

## NOTICE OF INTENT PACKAGE

Prepared for  
ExxonMobil  
Acton, MA  
44 Great Road

WPA Form – Notice of Intent Application – Pages 1-8  
Wetland Fee Transmittal Form – Pages 1 & 2  
Notification to Abutters  
List of Abutters  
Affidavit of Service

EXHIBIT A- Locus Map

EXHIBIT B- Narrative

EXHIBIT C- Flood Plain Map

EXHIBIT D- USGS Topographic Map

EXHIBIT E- Letter of Findings (Natural Resource Services, Inc.)

EXHIBIT F- As-Built Plan

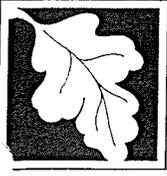
EXHIBIT G- Tank & Piping Replacement Plan

EXHIBIT H- Site Soil Erosion & Sediment Control Plan

EXHIBIT I- Checklist for Stormwater Report/Stormwater Management Form

Prepared by  
Ayoub Engineering, Inc.  
414 Benefit Street  
Pawtucket, Rhode Island 02861  
August 20, 2008

**AEI Project No. 3667.107**



# WPA Form 3 – Notice of Intent

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

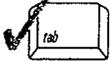
MassDEP File Number

Document Transaction Number

Acton

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 to locate project site):

|                              |                       |                         |
|------------------------------|-----------------------|-------------------------|
| <u>44 Great Road</u>         | <u>Acton</u>          | <u>01720</u>            |
| a. Street Address            | b. City/Town          | c. Zip Code             |
| Latitude and Longitude:      |                       |                         |
| <u>G5</u>                    | <u>42.48 (42°28')</u> | <u>-71.41 (-71°24')</u> |
| f. Assessors Map/Plat Number | d. Latitude           | e. Longitude            |
|                              | <u>76</u>             |                         |
|                              | g. Parcel /Lot Number |                         |

2. Applicant:

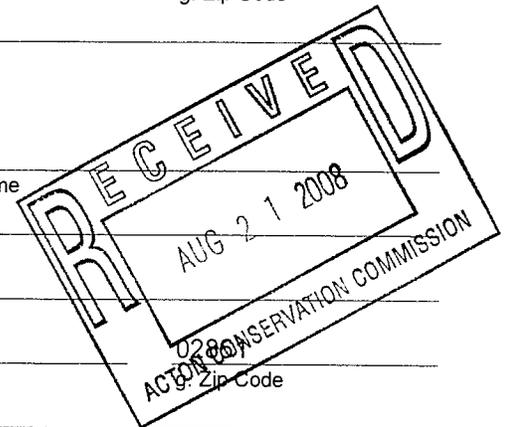
|  |                     |                  |
|--|---------------------|------------------|
| <u>Mobil Oil Corporation/Gilbarco Incorporated</u> |                     |                  |
| a. First Name                                      | b. Last Name        |                  |
| <u>c/o Ayoub Engineering, Inc.</u>                 |                     |                  |
| c. Organization                                    |                     |                  |
| <u>414 Benefit Street</u>                          |                     |                  |
| d. Street Address                                  |                     |                  |
| <u>Pawtucket</u>                                   | <u>RI</u>           | <u>02861</u>     |
| e. City/Town                                       | f. State            | g. Zip Code      |
| <u>401-728-5533</u>                                | <u>401-724-1110</u> |                  |
| h. Phone Number                                    | i. Fax Number       | j. Email Address |

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

|  |               |                  |
|--|---------------|------------------|
| <u>Mobil Oil Corporation/Gilbarco Incorporated</u> |               |                  |
| a. First Name                                      | b. Last Name  |                  |
| <u>Mobil Oil Corporation/Gilbarco Incorporated</u> |               |                  |
| c. Organization                                    |               |                  |
| <u>P.O. Box 22087, 7300 West Friendly Avenue</u>   |               |                  |
| d. Street Address                                  |               |                  |
| <u>Greensboro</u>                                  | <u>NC</u>     | <u>27420</u>     |
| e. City/Town                                       | f. State      | g. Zip Code      |
|  |               |                  |
| h. Phone Number                                    | i. Fax Number | j. Email address |

