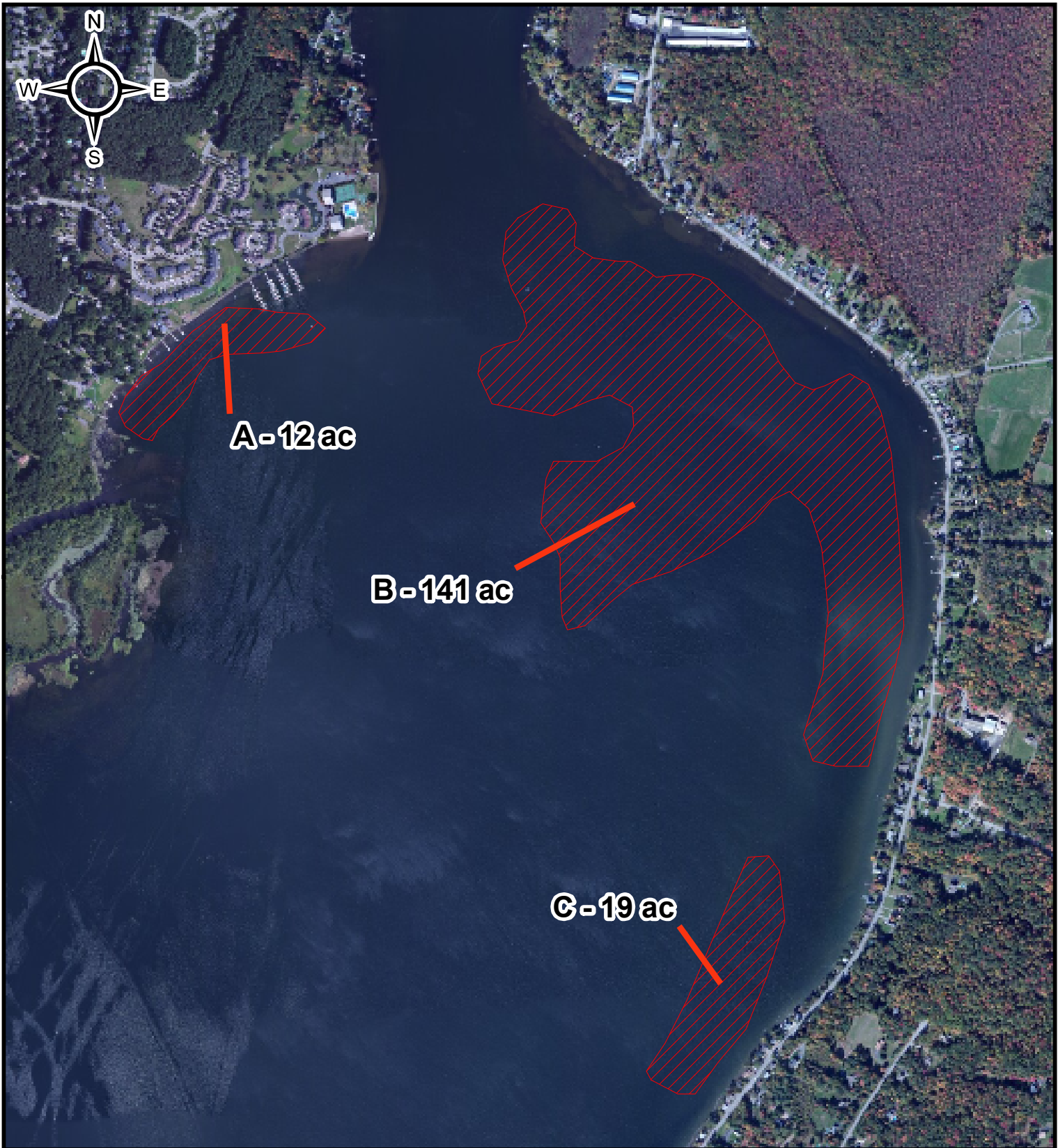
 Draft - 2013 Potential Treatment Areas (172 ac)



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 PHONE: (508) 865-1000
 FAX: (508) 865-1220
 WEB: WWW.AQUATICCONTROLTECH.COM




FIGURE:	SURVEY DATE:	MAP DATE:
2013_1	11/11/12	11/12/12



SARATOGA LAKE

Proposed 2013 Treatment Areas

FIGURE:	SURVEY DATE:	MAP DATE:
2013_1	11/11/12	11/12/12

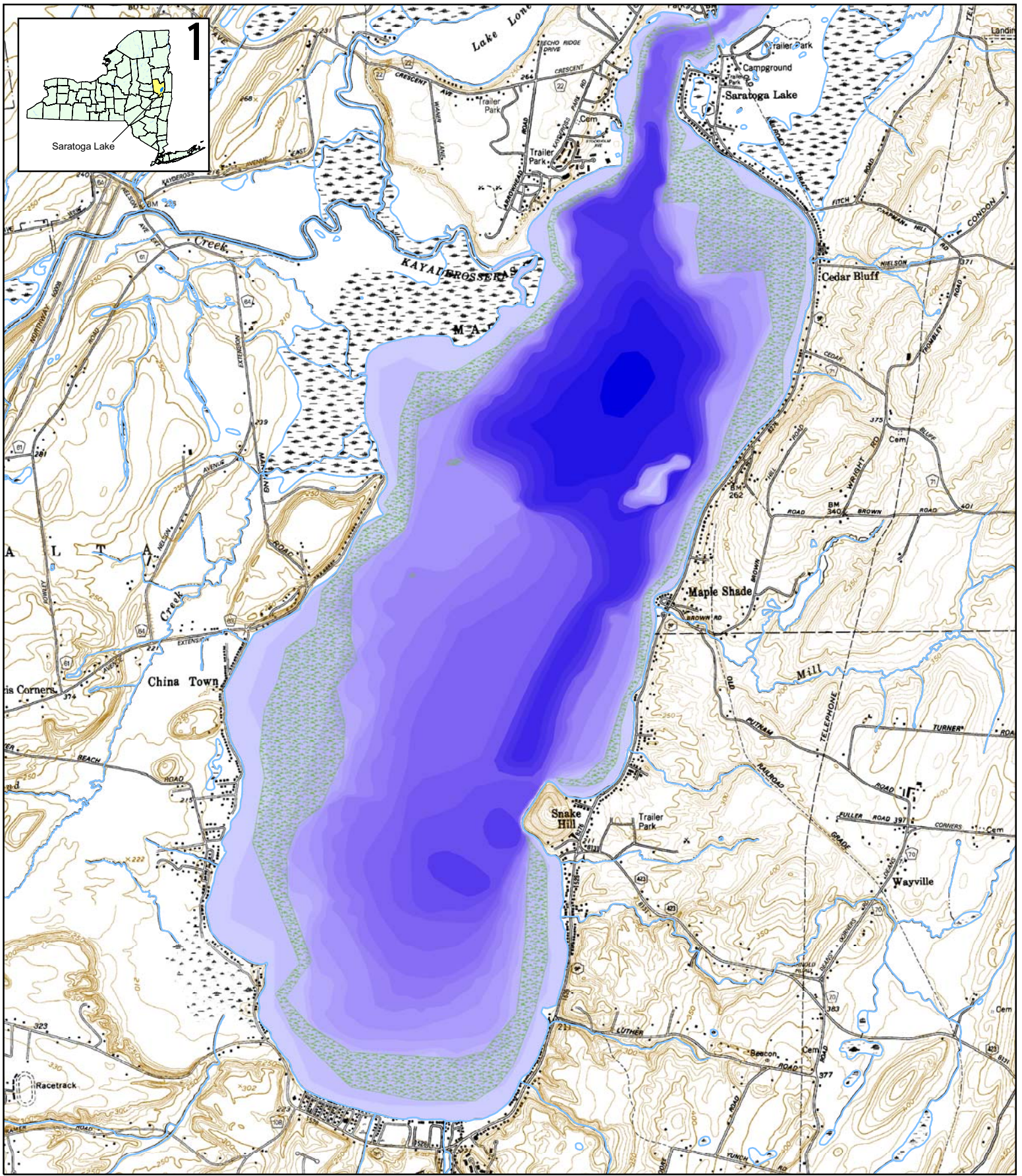
 Proposed 2013 Treatment Areas
(172 ac)

