



**NYS DEC's Regulation of
Aquatic Nuisance Species (ANS)
Management Programs
Discussion about Renovate
Aquatic Herbicide**

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Aquatic Pesticides

5A Certification

Aquatic Permit?



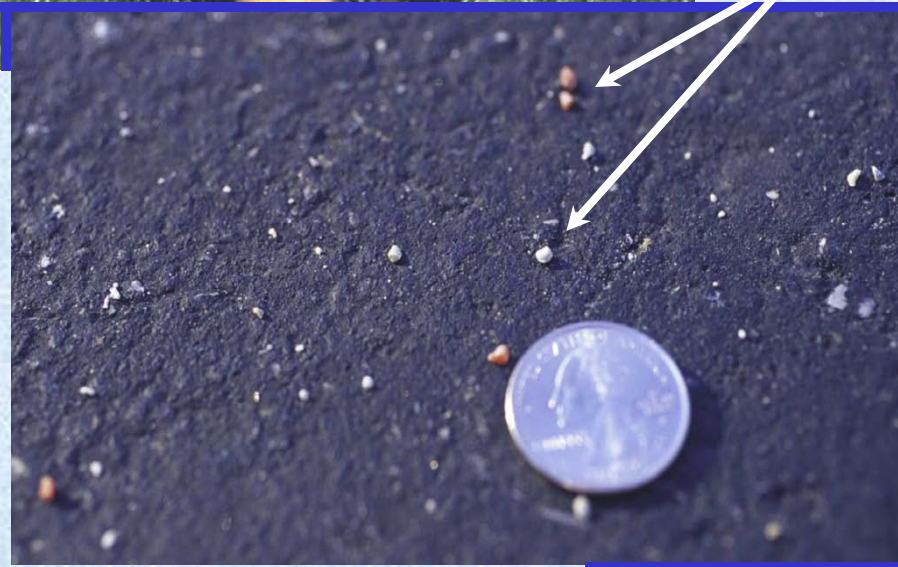


DEC Jurisdiction

- ECL Article 11- Stocking of biological control agents.
- ECL Article 15, Titles 3 and 5 - Aquatic Pesticides and Protection of Water
- ECL Article 17- Waste and storm water management
- ECL Article 24 - Freshwater wetlands
- The DEC does not support or oppose pesticide use. It's a tool in the IPM tool box.



**Fertilizer granules
on road surface**



**Take care near
impervious areas**















Renovate

- Active ingredient is triclopyr.
- Registered since 1979 as a herbicide for use on rights of way (Garlon 3A).
- Renovate 3 vs. Renovate OTF.
- First aquatic use herbicide to be registered with the EPA since 1988. Approved in 2002.
- Registered in NY on July 19, 2006 (liquid) and July 2, 2007 (OTF).



Pros and Cons

- A systemic product with a reduced contact time (hours vs. days).
- Selectivity to dicots (EWM) vs. monocots (native pondweeds).
- 120 day irrigation restriction (other than grasses) or when conc. at or below 1 ppb.
- Large set back from potable water intakes (up to 3 miles).



Lessons from Saratoga Lake

- 66, 920 lbs of Renovate OTF applied to 292 acres of the eastern shoreline in late May 2008.
- DFWI report showed significant decline in EWM (FOC from 48% to 13%). From #1 to #8.
- Species richness increased from 1.74 to 2.29.
- Fish study showed no impacts (CPUE or shifts in species composition pre and post treatment showed no adverse trends).



More Lessons

- Water use restrictions for irrigation lasted for 4-6 weeks. Downstream notice for 4 miles.
- Water use restrictions for potable water use lasted 1-2 weeks
- Some complained about poorer fishing
- Chemical drift to western shore



Clearcast Herbicide

- Active ingredient is imazamox
- Raptor Herbicide for weed control in soybeans in 1997.
- EPA registration for aquatic plant control in March 2008. DEC registered in February 2009. GEIS for use in NY under review.
- Foliar and treated water applications.



Pros and Cons

- A systemic product with a reduced contact time (similar to Renovate).
- Reduced water use restrictions for irrigation (24 hours) and potable water use (1/4 mile or < 50 ppb).
- Native pondweeds and water lilies are susceptible.



Thanks For Your Time!!

- Questions?
- Phone- 518-623-1200 Fax- 518-623-1311
- www.dec.ny.gov/chemical/298.html
- <http://pmep.cce.cornell.edu/>
- <http://pmep.cce.cornell.edu/pims/>