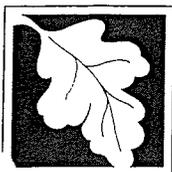
4. Representative (if any):

|                                |                     |                  |
|--------------------------------|---------------------|------------------|
| <u>Ayoub Engineering, Inc.</u> |                     |                  |
| a. First Name                  | b. Last Name        |                  |
| c. Company                     |                     |                  |
| <u>414 Benefit Street</u>      |                     |                  |
| d. Street Address              |                     |                  |
| <u>Pawtucket</u>               | <u>RI</u>           | <u>02861</u>     |
| e. City/Town                   | f. State            | g. Zip Code      |
| <u>401-728-5533</u>            | <u>401-724-1110</u> |                  |
| h. Phone Number                | i. Fax Number       | j. Email address |



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

|                   |                   |                       |
|-------------------|-------------------|-----------------------|
| <u>\$1550.00</u>  | <u>\$762.50</u>   | <u>\$787.50</u>       |
| a. Total Fee Paid | b. State Fee Paid | c. City/Town Fee Paid |



# WPA Form 3 – Notice of Intent

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## A. General Information (continued)

6. General Project Description:

See attached narrative.

7a. Project Type Checklist:

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Single Family Home                | 2. <input type="checkbox"/> Residential Subdivision                   |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input checked="" type="checkbox"/> Commercial/Industrial          |
| 5. <input type="checkbox"/> Dock/Pier                         | 6. <input type="checkbox"/> Utilities                                 |
| 7. <input type="checkbox"/> Coastal Engineering Structure     | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation                    | 10. <input type="checkbox"/> Other                                    |

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

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

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Middlesex

a. County

15208

c. Book

b. Certificate # (if registered land)

486

d. Page Number

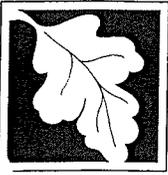
## B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal 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.

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

| 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 type="checkbox"/> Land Under Waterbodies and Waterways | 1. linear feet<br>3. cubic yards dredged | 2. linear feet                |



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource Area, Size of Proposed Alteration, Proposed Replacement (if any)
d. [ ] Bordering Land Subject to Flooding
e. [ ] Isolated Land Subject to Flooding
f. [X] Riverfront Area
Nashoba Brook
1. Name of Waterway (if available)

2. Width of Riverfront Area (check one):

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

3. Total area of Riverfront Area on the site of the proposed project: 18,000 s.f. square feet

4. Proposed alteration of the Riverfront Area:

5060 s.f. 0 s.f. 5060 s.f.
a. total square feet b. square feet within 100 ft. c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? [ ] Yes [X] No

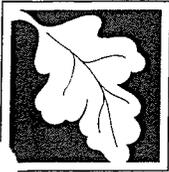
6. Was the lot where the activity is proposed created prior to August 1, 1996? [X] Yes [ ] No

3. [ ] Coastal Resource Areas: (See 310 CMR 10.25-10.35)

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. [ ] Designated Port Areas
b. [ ] Land Under the Ocean
c. [ ] Barrier Beach
d. [ ] Coastal Beaches
e. [ ] Coastal Dunes



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## B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

|   | <u>Size of Proposed Alteration</u>  | <u>Proposed Replacement (if any)</u>         |
|---|---|--|
| 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., 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 _____  |  |
| 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 _____  |  |
| 4. <input type="checkbox"/> Restoration/Enhancement               | If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here. |  |

\_\_\_\_\_ a. square feet of BVW

\_\_\_\_\_ b. square feet of Salt Marsh

## C. Other Applicable Standards and Requirements

### Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

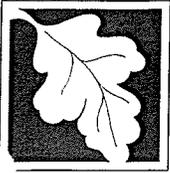
1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to <http://www.mass.gov/dfwele/dfw/nhESP/nhregmap.htm>.

