



Notice of Intent for Control of Nuisance Aquatic Vegetation with Herbicides

LAKE COCHITUATE NATICK, MASSACHUSETTS

PREPARED FOR

Department of Conservation and Recreation
Lake and Ponds Program
c/o Mr. James Straub
251 Causeway Street, Suite 700
Boston, Massachusetts 02114

PREPARED BY

ESS Group, Inc.
888 Worcester Street, Suite 240
Wellesley, Massachusetts 02482

Project No. D147-000.2

January 19, 2006



www.essgroup.com



Engineers
Scientists
Consultants

January 19, 2006
Natick Conservation Commission
Town Building
13 East Central Street
Natick, MA 01760

888 Worcester Street
Suite 240
Wellesley
Massachusetts
02482
p 781.431.0500
f 781.431.7434

Re: Notice of Intent
Lake Cochituate Aquatic Vegetation Management Plan

Dear Members of the Commission,

ESS Group, Inc. is pleased to submit this Notice of Intent application on behalf of our client, the Department of Conservation and Recreation (DCR), for the control of nuisance aquatic vegetation within Land Under Waterbodies and Waterways associated with Lake Cochituate (the Site). Therefore, this NOI is submitted per the Massachusetts Wetlands Protection Act and the Town of Natick Wetlands Protection Bylaw.

DCR has selected a 5-year vegetation management plan that utilizes a combination of herbicide application and various physical control methods. This NOI is submitted for the use of herbicides in Lake Cochituate, while a separate NOI has been filed with the Commission on this date for the physical removal of nuisance aquatic vegetation. Lake Cochituate is a 614-acre lake located in the towns of Framingham, Natick, and Wayland. Similar NOIs are being filed concurrently with the Wayland and Framingham Conservation Commission for work in those towns.

To aid in your review of the proposed work, enclosed please find a copy of the NOI form, appropriate site locus map, a project narrative, abutter information, filing fee and copies of the filing fee checks and Project Plans. Please note that all abutters have been notified accordingly and a copy of this application has been sent to DEP Northeast Regional Office. We respectfully request that you place this matter on your agenda for the February 2, 2006 Public Hearing. If you have any questions, please do not hesitate to contact me at (401) 330-1224 or Mr. Michael Gildesgame at (617) 626-1371. Thank you for your consideration in this matter.

Sincerely,

ESS Group, Inc.

Carl Nielsen
Senior Water Resource Scientist

Cc: DEP, NERO
Mike Gildesgame, DCR
MNHESP

J:\D147-000 Lake Cochituate\Natick\NOI\Herbicide Treatment\ccovl.doc



**NOTICE OF INTENT
FOR CONTROL OF NUISANCE AQUATIC VEGETATION WITH HERBICIDES
Lake Cochituate
Natick, Massachusetts**

Prepared For:

Department of Conservation and Recreation

Lakes and Ponds Program
c/o Mr. James Straub
251 Causeway Street, Suite 700
Boston, Massachusetts 02114

Prepared By:

ESS Group, Inc.
888 Worcester Street, Suite 240
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ESS Project No. D147-000.2

January 19, 2006



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Attachment C – Rare Species Correspondence

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Attachment E – Herbicide Information

Lake Cochituate Long Term Vegetation Management Plan (bound separately)

Notice of Intent – WPA Form 3





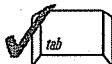
Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP:
DEP File Number
Document Transaction Number
Natick
City/Town

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
 Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button for GIS locator):

<u>Lake Cochituate</u>	<u>Natick</u>	<u>MA</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	<u>42.30</u>	<u>71.37</u>
	d. Latitude	e. Longitude
<u>N/A</u>	<u>N/A</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Myron</u>	<u>Gildesgame</u>	<u>Department of Conservation and Recreation</u>
a. First Name	b. Last Name	c. Company
<u>Office of Water Resources, 251 Causeway Street, Suite 600</u>		
d. Mailing Address		
<u>Boston</u>	<u>MA</u>	<u>02114</u>
e. City/Town	f. State	g. Zip Code
<u>617-626-1371</u>	<u>617-626-1455</u>	<u>Mike.Gildesgame@state.ma.us</u>
h. Phone Number	i. Fax Number	j. Email address

3. Property owner (if different from applicant): Check if more than one owner

<u></u>	<u></u>	<u></u>
a. First Name	b. Last Name	c. Company
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

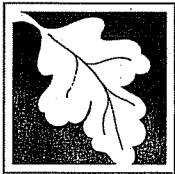
<u>ESS Group, Inc.</u>		
a. Firm		
<u>Carl</u>	<u>Nielsen</u>	
b. Contact Person First Name	c. Contact Person Last Name	
<u>401 Wampanoag Trail, Suite 400</u>		
d. Mailing Address		
<u>East Providence</u>	<u>RI</u>	<u>02915</u>
e. City/Town	f. State	g. Zip Code
<u>401-330-1224</u>	<u>401-434-8158</u>	<u>cnielsen@essgroup.com</u>
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$500.00</u>	<u>\$237.50</u>	<u>\$262.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid

6. General Project Description:

The proposed project consists of the implementation of a management plan to control nuisance aquatic vegetation at Lake Cochituate in Natick, Massachusetts. This NOI has been filed for the potential use of herbicides in portions of Lake Cochituate in the future, as needed based on the results of physical removal methods proposed under a separate NOI.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP:
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A. General Information (continued)

7. Project Type Checklist:

- a. Single Family Home
- b. Residential Subdivision
- c. Limited Project Driveway Crossing
- d. Commercial/Industrial
- e. Dock/Pier
- f. Utilities
- g. Coastal Engineering Structure
- h. Agriculture – cranberries, forestry
- i. Transportation
- j. Other

8. Property recorded at the Registry of Deeds for:

Middlesex

a. County

N/A

c. Book

N/A

b. Page Number

N/A

d. Certificate # (if registered land)

9. Has work been performed on the property under an Order of Resource Area Delineation involving Simplified Review within 3 years of the date of this application?

- a. Yes
- b. No

10. Buffer Zone Only - Is the project located only in the Buffer Zone of a bordering vegetated wetland, inland bank, or coastal resource area?

- a. Yes - answer 11 below, then skip to Section C.
- b. No - skip to Section B.

If yes, no Notice of Intent or Request for Determination of Applicability may be filed for work within the 50-foot-wide area in the Buffer Zone along the resource area during the three-year term of an Order of Resource Area Delineation, or any Extended Order, or until the applicant receives a Certificate of Compliance, whichever is later.

11. Buffer Zone Setback – For projects that involve work only in the buffer zone, select the applicable adjacent resource area (check one):

- a. BVW
- b. inland bank
- c. coastal resource area

The distance between the closest project disturbance and the associated resource area is:

d. linear feet



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B. Resource Area Effects

1. Inland Resource Areas

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	Refer to project description 1. square feet 0 3. cubic yards dredged	N/A 2. square feet
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet of flood storage replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet of flood storage replaced
f. <input type="checkbox"/> Riverfront area	1. Name of Waterway (if available)	

1. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

2. Total area of Riverfront Area on the site of the proposed project: _____

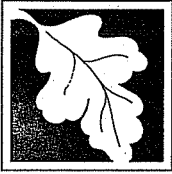
Square Feet

3. Proposed alteration of the Riverfront Area:

a. Total Square Feet _____ b. Square Feet within 100 ft. _____ c. Square Feet between 100 ft. and 200 ft. _____

4. Has an alternatives analysis been done and is it attached to this NOI? Yes No

5. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP:
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B. Resource Area Effects

2. Coastal Resource Areas:

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. Square feet 2. Cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. Square feet	2. Cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. Square feet	2. Cubic yards dune nourishment
f. <input type="checkbox"/> Coastal Banks	1. Linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. Square feet	
h. <input type="checkbox"/> Salt Marshes	1. Square feet	2. Sq ft restoration, rehab., or creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. Square feet 2. Cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. Square feet	2. Square feet restoration, rehab.
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. Cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. Square feet	

3. Limited Project:

Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 or 310 CMR 10.53?

a. Yes No If yes, describe which limited project applies to this project:

310 CMR 10.53(4) - resource area improvements

b. Limited Project



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Bordering Vegetated Wetland Delineation Methodology

Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

1. Final Order of Resource Area Delineation issued by Conservation Commission or DEP (attached)
2. DEP BVW Field Data Form (attached)
3. Final Determination of Applicability issued by Conservation Commission or DEP (attached)
4. Other Methods for Determining the BVW Boundary (attach documentation): **(see narrative)**
 - a. 50% or more wetland indicator plants
 - b. Saturated/inundated conditions exist
 - c. Groundwater indicators
 - d. Direct observation
 - e. Hydric soil indicators
 - f. Credible evidence of conditions prior to disturbance
5. Other resource areas delineated: Land Under Waterbodies and Waterways, Bank

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

D. Other Applicable Standards and Requirements

1. Is any portion of the proposed project located in estimated habitat as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program?
 - a. Yes No If yes, include proof of mailing or hand delivery of NOI to:
 Natural Heritage and Endangered Species Program
 Division of Fisheries and Wildlife
 Route 135, North Drive
 Westborough, MA 01581
June 2003
 b. Date of Map
2. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
 - a. Yes No If yes, include proof of mailing or hand delivery of NOI to:
 Massachusetts Division of Marine Fisheries
 251 Causeway Street, Suite 400
 Boston, MA 02114
 - b. Not applicable – project is in inland resource area only
3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 - a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.
 - b. ACEC



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by: DEP:
DEP File Number
Document Transaction Number
Natick
City/Town

D. Other Applicable Standards and Requirements

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?

a. Yes No

5. Is any activity within any Resource Area or Buffer Zone exempt from performance standards of the wetlands regulations, 310 CMR 10.00.

a. Yes No If yes, describe which exemption applies to this project:

b. Exemption

6. Is this project subject to the DEP Stormwater Policy? a. Yes No

If yes, stormwater management measures are required. Applicants should complete the Stormwater Management Form and submit it with this form.

b. If no, explain why the project is exempt:

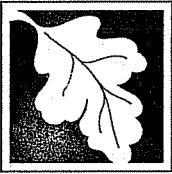
No addition of impervious surface

E. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
3. Other material identifying and explaining the determination of resource area boundaries shown on plans (e.g., a DEP BVW Field Data Form).
4. List the titles and dates for all plans and other materials submitted with this NOI.
5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
8. Attach NOI Wetland Fee Transmittal Form
9. Attach Stormwater Management Form, if needed.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by DEP:
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Document Transaction Number
Natick
City/Town

F. Fees

The fees for work proposed under each Notice of Intent must be calculated and submitted to the Conservation Commission and the Department (see Instructions and NOI Wetland Fee Transmittal Form).

No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

<u>5117</u> 1. Municipal Check Number	<u>12/20/05</u> 2. Check date
<u>5116</u> 3. State Check Number	<u>12/20/05</u> 4. Check date
<u>ESS Group, Inc.</u> 5. Payor name on check: First Name	6. Payor name on check: Last Name

G. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

<u>[Signature]</u> Signature of Applicant	<u>12/22/05</u> Date
_____ Signature of Property Owner (if different)	_____ Date
_____ Signature of Representative (if any)	_____ Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents; two copies of pages 1 and 2 of the NOI Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For DEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents; one copy of pages 1 and 2 of the NOI Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the DEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

Other:

If the applicant has checked the "yes" box in any part of Section D, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



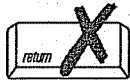
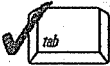
Filing Fee Materials





Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Applicant:

Myron Gildesgame Department of Conservation and Recreation
 a. First Name b. Last Name
Office of Water Resources, 251 Causeway Street, Suite 600
 d. Mailing Address
Boston MA 02114
 e. City/Town f. State g. Zip Code
617-626-1371
 h. Phone Number

2. Property Owner (if different):

 a. First Name b. Last Name c. Company

 d. Mailing Address

 e. City/Town f. State g. Zip Code

 h. Phone Number

3. Project Location:

Lake Cochituate Natick
 a. Street Address b. City/Town

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Notice of Intent (Form 3) or Abbreviated Notice of Intent (Form 4):

The fee should be calculated using the following six-step process and worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

5116

ESS GROUP, INC.
401 WAMPANOAG TRL., SUITE 400
RIVERSIDE, RI 02915

57-1/115

DATE 12/20/05

PAY TO THE ORDER OF

Commonwealth of Massachusetts

\$ 237.50

Two Hundred Thirty Seven 50/100

DOLLARS Security Features Included. Details on Back.

Bank of America



10111

Providence, Rhode Island

FOR Herbicide - State

Catalina P. Chavira

MP

⑈005116⑈ ⑆⑆011500010⑆ 93953 87350⑈

5117

ESS GROUP, INC.
401 WAMPANOAG TRL., SUITE 400
RIVERSIDE, RI 02915

57-1/115

DATE 12/20/05

PAY TO THE ORDER OF

Town of Natick

\$ 267.50

Two Hundred Sixty Seven 50/100

DOLLARS Security Features Included. Details on Back.

Bank of America



10111

Providence, Rhode Island

FOR Herbicide not music

Catalina P. Chavira

MP

⑈005117⑈ ⑆⑆011500010⑆ 93953 87350⑈

5113

ESS GROUP, INC.
401 WAMPANOAG TRL., SUITE 400
RIVERSIDE, RI 02915

57-1/115

DATE 12/20/05

PAY TO THE ORDER OF

Town of Natick

\$ 150.00

One Hundred Fifty 00/100

DOLLARS Security Features Included. Details on Back.

Bank of America



10111

Providence, Rhode Island

FOR Herbicide not - By law

Catalina P. Chavira

MP

⑈005113⑈ ⑆⑆011500010⑆ 93953 87350⑈



Abutter Notification Materials



**NOTICE OF INTENT
ABUTTER NOTIFICATION LETTER**

DATE: January 19, 2006

RE: Natick Conservation Commission Public Hearing

To Whom It May Concern,

As an abutter of a proposed project, please be advised that **two** NOTICE OF INTENT applications have been filed with the Natick Conservation Commission under the Massachusetts Wetlands Protection Act and Regulations and Town of Natick Wetland Protection Bylaw.

APPLICANT: Commonwealth of Massachusetts, Department of Conservation and Recreation

PROJECT ADDRESS OR LOCATION: Lake Cochituate

PROJECT DESCRIPTION: Two separate NOI's have been submitted for the control of nuisance aquatic vegetation at Lake Cochituate. One NOI is for the use of physical means such as hand-pulling, suctioning harvesting, and benthic barriers to control nuisance aquatic vegetation. In addition, DCR proposes conducting a milfoil weevil pilot study in a portion of North Pond to assess the effectiveness of this biological control method. The second NOI is submitted for the use of chemical herbicides to control nuisance vegetation. This letter satisfies abutter notification requirements for both NOI submittals.

APPLICANT'S AGENT:

ESS Group, Inc.
401 Wampanoag Trail, Suite 400
East Providence, Rhode Island 02915
(401) 330-1224

PUBLIC HEARING:

Natick Conservation Commission
Town Building
13 East Central St

DATE: February 2, 2006

TIME: Meetings start at 7:00 p.m. Call to confirm time.

NOTE: You may consult a copy of the *Metro West* for more information regarding the time and date of the public hearing, or contact the Natick Conservation Commission at 508-647-6452.

NOTE: Plans and application describing the proposed activity are on file with the Natick Conservation Commission by calling 508-647-6452.

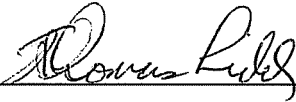
NOTE: You also may contact the Department of Environmental Protection, Northeast Regional Office for more information about this application or the Wetlands Protection Act at (617) 654-6500.

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act, I, Thomas Liddy, hereby certify under the pains and penalties of perjury that on January 19, 2006 I mailed a "Notification to Abutters" in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s. 40 and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Wetlands Protection Act by the Commonwealth of Massachusetts Department of Conservation and Recreation with the Natick Conservation Commission on January 19, 2006 for the property located at Lake Cochituate.

This form of the notification, and list of abutters and their addresses to whom it was given, are attached to this Affidavit of Service.