0 750 1,500 3,000 Feet

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Saratoga Lake

Updated Bathymetric Contours
Figure 2

SCALE:	DATE:	PROJECT:
1 : 18,000	March 2005	ACT Saratoga

Legend:

Bathymetry (2004)

0 - 3	19 - 21	37 - 39	84 - 93	Eurasian watermilfoil beds mapped by DFWI Aug. 2004
4 - 6	22 - 24	40 - 43		
7 - 9	25 - 27	44 - 53		
10 - 12	28 - 30	54 - 63		
13 - 15	31 - 33	64 - 73		
16 - 18	34 - 36	74 - 83		

Universal Transverse Mercator Coordinate system
Zone 18 North, North American Datum 1927



AQUATIC CONTROL TECHNOLOGY, INC.
POND AND LAKE MANAGEMENT SPECIALISTS

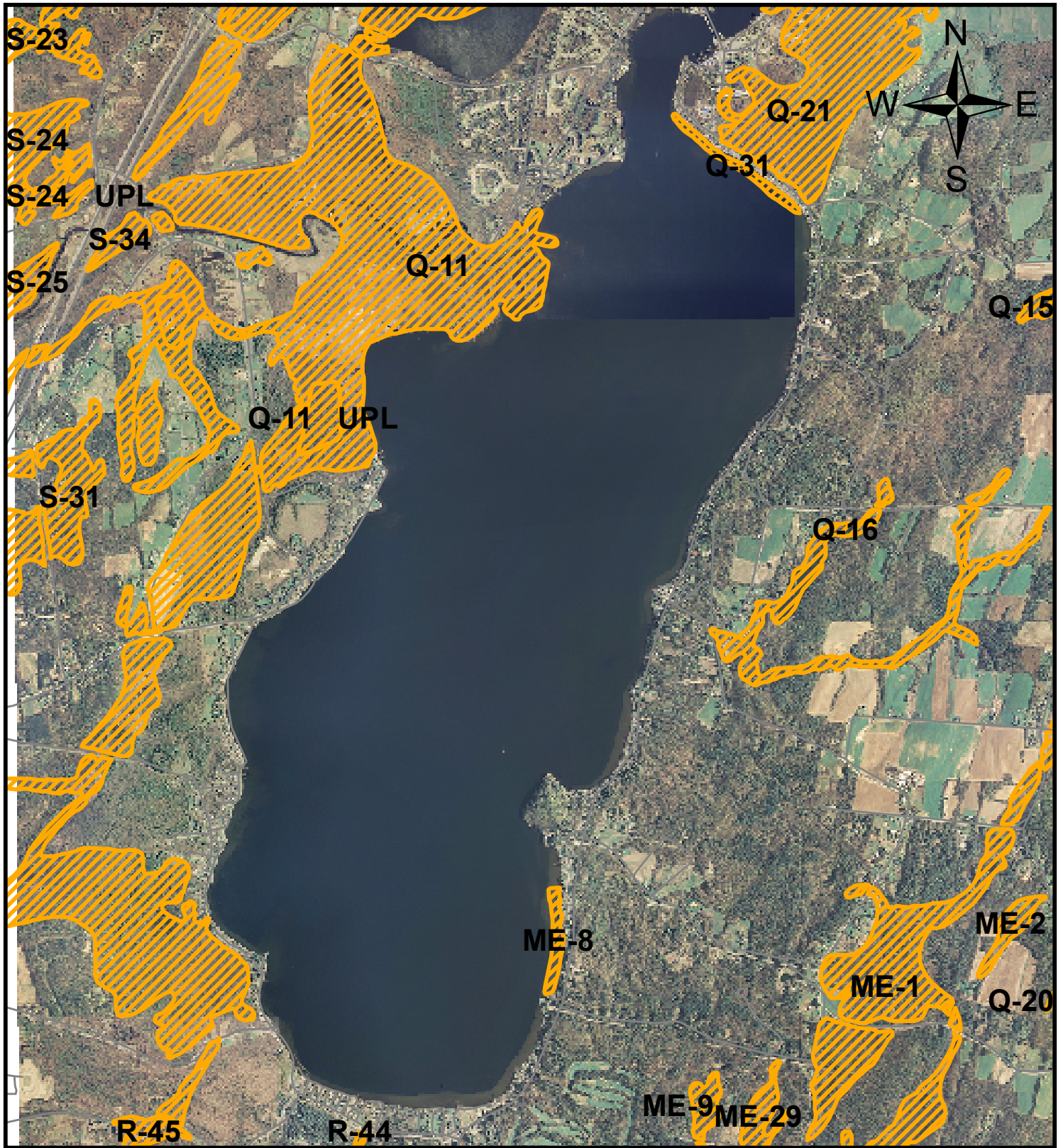
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SARATOGA LAKE
NYS Freshwater Wetlands Map

FIGURE:	SURVEY DATE:	MAP DATE:
3	--	3/15/10

Legend:

NYS Freshwater Wetlands

3,500 1,750 0 3,500 Feet

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS MATERIALS ● BUREAU OF PESTICIDES MANAGEMENT

www.dec.ny.gov

TITLE 6 NEW YORK CODE OF RULES AND REGULATIONS PART 327 AND 328

APPLICATION FOR A PERMIT TO USE A PESTICIDE FOR THE CONTROL OF AN AQUATIC PEST

APPLICATION MUST BE SUBMITTED 3 MONTHS BEFORE PROPOSED TREATMENT
REFER TO INSTRUCTION SHEET AND CHECKLIST FOR MORE INFORMATION

FOR DEPARTMENT USE ONLY	
Application Number	_____
Water Body Name	_____
Date Received	_____
Application Fee Receipt Number	_____
Type of Application	_____
New	____ Repeat
Previous #	_____

- Check type of application: New _____ ; Repeat _____
If, repeat application , prior Permit Number: _____
- Name of Applicant: _____
- Name and Title of Authorized Person signing the Application
(if Block # 2 is an organization): _____
- Applicant street address: _____
- Applicant mailing address : _____
- Telephone Number: (_____) _____
- Is the applicant a (check): Riparian Owner _____ ; Lessee _____ ; Association of Riparian Owners/Lessees _____ ;
NYS Department of Environmental Conversation representative _____ ; Other (specify) _____
- Name of Water body: _____ 9. Township of water body: _____ 10. County of water body: _____
- Purpose of treatment (Specific species to be controlled): _____
- Uses of water proposed for treatment (check): Swimming _____ ; Irrigation _____ ; Watering Livestock _____ ; Public Water Supply _____ ; Private Water Supply _____ ; Fishing _____ ; Other (specify) _____
- Total acreage of water body: _____ 14. Acres/Acre Feet to be treated: _____ 15. Number of areas in water body to be treated: _____
- Does the water body have an outlet?: Yes ___ No ___ (Note: the outlet location must be shown on the detailed map of the water body).
- If "yes" to question 16, can applicant control water level during and for the required period of time after treatment?: Yes ___ ; No ___
- If "yes" to question 17, how will water flow be held?(draw down study must be attached): _____
If "no" to question 17, give estimated flow during time of treatment in CFS _____ AND attach outflow study.
- If applicable: Number of streams proposed for treatment: _____ Miles of streams to be treated: _____
- Name and location of any public and private water supply intakes within the treatment area

NOTE: All public and private water supply intakes must be located on the detailed map.