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

b. Date of map \_\_\_\_\_

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.1.d, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*



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|                             |
|-----------------------------|
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## C. Other Applicable Standards and Requirements (cont'd)

1. c. Submit Supplemental Information for Endangered Species Review \*

1.  Percentage/acreage of property to be altered:
  - (a) within wetland Resource Area \_\_\_\_\_ percentage/acreage
  - (b) outside Resource Area \_\_\_\_\_ percentage/acreage
2.  Assessor's Map or right-of-way plan of site
3.  Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\*
  - (a)  Project description (including description of impacts outside of wetland resource area & buffer zone)
  - (b)  Photographs representative of the site
  - (c)  MESA filing fee (fee information available at: <http://www.mass.gov/dfwele/dfw/nhesp/nhenvmesa.htm>)  
Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address  
*Projects altering 10 or more acres of land, also submit:*
  - (d)  Vegetation cover type map of site
  - (e)  Project plans showing Priority & Estimated Habitat boundaries

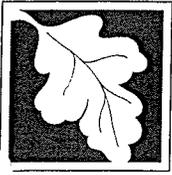
d. OR Check One of the Following

1.  Project is exempt from MESA review.  
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <http://www.mass.gov/dfwele/dfw/nhesp/nhenvexemptions.htm>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
2.  Separate MESA review ongoing.
 

|                          |                            |
|--------------------------|----------------------------|
| a. NHESP Tracking Number | b. Date submitted to NHESP |
|--------------------------|----------------------------|
3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see [www.nhosp.org](http://www.nhosp.org) regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

\*\* MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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## C. Other Applicable Standards and Requirements (cont'd)

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.  Not applicable – project is in inland resource area only

b.  Yes  No If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

North Shore - Hull to New Hampshire:

Division of Marine Fisheries - Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
838 South Rodney French Blvd.  
New Bedford, MA 02744

Division of Marine Fisheries - North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

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 MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a.  Yes  No

5. 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

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1.  Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)

2.  A portion of the site constitutes redevelopment

3.  Proprietary BMPs are included in the Stormwater Management System.

b.  No. Check why the project is exempt:

1.  Single-family house

2.  Emergency road repair

3.  Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

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



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## D. 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.  Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
4.  List the titles and dates for all plans and other materials submitted with this NOI.

See attached plans.

a. Plan Title

b. Prepared By

c. Signed and Stamped by

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

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 Report, if needed.

## E. Fees

1.  Fee Exempt: 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:

1762

2. Municipal Check Number

8/20/08

3. Check date

1760

4. State Check Number

8/20/08

5. Check date

Ayoub Engineering, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



**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 MassDEP:

MassDEP File Number

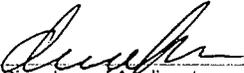
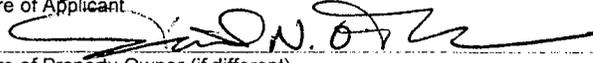
Document Transaction Number

Acton  
City/Town

**F. 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 by Certificate of Mailing or 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.

|  |  |                 |
|--|--|-----------------|
|   | Alan J. Micale, P.E.<br>Ayoub Engineering, Inc.<br>Agent for Mobil Oil Corp. |                 |
| 1. Signature of Applicant  |  | 2. Date 8-20-08 |
|  |  |                 |
| 3. Signature of Property Owner (if different)                                      |  | 4. Date 8-13-08 |
| 5. Signature of Representative (if any)  |  | 6. Date         |

**For Conservation Commission:**

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

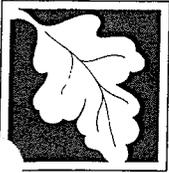
**For MassDEP:**

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

**Other:**

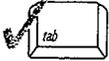
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



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:

Mobil Oil Corporation/Gilbarco Corporation

a. First Name

b. Last Name

c/o Ayoub Engineering, Inc.

c. Organization

414 Benefit Street

d. Mailing Address

Pawtucket

RI

02861

e. City/Town

f. State

g. Zip Code

401-728-5533

401-724-1110

h. Phone Number

i. Fax Number

j. Email Address

2. Property Owner (if different):

Mobil Oil Corporation/Gilbarco Corporation

a. First Name

b. Last Name

Mobil Oil Corporation/Gilbarco Corporation

c. Organization

P.O. 22087, 7300 West Friendly Avenue

d. Mailing Address

Greensboro

NC

27420

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

3. Project Location:

44 Great Road

a. Street Address

Acton

b. City/Town

**B. Fees**

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.

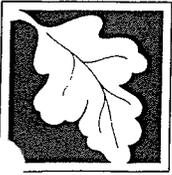
**Step 2/Number of Activities:** Identify the number of each type of activity.