Name

1/19/06

Date



Town of Natick Abutters Report

6/29/2005

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
30 SUPERIOR DR 17-0000005A	BOSTON SCIENTIFIC CORP ATT ACCOUNTS PAYABLE DEPT ONE BOSTON SCIENTIFIC PL NATICK MA 01760	LC1161 00108 19960916		
36 SUPERIOR DR 17-0000005B	BOSTON SCIENTIFIC CORP ATT ACCOUNTS PAYABLE DEPT ONE BOSTON SCIENTIFIC PL NATICK MA 01760	LC1161 00108 19960916		
341 SPEEN ST 17-0000005D	GATESIDE NATICK LLC GBR CHRYSLER ROAD LIMITED LIABIL 555 THEODORE FREMD AVE S B304 RYE NY 10580	31901 00346 20000829		
19 SUPERIOR DR 17-0000009A	BOSTON SCIENTIFIC CORP ATT:ACCOUNTS PAYABLE DEPT ONE BOSTON SCIENTIFIC PLACE NATICK MA 01760	LC1110 00160 19930520		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

0 SUPERIOR DR
 17-0000009E
 BOSTON SCIENTIFIC CORP
 ATT:ACCOUNTS PAYABLE DEPT
 ONE BOSTON SCIENTIFIC PLACE
 NATICK MA
 01760
 LC1110
 00160
 19930520

1187 WORCESTER ST
 25-00000253
 BOSTON SCIENTIFIC CORP
 ATT: ACCOUNTS PAYABLE DEPT
 ONE BOSTON SCIENTIFIC PLACE
 NATICK MA
 01760
 LC1119
 00064
 19931117

0 WORCESTER ST
 25-00000275
 BOSTON SCIENTIFIC CORP
 ATT:ACCOUNTS PAYABLE DEPT
 ONE BOSTON SCIENTIFIC PLACE
 NATICK MA
 01760
 LC1110
 00160
 19930520

1085 WORCESTER ST
 25-0000252A
 1085 WORCESTER ROAD REALTY TRU
 HOLMES GARY R TRS
 1085 WORCESTER ST
 NATICK MA
 01760
 31796
 00502
 20000907

Property Location Owner of Record Deed Information Deed Owner New Deed

1071 WORCESTER ST
25-0000252B
TOOLMEX CORP
12782
00086
1075 WORCESTER ST
19750416
NATICK MA
01760

1020 WORCESTER ST
26-0000167A
NAT REALTY TRUST
LC1078
00080
1575 VFW PARKWAY
19910215
BOSTON MA
02132

1065 WORCESTER ST
26-0000168C
TOOLMEX CORP
12782
00086
1075 WORCESTER ST
19750416
NATICK MA
01760

5 SECOND ST
34-00009+10
NILES INC ETAL
15402
00254
100 CONGRESS ST
19840112
QUINCY MA
02169

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

5 KANSAS ST
 35-00000243
 VILLAGE REALTY DEV CORP
 LC945
 00143
 2 SOUTH AVE
 19810512
 NATICK MA
 01760

3 SUNSET PATH
 11-00000001
 ROSEN JONATHAN
 24863
 00571
 3 SUNSET PATH
 19940919
 NATICK MA
 01760

78 EVERGREEN RD
 11-00000002
 BODLEY DONNA M
 15425
 00210
 78 EVERGREEN RD
 19840130
 NATICK MA
 01760

80 EVERGREEN RD
 11-00000003
 HUMPHREY ROY D
 08865
 00530
 80 EVERGREEN RD
 19561129
 NATICK MA
 01760

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
82 EVERGREEN RD 11-00000004	CUBRANICH DOMENIC PAULINE C CUBRANICH 82 EVERGREEN RD NATICK MA 01760	12601 00030 19740315	MURRAY ROBERT A 82 EVERGREEN RD NATICK MA 01760	43377 0096 20042707
84 EVERGREEN RD 11-00000005	WEINSTEIN PEARL B ROBERTS SUSAN J 84 EVERGREEN RD NATICK MA 01760	31139 00237 20000216		
86 EVERGREEN RD 11-00000006	VINE GLASS REALTY TRUST MARON BEVERLY E TR 16 LEAF LANE CHOCORUANTH 03817	14296 00422 19810522		
90 EVERGREEN RD 11-00000008	GRANT CLYDE D 90 EVERGREEN RD NATICK MA 01760	13572 00530 19781013		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

0 EVERGREEN RD END WESSEL NAN 19127
 11-00000009 00281
 92 EVERGREEN RD 19880616
 NATICK MA
 01760

87 EVERGREEN RD GOODMAN ANDREW W 34066
 11-00000010 00004
 87 EVERGREEN RD 20011115
 NATICK MA
 01760

83 EVERGREEN RD GOODMAN ANDREW W
 11-00000011 87 EVERGREEN RD 20011115
 NATICK MA
 01760

81 EVERGREEN RD WALDMAN PAMELA J 26022 43370
 11-00000012 00013 0582
 81 EVERGREEN RD 19960202 20042607
 NATICK MA 01760
 WRIGHT LESLIE B
 GOLDBAUM RICHARD J
 81 EVERGREEN RD
 NATICK MA 01760

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

25 OFF COMMONWEALTH
11-00000018
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUATMA
01778
00000
0

25 COMMONWEALTH RD
11-00000019
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUATMA
01778
00000
0

225 COMMONWEALTH RD
11-00000020
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUATMA
01778
00000
0

25 COMMONWEALTH RD
11-00000022
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUATMA
01778
00000
0

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

88 EVERGREEN RD
 11-0000007B
 CARR EDWARD J
 KAREN A CARR
 88 EVERGREEN RD
 NATICK MA
 01760
 15392
 00178
 19840105

0 EVERGREEN RD END
 11-0000009A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 00000
 0

77 1/2 EVERGREEN RD
 11-0000013A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 12108
 00313
 19711111

77 EVERGREEN RD
 11-0000013B
 KIRBY TODD C
 75 EVERGREEN RD
 NATICK MA
 01760
 27789
 00091
 19971020

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

79 EVERGREEN RD
 11-0000013C
 WALDMAN PAMELA J
 81 EVERGREEN RD
 NATICK MA
 01760
 26022
 00013
 19960202

75 1/2 EVERGREEN RD
 11-0000013D
 KIRBY TODD C
 75 EVERGREEN RD
 NATICK MA
 01760
 27789
 00091
 19971020

75 EVERGREEN RD
 11-0000014A
 KIRBY TODD C
 75 EVERGREEN RD
 NATICK MA
 01760
 27789
 00091
 19971020

73 OFF EVERGREEN RD
 11-0000014B
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 00000
 0

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

77 OFF EVERGREEN RD
 11-0000014C
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES 00000
 PO BOX 123 0
 COCHITUATMA
 01778

39 COMMONWEALTH RD
 11-0000021B
 COMMONWEALTH OF MASSACHUSETT 09168
 DEPT OF NATURAL RESOURCES 00475
 PO BOX 123 19580424
 COCHITUATMA
 01778

0 (R) COMMONWEALTH
 11-0000022A
 MASS TURNPIKE AUTHORITY 00000
 80 BOYLSTON ST 0
 BOSTON MA
 02116

8 CREST RD
 12-00000036
 BREADY ROBERT L 21204
 8 CREST ROAD 00466
 NATICK MA 19910606
 01760
 BREADY DEBORAH A 42379
 BREADY ROBERT L 0559
 8 CREST ROAD 20040104
 NATICK MA 01760

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

22 CREST RD 12-00000037	GILLOTT LISA GILLOTT EDWARD C 22 CREST RD NATICK MA 01760	41147 00308 20031008	
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60 EVERGREEN RD 12-00000060	CLIFFORD ANN HALPIN ROBERT T/C 60 EVERGREEN RD NATICK MA 01760	35138 00324 20020325	
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62 EVERGREEN RD 12-00000061	CLIFFORD ANN HALPIN ROBERT T/C 60 EVERGREEN RD NATICK MA 01760	35108 00324 20020325	
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6 SUNSET PATH 12-00000062	PRESCOTT FAMILY TRUST PRESCOTT RONALD A JANICE A TRS 6 SUNSET PATH NATICK MA 01760	32575 00048 20010328	
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Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
67 EVERGREEN RD 12-000000063	BROCHU DEBORAH 67 EVERGREEN RD NATICK MA 01760	36190 00319 20020821		
14 CREST RD 12-00000036A	WHITE KEVIN H WHITE DONNA J 14 CREST RD NATICK MA 01760	30177 294 19990517	GAUDET LINCOLN 14 CREST RD NATICK MA 01760	43429 0568 20040208
20 CREST RD 12-00000037A	TILTON MICHAEL F DENISE Y TILTON 20 CREST RD NATICK MA 01760	14311 00434 19810608		
18 CREST RD 12-00000037B	DOUCETTE DAVID P MARGARET M DOUCETTE 18 CREST RD NATICK MA 01760	15228 00500 19830922		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

28 CREST RD
 12-0000039A
 YEE KENNETH
 YEE CAROLINE
 30 CREST RD
 NATICK MA
 01760
 39381
 00467
 20030530

54 EVERGREEN RD
 12-0000039D
 MAFFEO MARTIN A
 D A COLLINS STEIN MARIO A KUMIKO T
 58 EVERGREEN RD
 NATICK MA
 01760
 30949
 00490
 19991210

58 EVERGREEN RD
 12-0000059A
 MAFFEO MARTIN A
 DEBORAH A COLLINS
 58 EVERGREEN RD
 NATICK MA
 01760
 13317
 00711
 19771026

60 EVERGREEN RD
 12-0000060A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 00000
 0

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

69 EVERGREEN RD
 12-0000062A
 MILLS DIANA E
 73 EVERGREEN ROAD
 NATICK MA
 01760
 31602
 411
 20000713

63 EVERGREEN RD
 12-0000064B
 LUKE ANDREW W
 PATRICIA D LUKE
 63 EVERGREEN RD
 NATICK MA
 01760
 17142
 00204
 19860626

43 CYPRESS RD
 12-0000084A
 BAZINET ALMA H
 43 CYPRESS RD
 NATICK MA
 01760
 10406
 00221
 19631120

39 CYPRESS RD OFF
 12-0000084C
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUATMA
 01778
 00000
 0

Property Location Owner of Record Deed Information Deed Owner New Deed

15 BAYBERRY RD NATICK INHAB OF THE TOWN 19257
12-0000085F BOARD OF SELECTMEN 00283
13 EAST CENTRAL ST 19880810
NATICK MA
01760

13 BAYBERRY RD WILKINSON MARK A 31216
12-0000085G WILKINSON BEVERLY T 00365
13 BAYBERRY RD 20000315
NATICK MA
01760

11 BAYBERRY RD DRURY HERBERT JR 37919
12-0000085H DRURY JOANNE 00602
11 BAYBERRY RD 20030208
NATICK MA
01760

0 OFF MAGNOLIA RD MAGNOLIA LAKEFRONT REALTY TRUS 32520
12-0000086A FANCOURT ROXANNA D TRS 00085
39 FLORENCE ST 20010319
NATICK MA
01760

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

0 MASS TURNPIKE 12-0000086D	MASS TURNPIKE AUTHORITY 80 BOYLSTON ST BOSTON MA 02116	08614 00368 19551108	
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0 MASS TURNPIKE 12-0000086E	MASS TURNPIKE AUTHORITY 80 BOYLSTON ST BOSTON MA 02116	00000 0	
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24 CREST RD 12-000038+A	STEIN MARIO A STEIN KUMIKO T 24 CREST RD NATICK MA 01760	LC1215 73 19991210	
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1131 WORCESTER ST 17-00000010	COMMONWEALTH OF MASSACHUSETT DEPT OF NATURAL RESOURCES PO BOX 123 COCHITUATMA 01778	00000 0	
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Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

1053 WORCESTER ST
 17-00000011
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES 00000
 PO BOX 123 0
 COCHITUATMA
 01778

1053 WORCESTER ST
 17-00000012
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES 00000
 PO BOX 123 0
 COCHITUATMA
 01778

1053 WORCESTER ST
 17-00000015
 SORENSEN GEORGE P 09893
 COCHITUATE BUILDING TRUST 00251
 119 OAK ST AMVTS POST 79 19610329
 NATICK MA
 01760

41 SUPERIOR DR
 17-00000016
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES 00000
 PO BOX 123 0
 COCHITUATMA
 01778

Property Location Owner of Record Deed Information Deed Owner New Deed

0 SPEEN ST
17-000005FC
PENN CENTRAL CO
10780
00450
6 PENN CENTER PLAZA
PHILADELPPA
19650326
19104

51 LAKESHORE RD
18-00000039
GOWLOWICZ BOLESLOW S
07192
00422
592 REMERT PL
NORTH BAINY
19470919
11510-1727

45 LAKESHORE RD
18-00000040
TANGERINI CHESTER G
31384
00287
41 LAKESHORE RD
NATICK MA
20000508
01760

41 (R) LAKESHORE RD
18-00000041
THE CAMP PLEASANT TRUST
30143
BROWN SHIRLEY M TR
00371
6 MEGONKO RD
NATICK MA
19990505
01760

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

6 MEGONKO RD 18-00000065	BROWN CLARENCE SHIRLEY M BROWN 6 MEGONKO RD NATICK MA 01760	09219 00537 19580705
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7 MEGONKO RD 18-00000066	MCCOLL THOMAS ROBERT JANE MORRIS MCCOLL 7 MEGONKO RD NATICK MA 01760	23212 00533 19930521
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29 VESTA RD 18-00000069	COWEN FRED V ANNA MICHAUD COWEN 29 VESTA RD NATICK MA 01760	19000 00234 19880422
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27 VESTA RD 18-00000070	ARGYROPLE CHRISTOPHER N 68 VESTA RD NATICK MA 01760	37267 00500 20021205
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Property Location Owner of Record Deed Information Deed Owner New Deed

68 VESTA RD
18-00000071
ARGYROPLE CHRISTOPHER N
37267
00500
172 COUNTRY DR
20021205
WESTON MA
02493

16 VESTA RD
18-00000073
MURPHY WILLIAM T
24826
MURPHY JULIET S
00151
16 VESTA RD
19940831
NATICK MA
01760

18 PERRY RD
18-00000074
BAKER ARNOLD J
07591
MARY C BAKER
00376
18 PERRY RD
19500610
NATICK MA
01760

20 PERRY RD
18-00000075
BRADLEY MICHAEL R
13445
DONNA BRADLEY
00054
PO BOX 1211
19780519
NOKOMIS FL
34274

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
13 VESTA RD 18-00000076	JOSELYN MARY LOUISE MICHAEL F JOSSELYN 17 PERRY RD NATICK MA 01760	19512 00557 19881206		
2 VESTA RD 18-00000077	BENSLEY ROBERT A MOYNIHAN DEBORAH A 2 VESTA RD NATICK MA 01760	31784 000052 20000901		
9 VESTA RD 18-00000078	CLARK MICHAEL R CLARK ERIN M 9 VESTA RD NATICK MA 01760	30950 00114 19991210	KASSER JAMES R KASSER CANDACE W 9 VESTA RD NATICK MA 01760	43508 0202 20041208
7 VESTA RD 18-00000079	BLASKI GERALYN M RICHARD A SPAULDING 10 VESTA RD NATICK MA 01760	13261 00359 19770815		

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
12 VESTA RD 18-00000080	BROGAN DANIEL R BROGAN SHERRIE R 12 VESTA RD NATICK MA 01760	41087 00267 20031001		
3 VESTA RD 18-00000111	WIGGLESWORTH LOUISE A L/E 3 VESTA RD NATICK MA 01760	08984 00183 19570705		
12 DARTMOUTH ST REA 18-00000112	HUNTER LAWRENCE J 704 GREENTREE RD LINTHICUMMD 21090	14937 00200 19830321	HUNTER STEVEN F 704 GREENTREE RD LINTHICUM MD 21090	41813 0156 20040121
48 BIRCH RD 18-00000113	KINKEAD LOIS E 48 BIRCH RD NATICK MA 01760	12362 00533 19730112		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

41 BIRCH RD
 18-00000114
 WRIGHT DAVID J
 RITA M WRIGHT
 41 BIRCH RD
 NATICK MA
 01760
 07811
 00161
 19511009

10 SUNSET PATH
 18-00000115
 ZULLO EDWARD A
 89 UNION ST
 NATICK MA
 01760
 27787
 00342
 19971020

10 SUNSET PATH
 18-00000116
 MACGREGOR DAVID E
 10 SUNSET PATH
 NATICK MA
 01760
 26199
 00530
 19950329

7 SUNSET PATH
 18-00000117
 ANDERSON WALTER J
 EVELYN L ANDERSON
 7 SUNSET PATH
 NATICK MA
 01760
 07190
 00508
 19470919