- Are there any regulated freshwater or tidal wetlands in the water body or streams?: Yes _____ ; No _____ ; Unknown _____
NOTE: If known, all regulated freshwater and tidal wetlands must be located on the detailed map.
- Are Fish Present? Yes _____ ; No _____ . Are they stocked by the State? Yes _____ ; No _____
- Pesticide Requested (Product Name): _____

24. Active ingredient: _____ 25. % Active ingredient: _____

26. EPA Registration Number: _____ 27. Application rate: _____

28. Total amount of product per application: _____

29. Proposed Date (s) of treatment (month/day/year): _____

30. Method of application: _____ 31. Type of application equipment: _____

32. If the proposed treatment involves an aircraft, indicate FAA Number(s): _____

33. Riparian owners/users in the vicinity of the treated area and along the outlet stream(s), who may be required to restrict their usage as a result of the treatment, must be notified of the treatment.

Has proper notification been completed: Yes ____ ; Pending ____ . If yes, When? _____ ; How? _____

If 21day comment period has expired: Approved of your plans ? Yes ____ ; No ____ . Agreed to restrictions? Yes ____ ; No ____

34. Are there or will there be other applications proposing to treat this water body or stream system this year?: Yes ____ ; No ____

If "yes", indicate who will be making the treatments: _____ ; proposed date(s) of treatment: _____

specify products proposed for use: _____

35. Name of pesticide Business/Agency performing application: _____

36. Address: _____ City: _____ State: _____ Zip Code: _____

37. Business/Agency Registration Number: _____

38. Name of Certified Applicator performing the application: _____

39. a. Certified Applicator Identification Number: _____ b. Certified Applicator Telephone Number: _____

40. Are any other aquatic pest management control practices being employed to control the target pest problem? Yes ____ ; No ____

Please Describe (attach additional sheets if necessary):

AFFIRMATION:

The applicant/applicator guarantees that he will employ the listed pesticides in conformance with all conditions of the permit and agrees to accept the following conditions as a prerequisite to the issuance of a permit: that the issuance of the permit is based on the accuracy of all statements presented by the applicant/applicator; that damage resulting from the inaccuracy of any computations, improper application of the pesticide, or legal responsibility for the representations made in obtaining approvals or releases, or the failure to obtain approvals or releases from the riparian owners/users likely to be affected is the sole responsibility of the applicant/applicator.

I hereby affirm under penalty of perjury that information on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class "A" misdemeanor pursuant to Section 210.45 of the Penal Law.

41. Signature of Individual in Item 2 or 3 above: _____ Title: _____ Date: _____

42. Signature of Representative of Applicator: _____ Title: _____ Date: _____

Renovate[®] OTF

Aquatic Herbicide



SPECIMEN

Aquatic Sites: For control of emersed, submersed and floating aquatic weeds in the following aquatic sites: ponds; lakes; reservoirs; marshes; wetlands; impounded rivers, streams and other bodies of water that are quiescent; non-irrigation canals, seasonal irrigation waters and ditches which have little or no continuous outflow.

For use in New York State, comply with Section 24(c) Special Local Need labeling for Renovate OTF, SLN NY-070004

Active Ingredient

triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid,
triethylamine salt[†]..... 14.0%
Other Ingredients..... 86.0%
TOTAL..... 100.0%

[†]Acid equivalence: triclopyr - 10.0%

Keep Out of Reach of Children CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside of label booklet for additional precautionary information and Directions for Use Including Storage and Disposal Information.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies inside label booklet.**

AGRICULTURAL CHEMICAL: Do not ship or store with food, feeds, drugs or clothing.

Renovate is a registered trademark of Dow AgroSciences LLC.
SePRO Corporation 11550 North Meridian Street, Suite 600
Carmel, IN 46032 U.S.A.

FIRST AID

If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 - 20 minutes.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
In case of emergency endangering health or the environment involving this product, call **INFOTRAC at 1-800-535-5053.**

EPA Reg. No. 67690-42
FPL070910

Aquatic Herbicide

Net contents

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Avoid contact with eyes or clothing.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Under certain conditions, treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants, which may cause fish suffocation. Therefore, to minimize this hazard do not treat more than one-half (½) of the water area in a single operation and wait at least 10 days between treatments when susceptible plants are mature and have grown to the water's surface, or when the treatment would result in significant reductions in total plant biomass. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Waters having limited and less dense weed infestations may not require partial treatments.

AGRICULTURAL CHEMICAL: Do not ship or store with food, feeds, drugs or clothing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

GENERAL INFORMATION

When applying this product follow all applicable use directions, precautions and limitations.

For Aquatic and Wetland Sites:

Use Renovate® OTF herbicide for control of emerged, submersed and floating aquatic weeds in the following aquatic sites: ponds; lakes; reservoirs; marshes; wetlands; impounded rivers, streams and other bodies of water that are quiescent; non-irrigation canals, seasonal irrigation waters and ditches which have little or no continuous outflow. Renovate OTF is formulated on biodegradable granules that, when applied to water bodies, immediately deliver Renovate OTF down to the critical area for controlling target weeds.

Obtain Required Permits: Consult with appropriate state or local pesticide and/or water authorities before applying this product in or around public waters. Permits and posting or treatment notification may be required by state or local public agencies.

Recreational Use of Water in Treatment Area: There are no restrictions on use of water in the treatment area for recreational purposes, including swimming and fishing.

Livestock Use of Water from Treatment Area: There are no restrictions on livestock consumption of water from the treatment area.

GENERAL USE PRECAUTIONS AND RESTRICTIONS

- For use in New York State, comply with Section 24(c) Special Local Need labeling for Renovate® OTF, SLN NY-070004.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not apply to tidal salt water bays or estuaries.
- Do not apply directly to un-impounded rivers or streams.
- Do not apply where runoff water may flow onto agricultural land as injury to crops may result.

APPLICATION TO WATERS USED FOR IRRIGATION

Irrigation Restrictions

- Do not use treated water for irrigating greenhouse or nursery plants unless triclopyr concentrations are confirmed to be less than 1 ppb by laboratory analysis, or other appropriate means of analysis.
- Do not use water treated with Renovate OTF for hydroponic farming.
- Do not apply Renovate OTF directly to, or otherwise permit it to come into direct contact with grapes, tobacco, vegetable crops, flowers, or other desirable broadleaf plants, and do not permit dust to drift into these areas.
- This label describes both required and recommended uses of a chemical analysis for the active ingredient, triclopyr. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA) test for the determination of the active ingredient concentration in water. Contact SePRO Corporation for the incorporation of this analysis in your treatment program. Other proven chemical analysis for the active ingredient may also be used. The ELISA analysis is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.
- **Non-Food Crop Irrigation:** There is no restriction on use of treated water to irrigate established grasses. If treated water is intended to be used to irrigate other non-crop areas not labeled for direct treatment with triclopyr (e.g., landscape ornamentals) or for other irrigation uses not described, consult with SePRO Corporation prior to commencing irrigation if triclopyr concentrations exceed 1.0 ppb.
- **Food Crop Irrigation:** Water treated with Renovate OTF may not be used for crop or food-crop irrigation purposes for 120 days after application or until triclopyr concentrations are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less. These restrictions apply to all applications of Renovate OTF where water could be used for irrigation of crops or food-crops, including:
 - o Seasonal Irrigation Waters: Renovate OTF may be applied during the off-season to surface waters that are used for irrigation on a seasonal basis.
 - o Irrigation Canals/Ditches: Those currently being used to transport irrigation water or that will be used for irrigation within 120 days following treatment

APPLICATIONS TO POTABLE WATER SOURCES

For applications of Renovate OTF to control floating, emersed, and submersed weeds in sites that contain a functioning potable water intake for human consumption, see Table 1 to determine the minimum setback distances of the application from the functioning potable water intakes.