**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.



Massachusetts Department of Environmental Protection  
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**B. Fees** (continued)

| Step 1/Type of Activity                                       | Step 2/Number of Activities | Step 3/Individual Activity Fee | Step 4/Subtotal Activity Fee |
|---|-----------------------------|--------------------------------|------------------------------|
| Category 2 j. any other activity not in Category 1,3,4,5 or 6 | 1                           | \$500                          | \$500                        |
| Category 3 d. Hazardous Clean-up                              | 1                           | \$1050                         | \$1050                       |
|   |                             |                                |                              |
|   |                             |                                |                              |
|   |                             |                                |                              |
|   |                             |                                |                              |
|   |                             |                                |                              |

**Step 5/Total Project Fee:** \$1550.00

**Step 6/Fee Payments:**

|                                 |           |
|---------------------------------|-----------|
| Total Project Fee:              | \$1550.00 |
| State share of filing Fee:      | \$762.50  |
| City/Town share of filling Fee: | \$787.50  |

a. Total Fee from Step 5  
 b. 1/2 Total Fee less \$12.50  
 c. 1/2 Total Fee plus \$12.50

**C. Submittal Requirements**

- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

**To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

**NOTIFICATION TO ABUTTERS  
UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT  
AND THE TOWN OF ACTON WETLANDS BYLAW**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and the Town of Acton Bylaws, you are hereby notified of the following:

The Applicant: Mobil Oil Corp./Gilbarco Corp.  
c/o Ayoub Engineering, Inc.

Address 414 Benefit Street Phone 401-728-5533  
Pawtucket, RI

has filed a Notice of Intent with the Acton Conservation Commission seeking permission to remove, fill, dredge or alter an Area Subject to Protection under the Wetlands Protection Act.

Applicant's Representative: Ayoub Engineering, Inc.  
Address 414 Benefit Street Phone 401-728-5533  
Pawtucket, RI 02861

The address of the property where the activity is proposed 44 Great Road

Town Atlas Plate/Map G5 Parcel/Lot 76

Project Description Remove existing underground storage tanks associated piping  
install new double wall fiberglass tanks and associated piping components.

Project will also require site work due to construction. Minor building/fascia  
modifications, part of image upgrade.

Copies of the Notice of Intent may be examined at the Conservation Office, Acton Town Hall, 472 Main Street, Acton between the hours of 9:00 A.M. and 4:30 P.M. Monday through Friday. For more information please call the Conservation Office at 978-264-9631.

A Public Hearing will be held at the Acton Town Hall, 472 Main Street, on Wednesday,  
September 3, 2008 at 8:00 P.M.  
(date)

The notice of the public hearing will be published at least five (5) days in advance in the Acton edition of the *Beacon* newspaper or *Metrowest Daily News*.

NOTE: You may also contact your local conservation commission or the nearest Department of Environmental Protection Regional Office\* for the information about this application or, the Wetlands Protection Act. Acton is in the Central Region. To contact DEP, call:

**\*DEP Central Region: 508-792-7650  
627 Main Street, Worcester MA 01608**



Town of Acton  
472 Main Street  
Acton, MA 01720  
Telephone (978) 264-9622  
Fax (978) 264-9630