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

0 SUNSET PATH END
18-00000118
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES 00000
PO BOX 123 0
COCHITUA TMA
01778

45 LAKESHORE RD
18-0000039A
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES 00000
PO BOX 123 0
COCHITUA TMA
01778

214 NORTH MAIN ST
18-0000056C
BROWN CLARENCE 13004
SHIRLEY BROWN 00527
6 MEGONKO RD 19760629
NATICK MA
01760

0 MEGONKO RD OFF
18-0000067A
ETTER MARTIN A 18869
CATHERINE M ETTER 00525
6 MEGONKO RD 19880216
NATICK MA
01760

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

5 MEGONKO RD
 18-0000067B
 NATICK INHAB OF THE TOWN
 BOARD OF SELECTMEN
 13 EAST CENTRAL ST
 NATICK MA
 01760

15706
 00022
 19840727

31 VESTA RD
 18-0000068F
 NATICK INHAB OF THE TOWN
 BOARD OF SELECTMEN
 13 EAST CENTRAL ST
 NATICK MA
 01760

15706
 00022
 19840727

23 VESTA RD
 18-0000072A
 CARR BRENDAN M
 23 VESTA RD
 NATICK MA
 01760

LC1221
 00138
 20000525

8 VESTA RD
 18-0000072B
 KING BARBARA
 8 VESTA RD
 NATICK MA
 01760

LC1224
 00118
 20000721

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

23 (R) VESTA RD
 18-0000072C
 RYAN JOHN REALTY TRUST
 CARR BRENDAN M HEATHER N TRS
 23 VESTA RD
 NATICK MA
 01760
 LC1228
 00199
 20001024

0 PERRY RD END
 18-0000075A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 00000
 0

0 BIRCH RD END
 18-0000113A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUA MA
 01778
 00000
 0

25 RIDGE AVE
 25-00000004
 HAGGETT PAMELA C
 25 RIDGE AVE
 NATICK MA
 01760
 36397
 00239
 20020913

Property Location Owner of Record Deed Information Deed Owner New Deed

26 PURINGTON AVE LAVERY SHIRLEY R 10702
25-00000005 00196
26 PURINGTON AVE 19641201
NATICK MA
01760

29 RIDGE AVE LANGHORST NANCHI H 26784
25-00000006 LANGHORST FREDERICK H JR 00160
29 RIDGE AVE 19961024
NATICK MA
01760

31 RIDGE AVE SMITH MAXIM G 13304
25-00000007 PATRICIA E SMITH 00514
31 RIDGE AVE 19771006
NATICK MA
01760

33 RIDGE AVE BROWN CHERYL J 16459
25-00000008 00558
33 RIDGE AVE 19850926
NATICK MA
01760

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

35 RIDGE AVE 25-00000009	MCCAFFREY EDWARD J MCCAFFREY CAROLE M 35 RIDGE AVE NATICK MA 01760	LC1187 00138 19980519	
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37 RIDGE AVE 25-00000010	GOULD PHYLLIS S 37 RIDGE AVE NATICK MA 01760	00574 00065 19560625	
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39 RIDGE AVE 25-00000011	CONNER JANET C 39 RIDGE AVE NATICK MA 01760	LC1198 00063 19981218	
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41 RIDGE AVE 25-00000012	HESS PAM 41 RIDGE AVE NATICK MA 01760	LC1066 00197 19900228	
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Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

30 RIDGE AVE
 25-00000013
 DELICOLLI PETER
 164 NORTH MAIN STREET
 NATICK MA
 01760
 LC957
 00090
 19820617

34 ROBINHOOD RD
 25-00000014
 BOGAN NATHANIEL R
 BOGAN BOBBIE-JO H
 34 ROBINHOOD RD
 NATICK MA
 01760
 LC1149
 00124
 19951208

32 ROBINHOOD RD
 25-00000015
 TOLMAN THOMAS A
 EULA TOLMAN
 32 ROBINHOOD RD
 NATICK MA
 01760
 LC765
 00074
 19680614

30 ROBINHOOD RD
 25-00000016
 QUINN VINCENT K
 SUE B QUINN
 30 ROBINHOOD RD
 NATICK MA
 01760
 LC1075
 00137
 19901113

Property Location Owner of Record Deed Information Deed Owner New Deed

28 ROBINHOOD RD FRAZIER WILLIAM J LC1080
25-00000017 DAWN L FRAZIER 00079
28 ROBINHOOD RD 19910425
NATICK MA
01760

26 ROBINHOOD RD ELOVITZ DAVID M LC689
25-00000018 FRANCES K ELOVITZ 00114
26 ROBINHOOD RD 19630730
NATICK MA
01760

24 ROBINHOOD RD CHASE W BRADFORD JR LC1001
25-00000019 ANNE Y CHASE 00033
24 ROBINHOOD RD 19850729
NATICK MA
01760

15 RIDGE AVE BOATES HARRIET R 13030
25-0000001B 00210
15 RIDGE AVE 19760804
NATICK MA
01760

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

22 ROBINHOOD RD
 25-00000020
 22 ROBINHOOD RD
 NATICK MA
 01760

NEWMARK RAYMOND D
 NEWMARK CAROL L
 22 ROBINHOOD RD
 NATICK MA
 01760

LC1135
 00130
 19941206

20 ROBINHOOD RD
 25-00000021
 20 ROBINHOOD RD
 NATICK MA
 01760

KUSHNER SUZETTE E
 20 ROBINHOOD RD
 NATICK MA
 01760

LC1077
 00041
 19910102

3 ARCHER DR
 25-00000022
 3 ARCHER DR
 NATICK MA
 01760

BATT GERARD C
 FUCHIOKA KEIKO
 3 ARCHER DR
 NATICK MA
 01760

LC1185
 00100
 19980330

5 ARCHER DR
 25-00000023
 5 ARCHER DR
 NATICK MA
 01760

SUPPLE EDWARD A III
 5 ARCHER DR
 NATICK MA
 01760

LC1198
 00097
 19981221

Property Location Owner of Record Deed Information Deed Owner New Deed

7 ARCHER DR SUPPLE EDWARD A III LC1233
 25-00000024 00087
 7 ARCHER DR 20010205
 NATICK MA
 01760

15 1/2 RIDGE AVE FLINCHBAUGH KATHLEEN B LC952
 25-0000002A 00090
 15 RIDGE AVE 19811214
 NATICK MA
 01760

17 RIDGE AVE DREISSIG ROBERT W 26853
 25-0000003A DREISSIG SANDRA E 00310
 17 RIDGE AVE 19961122
 NATICK MA
 01760

19 RIDGE AVE NICKERSON LINDA 22732
 25-0000003B 00095
 19 RIDGE AVE 19921216
 NATICK MA
 01760

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

21 RIDGE AVE
 25-0000003C
 SAMELS JAMES E
 SAMELS EILEEN M
 21 RIDGE AVE
 NATICK MA
 01760
 30184
 076
 19990519

23 RIDGE AVE
 25-0000003D
 GOLAN NOMINEE TRUST
 GOLAN HAROLD P IRENE S TR
 23 RIDGE AVE
 NATICK MA
 01760
 29520
 00390
 19981215

37 RIDGE AVE
 25-0000009A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUAMA
 01778
 00000
 0

30 ROBINHOOD RD
 25-0000012A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUAMA
 01778
 00000
 0

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

1130 WORCESTER ST
25-0000024A
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUA MA
01778
00000
0

1093 WORCESTER ST
25-0000253A
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUA MA
01778
00000
0

1131 WORCESTER ST
25-0000253B
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
PO BOX 123
COCHITUA MA
01778
00000
0

1 LAKEWOOD RD
26-00000019
BURKE JANICE C
1 LAKEWOOD RD
NATICK MA
01760
LC1115
00057
19930819

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
27 ARCADIA RD 26-00000035	BAYER BETHANY A BAYER MARK D 27 ARCADIA RD NATICK MA 01760	31943 00123 20001020	BAYER MARK D 27 ARCADIA RD NATICK MA 01760	42269 0021 20041903
30 ARCADIA RD 26-00000037	KESSEL IRENE F MEYERS TERRY L KESSEL T/C 29 WATER ST NATICK MA 01760	28873 00029 19980724		
23 ARCADIA RD 26-00000038	KELLER DEANNE WILLIAM F FLYNN 23 ARCADIA RD NATICK MA 01760	23106 00325 19930423		
19 ARCADIA RD 26-00000039	PARKER ERIC R COADY STACEY L 19 ARCADIA RD NATICK MA 01760	30466 00074 19990727		

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
1 ARCADIA RD 26-00000040	MODELL MARK D 1 ARCADIA RD NATICK MA 01760	33105 00520 20010622	MODELL MARK D RAKHLEVSKAYA VEDA 1 ARCADIA RD NATICK MA 01760	41992 0190 20040602
5 LOKER ST 26-00000116	BORCHI RAYMOND A BORCHI MARY T 5 LOKER ST NATICK MA 01760	32889 00292 20010518		
3 LOKER ST 26-00000117	DOIRON WILLIAM C 3 LOKER ST NATICK MA 01760	35583 00007 20020531		
1 LOKER ST 26-00000119	BRADY HARRISON A DEBRA S BRADY 300 BACON ST NATICK MA 01760	13857 00030 19791213		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

3 LOKER ST
 26-00000120
 SANGREY KARLA
 302 BACON ST
 NATICK MA
 01760
 38996
 00087
 20030430

298 BACON ST
 26-00000121
 BROUDE NATALIA
 298 BACON ST
 NATICK MA
 01760
 26526
 00112
 19960726

300 BACON ST
 26-00000122
 BRADY HARRISON A
 DEBRA S BRADY
 300 BACON ST
 NATICK MA
 01760
 13857
 00030
 19791213

302 BACON ST
 26-00000123
 SANGREY KARLA
 302 BACON ST
 NATICK MA
 01760
 38996
 00087
 20030430

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
304 BACON ST 26-00000124	POSSON CRAIG S KATHLEEN C POSSON 304 BACON ST NATICK MA 01760	13243 00416 19770722		
306 BACON ST 26-00000125	LEBLANC PATRICIA F TR 3 WARD LANE SHERBORNA 01770	06551 00088 19411016		
308 BACON ST 26-00000126	GHETTI PAUL RUTH A GHETTI 308 BACON ST NATICK MA 01760	12605 00399 19740326		
316 BACON ST 26-00000128	FAY ROBERT J JR KAREN M FAY 316 BACON ST NATICK MA 01760	16251 00037 19850627		

Property Location Owner of Record Deed Information Deed Owner New Deed

318 BACON ST FOLEY MICHAEL E 25774
26-00000129 FOLEY JANET E 00349
318 BACON ST 19951030
NATICK MA
01760

320 BACON ST PUCILLO JAMES 11479
26-00000130 00453
320 BACON ST 19680318
NATICK MA
01760

322 BACON ST NATICK INHAB OF THE TOWN 30508
26-00000131 00603
13 EAST CENTRAL ST 19990804
NATICK MA
01760

324 BACON ST NATICK INHAB OF THE TOWN 30553
26-00000132 00008
13 EAST CENTRAL ST 19990817
NATICK MA
01760

Property Location Owner of Record Deed Information Deed Owner New Deed

326 BACON ST
26-00000133
NAT REALTY TRUST
CLAIR JAMES E TR
151 RIVERMOOR ST
BOSTON MA
02132
LC1078
00080
19910215

1076 WORCESTER ST
26-00000168
NATICK INHAB OF THE TOWN
PUBLIC WORKS DEPT
13 EAST CENTRAL ST
NATICK MA
01760
00000
0

71 LAKESHORE RD
26-00000169
BENSON NANCY H
71 LAKESHORE RD
NATICK MA
01760
13713
00164
19790614

69 LAKESHORE RD
26-00000170
HART JOHN I
HART JUDITH N
69 LAKESHORE RD
NATICK MA
01760
27687
00127
19970915

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

67 LAKESHORE RD
 26-00000171
 EDITH L ALPERS TRUST THE
 ALPERS EDITH L
 67 LAKESHORE RD
 NATICK MA
 01760
 21752
 00311
 19920211

65 LAKESHORE RD
 26-00000172
 FISHER JOHN
 65 LAKESHORE RD
 NATICK MA
 01760
 34211
 00347
 20011203

0 FISHER ST END
 26-0000019A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUATMA
 01778
 00000
 0

63 FISHER ST
 26-0000020B
 NEWIS JOHN K
 DIONNE MARGARET E
 ZERO LAKEWOOD RD
 NATICK MA
 01760
 LC1158
 00181
 19960715

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
61 FISHER ST 26-0000020C	GARVEY HAROLD T MARTHA A RIVARD-GARVEY 61 FISHER ST NATICK MA 01760	LC1183 00025 19980126		
29 ARCADIA RD 26-0000036A	BREDA DONALD J SR BREDA ANN M 29 ARCADIA RD NATICK MA 01760	32699 00491 20010418	BREDA ANN M 29 ARCADIA RD NATICK MA 01760	42010 0525 20041002
31 ARCADIA RD 26-0000036B	GARVEY ANNA T 31 ARCADIA RD NATICK MA 01760	10378 00548 19631011		
34 ARCADIA RD 26-0000036C	COLLINS JOANNE E 34 ARCADIA RD NATICK MA 01760	27297 00491 19970507		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

32 ARCADIA RD
 26-0000036D
 LERME CATHERINE S
 BENDHEIM ANDREW
 32 ARCADIA RD
 NATICK MA
 01760
 23309
 00150
 19930611

13 ARCADIA RD
 26-0000039A
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUAMA
 01778
 00000
 0

310 BACON ST
 26-0000127A
 WRIGHT AUGUSTUS S
 MARY WRIGHT
 312 BACON ST
 NATICK MA
 01760
 09261
 00577
 19580630

314 BACON ST
 26-0000127C
 BYRNE KAREN A
 314 BACON ST
 NATICK MA
 01760
 14563
 00437
 19820318

Property Location Owner of Record Deed Information Deed Owner New Deed

1136 WORCESTER ST
26-0000168A
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES 00000
PO BOX 123 0
COCHITUATMA
01778

1055 WORCESTER ST
26-0000168D
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES 00000
PO BOX 123 0
COCHITUATMA
01778

63 LAKESHORE RD
26-0000173A
GOLDMAN HARRY W 25053
GOLDMAN EVELYN 00036
63 LAKE SHORE RD 19941204
NATICK MA
01760

61 LAKESHORE RD
26-0000173B
MILLER A RICHARD 11515
JILL A MILLER 00006
61 LAKESHORE RD 19680531
NATICK MA
01760

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
9 RIDGE AVE 33-00000002	REITERS REALTY TRUST REITERS AUSTRALIA JANIS E TRS 9 RIDGE AVE NATICK MA 01760	33140 00428 20010627		
7 RIDGE AVE 33-00000003	OCKERBY FRANK W BARBARA A OCKERBY 7 RIDGE AVE NATICK MA 01760	13045 00570 19760826		
5 RIDGE AVE 33-00000004	SHAFFER ROBERT A MAUREEN D SHAFFER 5 RIDGE AVE NATICK MA 01760	13075 00535 19761015	SHAFFER MARK A SHAFFER PATRICIA A 5 RIDGE AVE NATICK MA 01760	44028 00121 20041102
3 RIDGE AVE 33-00000005	MAHONEY EDWARD F BARBARA A MAHONEY 3 RIDGE AVE NATICK MA 01760	15059 00080 19830613		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

1 RIDGE AVE
 33-00000006
 WADSWORTH JOHN W
 WADSWORTH MARIA M
 1 RIDGE AVE
 NATICK MA
 01760
 35827
 00198
 20020702

11 1/2 RIDGE AVE
 33-0000001B
 NUNN ELEANOR C L/E
 NUNN KENNETH P & NUNN CLAUDIA E
 11 RIDGE AVE
 NATICK MA
 01760
 30271
 376
 19990609

11 RIDGE AVE
 33-0000001C
 NUNN ELEANOR C L/E
 NUNN KENNETH P JR & NUNN CLAUDIA
 44 CANTERBURY RD
 BROOKLYNCT
 06234
 30271
 376
 19990609