TABLE 1

CONCENTRATION OF TRICLOPYR ACID IN WATER (PPM AE)

Area Treated (acres)	0.75 ppm	1.0 ppm	1.5 ppm	2.0 ppm	2.5 ppm
	Required Setback Distance (ft) from Potable Water Intake				
< 4	300	400	600	800	1,000
> 4 - 8	420	560	840	1,120	1,400
> 8 - 16	600	800	1,200	1,600	2,000
> 16 - 32	780	1,040	1,560	2,080	2,600
> 32 acres, calculate a setback using the formula for the appropriate rate	Setback (ft) = (800 * ln (acres) - 160)/3.33	Setback (ft) = (800 * ln (acres) - 160)/2.50	Setback (ft) = (800 * ln (acres) - 160)/1.67	Setback (ft) = (800 * ln (acres) - 160)/1.25	Setback (ft) = (800 * ln (acres) - 160)

Note: ln = natural logarithm

Example Calculation 1: to apply 2.5 ppm Renovate OTF to 50 acres:

$$\begin{aligned} \text{Setback in feet} &= (800 \times \ln (50 \text{ acres})) - 160 \\ &= (800 \times 3.912) - 160 \\ &= 2,970 \text{ feet} \end{aligned}$$

Example Calculation 2: to apply 0.75 ppm Renovate OTF to 50 acres:

$$\begin{aligned} \text{Setback in feet} &= \frac{(800 \times \ln (50 \text{ acres})) - 160}{3.33} \\ &= \frac{(800 \times 3.912) - 160}{3.33} \\ &= 892 \text{ feet} \end{aligned}$$

NOTE: Existing potable water intakes which are no longer in use, such as those replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes.

To apply Renovate OTF around and within the distances noted above from a functioning potable water intake, the intake must be turned off until the triclopyr level in the intake water is determined to be 0.4 parts per million (ppm) or less by laboratory analysis, or other appropriate means of analysis.

BEST MANAGEMENT PRACTICES FOR DRIFT MANAGEMENT

Equipment used in the application of Renovate OTF should be carefully calibrated to ensure it is working properly and delivering a uniform distribution pattern. Make aerial application only when the wind velocity is 2 to 10 mph.

Applications may be made only when there is little or no hazard for volatility or dust drift, and when application can maintain Renovate OTF placement in the intended area. Very small quantities of dust, which may not be visible, may seriously injure susceptible plants, and Renovate OTF may be blown outside of the intended treatment area under extreme conditions. Do not spread Renovate OTF when wind is blowing toward susceptible crops or ornamental plants that are near enough to be injured.

Avoiding drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for drift. The applicator is responsible for considering all these factors when making decisions.

Ground Application Equipment: To aid in reducing drift, Renovate OTF may be applied when wind velocity is low (follow state regulations; see *Sensitive Area* under *Aerial Drift Reduction Advisory* below) or using a slurry injection or eductor system.

AERIAL DRIFT REDUCTION ADVISORY

This section is advisory in nature and does not supersede the mandatory label requirements.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces drift potential.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (e.g. higher wind).

Wind: Drift potential is lowest between wind speeds of 2 - 10 mph (follow state regulations). However, many factors, including equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Sensitive Areas: Renovate OTF should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

AQUATIC WEEDS CONTROLLED BY RENOVATE OTF

alligatorweed	milfoil species	white water lily (<i>Nymphaea</i> spp.)
American lotus	parrotfeather ^{††}	water primrose (<i>Ludwigia</i> spp.)
bladderwort	pickerelweed	watershield (<i>Brasenia</i> spp.)
Eurasian watermilfoil	pennywort	yellow water lily (<i>Nuphar</i> spp., spatterdock)
Flowering rush	smartweed	
hybrid milfoil (<i>Myriophyllum spicatum</i> x <i>sibiricum</i>)	water chestnut ^{†, ††}	

† Not for use in California

†† Retreatment may be needed to achieve desired level of control.

APPLICATION METHODS

Surface Application

Use a mechanical spreader such as a fertilizer spreader, blower or mechanical seeder, or similar equipment capable of uniformly applying Renovate OTF. Before spreading any product, carefully calibrate the application equipment. When using boats and power equipment, you must determine the proper combination of (1) boat speed, (2) rate of delivery from the spreader, and (3) width of swath covered by the granules.

Use the following formula to calibrate the spreader's delivery in pounds of Renovate OTF per minute:

$$\text{Pounds per Minute} = \frac{\text{miles per hour} \times \text{swath width (feet)} \times \text{pounds per acre}}{495}$$

Aerial Application (Helicopter Only)

Ensure uniform application. All equipment should be properly calibrated using blanks with similar physical characteristics to Renovate OTF. To avoid streaked, uneven or overlapped application, use an appropriate tracking device (e.g. GPS). Refer to the *Aerial Drift Reduction Advisory* section of this label for additional precautions and instructions for aerial application.

Floating and Emerged Weeds

For control of water lily's (*Nymphaea* spp. and *Nuphar* spp.), watershield (*Brasenia* spp.), and other susceptible emerged and floating herbaceous weeds, apply 1.0 to 2.5 ppm a.e. triclopyr per acre. Apply when plants are actively growing.

Use higher rates in the rate range when plants are mature, when the weed mass is dense, in areas of greater water exchange, or for difficult to control species. Repeat as necessary to control regrowth, but do not exceed a total of 2.5 ppm a.e. triclopyr for the treatment area per annual growing season.

Submersed Weeds

For control of Eurasian watermilfoil (*Myriophyllum spicatum*) and other susceptible submersed weeds, select the rates of Renovate OTF according to Table 2 to provide a triclopyr concentration of 0.50 to 2.5 ppm a.e. in treated water. Use of higher rates in the rate range is recommended in areas of greater water exchange. These areas may require a repeat application. Split treatments over relatively short periods of time (e.g., 1 to 4 days) may be effective in some areas (e.g. small sites or sites with higher dilution potential) to maintain adequate exposure with target plants. However, total application of Renovate OTF must not exceed an application rate of 2.5 ppm a.e. triclopyr for the treatment area per annual growing season.

For optimal control, apply when Eurasian watermilfoil or other submersed weeds are actively growing.

TABLE 2						
CONCENTRATION OF TRICLOPYR ACID IN WATER (PPM A.E.)						
Average Water Depth (ft)	0.5 ppm.126	0.75 ppm	1.0 ppm	1.5 ppm	2.0 ppm	2.5 ppm
	Pounds Renovate OTF/Acre					
1	14	20	27	41	54	67
2	27	41	54	81	108	135
3	41	61	81	122	162	202
4	54	81	108	162	216	270

For applications greater in depth than 4 feet, when targeting difficult to control species, and/or in sites with high dilution potential, the following formula should be used to calculate applications rates should greater than 270 pounds of Renovate OTF be needed to achieve desired weed control. NOTE: Do not exceed 2.5 ppm a.e. triclopyr for the treatment area per annual growing season.

$$\text{Pounds of Renovate OTF per Acre} = \text{average depth} \times \text{target ppm} \times 27$$

Example Calculation:

6 foot average depth x 2.5 ppm x 27 = 405 pounds of Renovate OTF per acre

For spot treatments or small treatment sites of ½ acre or less use Table 3 to determine the application rate depending on average water depth to achieve a concentration of 1.25 to 2.5 ppm a.e. Do not exceed 2.5 ppm a.e. triclopyr for the treatment area per annual growing season. Use higher rates in small treatment areas and in areas prone to higher dilution and for heavy weed infestation. Use the lower rates for spot treatment application of areas less prone to dilution and lighter weed infestations. For best results, split the total application rate into three equal applications 8 to 12 hours apart. Apply when water is calm.