Brian McMullen  
Assistant Assessor

Locus: 44 GREAT RD  
Parcel ID: G5-76

| Location        | Parcel ID | Owner                   | Co-Owner                       | Mailing Address         | City      | ST |
|-----------------|-----------|-------------------------|--------------------------------|-------------------------|-----------|----|
| 3 WETHERBEE ST  | G5-69     | CAVELIER LEO S ET AL    | TRSTEE OF WETHERBEE RD RLTY TR | PO BOX 2135             | ACTON     | MA |
| 32 GREAT RD     | G5-70     | ABCO VISUAL INC         |                                | 54 GREAT RD             | ACTON     | MA |
| 1-5 IRIS CT     | G5-72     | IRIS COURT ASSOC LLC    | C/O CAPITAL PROPERTIES         | 115 BROADWAY 3RD FLOOR  | NEW YORK  | NY |
| 35 GREAT RD     | G5-77     | SIMS DONNA M            |                                | 35 GREAT RD             | ACTON     | MA |
| 38 GREAT RD     | G5-79     | LUNG CHIK YAN           | LUNG NGA CHEE                  | 178 LAKE SHORE RD APT 4 | BRIGHTON  | MA |
| 18 GREAT RD     | G5-76-111 | ACTON HOUSING AUTHORITY |                                | PO BOX 681              | ACTON     | MA |
| 18 GREAT RD     | G5-76-112 | ACTON HOUSING AUTHORITY |                                | PO BOX 681              | ACTON     | MA |
| 18 GREAT RD #13 | G5-76-113 | DEMORE EDWARD L         | C & R PROPERTIES TRUST         | 57 CHESTNUT STREET      | BOSTON    | MA |
| 18 GREAT RD #14 | G5-76-114 | JEFFERSON ANASTASIA     |                                | 48 GREAT RD #14         | ACTON     | MA |
| 18 GREAT RD #15 | G5-76-115 | PAOLINI PAUL S          | PAOLINI KIMBERLY L             | 48 GREAT RD #15         | ACTON     | MA |
| 18 GREAT RD #16 | G5-76-116 | JACOBY THOMAS M         |                                | 457 MASS AVE            | ACTON     | MA |
| 18 GREAT RD #17 | G5-76-117 | PIKE JAMES              |                                | 48 GREAT ROAD #17       | ACTON     | MA |
| 18 GREAT RD #18 | G5-76-118 | STADES PETER W          | CRIMMINS SUSAN C               | 48 GREAT RD #18         | ACTON     | MA |
| 18 GREAT RD     | G5-76-121 | ACTON HOUSING AUTHORITY |                                | PO BOX 681              | ACTON     | MA |
| 18 GREAT RD #22 | G5-76-122 | FRANCIS MICHAEL W       |                                | 48 GREAT RD #22         | ACTON     | MA |
| 18 GREAT RD #23 | G5-76-123 | FASULO PONG S           |                                | 48 GREAT RD #23         | ACTON     | MA |
| 18 GREAT RD #24 | G5-76-124 | BARBERA DAVID A         |                                | 48 GREAT RD #24         | ACTON     | MA |
| 18 GREAT RD #25 | G5-76-125 | BIFOLCK MARIE FOUNTAIN  |                                | 48 GREAT RD #25         | ACTON     | MA |
| 18 GREAT RD #26 | G5-76-126 | KELLY VIRGINIA M        |                                | 48-35 GREAT RD          | ACTON     | MA |
| 18 GREAT RD #27 | G5-76-127 | SWANSON JOY E           |                                | 48 GREAT RD #27         | ACTON     | MA |
| 18 GREAT RD #28 | G5-76-128 | CUNNINGHAM GEORGE       |                                | 48 GREAT RD #28         | ACTON     | MA |
| 48 GREAT RD #31 | G5-76-131 | PATEL VIJAY             |                                | 48 GREAT RD #31         | ACTON     | MA |
| 48 GREAT RD #32 | G5-76-132 | HENRIQUEZ JOSE A        | MULLIN MARY-ALICE              | 48 GREAT RD #32         | ACTON     | MA |
| 48 GREAT RD #33 | G5-76-133 | KULESZA MATTHEW         |                                | 39 READVILLE ST         | HYDE PARK | MA |
| 48 GREAT RD #34 | G5-76-134 | MULLIN THOMAS J         |                                | 48 GREAT RD #34         | ACTON     | MA |
| 48 GREAT RD #35 | G5-76-135 | STOVER THOMAS S         |                                | 48 GREAT RD #35         | ACTON     | MA |
| 48 GREAT RD #36 | G5-76-136 | MOORE PATRICIA          |                                | 48 GREAT RD UNIT 36     | ACTON     | MA |
| 48 GREAT RD #37 | G5-76-137 | BRIGHAM KIM             |                                | 48 GREAT RD #37         | ACTON     | MA |
| 48 GREAT RD #38 | G5-76-138 | STOVER THOMAS           |                                | 48 GREAT RD #38         | ACTON     | MA |

The owner of land sharing a common boundary or corner with the site of the proposed activity (100 feet) in any direction, including land located directly across a street, way, creek, river, stream, brook or canal. The above are as they appear on the most recent applicable taxes.