201 SPEEN ST
 33-00000025
 MITCHELL JOHN E
 DEBBIE A MITCHELL
 201 SPEEN ST
 NATICK MA
 01760
 LC917
 00171
 19790319

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

199 SPEEN ST
 33-00000026
 MITCHELL JOHN E
 DEBBIE A MITCHELL
 201 SPEEN ST
 NATICK MA
 01760
 LC917
 00171
 19790319

197 SPEEN ST
 33-00000027
 BACKMAN KENNETH J
 68 PINE ST
 DOVER MA
 02030
 LC1254
 00049
 20020626
 BACKMAN SANDRA L
 68 PINE ST
 DOVER MA 02030
 01272
 0124
 20030708

21 CRESCENT ST
 33-00000028
 PINGALORE MARY ANN
 PATRICIA E GRAY
 21 CRESCENT ST
 NATICK MA
 01760
 LC1069
 00116
 19900517

17 CRESCENT ST
 33-00000029
 MAYBE REALTY TRUST
 DUFF MAY B TRUSTEE
 19 CRESCENT ST
 NATICK MA
 01760
 1133
 00131
 19941012

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

15 CRESCENT ST
 33-00000030
 TAVILLA ANTHONY
 TAVILLA JOSEPHINE
 15 CRESCENT ST
 NATICK MA
 01760
 LC1195
 00133
 19981023

13 CRESCENT ST
 33-00000031
 DININIO ROBERT M ETAL
 13 CRESCENT ST
 NATICK MA
 01760
 LC1261
 00049
 20021125

11 CRESCENT ST
 33-00000032
 11 CRESCENT ST REALTY TRUST
 HAWTREY PETER
 11 CRESCENT ST
 NATICK MA
 01760
 LC1198
 00042
 19981216

9 CRESCENT ST
 33-00000033
 BERKOWITZ CAROLE ANN
 9 CRESCENT ST
 NATICK MA
 01760
 LC1072
 00001
 19900727

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

5 CRESCENT ST
 33-00000034

SINGH FALGUNI V
 5 CRESCENT ST
 NATICK MA
 01760

LC1254
 00071
 20020627

5 1/2 RIDGE AVE
 33-0000003B

COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUAMA
 01778

00000
 0

0 RIDGE AVE
 33-0000021A

VANSPEYBROECK ERIN H
 ZERO RIDGE AVE
 NATICK MA
 01760

1096
 00142
 19920622

6 LODGE LN
 33-0000022B

LESNIAK JEANNE M
 6 LODGE LANE
 NATICK MA
 01760

22038
 00448
 19920515

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
7 LODGE LN 33-0000023A	HUGHES CHARLES A JR C ARTHUR HUGHES 7 LODGE LANE NATICK MA 01760	LC1088 00008 19911105		
205 SPEEN ST 33-0000024A	HUGHES CHARLES A JR 205 SPEEN ST NATICK MA 01760	LC1206 00156 19990623		
19 CRESCENT ST 33-0000029A	MAYBE REALTY TRUST DUFF MAY B TRUSTEE 2206 Q STREET NW WASHINGTON DC 20008	1133 00131 19941012	LAKESHORE REALTY TRUST BRACKEN THEODORE L 2206 Q STREET NW WASHINGTON DC 20008	01291 0089 20040610
185 SPEEN ST 33-0000035A	NATICK INHAB OF THE TOWN PARKS & RECREATION 13 EAST CENTRAL ST NATICK MA 01760	10527 00196 19640514		

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

0 KANSAS ST END
 34-00000027
 UNITED STATES OF AMERICA
 NTK QM RES & DEV LABORATORY
 END KANSAS ST
 NATICK MA
 01760
 8072
 447
 19530513

0 KANSAS ST END
 34-00000027
 UNITED STATES OF AMERICA
 NTK QM RES & DEV LABORATORY
 END KANSAS ST
 NATICK MA
 01760
 8072
 447
 19530513

18 LAKEWOOD RD
 34-00000039
 CZEISLER CHARLES A
 18 LAKEWOOD RD
 NATICK MA
 01760
 LC1063
 00161
 19891117
 WICKHAM ROBERT C
 WICKHAM DIEDRE A
 18 LAKEWOOD RD
 NATICK MA 01760
 01286
 0193
 20043006

11 LAKEWOOD RD
 34-00000040
 OSGOOD A NEILL
 GRACE V OSGOOD
 11 LAKEWOOD RD
 NATICK MA
 01760
 LC919
 00097
 19790503

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

9 LAKEWOOD RD
 34-00000041
 RUGGIERO RICHARD A
 JANET P BAKER
 9 LAKEWOOD RD
 NATICK MA
 01760
 LC935
 00029
 19800620

7 LAKEWOOD RD
 34-00000042
 FITZGERALD IRENE M
 7 LAKEWOOD RD
 NATICK MA
 01760
 LC412
 00181
 19470526

5 LAKEWOOD RD
 34-00000043
 TINNEY JAMES E
 TINNEY LYNN D
 5 LAKEWOOD RD
 NATICK MA
 01760
 LC1173
 00100
 19970627

3 LAKEWOOD RD
 34-00000044
 GAROIAN GEORGE
 CATHERINE GAROIAN
 3 LAKEWOOD RD
 NATICK MA
 01760
 LC934
 00075
 19800528

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

16 LAKEWOOD RD
 34-0000038A
 BERKMAN MICHAEL W
 LC1034
 00073
 16 LAKEWOOD ROAD
 NATICK MA
 19870813
 01760

1 LAKE ST
 35-00000245
 MEARES LAURA
 39671
 MEARES MICHAEL
 00588
 1 LAKE ST
 NATICK MA
 20030624
 01760

5 LAKE ST
 35-00000246
 ROBERTS MARK J
 33317
 ROBERTS TERESA M
 00068
 5 LAKE ST
 NATICK MA
 20010725
 01760

9 LAKE ST
 35-00000248
 TIMMINS ANA V
 34635
 00233
 9 LAKE ST
 NATICK MA
 20020123
 01760

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

11 LAKE ST
 35-00000249
 MIX JEFFREY D
 MIX BEVERLY
 11 LAKE ST
 NATICK MA
 01760
 33628
 00391
 20010912

17 LAKE ST
 35-00000250
 HEBERT PAMELA A
 17 LAKE ST
 NATICK MA
 01760
 13041
 00401
 19760820

19 LAKE ST
 35-00000251
 DEMBROWSKI MICHAEL G
 JUDITH M DEMBROWSKI
 19 LAKE ST
 NATICK MA
 01760
 22870
 00647
 19930129

21 LAKE ST
 35-00000252
 PITTMAN MICHELLE E
 21 LAKE ST
 NATICK MA
 01760
 39026
 00167
 20030502

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

23 LAKE ST
 35-00000254
 CLOVER REALTY TRUST
 CLOVER MARIA G TRUSTEE
 23 1/2 LAKE ST
 NATICK MA
 01760
 16108
 00105
 19850417

0 LAKE ST
 35-00000311
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES
 PO BOX 123
 COCHITUATMA
 01778
 12668
 00390
 19740717

3 LAKE ST
 35-0000245A
 ROBERTS MARJORIE M
 3 LAKE ST
 NATICK MA
 01760
 30513
 00297
 19990805

0 LAKE ST R
 35-0000255A
 LAKE STREET REALTY TRUST
 CLOVER MARIA G TRS
 23 1/2 LAKE ST
 NATICK MA
 01760
 16108
 00116
 19850417

New Deed

Deed Owner

Deed Information

Owner of Record

Property Location

15 VALLEY RD
35-0000288C
CASSIDY DIANNE K
CASSIDY CHARLES
15 VALLEY RD
NATICK MA
01760
24606
00252
19940609

17 VALLEY RD
35-0000288D
SIABA MICHAEL E
DENISE M LINDQUIST
17 VALLEY ROAD
NATICK MA
01760
23349
00524
19930625

19 VALLEY RD
35-0000288E
DIGIANDOMENICO RICHARD D
DIGIANDOMENICO SUSAN S
19 VALLEY RD
NATICK MA
01760
242481
00304
19940207

7 LAKE ST
35-000247A+
OLEARY KEVIN E
P.O. BOX 2135
FRAMINGHAM
01703
36095
00327
20020809

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

149 SPEEN ST
 41-00000084
 COMMONWEALTH OF MASSACHUSETT
 ARMORY COMMRS CH 205 ACTS 33
 149 SPEEN ST 0
 NATICK MA
 01760

113 WEST CENTRAL ST
 41-0000092A
 NATICK POST 1274 VFW/USA 11501
 00239
 113 WEST CENTRAL ST 19680503
 NATICK MA
 01760

113 WEST CENTRAL ST
 42-00000034
 COMMONWEALTH OF MASSACHUSETT
 DEPT OF NATURAL RESOURCES 00000
 PO BOX 123 0
 COCHITUAMA
 01778

111 WEST CENTRAL ST
 42-00000035
 COMMONWEALTH OF MASSACHUSETT
 DEM 00000
 10 PARK PLAZA 0
 BOSTON MA
 02116

Property Location Owner of Record Deed Information Deed Owner New Deed

111 WEST CENTRAL ST
42-00000037
NATICK INHAB OF THE TOWN
11457
00566
13 EAST CENTRAL ST
19680119
NATICK MA
01760

111 WEST CENTRAL ST
42-0000045B
NATICK INHAB OF THE TOWN
12115
00294
13 EAST CENTRAL ST
19711123
NATICK MA
01760

0 HUNTER CT END
43-00000402
NATICK INHAB OF THE TOWN
12460
00348
13 EAST CENTRAL ST
19730621
NATICK MA
01760

21 VALLEY RD
43-00000488
SHIMONI YUVAL
33104
SHIMONI RACHEL
00057
21 VALLEY RD
20010622
NATICK MA
01760

Property Location

Owner of Record

Deed Information

Deed Owner

New Deed

26 BELLEVUE RD 43-0000444D	KUKLA PAMELA A	15193 00471		
	26 BELLEVUE RD NATICK MA 01760	19830830		

This report contains the certified list of owners on record with the Town of Natick. The Record Owner is the property owner on January 1st. The Deed Owner is the current owner of the property. The Deed Owner is updated throughout the year as records are received from the Middlesex South Registry of Deeds



Authorized Signature.



Town of Natick Abutters Report

6/29/2005

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
25 COMMONWEALTH RD 11-00000022	COMMONWEALTH OF MASSACHUSETT DEPT OF NATURAL RESOURCES PO BOX 123 COCHITUAMA 01778	00000 0		
0 MASS TURNPIKE 11-00000024	MASS TURNPIKE AUTHORITY 80 BOYLSTON ST BOSTON MA 02116	00000 0		
34 OFF COMMONWEALTH 11-00000031	COMMONWEALTH OF MASSACHUSETT DEPT OF NATURAL RESOURCES PO BOX 123 COCHITUAMA 01778	00000 0		
0 MASS TURNPIKE 11-00000032	MASS TURNPIKE AUTHORITY 80 BOYLSTON ST BOSTON MA 02116	00000 0		

Property Location Owner of Record Deed Information Deed Owner New Deed

0 MASS TURNPIKE
11-00000033
MASS TURNPIKE AUTHORITY
00000
80 BOYLSTON ST
0
BOSTON MA
02116

0 MASS TURNPIKE
11-00000034
MASS TURNPIKE AUTHORITY
00000
80 BOYLSTON ST
0
BOSTON MA
02116

73 OFF EVERGREEN RD
11-0000014B
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
00000
PO BOX 123
0
COCHITUAMA
01778

77 OFF EVERGREEN RD
11-0000014C
COMMONWEALTH OF MASSACHUSETT
DEPT OF NATURAL RESOURCES
00000
PO BOX 123
0
COCHITUAMA
01778

Property Location Owner of Record Deed Information Deed Owner New Deed

39 COMMONWEALTH RD MASS TURNPIKE AUTHORITY 00000
11-0000021A 80 BOYLSTON ST 0
 BOSTON MA
 02116

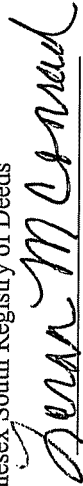
39 COMMONWEALTH RD COMMONWEALTH OF MASSACHUSETT 09168
11-0000021B DEPT OF NATURAL RESOURCES 00475
 PO BOX 123 19580424
 COCHITUA MA
 01778

0 (R) COMMONWEALTH MASS TURNPIKE AUTHORITY 00000
11-0000022A 80 BOYLSTON ST 0
 BOSTON MA
 02116

0 MASS TURNPIKE MASS TURNPIKE AUTHORITY 00000
11-0000023A 80 BOYLSTON ST 0
 BOSTON MA
 02116

Property Location	Owner of Record	Deed Information	Deed Owner	New Deed
45 OAK KNOLL RD 12-00000157	GAUDET LINCOLN J GAUDET DEANNE 45 OAK KNOLL RD NATICK MA 01760	36355 00479 20020910	HOWLAND KIMBERLY A DAILEY DONALD F JR 45 OAK KNOLL RD NATICK MA 01760	44027 00028 20041102
43 CYPRESS RD 12-0000084A	BAZINET ALMA H 43 CYPRESS RD NATICK MA 01760	10406 00221 19631120		
39 CYPRESS RD OFF 12-0000084C	COMMONWEALTH OF MASSACHUSETT DEPT OF NATURAL RESOURCES PO BOX 123 COCHITUA MA 01778	00000 0		
0 MASS TURNPIKE 12-0000086E	MASS TURNPIKE AUTHORITY 80 BOYLSTON ST BOSTON MA 02116	00000 0		

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 Authorized Signature.



Attachment A

Notice of Intent Narrative





1.0 INTRODUCTION

On behalf of the Department of Conservation and Recreation (DCR) Lakes and Ponds Program, ESS Group, Inc. (ESS) has prepared this Notice of Intent (NOI) for the use of herbicides to control nuisance aquatic vegetation in Lake Cochituate (see Figure 1 in Attachment B). After considering several options to control aquatic vegetation in Lake Cochituate, DCR has selected a 5-year vegetation management plan that utilizes a combination of herbicide application and various physical control methods. A copy of the Lake Cochituate Long Term Vegetation Management Plan is provided with this filing. This NOI is submitted for the use of herbicides in Lake Cochituate, while a separate NOI has been filed with the Natick Conservation Commission on this date for the physical removal of nuisance aquatic vegetation.

The use of herbicides is being proposed within the Natick portions of Lake Cochituate's Middle and South Ponds in order to control nuisance aquatic vegetation. The use of herbicides is not warranted within the Natick portions of Lake Cochituate's North Pond at this time; however, DCR is seeking approval to use herbicides in the future in the event that the physical removal methods (proposed under a separate NOI) prove ineffective against the spread of nuisance aquatic vegetation. Because exotic (non-native) aquatic weeds are present throughout Lake Cochituate within the Natick municipal boundary, it is important that DCR obtain this approval in order to implement a pro-active management plan that can respond quickly to the aggressive spread of these invasive species.

This NOI is submitted pursuant to M.G.L. c. 131 s. 40 (Massachusetts Wetlands Protection Act) and its implementing regulations (310 CMR 10.00), and the Town of Natick Wetlands Protection Bylaw and Regulations. Similar NOIs are also being filed concurrently with the Framingham and Wayland Conservation Commissions for work in those towns. This management plan is proposed as a Limited Project under 310 CMR 10.53(4) for resource area improvements.

2.0 SITE DESCRIPTION

Lake Cochituate is a 614-acre lake located in the towns of Framingham, Natick and Wayland (see Figure 1 in Attachment B). It is owned by the Commonwealth and managed by DCR. As shown in Figure 1, the lake is divided into three distinct basins – North Pond (western half is located in Framingham; eastern half is located in Wayland with a small portion in Natick), Middle Pond (Wayland and Natick) and South Pond (Natick). Water flows in a northerly direction from South Pond, through Middle Pond (including Carling Basin), to North Pond where it discharges out a dam on the western shoreline into Cochituate Brook, a tributary to the Sudbury River. Water depths reach a maximum of approximately 69 feet, with an average depth over the entire lake of 22 feet. Additional information on the lake's bathymetry, water quality, and other characteristics are provided in the Lake Cochituate Long Term Vegetation Management Plan (bound separately).



The lake is an important freshwater recreational resource for the Metrowest area and is used intensively for boating, swimming, and fishing. Surrounding land use includes Cochituate State Park, municipal open space and recreational lands, and densely-developed commercial and residential areas. In addition, the lake is bisected by several major roadways; the MassPike (I-90) and Cochituate Road (Route 30) separate the North and Middle Ponds, while Worcester Road (Route 9) divides the Middle and South Ponds. Several non-indigenous invasive plant species have recently become established and threaten to compromise the lake's native plant and animal communities.