Example: A 100 ft. x 40 ft. lakeshore swimming area with a 4 ft. average depth, heavily infested with Eurasian watermilfoil

Step 1: Determine the area to be treated in square feet (ft²) by multiplying the length of the area by the width.
 > 100 ft. x 40 ft. = 4,000 ft²

Step 2: Determine the amount of Renovate OTF to be used by consulting Table 3, *Pounds of Renovate OTF for Areas Less Than ½ Acre*.

> According to Table 3, use 24.7 lbs. of Renovate OTF total based on 4 foot average depth.

Step 3: Apply Renovate OTF uniformly over weeds in treatment site in three equal applications of 8.2 lbs. each, 8 - 12 hours apart.

TABLE 3				
POUNDS OF RENOVATE OTF FOR AREAS LESS THAN ½ ACRE				
Area (ft ²)	3 foot average depth		4 foot average depth	
	1.25 ppm a.e.	2.5 ppm a.e.	1.25 ppm a.e.	2.5 ppm a.e.
500	1.2	2.3	1.5	3.0
1,000	2.3	4.6	3.1	6.1
4,000	9.3	18.6	12.4	24.7
10,000	23.2	46.5	31.0	61.9
20,000	46.5	93.0	62.0	123.9

For applications with an area or depth not included in the above chart, use the following formula to calculate the application rates.

$$\text{Pounds of Renovate OTF} = \text{area (ft}^2\text{)} / 43,560 \times \text{average depth} \times \text{target ppm} \times 27$$

Example Calculation:

$$8,250 \text{ ft}^2 / 43,560 \times 4 \text{ foot average depth} \times 1.25 \text{ ppm} \times 27 = 25.6 \text{ pounds of Renovate OTF}$$

Small treatment application of Renovate OTF is recommended with waterproof gloves or a hand spreader to uniformly distribute flakes on target weeds.

Wetland Sites

Wetlands include flood plains, deltas, marshes, swamps, bogs, and transitional areas between upland and lowland sites. Wetlands may occur within forests, wildlife habitat restoration and management areas and similar sites as well as areas adjacent to or surrounding domestic water supply reservoirs, lakes and ponds.

For control of emersed, floating or submersed aquatic weeds in wetland sites, follow use directions and application methods associated with the *Floating and Emersed Weeds* or *Submersed Weeds* sections on this label.

Use Precautions

Minimize unintentional application to open water when treating target vegetation in wetland sites.

If any content on this label is not understood, or you need further assistance, contact a SePRO Corporation Aquatic Specialist with questions specific to your application.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. Do not store near feed or foodstuffs. In case of spill, contain material and dispose as waste.

Pesticide Disposal: Wastes resulting from use of this product must be used according to label directions or disposed of at an approved waste disposal facility.

Nonrefillable Container Disposal (non-rigid plastic bags, any size): Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling if available. If recycling not available, then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

TERMS AND CONDITIONS OF USE

If terms of the following *Warranty Disclaimer*, *Inherent Risks of Use*, and *Limitation of Remedies* are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under *Warranty Disclaimer*, *Inherent Risks of Use* and *Limitations of Remedies*.

WARRANTY DISCLAIMER

SePRO Corporation warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SEPRO CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such losses or damages in writing. To the extent consistent with applicable law, in no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the *Warranty Disclaimer*, *Inherent Risks of Use* and this *Limitation of Remedies* cannot be varied by any written or verbal statements or agreements. No employee or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the *Warranty Disclaimer* or *Limitations of Remedies* in any manner.

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DOCUMENT SCAN CONTROL SHEET

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SePRO Corporation 11550 N. Meridian St., Suite 600, Carmel, IN 46032 USA www.sepro.com

Renovate[®] OTF Aquatic Herbicide

EPA Reg. No. 67690-42

EPA 24(c) Special Local Need Registration SLN NY-070004
(For Distribution and Use Only in the State of New York)

For Control of Emerged, Submersed and Floating Aquatic Weeds in Aquatic Sites

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Renovate[®] OTF before applying. Carefully follow all precautionary statements and applicable use directions.
- **In the state of New York, Renovate[®] OTF is registered under FIFRA Section 24(c) as a Special Local Need (SLN) registration. For the state of New York, this 24(c) supplemental labeling provides directions for use, including use precautions and limitations applicable to use of Renovate[®] OTF, and supersedes directions for use on the product label.**
- **Note to all pesticide applicators:** Before application under any project program, notification of an approval by the NYS Department of Environmental Conservation is required, either by an aquatic permit issued pursuant to ECL Section 15.0313(4) or issuance of purchase permits for such use.
- Use of Renovate[®] OTF according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Renovate[®] OTF.

DIRECTIONS FOR USE

Use Renovate[®] OTF for control of emerged, submersed and floating aquatic weeds in the following aquatic sites: ponds; lakes; reservoirs; marshes; wetlands; impounded rivers, streams and other bodies of water that are quiescent; non-irrigation canals, seasonal irrigation waters and ditches which have little or no continuous outflow.

Refer to the product label of Renovate[®] OTF for *Precautionary Statements*, *Environmental Hazards* and *Storage and Disposal*.

CLASSIFIED FOR
"RESTRICTED USE"
IN NEW YORK STATE
UNDER 6NYCRR PART 326

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General Use Precautions and Restrictions

- **Chemigation:** Do not apply this product through any type of irrigation system.
- **Irrigation:** Water treated with Renovate[®] OTF may not be used for irrigation purposes for 120 days after application or until triclopyr residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less. This label describes both required and recommended uses of a chemical analysis for the active ingredient, triclopyr. SePRO Corporation recommends the use of an Enzyme-Linked Immunoassay (ELISA) test for the determination of the active ingredient concentration in water. Contact SePRO Corporation for the incorporation of this analysis in your treatment program. Other proven chemical analysis for the active ingredient may also be used. The ELISA analysis is referenced in this label as the preferred method for the rapid determination of the concentration of the active ingredient in the water.
 - **Seasonal Irrigation Waters:** Renovate[®] OTF may be applied during the off-season to surface waters that are used for irrigation on a seasonal basis, provided that there is a minimum of 120 days between Renovate[®] OTF application and the first use of treated water for irrigation purposes or until triclopyr residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.
 - **Irrigation Canals/Ditches:** Do not apply Renovate[®] OTF to irrigation canals/ditches unless the 120 day restriction on irrigation water usage can be observed or triclopyr residue levels are determined by laboratory analysis, or other appropriate means of analysis, to be 1.0 ppb or less.
- **There is no restriction on use of treated water to irrigate established grasses.**
- **Do not apply Renovate[®] OTF directly to, or otherwise permit it to come into direct contact with grapes, tobacco, vegetable crops, flowers, or other desirable broadleaf plants, and do not permit dust to drift into these areas.**
- **Do not apply to salt water bays or estuaries.**
- **Do not apply directly to un-impounded rivers or streams.**
- **Do not apply on ditches or canals currently being used to transport irrigation water or that will be used for irrigation within 120 days following treatment or until triclopyr residue levels are determined to be 1.0 ppb or less.**
- **Do not apply where runoff water may flow onto agricultural land as injury to crops may result.**
- **Grazing and Haying Restrictions:** Except for lactating dairy animals, there are no grazing restrictions following application of this product.