*Kimberly Hoyt*  
Kimberly Hoyt  
Assessing Clerk  
Acton Assessors Office  
25-Jul-08

# AFFIDAVIT OF SERVICE

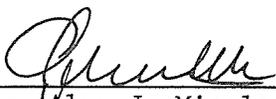
Under the Massachusetts Wetlands Protection Act

(to be submitted to the Massachusetts Department of Environmental Protection and the Conservation Commission when filing a Notice of Intent)

I, Alan J. Micale, P.E., hereby certify under the pains and penalties of perjury that on August 21, 2008 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 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 Massachusetts Wetlands Protection Act by Ayoub Engineering, Inc. with the Acton Conservation Commission on August 21, 2008 for property located at 44 Great Road, Acton.

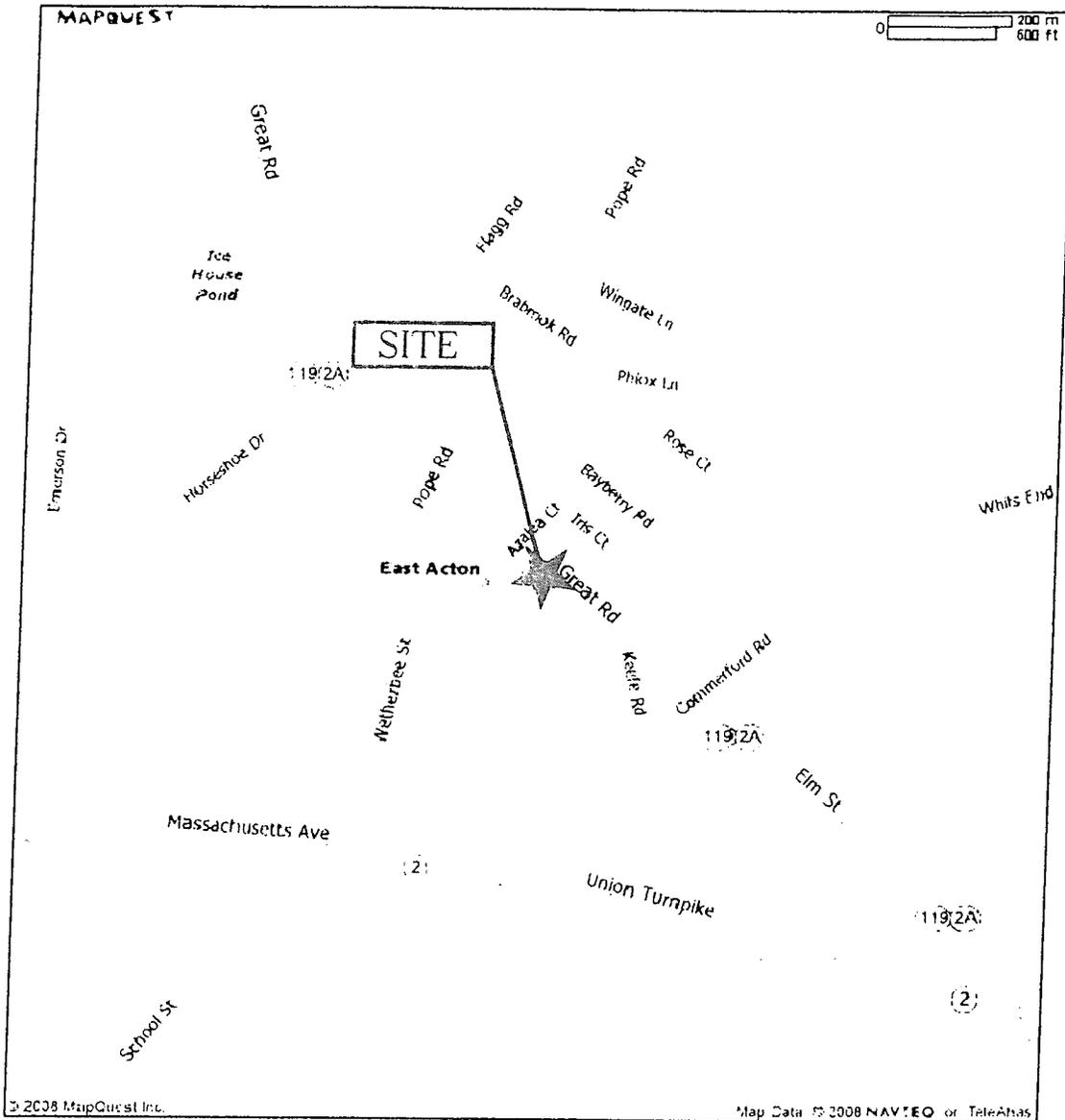
The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.