2.1 Vegetation Management History

After documenting an infestation of non-native and invasive milfoil (primarily *Myriophyllum spicatum* and *M. heterophyllum*) in South Pond and Middle Pond in 2002, immediate steps were taken to prevent additional spread, including the installation of fragment barriers across the channels that connect the main basins to capture milfoil fragments and prevent them from spreading north from South Pond. The barriers also prevented boat travel between basins, further reducing the transport of milfoil within the lake. However, despite these measures, milfoil continued to spread to other parts of Middle Pond and into North Pond.

DCR then decided to implement a multi-treatment approach to the short-term management of aquatic plants. An NOI was filed in April 2003 with the Natick Conservation Commission for the chemical treatment of 50-60 acres, installation of bottom weed barriers, and use of diver hand pulling within portions of the lake in the town of Natick (DEP File No. 233-0547). An Order of Conditions was issued by the Natick Conservation Commission, but it was appealed due to opposition to the use of herbicides. Due to the lengthy appeal process and the need to undertake immediate measures to control the invasive plants, DCR filed a second NOI in July 2003 for the physical removal portions of the short-term management plan, including the use of bottom weed barriers, fragment barriers, and diver hand pulling (DEP File No. 233-0550). This Order of Conditions was issued and was not appealed, and the work commenced in August 2003.

DEP issued a Superseding Order of Conditions on the original NOI on March 9, 2004, allowing the application of herbicides and physical control measures to proceed. During the subsequent lengthy appeal process of that Order, detailed aquatic plant surveys continued to be performed by Aquatic Control Technology (ACT). Based on these surveys, ACT developed a Long Term Vegetation Management Plan for Lake Cochituate (ACT, 2004; bound separately). This management plan, with some minor modifications based on the results of plant surveys in 2005, is the focus of the two NOIs submitted on this date.

2.2 Aquatic Vegetation Surveys

2.2.1 2003 Survey

Two comprehensive vegetation survey efforts were performed at Lake Cochituate in 2003. The first survey was performed in June and focused on South Pond and portions of Middle Pond, while the second survey was performed in October on the remainder of Middle Pond and North Pond. The methods and results of these surveys are provided in the Lake Cochituate Long Term Vegetation Management Plan (bound separately).

South Pond (246-acres) supported the most extensive milfoil coverage (*M. spicatum* and *M. heterophyllum*), with varying (moderate to high) milfoil densities found in approximately 26% (64 acres) of this basin and the densest milfoil coverage occurring in Pegan Cove. Lower milfoil densities were found in the remainder of South Pond with somewhat denser patches found in the shallow cove areas along both shorelines. Milfoil coverage was less in the northern third of the basin where water depths were greater with the exception being for the northernmost shoreline near the junction with Carling Basin. Variable watermilfoil was encountered in the northwest corner, along the southern shoreline near Pegan Cove and in the small cove that lies just north of Pegan. Dominant aquatic plants identified in South Pond along the eastern and western shorelines included Robbins pondweed, clasping-leaf pondweed, slender naiad, bladderwort, elodea, and thin-leafed pondweed. In Pegan Cove, the dominant plants were Eurasian watermilfoil, bladderwort, curlyleaf pondweed, Robbins pondweed, and elodea. Along the northeast shoreline, the dominant species was slender naiad. Overall total plant cover in South Pond was moderate and estimated at 76 acres, representing approximately 31% of this basin.

The milfoil (*M. spicatum* and *M. heterophyllum*) coverage in Middle Pond (168-acres) during 2003 was found to be more extensive than originally estimated in 2002. Approximately 12% (20 acres) of Middle Pond (including Carling Basin) supported milfoil growth, with the densest patches located at the eastern edge of the public boat ramp, in the shallow cove east of the public boat ramp and in the northern cove divided by the Route 30 and the MassPike bridges. Variable watermilfoil was found in the small cove near the connection to Carling Basin. Dominant aquatic plants identified in Middle Pond in the littoral zone included Robbins pondweed, wild celery, slender naiad, and variable leaf pondweed. The shallow coves in the northwestern portion were dominated by Robbins pondweed, coontail, filamentous algae, and watermeal. Overall total plant cover in Middle Pond was generally common to abundant and estimated at 35 acres, representing approximately 21% of this basin.

No milfoil had been found in North Pond (198-acres) during surveys in 2002 and efforts were made, including the installation of fragment nets at the Mass Pike bridge, to prevent the spread of milfoil into this basin. Unfortunately, a limited distribution of milfoil plants was discovered at

the southern end of North Pond in 2003. Milfoil plants in North Pond were widely scattered; coverage was less than 10% and the total area where milfoil was found comprised less than 2 acres. Milfoil represented approximately 8% of the total plant cover found in North Pond in 2003. Dominant aquatic plants identified in North Pond included variable-leaf pondweed, robbins pondweed, slender naiad, submersed arrowhead and wild celery. Overall total plant cover in North Pond was scattered and estimated at 16 acres, representing approximately 8% of this basin.

2.2.2 2005 Survey

In June 2005, ESS and ACT identified and mapped aquatic vegetation throughout Lake Cochituate in order to assess changes in the aquatic plant community and spread of milfoil and other nuisance aquatic plants. For consistency, the transect and data point sampling methodology utilized in 2005 was consistent with that used in the 2003 survey (but was done by a different company) but a greater number of transects and survey points were added in 2005 to provide additional detail. Data point locations were surveyed with a Magellan SporTrak Map GPS receiver and are depicted on the Figures 2 through 10 (Attachment B).

In South Pond, aquatic plant coverage was concentrated in Pegan Cove and along the west and east shorelines and was estimated at 81 acres, representing approximately 33% of this 246-acre basin (Figure 4). Approximately 9% (7.5 acres) of this total plant coverage included curlyleaf pondweed (*Potamogeton crispus*), an invasive aquatic plant (Figure 7). Milfoil was concentrated along the northern and southern portions of the basin (see Figure 10). Coverage in these areas ranges widely from 0-75%. South Pond continued to support the most extensive milfoil coverage, with varying densities of milfoil (*M. spicatum* and *M. heterophyllum*) cover occurring in approximately 21% (50.5 acres) of this basin.

In Middle Pond, aquatic plant coverage was concentrated in the basin located between Route 30 and the Mass Pike, and the area immediately south of Mass Pike. Lesser amounts of aquatic plant coverage are located along the remaining portions of the shoreline; coverage was estimated at 35 acres, representing 21% of this 168-acre basin (Figure 3). Approximately 36% (12.6 acres) of this total plant coverage included curlyleaf pondweed (*Potamogeton crispus*), an invasive aquatic plant (Figure 6). Approximately 16% (26.7 acres) of Middle Pond (including Carling Basin) supported milfoil growth, with the densest patches (up to 75-100% coverage) on the northeast side of the Middle Pond and the area between the Route 30 and Mass Pike bridges (figure 9). This represents an increase from what was observed in 2003.

In North Pond, aquatic plant coverage was concentrated along the lake shoreline and was estimated at 21 acres, representing approximately 11% of this 198-acre basin (see Figure 2). Approximately 79% (16.5 acres) of this total plant coverage included curlyleaf pondweed

(*Potamogeton crispus*), an invasive aquatic plant (see Figure 5). Milfoil continued to be present within North Pond at relatively low densities. Milfoil plants were widely scattered, located in small patches near Route 30 and the eastern shoreline at densities less than 10% (see Figure 8). The total area where milfoil was found comprised less than 1 acre.

Please note that although milfoil coverage and densities observed in North Pond and South Pond in 2005 are less than those observed in 2003, there is no indication of a decline in milfoil populations; surveys in 2005 were performed early in the growing season (June) while observations in 2003 were made late in the growing season (October) when the plant community was at peak maturity. This conclusion is supported by subsequent visual observations made by ESS in July that revealed increases in the density and coverage of milfoil in several areas of the lake that had not yet "bloomed" in June.

2.3 Wetland Resource Areas

The Department of Environmental Protection's (DEP) *Guidance for Aquatic Plant Management in Lakes and Ponds as it Relates to the Wetlands Protection Act* (DEP, 2004) allows resource areas associated with treatment of expansive areas to be delineated using DEP Orthophoto Wetland Maps. Based on these maps, available from MassGIS (see Figure 11), Lake Cochituate is regulated under the Massachusetts Wetlands Protection Act as Land Under Waterbodies and Waterways (LUWW) and Bank, and under the Natick Wetlands Protection Bylaw as Lake, Bank, and Land Under Waterbodies and Waterways. These resource areas are defined as follows:

- **Land Under Waterbodies and Waterways (LUWW):** As defined by 310 CMR 10.56(2)(a)&(c), LUWW is "land beneath any creek, river, stream, pond or lake. Said land may be composed of organic muck or peat, fine sediments, rocks, or bedrock." The boundary of LUWW is defined as "the mean annual low water level."
- **Bank:** As defined by 310 CMR 10.54(2)(a)&(c), Bank is "...the portion of the land surface that normally abuts and confines a water body." This land surface "...may be partially or totally vegetated, or it may be comprised of exposed soil, gravel, or stone." The upper boundary of Bank is defined as "the first observable break in the slope or the mean annual flood level, whichever is lower."
- **Lake:** The Natick Wetlands Protection Bylaw defines a Lake as "an open body of fresh water with a surface area of ten (10) acres or more, and shall include great ponds."

Lake Cochituate is not surrounded by extensive Bordering Vegetated Wetlands (BVW). Based on a review of the DEP's Wetland Datalayer, adjacent wetlands are primarily limited to the Pegan cove

portion of South Pond (see Figure 11 in Attachment B). This adjacent BVW includes red maple swamp and emergent marsh components.

2.4 Fish and Wildlife

LUWW associated with Lake Cochituate is significant to fish and wildlife habitat. Based on field observations in June 2005 and on July 19, 2005, Lake Cochituate is likely to provide habitat for those water-dependent wildlife species that can tolerate developed areas, such as muskrat (*Ondatra zibethicus*), Canada goose (*Branta canadensis*), great blue heron (*Ardea herodias*), mute swan (*Cygnus olor*), mallard (*Anas platyrhynchos*), tree swallow (*Tachycineta bicolor*), bullfrog (*Rana catesbeiana*), green frog (*Rana clamitans*), red spotted newt (*Notophthalmus viridescens*), snapping turtle (*Chelydra serpentina*), and painted turtle (*Chrysemys picta*).

Fish species known to occur in the lake include large and small mouth bass (*Micropterus salmoides* and *M. dolomieu*), chain pickerel (*Esox niger*), bluegill (*Lepomis macrochirus*), yellow and white perch (*Perca falvescens* and *Morone americana*), and other common species. The Division of Fisheries and Wildlife has also routinely stocked the lake with rainbow and brown trout (*Salmo gairdneri* and *S. trutta*), along with occasional stocking of Atlantic salmon (*Salmo salar*) brood stock. Stockings of northern pike (*Esox lucius*) and tiger muskies (*Esox masquinongy* x *Esox lucius*) have also occurred in the past.

2.5 Rare Species

According to the 2003 edition of the Massachusetts Natural Heritage Atlas the Middle Pond of Lake Cochituate, in the towns of Natick and Wayland, is located within an Estimated Habitat of Rare Wildlife (WH 4066) and Priority Habitat of Rare Species (PH 735). A letter was submitted to the Natural Heritage and Endangered Species (NHESP) on June 20, 2005 requesting information on the occurrence of state-listed rare wildlife at the Site (see Attachment C). According to their response letter, NHESP is "not aware of any current rare plant or animal records in the vicinity of this site." However, they have historical records of both bridle shiner (*Notropis bifrenatus*) and the boreal turret snail (*Valvata sincera*); historical records are those that are more than 25 years old. Based on e-mail correspondence with NHESP (Attachment C), NHESP will not require surveys for the bridle shiner or the boreal turret snail because the records for these species are more than 25 years old. NHESP states that "For the purpose of regulatory review, we do not consider rare species observations that have not been observed within the past 25 years to be extant."

Because of concerns raised previously, DCR hired an invertebrate biologist to conduct surveys for the boreal turret snail, which was completed in October 2005. The boreal turret snail was not found during the sampling that was performed at 6 stations in the Lake and the conditions did not appear to provide optimum habitat. Please refer to Attachment D for the results of the survey. Copies of this



NOI and the Wayland NOI will be submitted to NHESP for their review pursuant to 310 CMR 10.59. Please refer to Attachment C for copies of correspondence with NHESP.

3.0 PROPOSED MANAGEMENT PLAN

The goal of the proposed vegetation management plan for Lake Cochituate is to control the spread of aquatic invasive plants, particularly Eurasian milfoil (*Myriophyllum spicatum*), variable milfoil (*M. heterophyllum*) and curlyleaf pondweed (*Potamogeton crispus*). Herbicides will likely be required in specific locations where aquatic weed growth is too dense and/or widespread for control by physical means to be effective (see Figure 13). Although other plant management measures are proposed within the lake at this time, including hand pulling, suction harvesting, milfoil weevils, and benthic barriers, this NOI focuses only on the potential use of herbicides within Lake Cochituate. A separate NOI has been filed with the Natick Conservation Commission on this date for the use of physical and biological methods within Natick, and similar NOIs have been or will soon be submitted in the towns of Wayland and Framingham for those measures proposed within their municipal boundaries.

A detailed discussion of the proposed management plan, including management objectives, methods, and a detailed alternatives analysis, is provided in the Lake Cochituate Long Term Vegetation Management Plan (ACT, 2004; bound separately). While the 2004 Long-Term Vegetation Management Plan for Lake Cochituate outlined specific management strategies for different areas of the lake, these recommendations are subject to change based on the continually-changing distribution and density of invasive plants. DCR therefore seeks approval of a flexible management plan that will enable DCR and qualified and experienced lake management professionals selected by DCR to effectively apply the management techniques best suited to control this "moving target." Decisions regarding management strategy techniques will follow a carefully established set of thresholds, outlined in Figure 13, which will maximize aquatic plant control while seeking to reduce the use of chemical treatments.

Because vegetation management is often ongoing, DCR requests that the Commission approve a 5-year Vegetation Management Plan through the issuance of a 5-year Order of Conditions (Order). Pursuant to the regulations at 310 CMR 10.05(6)(d), "the issuing authority may issue an Order for up to 5 years where special circumstances warrant and where those special circumstances are set forth in the Order." Special circumstances are warranted in this instance since controlling invasive species requires a long-term management approach that includes initial treatment followed by annual monitoring and potentially follow-on maintenance actions. It should be noted that the 2005 survey of the plant community documented curlyleaf pondweed to be present in all three basins of Lake Cochituate. Given that curlyleaf pondweed is an exotic and invasive species, it does pose a threat to the ecological health of the lake, especially if coverage of this species increases. Currently, DCR employs benthic barriers and hand pulling of curlyleaf pondweed at the town beach and boat ramp areas. If coverage of curlyleaf pondweed is observed to be expanding, additional management actions designed to target this species will be considered during the periodic update of the proposed management plan. DCR proposes to provide



specific written notice to the Conservation Commission at least 30 days prior to initiating any management actions, and will comply with the operating guidelines provided in the *Generic Environmental Impact Report, Eutrophication and Aquatic Plant Management in Massachusetts* (GEIR) and the accompanying *The Practical Guide to Lake Management in Massachusetts*. We also propose to regularly update the Commission regarding the status of the invasive species in the lake and control actions to date.

The following sections outline the anticipated use of herbicides in each basin under the proposed 5-year Vegetation Management Plan. Work in the town of Natick will occur in all three basins – North, Middle (including Carling Basin), and South Ponds

3.1 North Pond

North Pond is located in all three towns. The southernmost section of North Pond is located within Natick (1.5 acres). Although no direct application of herbicides is proposed within North Pond at this time, DCR is seeking approval to use herbicides in the future in the event that physical methods (proposed under the separate NOI) prove ineffective against the spread of milfoil and/or curlyleaf pondweed in North Pond. Because milfoil spreads rapidly by fragmentation and is already present at low densities on the eastern shore of North Pond and in high densities in Middle and South ponds, which are immediately upgradient of North Pond, it is important that DCR obtain this approval for the future use of herbicides now to effectively implement a pro-active management plan that will allow them to respond quickly to the aggressive spread of these invasive species. Annual vegetation monitoring (described in Section 5.3 below) will allow DCR to continually assess the success of the management efforts and determine whether modifications to the plan, including more aggressive mechanical techniques or the use of herbicides, are required in North Pond.