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- **Grazing Lactating Dairy Animals:** Do not allow lactating dairy animals to graze treated areas until the next growing season following application of this product.
- Do not harvest hay for 14 days after application.
- Grazed areas of non-cropland and forestry sites may be spot treated if they comprise no more than 10% of the total grazable area.
- **Slaughter Restrictions:** During the season of application, withdraw livestock from grazing treated grass at least 3 days before slaughter.

Best Management Practices for Drift Management

Equipment used in the application of Renovate[®] OTF should be carefully calibrated to be sure it is working properly and delivering a uniform distribution pattern. Aerial application should be made only when the wind velocity is 2 to 10 mph.

Applications should be made only when there is little or no hazard for volatility or dust drift, and when application can maintain Renovate[®] OTF placement in the intended area. Very small quantities of dust, which may not be visible, may seriously injure susceptible plants, and Renovate[®] OTF may be blown outside of the intended treatment area under extreme conditions. Do not spread Renovate[®] OTF when wind is blowing toward susceptible crops or ornamental plants that are near enough to be injured.

Avoiding drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for drift. The applicator is responsible for considering all these factors when making decisions.

Ground Application Equipment: To aid in reducing drift, Renovate[®] OTF should be applied when wind velocity is low (follow state regulations; see *Sensitive Area* under *Aerial Drift Reduction Advisory* below) or using a slurry injection system.

Aerial Drift Reduction Advisory

This section is advisory in nature and does not supersede the mandatory label requirements.

Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces drift potential.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the

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applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (e.g. higher wind).

Wind: Drift potential is lowest between wind speeds of 2 - 10 mph (follow state regulations). However, many factors, including equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Sensitive Areas: Renovate[®] OTF should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Aquatic Weeds Controlled by Renovate[®] OTF

alligatorweed	parrotfeather [†]	yellow water lily (Nuphar spp., spatterdock)
American lotus	pickerelweed	water chestnut [†]
bladderwort	pennywort	water primrose (Ludwigia spp.)
Eurasian watermilfoil	smartweed	watershield (Brasenia spp.)
milfoil species		white water lily (Nymphaea spp.)

[†]Retreatment may be needed to achieve desired level of control.

APPLICATION METHODS

Surface Applications

Use a mechanical spreader such as a fertilizer spreader or mechanical seeder or similar equipment capable of uniformly applying Renovate[®] OTF. Before spreading any product, carefully calibrate the application equipment. When using boats and power equipment, you must determine the proper combination of (1) boat speed (2) rate of delivery from the spreader, and (3) width of swath covered by the granules.

Use the following formula to calibrate the spreader's delivery in pounds of Renovate[®] OTF per minute:

$$\frac{\text{Miles per hour} \times \text{swath width (feet)} \times \text{pounds per acre}}{495} = \text{Pounds per minute}$$

Aerial Application (Helicopter Only)

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Ensure uniform application. All equipment should be properly calibrated using blanks with similar physical characteristics to Renovate® OTF. To avoid streaked, uneven or overlapped application, use an appropriate tracking device (e.g. GPS). Refer to the *Aerial Drift Reduction Advisory* section of this label for additional precautions and instructions for aerial application.

Floating and Emerged Weeds

For control of water lily's (*Nymphaea* spp. and *Nuphar* spp.), watershield (*Brasenia* spp.), and other susceptible emerged and floating herbaceous weeds, apply 1.0 to 2.5 ppm triclopyr per acre. Apply when plants are actively growing.

Use higher rates in the rate range when plants are mature, when the weed mass is dense, in areas of greater water exchange, or for difficult to control species. Repeat as necessary to control regrowth, but do not exceed a total of 2.5 a.e. triclopyr for the treatment area per annual growing season.

Submersed Weeds

For control of Eurasian watermilfoil (*Myriophyllum spicatum*) and other susceptible submerged weeds in ponds, lakes, reservoirs, impounded rivers, streams and other bodies of water that are quiescent; non-irrigation canals, and seasonal irrigation waters, or ditches that have little or no continuous outflow, apply Renovate® OTF using mechanical or portable granule spreading equipment. Rates should be selected according to the rate chart below to provide a triclopyr concentration of 0.5 to 2.5 ppm ae in treated water. Use of higher rates in the rate range is recommended in areas of greater water exchange. These areas may require a repeat application. However, total application of Renovate® OTF must not exceed an application rate of 2.5 ppm ae triclopyr for the treatment area per annual growing season.

For optimal control, apply when Eurasian watermilfoil or other submersed weeds are actively growing.

CONCENTRATION OF TRICLOPYR ACID IN WATER (PPM A.E.)					
	0.5 ppm	1.0 ppm	1.5 ppm	2.0 ppm	2.5 ppm
Avg. Water Depth (ft)	Pounds Renovate® OTF / acre				
1	14	27	41	54	67
2	27	54	81	108	135
3	41	81	122	162	202



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4	54	108	162	216	270
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For applications greater in depth than 4 feet, when targeting difficult to control species and/or in sites with high dilution potential, the following formula should be used to calculate applications rates should greater than 270 pounds of Renovate® OTF be needed to achieve desired weed control. **NOTE:** Do not exceed 2.5 ppm a.e. triclopyr for the treatment area per annual growing season.

average depth x target ppm x 27 = pounds of Renovate® OTF per acre

Example Calculation:

6 foot average depth x 2.5 ppm x 27 = 405 pounds of Renovate® OTF per acre

Precautions for Potable Water Intakes:

For applications of Renovate® OTF to control floating, emersed, and submersed weeds in sites that contain a functioning potable water intake for human consumption, see the chart below to determine the minimum setback distances of the application from the functioning potable water intakes.

CONCENTRATION OF TRICLOPYR ACID IN WATER (PPM AE)					
Area Treated (acres)	0.75 ppm	1 ppm	1.5 ppm	2 ppm	2.5 ppm
	Required Setback Distance (ft) from Potable Water Intake				
<4	1,300	1,700	2,500	3,400	4,200
>4 - 8	1,700	2,300	3,500	4,600	5,800
>8 - 16	2,400	3,300	4,900	6,500	8,200
>16 - 32	3,500	4,600	6,900	9,200	11,500
>32 acres, calculate a setback using the formula for the appropriate rate	Setback (ft) = $\sqrt{[(4,102,708 \times \text{X acres treated}) + 981,690.7] / 3.33}$	Setback (ft) = $\sqrt{[(4,102,708 \times \text{X acres treated}) + 981,690.7] / 2.50}$	Setback (ft) = $\sqrt{[(4,102,708 \times \text{X acres treated}) + 981,690.7] / 1.67}$	Setback (ft) = $\sqrt{[(4,102,708 \times \text{X acres treated}) + 981,690.7] / 1.25}$	Setback (ft) = $\sqrt{[(4,102,708 \times \text{X acres treated}) + 981,690.7]}$

[†]Sqrt = Square Root

Example Calculation 1: to apply 2.5 ppm Renovate® OTF to 50 acres:

$$\begin{aligned} \text{Setback in feet} &= \sqrt{[(4,102,708 \times 50) + 981,690.7]} \\ &= \sqrt{[206,117,091]} \end{aligned}$$

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= 14,357 feet
= **14,400 feet (rounded to nearest 100 feet)**

Example Calculation 2: to apply 0.75 ppm Renovate[®] OTF to 50 acres:

$$\text{Setback in feet} = \frac{\text{sqrt} [(4,102,708 \times 50) + 981,690.7]}{3.33}$$

$$= \frac{\text{sqrt} [206,117,091]}{3.33}$$

$$= \frac{14,356.78}{3.33}$$

$$= 4,311 \text{ feet}$$

$$= \mathbf{4,300 \text{ feet (rounded to nearest 100 feet)}}$$

Note: Existing potable water intakes which are no longer in use, such as those replaced by potable water wells or connections to a municipal water system, are not considered to be functioning potable water intakes. These setback restrictions do not apply to terrestrial applications made adjacent to potable water intakes.