  
Name Alan J. Micale, P.E., Ayoub Engineering, Inc.  
Agent for Mobil Oil Corp./Gilbarco Corp.

8-20-08  
Date

**EXHIBIT A**

**Locus Map**



LOCUS MAP

**EXXON MOBIL**

44 GREAT ROAD  
ACTON, MA

ASSESSOR'S MAP: G5

LOT: 76

PREPARED BY

**AYOUB ENGINEERING**

ENGINEERING & ARCHITECTURAL CONSULTANTS  
414 BENEFIT STREET, PAWTUCKET, RHODE ISLAND 02861  
PHONE: (401) 728-5533 FAX: (401) 724-1110  
E-MAIL: INFO@AYOUBENGINEERING.COM

DATE: 5/2/08

SCALE: NOT TO SCALE

DWN. BY: RCD

A.E.I. JOB NO.: 3667

**EXHIBIT B**

**Narrative**

**Exxonmobil**  
**44 Great Road**  
**Acton, MA**  
**AEI Project No. 3667.107**  
**August 20, 2008**

**Project Narrative**

ExxonMobil is proposing to upgrade the existing single wall underground storage tanks and piping components at their 44 Great Road location. The property is identified in the town as Assessors Map G5, Lot 76. The parcel is approximately 40,420 sf.

Currently the site has a convenience store approximately 1767 sf in area and a 2678 sf canopy. The canopy covers four pump islands with two dispensers each. There exist a wetlands area located outside the property and a mean annual high water line behind the wetlands associated with the Nashoba Brook. Approximately 42% of the site is naturally pervious or landscape area. The remaining area of the site is a paved parking lot, with storage sheds and trailers located near the south property line

The proposed improvements for this site include:

- Fresh paint on storefront, reface existing I.D. sign, reface/relocate existing MobilMart sign and minor canopy work to be completed.
- Excavate and properly dispose of existing underground storage tanks and contents.
- Install 2 new double-wall fiberglass underground 20,000 gallon storage tanks, both to be compartmented 12,000/8,000
- Install new sumps, install multi-ports, and new sump sensors for fill.
- Install 3 new STP sumps with new sump sensors. Relocate TLM to new STP sump.
- Install new dispenser sumps under all 4 dispensers including new sump sensor. Replace all dispensing islands with new stainless islands.
- Remove any fibertrench and replace underground product and vapor vent piping with new Double Wall Fiber Glass piping.
- Provide 1 new electrical conduit from building electrical panels to each dispenser sump and tank
- Upgrade existing veeder-root monitor to accept all new sensors.

- Approximate area of paving to be disturbed/replaced  
concrete: 3,7905 s.f.  
asphalt: 1,041 s.f.
- Dewatering will likely be required. Tanks will require ballast during construction.
- Existing dispensers are to be removed and disposed. Install new blending dispensers.
- Remove fuel oil tank. Install new above ground 275 fuel oil tank as by PM. Tie supply lines to heating unit.
- Power wash canopy deck and paint canopy columns.
- Revise existing UL-1254 fire suppression per approved plans using existing equipment to raise and shorten system. Install new CCTV cameras at each dispenser and new color monitor at attendant area.
- Replace all concrete dispensing mat with 6" reinforced mat. Install PLB grooves per approved FSS plans.

All proposed work is to be installed to match the existing grades. There will be no anticipated change in the existing stormwater characteristics of the site. There are currently two catch basins on site with an infiltration system for each catch basin. Based on best available information taken from a plan entitled "Septic System Emergency Repair Plan 44 Great Road Town of Acton Middlesex County, Massachusetts dated: 10/31/01 scale: 1"=20' prepared by Bohler Engineering 352 Turnpike Road Southboro, MA" these systems most likely consist of 4'x4' leaching galleys with 1'-2' of stone around. An analysis based on these galleys using a perc rate of 2 min. per inch, as shown on said plan, indicates that the catch basin on the eastern side of the site can handle the 2 year storm, and the catch basin on the western side of the site can handle up to a 25 year storm.