The relatively low densities and distribution of milfoil in North Pond at this time do not warrant the use of herbicides in this basin in Year 1. However, future herbicide use in North Pond may include liquid Sonar AS (fluridone) to provide basin-wide treatment, or pellet Sonar Q and PR formulations, Renovate (Triclopyr), Aquathol K (endothall) and/or Reward (diquat) for spot treatments of specific areas of infestation. Herbicides will be applied based on the results of annual monitoring and established thresholds for use (see Figure 13). If herbicides are deemed necessary for North Pond based on the established thresholds (Figure 13), a written plan of treatment will be developed and provided to the Commission for its review and approval prior to the application of any herbicides. This approach will allow DCR to be timely in responding to an identified spread of invasive plants in the lake and will ultimately reduce the need for herbicides.

Details on the proposed methods of herbicide application are provided in Section 3.4 below. The Lake Cochituate Long Term Vegetation Management Plan (bound separately) provides additional details on the proposed herbicides, including their mechanism of action, target species, dosage



recommendations, effectiveness/limitations, post-application water-use restrictions, and degradation. Additional information regarding appropriate operational factors is provided in the GEIR and Practical Guide. Details on the herbicide Renovate are provided in Attachment E and Appendix III of the GEIR. All herbicides to be used have been approved by Environmental Protection Agency (EPA) and the Massachusetts Department of Agricultural Resources (DAR) Pesticides Board and DEP Office of Research and Standards.

3.2 Middle Pond

The following herbicide treatments may be utilized within Middle Pond, located in the towns of Wayland and Natick:

Year 1

- Sonar Q/PR (pellets) herbicide treatment or Renovate herbicide treatment of approximately 15 acres, between the boat ramp and the connection to North Pond at the Route 30 overpass.
- Sonar Q/PR (pellets) herbicide treatment or Renovate herbicide treatment of approximately 2.5 acres along the southern shoreline and in the small cove leading to Carling Basin.
- Reward and/or Aquathol K herbicide treatment of approximately 2.5 acres around the State Park beach and swim areas.

Years 2 to 5

- The goal is to use the non-chemical techniques after the first year; however, if needed, we plan to use the Year 1 approach in subsequent years.

3.3 South Pond

The following herbicide treatments may be utilized within South Pond, located in the town of Natick:

Year 1

- Whole-pond treatment with liquid Sonar AS
- Treatment with pellet formulations of Sonar Q/PR near inlet areas or adjacent to wetland areas that border the lake

Years 2 to 5

- The goal is to use the non-chemical techniques after the first year; however, if needed, we plan to use Sonar AS, Reward, and/or Renovate (as appropriate) for management of aquatic weed infestations that cannot feasibly be handled by non-chemical techniques

3.4 Herbicide Application Methodology and Schedule

If herbicide treatment is required in North Pond, the Applicant will obtain a site-specific License to Apply Chemicals from DEP's Office of Watershed Management prior to treatment. A site-specific License to Apply Chemicals from DEP's Office of Watershed Management will be obtained for the herbicide treatment being proposed for Middle and South Pond. All applications will be performed under the direct supervision of an Aquatic Applicator that is commercially certified and licensed in Massachusetts by DAR. All herbicides will be applied in accordance with the manufacturer's instructions and restrictions and in conformance with the operational guidelines in the GEIR and Practical Guide.

For maximum effectiveness, herbicides will be applied in late spring/early summer, ideally around mid-May. The following methods/dosages will be used for each herbicide proposed:

- **Reward (diquat):** Applied as a spot treatment for specific areas of dense milfoil growth (especially variable watermilfoil) at a concentration of 1.0-1.5 gallons/acre.
- **Aquathol K (endothall):** Applied as a spot treatment for specific areas (i.e.: the DCR beach/swim area on Middle Pond) with a mixed assemblage of milfoil, pondweed and other plant species, at a concentration of 2-3 ppm.
- **Sonar AS (fluridone):** Applied in liquid form for basin-wide treatment of milfoil at a target dose of 8-10 ppb. One initial treatment, followed by 1 to 3 booster applications is typically required to achieve the desired 45 to 90 day contact time. Extending the contact time out to approximately 90 days has been shown to provide for longer lasting control of milfoil. The time of the booster applications would be guided by analyses of treated waters for residual Sonar content. Booster applications would be performed when the Sonar concentrations drop to approximately 5 ppb. To control flushing in the lake or at target areas, impermeable barriers/curtains may be installed around some treatment areas to contain Sonar (fluridone) to maximize exposure time.
- **Sonar Q and PR (fluridone):** Applied in pellet form, Sonar may be advantageous near inlet areas or adjacent to wetland areas that border the lake, since the liquid Sonar is sometimes pushed out of these areas from inflowing surface or ground water. Dose rates for the Sonar pellets are typically in the range of 20 to 50 ppb per application, with roughly 20% of the Sonar applied showing up in the water column at any given time. The cumulative annual dose of Sonar pellets applied to any given treatment area, would not exceed 150 ppb. To control flushing in the lake or at target areas, impermeable barriers/curtains may be installed around treatment areas to contain Sonar (fluridone) to maximize exposure time.



- **Renovate (Triclopyr):** Renovate is used for smaller spot treatments of Eurasian watermilfoil in shoreline areas and coves. It is applied at a dosage rate of 1.5 to 2.5 ppm. Renovate was registered for aquatic use in Massachusetts in 2004.

4.0 POTENTIAL IMPACTS OF MANAGEMENT PLAN

This section summarizes potential impacts of the proposed herbicide applications on the physical and biotic characteristics of Lake Cochituate. Data and conclusions on potential impacts of each herbicide on the physical and biotic characteristics of this lake are based largely on information provided in the *Generic Environmental Impact Report for Eutrophication and Aquatic Plant Management in Massachusetts* (Mattson, et al., 2004) and the accompanying *The Practical Guide to Aquatic Lake Management in Massachusetts* (Wagner, 2004).

4.1 Potential Impacts to Physical Characteristics and Water Quality

No direct impacts to the physical characteristics of Lake Cochituate are anticipated as part of this project. Unlike dredging and some other physical means, herbicides do not directly alter lake bathymetry, increase turbidity, or result in the suspension of metals or other pollutants from the sediment into the water column.

Indirect impacts to water quality typically result only from rapid death of susceptible plants, which may increase nutrient levels, cause oxygen depletion from decomposition, and/or increase turbidity and dissolved or suspended solids from the decay of vegetation. Sonar has a slow rate of plant die-off and has been found to not affect water quality (including pH, BOD, color, dissolved solids, hardness, nitrate nitrogen, total phosphorous and turbidity) in contained field experiments and in the experience of trained applicators. Reward and Aquathol K may result in a relatively fast rate of plant die-off but their use is limited to less than 10% of the lake surface and therefore is not anticipated to have a significant effect on oxygen, nutrient, or turbidity levels in the lake. Significantly lowered oxygen levels are not likely to be seen following treatment with Renovate, given its slower mode of action as compared to either Reward or Aquathol K and its limited impacts on most native plants. No major water quality effects are expected at the recommended dosages.

4.2 Potential Direct Impacts to Biota

4.2.1 Aquatic Invertebrates

Potential direct impacts to aquatic invertebrates from herbicide application vary depending on the type of herbicide utilized and the application rate.

Some invertebrates have been found to be sensitive to Reward (diquat) herbicide treatments in controlled laboratory experiments. Reward has been found to be toxic to daphnia at 1 ppm, well above the proposed maximum application concentration (0.37 ppm or less) and amphipods are sensitive to Reward with a mean LC50 of 0.048 ppm, which is below the proposed application rate; however, these laboratory indications of invertebrate toxicity have not been clearly documented in the field (Mattson et al., 2004). Reward sorbs to the sediments and becomes biologically unavailable very quickly; as a result, it has limited drift or impact outside the target area. Because the target area of application is limited to a maximum of 30 acres (less than 5% of the lake) during Year 1 and 50 acres (approximately 8% of the lake) during Years 2 to 5, no significant direct or indirect impacts to invertebrate populations are anticipated.

Potential impacts of Aquathol K on aquatic invertebrates are not well documented. Although effects of this chemical on laboratory animals has been extensively studied, there are few studies that examine long-term impacts to aquatic organisms. A report by from the former manufacturer (Elf Atochem) of Aquathol K does provide a number of different literature citations which indicates that toxicity to invertebrates and fish are to be very low at the proposed application rate (Elf Atochem, 1992). However, the overall conclusion based on field implementation has been that toxicity to invertebrates is not expected to be a problem at the recommended dose and application method (Wagner, 2004).

Sonar is considered to have low toxicity to invertebrates and was found to have no impact on non-target organisms at concentrations of 0.1 to 1.0 ppm in contained field experiments (Mattson et al., 2004). The proposed application rate of 8-10 ppb is far below this level and is therefore anticipated to have no direct impact on aquatic invertebrates.

The active ingredient in Renovate is the TEA formulation of triclopyr, which has low toxicity to aquatic insects.

4.2.2 Fish and Wildlife

The proposed herbicides are anticipated to have no significant direct impact on fish or wildlife at Lake Cochituate. Acute toxicity of Reward is highly variable depending on species, age, and hardness of water. However, concentrations of Reward to be applied at Lake Cochituate are below the known lethal and sublethal dosages to fish and wildlife species. Aquathol K is not known to be a problem to fish and other wildlife at the proposed dose (Mattson et al., 2004). The LC50 of Aquathol K for a sensitive species (smallmouth bass) was determined to be 47 ppm, while other studies report LC50 values as high as 450 or 740 ppm (Mattson et al., 2004), well above the proposed dose of 2-3 ppm. Finally, Sonar is considered to have a low toxicity to fish and other aquatic wildlife. The LC50 for sensitive fish species is 7.6 ppm, which is about 500 times higher than the typical doses used today (Mattson et al., 2004). The LC50 of the TEA

formulation of triclopyr, the active ingredient in Renovate, is between 101 and 120 ppm for fathead minnows and 275 for Atlantic salmon, well above the proposed dosage rate of 1.5 to 2.5 ppm.

4.2.3 Non-Target Vegetation

Each of the proposed herbicides has varying specificity to different aquatic plant species. The aquatic plant communities in North Pond consist of both invasive and native plants, including Eurasian milfoil, curlyleaf pondweed, Robbins pondweed (*Potamogeton robbinsii*), slender naiad (*Najas flexilis*), wild celery (*Vallisneria americana*), elodea (*Elodea Canadensis* and *E. nuttallii*), watermeal (*Wolffia columbiana*), arrowhead (*Sagittaria* spp.), pickerel weed (*Pontederia cordata*), big-leaf pondweed (*Potamogeton amplifolius*), richardarson's pondweed (*P. richardsonii*), muskgrass (*Chara* spp.), filamentous green algae, and stonewort (*Nitella* spp.).

The aquatic plant communities in Middle Pond consist of both invasive and native plants, including Eurasian milfoil, curlyleaf pondweed, Robbin's pondweed (*Potamogeton robbinsii*), slender naiad (*Najas flexilis*), wild celery (*Vallisneria americana*), elodea (*Elodea canadensis* and *E. nuttallii*), watermeal (*Wolffia columbiana*), arrowhead (*Sagittaria* spp.), variable-leaf pondweed (*Potamogeton gramineus*), richardarsons pondweed (*P. richardsonii*), coontail (*Ceratophyllum demersum*), duckweed (*Lemna minor*), white water lily (*Nymphaea odorata*), yellow water lily (*Nuphar variegatum*), badderwort (*Utricularia vulgaris*), filamentous green algae, and stonewort (*Nitella* spp.).

The aquatic plant communities in South Pond consist of both invasive and native plants, including Eurasian milfoil, variable milfoil, curlyleaf pondweed, Robbin's pondweed (*Potamogeton robbinsii*), slender naiad (*Najas flexilis*), wild celery (*Vallisneria americana*), elodea (*Elodea canadensis*), watermeal (*Wolffia columbiana*), arrowhead (*Sagittaria* spp.), big-leaf pondweed (*Potamogeton amplifolius*), clasping-leaf pondweed (*P. perfoliatus*), Richardarson's pondweed (*P. richardsonii*), coontail (*Ceratophyllum demersum*), white water lily (*Nymphaea odorata*), badderwort (*Utricularia vulgaris*), muskgrass (*Chara* spp.), filamentous green algae, and stonewort (*Nitella* spp.).

Reward can be either broad spectrum or somewhat species selective depending upon dose, timing of application, and relative susceptibility of the different plants in the lake. Aquathol K attacks a wide range of vascular plants at points of contact. It has been found to be effective on most species of pondweeds, naiads, and coontail, but may be less successful on Eurasian milfoil. Loss of non-target aquatic vegetation is anticipated in those areas where Reward and Aquathol K are proposed. However, these herbicides will be applied as spot treatments to control specific areas with dense growth of milfoil and/or curlyleaf pondweed. Because the location of herbicide

application is selective, impacts to native plants are anticipated to be minimal. Areas dominated by native plant assemblages will not be treated.

Sonar is a selective herbicide, but its selectivity depends on the timing and rate of application. Application rates recommended for control of non-native species, such as Eurasian milfoil and curly pondweed range from 7 ppb to 15 ppb, with little impact on surrounding vegetation (Mattson et al., 2004). Early treatment with Sonar effectively controls overwintering perennials before some of the beneficial species of pondweed and naiad begin to grow. Because Eurasian milfoil begins growing earlier in the season than many native plants, it is susceptible to an early season treatment while native species are still dormant (Mattson et al., 2004). Because Sonar applications are proposed at low concentrations (8-10 ppb) in mid-May to mid-June, selectivity to Eurasian milfoil is anticipated to be high, with little impact on non-target vegetation.

Renovate is highly selective and effective against Eurasian watermilfoil and other dicotyledonous plants at a dose of 1 to 2.5 mg/L. Experimental treatments of aquatic environments have revealed little or no effect on most native monocotyledons, including naiads and pondweeds. Therefore, little to no impact is anticipated from Renovate applications on native aquatic plant communities in North, Middle or South Pond.

4.3 Potential Indirect Impacts to Biota

Although significant direct impacts to the biota of Lake Cochituate are not expected from the proposed herbicide treatments, loss of vegetation may have some indirect impacts on aquatic biota. Aquatic vegetation provides cover for a variety of organisms, including aquatic invertebrates, fish, turtles, and amphibians. It provides a food source for beaver (*Castor canadensis*), muskrat (*Ondatra zibethicus*), and several species of duck (Martin et al., 1951). And finally, aquatic vegetation may provide spawning sites for fish, such as pickerel.

The potential herbicide treatments will temporarily alter the aquatic plant community in portions of the lake and may therefore result in temporary, minor impacts to fish and wildlife habitat. Although the abundance of this food source, cover, and spawning habitat will be reduced by the application of herbicides within the limited treatment areas, the overall long-term benefits of controlling invasive milfoil populations are expected to exceed these potential short-term costs. Milfoil and curlyleaf pondweed can out-compete native vegetation, resulting in a loss of biodiversity in a lake. By working to promote the establishment of native vegetation communities, the lake will be capable of supporting a wider diversity of native aquatic life. The DEP Guidance Document recognizes that removal of non-native species can be a benefit to wildlife.

4.4 Impacts Specific to the Wetlands Protection Act

Based on information provided within the *Practical Guide to Lake Management in Massachusetts* (Wagner, 2004), the potential use of herbicides in North Pond, and the use of herbicides in Middle and South Pond are expected to have the following effects on the interests of the Wetlands Protection Act:

- **Protection of public and private water supply** – Neutral at proposed dosages
- **Protection of ground water supply** – Neutral (no significant interaction)
- **Storm damage prevention** – Neutral (no significant interaction)
- **Prevention of pollution** – Generally neutral but could be detriment if plant die-off causes low oxygen at lake bottom. This result is not anticipated due to the limited areas where Reward, Renovate and Aquathol K will be used, and the slow rate of plant die-off that occurs from Sonar. See Section 4.1 for additional information.
- **Protection of land containing shellfish** – Generally neutral but reduced algae from Reward and Aquathol K applications may temporarily reduce food resources for shellfish. A temporary reduction of algae is anticipated only within limited treatment areas dominated by invasive aquatic plants, and the benefits anticipated from habitat enhancement are expected to meet or exceed the potential costs from a temporary, localized reduction in food resources. Direct toxicity is not anticipated at proposed dosages.
- **Protection of fisheries** – Possible long-term benefit from habitat enhancement and possible short-term detriment from food source alteration and loss of cover. Benefits are anticipated to exceed costs as non-native invasive plant cover is reduced, allowing the re-establishment of native vegetation communities that will improve the diversity of food sources and cover for fisheries.
- **Protection of wildlife habitat** – Same as above

Overall, the use of herbicides in Middle and South Pond and the potential future application of herbicides within the North Pond of Lake Cochituate is anticipated to have localized, temporary impacts from the loss of vegetation and the potential reduction in oxygen levels from plant die-off. However, these short-term costs are greatly outweighed by the long-term benefit of a vegetation management plan that will reduce the abundance of invasive aquatic plants and promote the diversity and cover provided by native vegetation communities.