To apply Renovate[®] OTF around and within the distances noted above from a functioning potable water intake, the intake must be turned off until the triclopyr level in the intake water is determined to be 50 parts per billion (ppb) or less by laboratory analysis or immunoassay.

- **Recreational Use of Water in Treatment Area:** DO NOT swim in water treated with Renovate[®] OTF for three (3) hours after treatment. There are no restrictions on use of water in the treatment area for fishing.
- **Livestock Use of Water from Treatment Area:** There are no restrictions on livestock consumption of water from the treatment area.

Wetland Sites

Wetlands include flood plains, deltas, marshes, swamps, bogs, and transitional areas between upland and lowland sites. Wetlands may occur within forests, wildlife habitat restoration and management areas and similar sites as well as areas adjacent to or surrounding domestic water supply reservoirs, lakes and ponds.



FIFRA 24(C)

SPECIAL LOCAL NEED (SLN) LABEL

SePRO Corporation 11550 N. Meridian St., Suite 600, Carmel, IN 46032 USA www.sepro.com

For control of emerged, floating or submersed aquatic weeds in wetland sites, follow use directions and application methods associated with the *Floating and Emerged* or *Submersed* sections on this label.

Use Precautions

Minimize unintentional application to open water when treating target vegetation in wetland sites. **Note:** Consult local public water control authorities before applying this product in and around public water. Permits may be required to treat such areas.

IF ANY CONTENT ON THIS LABEL IS NOT UNDERSTOOD, OR YOU NEED FURTHER ASSISTANCE, CONTACT A SEPRO AQUATIC SPECIALIST WITH QUESTIONS SPECIFIC TO YOUR APPLICATION.

Renovate is a registered trademark of Dow AgroSciences LLC.

Manufactured by: SePRO Corporation, 11550 North Meridian Street, Suite 600, Carmel, IN 46032 U.S.A.

FPL050608

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JOINT APPLICATION FORM

For Permits/Determinations to undertake activities affecting streams, waterways, waterbodies, wetlands, coastal areas and sources of water supply.



New York State

You must separately apply for and obtain separate Permits/Determinations from each involved agency prior to proceeding with work. Please read all instructions.

US Army Corps of Engineers (USACE)

<p>APPLICATIONS TO</p> <p>1. NYS Department of Environmental Conservation</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> Stream Disturbance</p> <p><input type="checkbox"/> Excavation and Fill in Navigable Waters</p> <p><input type="checkbox"/> Docks, Moorings or Platforms</p> <p><input type="checkbox"/> Dams and Impoundment Structures</p> <p><input type="checkbox"/> 401 Water Quality Certification</p> <p><input checked="" type="checkbox"/> Freshwater Wetlands</p> <p><input type="checkbox"/> Tidal Wetlands</p> <p><input type="checkbox"/> Coastal Erosion Management</p> <p><input type="checkbox"/> Wild, Scenic and Recreational Rivers</p> <p><input type="checkbox"/> Water Supply</p> <p><input type="checkbox"/> Long Island Well</p> <p><input checked="" type="checkbox"/> Aquatic Vegetation Control</p> <p><input type="checkbox"/> Aquatic Insect Control</p> <p><input type="checkbox"/> Fish Control</p> <p><input type="checkbox"/> Incidental Take of Endangered/Threatened Species</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>2. US Army Corps of Engineers</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> Section 404 Clean Water Act</p> <p><input type="checkbox"/> Section 10 Rivers and Harbors Act</p> <p><input type="checkbox"/> Nationwide Permit(s) - Identify Number(s):</p> <p>_____</p> <p>_____</p> <p>Preconstruction Notification - <input type="checkbox"/> Y / <input type="checkbox"/> N</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>3. NYS Office of General Services</p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> State Owned Lands Under Water</p> <p><input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.)</p> <p><input type="checkbox"/> Docks, Moorings or Platforms</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>4. NYS Department of State</p> <p>Check if this applies:</p> <p><input type="checkbox"/> Coastal Consistency Concurrence</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>
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<p>5. Name of Applicant (use full name) Saratoga Lake Protection and Improvement District (SLPID) c/o Joe Finn</p>	<p>Applicant must be:</p> <p><input checked="" type="checkbox"/> Owner</p> <p><input type="checkbox"/> Operator</p> <p><input type="checkbox"/> Lessee</p> <p>(check all that apply)</p>
<p>Mailing Address P.O. Box 2551</p>	<p>Taxpayer ID (If applicant is NOT an individual):</p>
<p>Post Office City Ballston Spa</p>	<p>State NY Zip Code 12020</p>
<p>Telephone (daytime) (518) 581-0409</p>	<p>Email jfinn@nycap.rr.com</p>

<p>6. Name of Facility or Property Owner (if different than Applicant)</p>	
<p>Mailing Address</p>	
<p>Post Office City</p>	
<p>State Zip Code</p>	
<p>Telephone (daytime)</p>	<p>Email</p>

<p>7. Contact/Agent Name Marc Bellaud, President</p>
<p>Company Name Aquatic Control Technology</p>
<p>Mailing Address 11 John Road</p>
<p>Post Office City Sutton</p>
<p>State Zip Code</p>
<p>Telephone (daytime)</p>
<p>Email</p>

<p>8. Project / Facility Name Saratoga Lake</p>	<p>Property Tax Map Section / Block / Lot Number</p>		
<p>Project Location - Provide directions and distances to roads, bridges and bodies of waters: Three areas in the northern end of Saratoga Lake. See attached map of proposed treatment areas</p>			
<p>Street Address, if applicable</p>	<p>Post Office City</p>	<p>State NY</p>	<p>Zip Code</p>
<p>Town / Village / City Saratoga Sp./Saratoga / Malta/Stillwater</p>	<p>County Saratoga</p>		
<p>Name of USGS Quadrangle Map Saratoga</p>	<p>Stream/Water Body Name Saratoga Lake</p>		
<p>Location Coordinates: Enter NYTMs in kilometers, OR Latitude/Longitude</p>			
<p>NYTM-E</p>	<p>NYTM-N</p>	<p>Latitude 43deg00min52sec</p>	<p>Longitude 74deg44min53sec</p>

<p>For Agency Use Only</p>	<p>DEC Application Number:</p>	<p>USACE Number:</p>
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JOINT APPLICATION FORM - PAGE 2 OF 2
Submit this completed page as part of your Application.

9. Project Description and Purpose: Provide a complete narrative description of the proposed work and its purpose. Attach additional page(s) if necessary. Include: description of current site conditions and how the site will be modified by the proposed project; structures and fill materials to be installed; type and quantity of materials to be used (i.e., square ft of coverage and cubic yds of fill material and/or structures below ordinary/mean high water) area of excavation or dredging, volumes of material to be removed and location of dredged material disposal or use; work methods and type of equipment to be used; pollution control methods and mitigation activities proposed to compensate for resource impacts; and where applicable, the phasing of activities. **ATTACH PLANS ON SEPARATE PAGES.**

The "Applicant", the Saratoga Lake Protection and Improvement District (SLPID), is seeking approval for treatment of 172 acres with Renovate OTF (triclopyr) herbicide to selectively control invasive Eurasian watermilfoil (*Myriophyllum spicatum*) in the northern end of the lake.