5.0 MITIGATION MEASURES

The proposed management plan will remove nuisance aquatic vegetation within the resource area LUWW through the select use of herbicides, as described herein, and the use of other physical means, as proposed under a separate NOI. Mitigation measures for the proposed herbicide use will include the proper selection and use of herbicides, the implementation of temporary water use restrictions, and the implementation of a comprehensive monitoring program.

5.1 Herbicide Selection and Use

The herbicides to be utilized in Middle and South Ponds will be state and federally-registered herbicides. Furthermore, should herbicide use be recommended during future years in North Pond, only state and federally-registered herbicides would be utilized as well. Registered herbicides must meet strict federal guidelines and demonstrate that there is not an "unreasonable risk" to humans and the environment when applied in accordance with their product label. Aquatic herbicides and algaecides are also subject to periodic re-registration with the EPA, where the latest technology and scientific studies are used to evaluate the potential impacts of these products. Most of the commonly used products have recently completed EPA's more stringent re-registration process.

A site-specific License to Apply Chemicals will be obtained from DEP's Office of Watershed Management for the use of herbicides in Middle and South Ponds and, if herbicide use is required in North Pond, a site-specific License to Apply Chemicals will be obtained as well. Furthermore, all the applications will be performed under the direct supervision of an Aquatic Applicator that is commercially certified and licensed in Massachusetts by DAR and will be applied in accordance with the manufacturer's instructions and restrictions.

To control flushing within target areas, impermeable barriers/curtains may be installed around treatment areas to contain Sonar (fluridone) to maximize exposure time.

5.2 Temporary Water Use Restrictions

Although no adverse effects to human health are anticipated at the proposed dosages, temporary water use restrictions at Lake Cochituate will be implemented during and following the application of each herbicide in accordance with EPA and Massachusetts regulations. The public will be notified of these restrictions by the placement of a public notice in the local newspapers, as well as posting of the lake shoreline, typically, public access points (i.e. beaches, boat ramps, etc., are posted well (every 50-100 ft.) and the rest of the lake shoreline posted roughly every 200 feet. The following temporary water use restrictions are proposed:



Reward

- No direct use of lake water for drinking or cooking for three days
- No direct use of lake water for irrigation of turf or food crops for five days
- No direct use of lake water for livestock watering for one day
- Treated portions of the lake will be closed to swimming on the day of treatment

Aquathol K

- No consumption of fish from treated areas for food or feed for three days
- No direct use of treated lake water for irrigation or domestic purposes for 14 days
- Treated portions of the lake will be closed to swimming on the day of treatment

Sonar

- No direct use of lake water for irrigation until the concentration drops below 5 ppb
- Treated portions of the lake will be closed to swimming on the day of treatment

Renovate

- No direct use of treated waters for irrigation or drinking until the concentration of Renovate drops to a "non-detect" level as determined by immunoassay (approximately 7 to 30 days)
- Treated portions of the lake will be closed to swimming on the day of treatment

5.3 Monitoring Plan

5.3.1 Vegetation Monitoring Program

In order to pro-actively manage the changing distribution and abundance of nuisance aquatic vegetation in Lake Cochituate, annual vegetation monitoring will be undertaken during implementation of this management plan. Pre-treatment monitoring was performed in 2003 and 2005, as described in Section 2.2 above. Upon approval and implementation of this management plan, subsequent vegetation surveys will be conducted annually in June or July to assess the effectiveness of the management efforts to date. For consistency, vegetation monitoring will follow the transect and data point sampling methodology used in 2005 and 2003, as described in the Lake Cochituate Long Term Vegetation Management Plan (bound separately). Annual reports will be submitted to the Natick Conservation Commission detailing the results of the vegetation monitoring survey and providing recommendations for the subsequent year's management efforts for the Commission's approval.



5.3.2 Water Quality Monitoring Program

North Pond

Although not necessary at this time, if Sonar is utilized in North Pond, its levels will be monitored by a licensed applicator to ensure that appropriate concentrations are achieved and maintained basin-wide for a sufficient duration (typically 45 to 90 days). After the appropriate contact time, concentrations will continue to be monitored until levels reach 5 ppb or less. This will enable DCR to notify the public when irrigation restrictions have been lifted.

Although not necessary at this time, if Renovate is utilized within North Pond, its levels will be monitored by a licensed applicator to ensure that appropriate dose and exposure are achieved. Renovate levels will continue to be monitored until concentrations reach a "non-detect" level, as determined by immunoassay. This is anticipated within 7 to 30 days of the initial treatment.

Middle and South Pond

When Sonar is utilized in Middle and South Pond, its levels will be monitored by a licensed applicator to ensure that appropriate concentrations are achieved and maintained basin-wide for a sufficient duration (typically 45 to 90 days). After the appropriate contact time, concentrations will continue to be monitored until levels reach 5 ppb or less. This will enable DCR to notify the public when irrigation restrictions have been lifted.

When Renovate is utilized within Middle and South Pond, its levels will be monitored by a licensed applicator to ensure that appropriate dose and exposure are achieved. Renovate levels will continue to be monitored until concentrations reach a "non-detect" level, as determined by immunoassay. This is anticipated within 7 to 30 days of the initial treatment.

6.0 REGULATORY COMPLIANCE

The proposed management plan has been designed to comply with the Massachusetts Wetlands Protection Act and its implementing regulations, policies, and guidelines, as well as the Natick Wetlands Bylaw and Regulations. In addition, the management plan will comply with the performance guidelines outlined in the Generic Environmental Impact Report (GEIR) and with DEP's Guidance for Aquatic Plant Management in Lakes and Pond. The following sections describe compliance with these regulations.

6.1 Limited Project

This vegetation management plan is proposed under the limited project provisions of 310 CMR 10.53(4), which allow the issuing authority to issue an Order of Conditions for projects that will improve the natural capacity of the resource area to protect the interests identified in the Wetlands Protection Act. According to the regulations, "such projects include, but are not limited to, the



removal of aquatic nuisance vegetation to retard pond and lake eutrophication and the thinning or planting of vegetation to improve habitat value." This project will improve the natural capacity of the resource area to protect the interests of the Wetlands Protection Act, as described in Section 4.4, by controlling non-native vegetation and promoting the establishment of a native vegetation community.

6.2 Land Under Waterbodies and Waterways

The proposed herbicide treatments to be utilized in Middle and South Pond, and potentially in North Pond, will meet the performance standards for LUWW [310 CMR 10.56(4)] to the extent practicable, as outlined below:

(a) Any proposed work within Land Under Waterbodies and Waterways shall not impair the following:

- 1. The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;*

This standard has been met. No fill is proposed within the lake. The proposed herbicide treatments will remove vegetation without changing the topography of the lake bottom and therefore will not alter the water carrying capacity of Lake Cochituate.

- 2. Ground and surface water quality;*

This standard has been met. The herbicides selected have no significant effect on ground or surface water quality at the proposed dosages.

Reward and Aquathol K result in fast die-off of aquatic plants and therefore have the potential to reduce dissolved oxygen levels as a result of plant decomposition. However, these herbicides would be used on less than 10% of the lake's surface. Furthermore, water in Lake Cochituate flows north at a mean annual flow rate of 22 cfs (ACT, 2004). Any reduction in dissolved oxygen would be limited to small treatment areas where Reward or Aquathol K are proposed, and the flow of water through the lake system will replenish the dissolved oxygen supply in these areas.

Portions of Lake Cochituate are located within Zone II of a public water supply well. All herbicides proposed are approved for use within Zone II areas.

- 3. The capacity of said land to provide breeding habitat, escape cover and food for fisheries;*

This standard has been met. The potential herbicide treatments will temporarily alter the aquatic plant community in portions of the lake and may therefore result in temporary, minor impacts to fisheries habitat. Although the abundance of this food source, cover, and spawning habitat will be reduced by the application of herbicides within the limited treatment areas, the overall long-term benefits of controlling invasive milfoil populations are expected

to exceed these potential short-term costs. Milfoil and curlyleaf pondweed can out-compete native vegetation, resulting in a loss of biodiversity in a lake. By working to promote the establishment of native vegetation communities, the lake will be capable of supporting a wider diversity of native aquatic life.

4. *The capacity of said land to provide important wildlife habitat functions.*

This standard has been met. The potential herbicide treatments will temporarily alter the aquatic plant community in portions of the lake and may therefore result in temporary, minor impacts to wildlife habitat. Although the abundance of this food and cover will be reduced by the application of herbicides within the limited treatment areas, the overall long-term benefits of controlling invasive milfoil populations are expected to exceed these potential short-term costs. Milfoil and curlyleaf pondweed can out-compete native vegetation, resulting in a loss of biodiversity in a lake. DEP presumes that "non-indigenous aquatic plants within lakes and ponds are not significant to the protection of wildlife habitat, either in whole or as a component of a larger plant community" (DEP, 2004). By working to promote the establishment of native vegetation communities, the lake will be capable of supporting a wider diversity of native aquatic life.

(b) Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131 s. 40 to maintain or improve boat channels within Land Under Water Bodies and Waterways when said work is designed and carried out using the best practical measures so as to minimize adverse effects such as the suspension or transport of pollutants by organisms or the destruction of fisheries habitat or nutrient source areas.

This standard is not applicable. The proposed work does not include the maintenance or improvement of boat channels.

(c) Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

This standard has been met. Middle Pond contains a mapped estimated habitat of rare vertebrate or invertebrate species (see Figure 12). As previously discussed under Section 2.5, NHESP is "not aware of any current rare plant or animal records in the vicinity of this site." However, during the previous appeal process, DCR agreed to hire an invertebrate biologist to conduct surveys for the boreal turreted snail, which was completed this summer. The boreal turreted snail was not found during the sampling that was performed at multiple stations in the Lake. Please refer to Attachment D for the results of the survey.

6.3 Performance Guidelines for Herbicide Application

The *Practical Guide to Lake Management in Massachusetts* (Wagner, 2004) establishes performance guidelines for the use of herbicides to control nuisance aquatic vegetation. This section demonstrates compliance with these guidelines.

- (1) Map plant community and note density and distribution of target and non-target species; presence of protected species may prevent treatment.*

This standard has been met. Vegetation surveys have been conducted by ACT in 2003 and ESS and ACT in 2005. Maps of the plant community densities and distributions are provided as Figures 2 through 10 in Attachment B. Please refer to Section 2.2 of this report for the methods and results of this study. Based on correspondence with NHESP, no state-listed rare plants are known to occur within Lake Cochituate.

- (2) Application must be performed by licensed applicators.*

This standard will be met. Herbicides to be utilized in Middle and South Ponds will be applied by a licensed applicator. Should herbicides be utilized in North Pond, they will be applied by a licensed applicator. Name and contact information for this applicator can be provided to the Commission prior to the implementation of any herbicide treatments.

- (3) Apply in accordance with label instructions and restrictions; justify dose, location, and timing of treatment.*

All herbicides will be applied in accordance with the label instructions and restrictions. The Lake Cochituate Long Term Vegetation Management Plan (bound separately) provides an alternatives analysis that justifies the location, dosage, and timing of each herbicide.

- (4) Where a large portion of the lake is treated, apply diquat and endothall in strips or zones to provide faunal refuges.*

This standard is not applicable. Reward (diquat) and Aquathol K (endothall) will be applied only as a spot treatment to control small areas of dense infestation by milfoil and/or curlyleaf pondweed.

- (5) Monitor water quality before and after treatment, with emphasis on oxygen and nutrient levels, if more than 10% of lake is treated with diquat and/or endothall.*

This standard is not applicable. The use of diquat and endothall will be limited to less than 10% of the lake's surface.

- (6) Where fluridone is proposed, control flushing in lake or target areas to maximize exposure time.*

This standard has been met. Impermeable barriers/curtains may be installed around treatment areas, if necessary, to contain Sonar (fluridone) and maximize exposure time. In order to minimize the need to use barriers, the timing for fluridone applications will be made after the normal high spring flows have subsided. Fluridone pellets will be used, (where appropriate) to help contain the movement and dilution of fluridone. Temporary, water impermeable barriers may be deployed in selected treatment areas, to further contain fluridone. These site specific decisions will be made by DCR and their lake management consultants.



- (7) *Track fluridone levels and add more herbicide as necessary to achieve the needed combination of dose and exposure.*

Concentrations of Sonar (fluridone) will be monitored, as described in Section 5.3.2, to ensure that appropriate concentrations are achieved and maintained basin-wide for a sufficient duration (typically 45 to 90 days). One initial treatment and 1 to 3 booster applications are typically required to achieve the desired contact time.

- (8) *Track triclopyr levels to ensure that needed combination of dose and exposure is achieved.*

Renovate (triclopyr) levels will be monitored, as described in Section 5.3.2 above, to ensure that appropriate dose and exposure are achieved.

- (9) *Monitor plant community features before and after treatment.*

Pre-treatment densities of target plants were assessed by ESS and Act in June 2005. Post-treatment densities will be monitored annually in accordance with the proposed vegetation monitoring program (see Section 5.3.1).

7.0 REFERENCES

- Aquatic Control Technologies, 2004. Lake Cochituate Long Term Vegetation Management Plan.
- Degraaf, R.M. and M. Yamasaki, 2001. New England Wildlife. University Press of New England: Hanover.
- Department of Environmental Protection, 2004. Guidance for Aquatic Plant Management in Lakes and Ponds as it Relates to the Wetlands Protection Act.
- Elf Atochem, 1992. Review of the Effects of Endothall Products on Aquatic Ecosystems. ADV-3786-10M TR 4-92
- Martin, A.C., H.S. Zim, and A.L. Nelson, 1958. American Wildlife and Plants. Dover Publications, Inc.: New York.
- Mattson et al., 2004. Final Generic Environmental Impact Report (GEIR) on Eutrophication and Aquatic Plant Management in Massachusetts.
- Wagner, 2004. The Practical Guide to Lake Management in Massachusetts.



Attachment B

Figures





Attachment C

Rare Species Correspondence





MassWildlife

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

July 21, 2005

Thomas Liddy
ESS Group, Inc.
888 Worcester Street, Suite 240
Wellesley, MA 02482

Re: Lake Cochituate Data Request
Framingham, Natick, and Wayland, MA
NHESP Tracking Number: 05-18215

Dear Mr. Liddy,

Thank you for contacting the Natural Heritage and Endangered Species Program ("NHESP") of the MA Division of Fisheries & Wildlife for information regarding state-protected rare species in the vicinity of the above referenced site. We have reviewed the site and would like to offer the following comments.

At this time we are not aware of any current rare plant or animal records in the vicinity of this site. The NHESP has historical records of both Bridle Shiner (*Notropis bifrenatus*) and Boreal Turret Snail (*Valvata sincera*) located within Lake Cochituate. The NHESP considers records last observed 25 years ago or more to be "historic" for the purpose of state-listed species regulatory review.

The NHESP understands that surveys for the Boreal Turret Snail may be performed in Lake Cochituate this summer. If the species is found, this project's plans **must** be reviewed by the NHESP for compliance with the state-listed rare species protection provisions of MESA (321 CMR 10.00) and/or the WPA (310 CMR 10.00). If the project site is within Estimated Habitat for Rare Wildlife and a Notice of Intent (NOI) is required, then a copy of the NOI must be submitted to the NHESP in a timely manner, so that it is received at the same time as the local conservation commission. If the proposed project is located within a Priority Habitat, then project plans, a fee, and other required filing materials must be sent to NHESP Environmental Review to determine whether a probable "take" under the MA Endangered Species Act would occur (321 CMR 10.18). For a MESA filing checklist and additional information about the MESA review process, please see our website: www.nhesp.org under the "Regulatory Review" tab.

This evaluation is based on the most recent information available in the NHESP database, which is constantly being expanded and updated through ongoing research and inventory. Should your site plans change, or new rare species information become available, this evaluation may be reconsidered. If you have any questions regarding this review please call Joanne Theriault, Environmental Review Assistant, at ext. 310.

Sincerely,

Thomas W. French, Ph.D.
Assistant Director

www.masswildlife.org

Division of Fisheries and Wildlife

Field Headquarters, One Rabbit Hill Road, Westborough, MA 01581 (508) 792-7270 Fax (508) 792-7275

An Agency of the Department of Fisheries, Wildlife & Environmental Law Enforcement



Attachment D

Boreal Turret Snail Survey



Douglas Grant Smith
 30 Montague Road
 Sunderland, MA 01375
 25 October 2005

Mike Gildesgame
 Office Water Resources
 Massachusetts DCR
 251 Causeway Street
 Boston, MA 02114

Dear Mike,

The following report provides the results of a survey of Lake Cochituate, with the assistance of the Massachusetts DCR (10/20/05), for the presence or absence of Valvata sincera, the boreal turret snail, in the lake. Sampling was at 6 stations throughout the lake and was concentrated in areas characterized by above neutral pH values and the presence of water milfoil, Myriophyllum sp., a rooted aquatic plant, upon which the snail grazes for microbials. Studies have shown that V. sincera is limited by pH, its preferred range is 7-9, and is intolerant of even slightly acidic water. The table below shows the distribution of snail species encountered in the lake. The station key is on page 2.

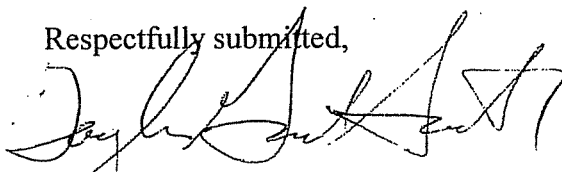
Gastropoda (snails)	1	2	3	4	5	6
Prosobranchia (operculate snails)						
Viviparidae						
<u>Bellamya chinensis</u>	(not sampled but observed near shore)					
Hydrobiidae						
<u>Amnicola limosa</u>	0	+	+	+	+	+
Pulmonata (air breathing snails)						
Physidae						
<u>Physa</u> sp.	0	-	-	+	0	-
Planorbidae						
<u>Helisoma anceps</u>	0	0	-	0	0	-
<u>Helisoma campanulata</u>	0	0	-	0	0	0
<u>Gyraulus</u> sp. (? <u>hirsutus</u>)	0	-	-	+	+	+
Pelecypoda (clams)						
Sphaeriidae						
<u>Musculium partumeium</u>	0	0	-	+	0	0
<u>Pisidium</u> sp.	0	0	-	+	0	0

Key: 0 = absent, - = present but rare, + = common

Stations: 1, Boat launch, pH = 5.5-6.0, 4 feet; 2, Beach, pH = 7.1-7.4, 4-5 feet; 3, Middle Pond-Snake Brook, *river*, pH = 7.2, 2-4 feet; 4, Middle Pond-Snake Brook *Cove*, pH = 7.2-7.3, 3-4 feet; 5, North Pond-pump house, pH = 7.4, 2-3 feet; 6, North Pond-dam, pH = 7.5, 5 feet.

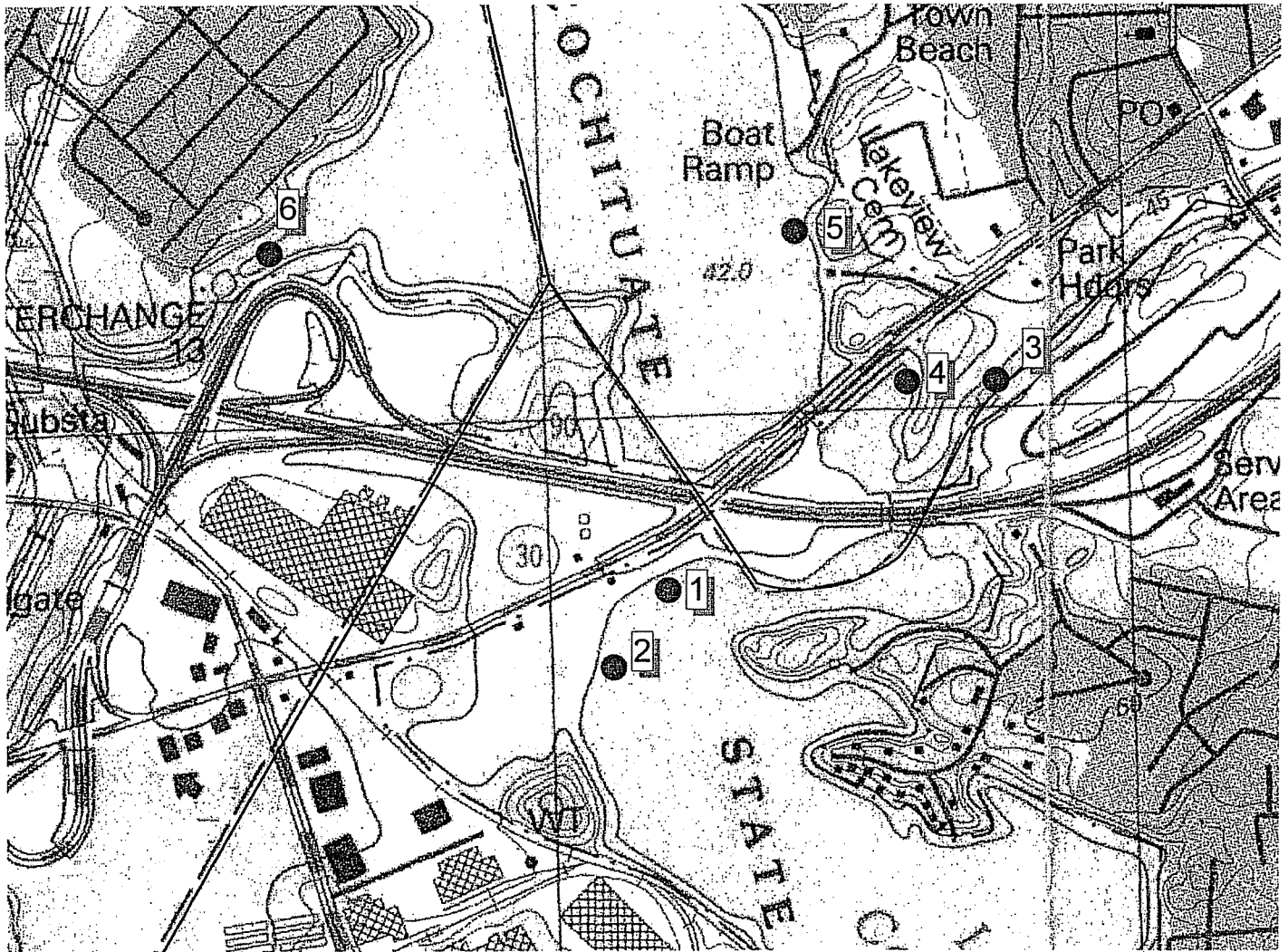
As can be seen, Valvata sincera was not detected. The species is a member of the Valvatidae, a family of operculate snails characterized by a planospiral shell with a round aperture and a distinct multispiral operculum. All members of the Valvatidae are calciphiles and tend to occur in marl lakes, limited to Berkshire Co. in Massachusetts. Ph values in Lake Cochituate are barely adequate to support populations of this species.

Respectfully submitted,

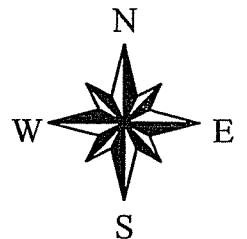


Douglas Grant Smith

Lake Cochituate State Park Boreal turret snail survey October 20, 2005



● Sample Sites



Map Prepared by DCR
Lakes & Ponds



Attachment E

Herbicide Information



Renovate* Aquatic Herbicide

What is Renovate?

Renovate (active ingredient *triclopyr*) is a systemic aquatic herbicide used to selectively manage emerged and submersed aquatic weeds in freshwater ponds, lakes, reservoirs, non-irrigation canals, marshes and wetlands. While controlling unwanted invasive species, such as Eurasian watermilfoil, Renovate treatment programs allow many native monocots (grasses) and less susceptible dicots (broadleaves) to thrive following treatment.

Renovate aquatic herbicide can be used to control a number of aquatic weeds; emerged plants (purple loosestrife), floating plants (creeping water primrose) and submerged species (Eurasian watermilfoil). When targeting invasive emerged and floating weeds, a surface application is made to directly target the plants leaf surface. If Eurasian water milfoil is the target species, the target concentration of Renovate would be injected below the surface of the water to allow for proper exposure and uptake by the target plants. Please refer to label recommendations for proper rate and application method for your target aquatic weed.

What Does Renovate do?

Renovate (triclopyr) is taken up by a plants stems and leaves, translocated down into the roots of susceptible plants eventually disrupting the metabolism of the plant. The required concentration & exposure time of Renovate needed to effectively kill plants varies by target species. In order to control a submerged species such as Eurasian watermilfoil, a Renovate concentration of 0.75- 2.5 ppm applied via subsurface injection into the targeted control area. With a short exposure period (12-24 hrs) and utilization of precise application techniques, Renovate can be effectively used in partial lake applications to selectively manage coves, bays and shoreline areas infested with Eurasian watermilfoil.

What are the water use and human exposure precautions associated with Renovate?

According to the USEPA risk assessments and specimen label, there are no fishing or swimming or livestock consumption restrictions associated with the application of Renovate. Acute and chronic toxicity studies on aquatic organisms and mammals indicate a low order of toxicity. Renovate is not a mutagen, teratogen or carcinogen and poses no unreasonable risk to humans when used according to the specimen label directions and precautions.

Renovate can be applied near potable water intakes, if the applications occur outside of the setback distance listed on the specimen label or if water intakes inside the setback distance remain inactive until the triclopyr concentrations drop below 0.4 ppm. *Note: Existing potable water intakes which are no longer in use, such as those replaced by potable water wells or connection to a municipal water system, are not considered to be functioning potable water intakes.*

Renovate is an herbicide and precautions outlined on the specimen label should be taken if using treated water for irrigation of sensitive terrestrial plants and turf. Renovate does rapidly degrade in aquatic environments, especially in partial lake or spot treatments programs. A laboratory immunoassay technique is available to monitor triclopyr concentrations in treated waters to assist in following water use precautions per the specimen label.

* Renovate is a registered trademark of Dow AgroSciences LLC manufactured for SePRO Corporation.

Health Questions and Answers

On use of triclopyr to treat Eurasian watermilfoil

What is triclopyr?

Triclopyr (*pronounced tri-clo-peer*) is an herbicide that can control infestations of *Eurasian watermilfoil* and other invasive water plants. *E. watermilfoil* is more sensitive to triclopyr than many native pond weed species including coontail, rushes and cattails. Triclopyr can therefore be used at low concentrations to remove *E. watermilfoil* without killing many native plants. One triclopyr product is currently marketed for aquatic weeds under two names: Garlon 3A and Renovate 3. Both products contain mostly triclopyr and water. Other ingredients include ethanol, 3% triethylamine, and 2.3% ethylenediaminetetraacetic acid (EDTA). The whole product, including these other ingredients, is diluted more than 100,000-fold during an application for *E. watermilfoil*.

How toxic is triclopyr?

Only dilute amounts of triclopyr are needed to kill *E. watermilfoil*. These dilute concentrations have not been shown to cause skin irritation or other health effects. Triclopyr is not well absorbed through skin. If ingested, research has shown that low doses of triclopyr are rapidly excreted in humans and are unlikely to accumulate in human tissue or cause adverse effects. Concentrated triclopyr products are corrosive and can cause skin irritation and irreversible eye damage. Pesticide applicators must take care to protect their eyes and skin during the application.

In natural waters, the initial breakdown products of triclopyr are TCP and TMP.¹ Tests in laboratory animals on both these metabolites have shown that their toxicity to mammals is less than or equal to triclopyr. These metabolites are relatively short-lived in the environment. Complete breakdown of triclopyr results in carbon dioxide, oxamic acid, and other low molecular weight carboxylic acids.

Triclopyr is not considered by the EPA to be a cause of cancer, birth defects, or genetic mutations. Nor is it considered likely to cause systemic, reproductive, or developmental effects in mammals at or near concentrations encountered during normal human use.

¹ TCP is 3,5,6-trichloro-2-pyridinol. TMP is 3,5,6-trichloro-2-methoxypyridine

Washington State Department of Health considers it prudent public health advice to minimize exposure to pesticides regardless of their known toxicity.

How long will the herbicide last in the lake water?

In natural water, sunlight and microorganisms rapidly degrade triclopyr.

Triclopyr concentrations decline sharply over the first several days after treatment. Residues should be more than 95% degraded and dissipated from treated water in 1-2 weeks following treatment with triclopyr.

If Capitol Lake is treated with triclopyr, will I be exposed to this herbicide?

Residues of triclopyr and its metabolites should not be detectable in lake water more than a couple weeks past the application. Capitol Lake is not commonly used for swimming or other water play. If you do wade or swim in the lake, touch pets that have been in the lake, or eat fish from treated water shortly after the treatment, you may be exposed to dilute concentrations of triclopyr and its metabolites.

There is little chance of inhalation exposure to bystanders. This is because liquid triclopyr herbicide is injected directly into the water column. The application method eliminates opportunity for drift of sprays onto bystanders or nearby residents during the application. Triclopyr has a low vapor pressure and is quite water-soluble so it will not volatilize from treated water and drift through air following the application.

Is it safe to swim or play in the water following the herbicide application?

There are no swimming restrictions on the Garlon 3A or Renovate 3 labels following applications of triclopyr to water. This means that the federal Environmental Protection Agency (EPA) considers the treated water safe for swimming.

Washington State Department of Ecology recently contracted for an independent scientific assessment of triclopyr safety including this question of a swimmer's exposure. The worst-case scenario considered a 6 year-old who swims for 3 hours and inadvertently swallows 150 ml of water from the treated water immediately following an milfoil application with triclopyr. The estimated amount the child would absorb in this scenario was still more than 100 times less than the daily dose animals were fed over their lifetime with no observable adverse effects.

Washington State Department of Health (DOH) has reviewed the data and agrees that skin contact with treated water at the dilute treatment concentration is unlikely to result in any adverse health effect in people. Triclopyr products are concentrated when initially injected into water during an application so, as a precaution, DOH advises people to avoid contact with water in

treated areas for twelve hours following an application to allow the herbicide concentrate to disperse and reach the dilute treatment concentration.

Are fish from the treated area safe to eat?

One breakdown product of triclopyr, called TMP, can temporarily accumulate in fish and shellfish immediately following a triclopyr application. The EPA did not consider the concentration of this metabolite to be of health concern and requires no fishing restrictions.

Washington State Department of Ecology recently contracted for an independent scientific assessment of triclopyr safety including this question of eating fish from treated waters. Scenarios for children and adults consuming fish every day from treated water resulted in estimated exposures that were more than 1000 times less than the daily doses animals were fed over their lifetime with no observable adverse effects.

Has Triclopyr been tested for special sensitivity to children?

The EPA is required to assess each pesticide for its potential to cause toxicity specifically to infants and young children. This is because children's bodies are still developing and they may be more susceptible to the action of a toxicant. EPA conducted this assessment using animal tests and concluded "Reliable pre-and post-natal data indicate no special sensitivity of young animals to triclopyr residues."

FOR MORE INFORMATION CONTACT:

Washington State Department of Health
Office of Environmental Health and Safety - Pesticide Program
(360) 236-3360

National Pesticide Information Center
1-800-858-7378

This hotline provides pesticide information to the public and health care providers. Funding comes from state university cooperative extension and from the Environmental Protection Agency.

Risk Assessments of triclopyr that are available online:

<http://www.epa.gov/oppsrrd1/REDs/factsheets/2710fact.pdf> (fact sheet on triclopyr by EPA)
<http://www.epa.gov/oppsrrd1/REDs/2710red.pdf> (detail risk assessment of triclopyr by EPA)
<http://www.ecy.wa.gov/pubs/0410018.pdf> (Environmental Impact Statement for use of triclopyr on aquatic weeds, prepared by WA Dept of Ecology)