This is a continuation of an ongoing invasive species maintenance treatment program that was initiated in 2007. The treatment area will finalized following a pre-treatment survey May 2013. Preliminary treatment areas based on the Eurasian watermilfoil distribution mapped by the Darin Fresh Water Institute and Aquatic Control Technology in 2012 are shown on Figure 1.

The treatment protocol calls for a surface application of the granular herbicide throughout the treatment areas. Low application rates are proposed to selectively control the targeted invasives, reduce impacts to native species and limit associated water use restrictions. Renovate OTF will be applied at 1.5 ppm in the smaller treatment areas (Area A - 12 and Area C - 19 acres) and at 1.3 ppm in the large treatment block (Area B - 141 ac). We plan to apply 70% of the total herbicide dosage on the first day of treatment. The remaining 30% will be applied the following day.

Proposed Use: <input type="checkbox"/> Private <input checked="" type="checkbox"/> Public <input type="checkbox"/> Commercial	Proposed Start Date: May 2013	Estimated Completion Date: July 2013
Has Work Begun on Project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, explain.		
Will Project Occupy Federal, State or Municipal Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please specify.		

10. List Previous Permit / Application Numbers (if any) and Dates:
unknown

11. Will this project require additional Federal, State, or Local Permits including zoning changes? Yes No If yes, please list:

12. **Signatures.** If applicant is not the owner, both must sign the application.
I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

Signature of Applicant	Printed Name	Title	Date
Signature of Owner	Printed Name	Title	Date
Signature of Agent	Printed Name	Title	Date

For Agency Use Only	DETERMINATION OF NO PERMIT REQUIRED		
_____ (Agency Name)	Agency Project Number _____		
	has determined that No Permit is required from this Agency for the project described in this application.		
Agency Representative: Name (printed) _____	Title _____		Date _____
Signature _____	Date _____		

**2013 AQUATIC PESTICIDE PERMIT
APPLICATION SARATOGA LAKE
Stillwater and Malta, NY**

January 2013

RIPARIAN OWNER/USER NOTIFICATION

Information Enclosed:

- Certification of Notification
- Notification/Consent Letter
- Riparian Owners/Users List

Applicant:

**Saratoga Lake Protection and Improvement District
P.O. Box 2551
Ballston Spa, NY 12020**

Applicator:

**Aquatic Control Technology
11 John Road
Sutton, MA 01590-2509**

CERTIFICATION OF NOTIFICATION OF RIPARIAN OWNERS AND USER

TO: Bureau of Pesticide Management
New York State Department of Environmental Conservation

SUBJECT: Application for Permit to Use Pesticides for the Control of An Aquatic Pest:
Saratoga Lake Protection and Improvement District
(Name of applicant as it appears on Permit Application Form)

CHECK ALL APPROPRIATE STATEMENTS

All owners of real property abutting the body of water proposed to be treated pursuant to the above-referenced Aquatic Pesticide Permit Application, a list of whom is attached to this letter, have been notified by letter of the proposed pesticide permit. This list includes property owners abutting the outflow from this body of water, if the water is not to be held in the treated water body for the period of time during which use of the water is restricted. Such letters were mailed or personally delivered and signed. Either a copy of the letter and the receipt of mailing or the original letter with signatures is attached. (A receipt for the purchase of stamps is not an acceptable receipt.)

A review of the appropriate real property tax records indicates that no person other than the applicant owns any real property abutting the water body proposed to be treated pursuant to the above-referenced Aquatic Pesticide Permit application.

A person or person not owning abutting real property possesses a vested legal right to use of the water body proposed to be treated. All such persons have been notified by letter of the proposed pesticide permit. A list of such persons, and the nature of their right to use of the water proposed to be treated is attached. Such letters were mailed or personally delivered and signed. A copy of the letter and the receipt of mailing or the original letter with signatures is attached. (A receipt for the purchase of stamps is not an acceptable receipt.)

To my knowledge, no person other than the applicant possesses any vested legal right to use the water body proposed to be treated pursuant to the above-referenced Aquatic Pesticide Permit application.

SIGNED: _____

Print or type Name: Marc Bellaud, President/Aquatic Biologist, Aquatic Control Technology

DATE: _____

If applicant is not an individual, relationship to applicant: Consultant / Applicator

False statements made on this document are punishable under §210.45 of the Penal Law
(11/02)

Aquatic Control Technology, Inc.
11 John Road
Sutton, MA 01590-2509

«owner_first_name» «owner_last_name»
«secondary_name»
«additional_owner»
«Mailing_Street_Address»
«City_State_Zip»

February 11, 2013

Saratoga Lake Property Owner:

Saratoga Lake Protection and Improvement District (SLPID) continues to work towards effectively controlling the invasive species (non-native weeds) in Saratoga Lake. Since 2007, an integrated management program utilizing winter drawdown, mechanical harvesting and herbicide treatments has been effectively employed.

For the 2013 season, SPLID proposes to treat aggressive growth of invasive Eurasian watermilfoil at the northern end of the lake. Other areas will be managed throughout the summer with the harvesters. Up to 175 acres in the lake may be treated. The final treatment area will be determined following an early season survey. The treatment is tentatively scheduled to occur on or about May 14 and 15, 2013. Treatment using Renovate OTF herbicide (active ingredient triclopyr) for Eurasian watermilfoil control is proposed. This product is registered for aquatic weed control by the U.S. Environmental Protection Agency (EPA) and New York State and has been successfully used at Saratoga Lake on several occasions since 2008. Copies of the herbicide specimen label can be accessed on-line at the following websites:

- Renovate OTF, EPA Reg. No. 67690-42: http://www.sepro.com/documents/RenovateOTF_Label.pdf
Special Local Need Registration, SLN NY-070004: <http://128.253.223.36/ppds/515588.pdf>

The treatment program will be performed by State licensed aquatic applicators under a permit issued by the New York State Department of Environmental Conservation (DEC). It is expected that the targeted Eurasian watermilfoil plants will be controlled within approximately three weeks of the date of treatment. Early season treatments with these herbicides have demonstrated good selectivity for the targeted invasive weeds. Non-target native aquatic plants are expected to remain to provide a habitat for fish and other marine life.

As a riparian owner/user you have the right to object to the restrictions of water use resulting from the proposed application. The anticipated restrictions on water use that will result from the proposed application will be: Swimming – treated areas will be closed for the day(s) of treatment; Irrigation – lake water cannot be used for irrigation purposes until testing shows that the in-lake triclopyr concentrations are less than 1 ppb, which is expected to take 4-6 weeks, but there is no restriction on use of treated water to irrigate established grasses; and Potable/Domestic Water – treated lake water cannot be used as a potable/domestic water source for 14 days and until the in-lake triclopyr concentrations are <50 ppb. You are requested to notify us at the above address or phone number as soon as possible if you have a water intake line in Saratoga Lake. If you wish to object to the proposed treatment you need to send a written notice stating your objection to: John Bennett, NYS Department of Environmental Conservation, Region 5, 232 Golf Course Road, Warrensburg, New York 12885, telephone (518) 623-1200. Your notification must be submitted within 21 days of the date of this letter. A lack of response will be considered as consent to the proposed treatment.

Notice of the specific treatment date will be provided by posting of the lake shoreline, publishing notices in the Saratogian newspaper, and on the following websites: www.sara-lake.org and www.saratogalake.org. If you wish further information about the treatment or a copy of the products' labels please contact the following person: Joe Finn, Saratoga Lake Protection and Improvement District, telephone (518) 581-0409, or visit the websites listed above.

Sincerely,
Ed Dweck
Chairman, Saratoga Lake Protection and Improvement District