The Mobil Station is also a Massachusetts Department of Environmental Protection (MADEP) listed petroleum release site (MADEP Site No.2-0253). Therefore, in addition to the NOI, construction and/or remedial activities will also be performed in accordance with the Massachusetts Contingency Plan (MCP) regulations. UST system removals will be performed by a qualified ExxonMobil approved contractor. An XOM environmental consultant will be on site to document site activities and confirm that activities are performed in accordance with this NOI and the Release Abatement Measure (RAM) Plan to be submitted to the MADEP prior to the commencement of the proposed work. The RAM Plan will provide specifications for monitoring and handling potentially exposed petroleum impact soil during excavation associated with the UST upgrade activities. The RAM Plan will include a provision for a shallow remedial excavation as deemed necessary and if reasonably feasible in the area of the current USTs. The RAM Plan

includes provisions for the management of impacted soils if encountered during activities proposed for the Mobil Station property.

# OPERATION & MAINTENANCE PLAN

FOR

## ExxonMobil

44 GREAT ROAD  
ACTON, MA

Prepared By:

**AYOUB ENGINEERING**

ENGINEERING & ARCHITECTURAL CONSULTANTS  
CORPORATE OFFICE:

414 BENEFIT STREET, PAWTUCKET, RHODE ISLAND 02861  
PHONE: (401) 728-5533 FAX: (401) 724-1110

254-B N. BROADWAY, STE. 206 SALEM, NEW HAMPSHIRE 03079  
PHONE: (603) 894-4828 FAX: (603) 894-4827

E-MAIL: [INFO@AYOUBENGINEERING.COM](mailto:INFO@AYOUBENGINEERING.COM)

Date: August 14, 2008

AEI Project No. 3667.107

# Operations & Maintenance Plan

## Construction Phase

- A continuous row of hay bales will be installed and maintained along the perimeter of all construction activities as shown on the Erosion & Sediment Control Plan.
- Erosion/sediment control measures shall be inspected after each storm event and repaired or replaced as necessary. They shall remain in place until final stabilization of the site.
- A temporary construction entrance shall be designated. Sweeping of this entrance (as needed) shall be performed at the end of each work day.
- A concrete washing pit approximately 5 yards in volume will be established away from the wetlands area. Concrete washing pit to be lined with plastic. Wash water to be drummed and transported to a disposal facility, residual debris to be properly disposed of.
- Dust to be controlled by spraying the site as needed.

## Post Construction Phase

Once construction is complete, post development storm water controls are to be operated and maintained in compliance with the following permanent maintenance procedures:

- In case of oil spill, clean up should be performed immediately.
- All paved areas on-site are to be swept once a month during the late spring, summer and early fall seasons to prevent sediment accumulation.
- All landscaped areas are to be maintained. In grassed areas bare soil should be reseeded. All soil around the plants should be mulched with a minimum of 2 to 3".
- The coordination of parking lot sweeping will be the responsibility of the station operator.
- Sediment accumulation from the parking lot sweeping shall be disposed of in accordance with all local, state, and federal laws and will be responsibility of the station operator.
- Use of road salts to treat ice conditions on site will be prohibited.
- Snow shall be stored on the northern portion of the site outside the riverbank area, and shall be removed from the site and properly disposed of if required, after large snowstorm events.

**EXHIBIT C**  
**Flood Plain Map**

**LEGEND**

-  SPECIAL FLOOD HAZARD AREAS INUNDED BY 100-YEAR FLOOD
- ZONE A** Coastal Flood elevation determined.
- ZONE AB** Base Flood elevation determined.
- ZONE AH** Flood depths of 1 to 3 feet (average area of ponding); base flood elevation determined.
- ZONE AD** Flood depths of 1 to 3 feet (average area of ponding); average depth determined. For areas of shallow flooding, velocities also determined.
- ZONE ABB** To be protected from 100-year Flood by Federal Flood protection system under construction; base flood elevation determined.
- ZONE V** Coastal Flood with velocity hazard to be considered; base flood elevation determined.
- ZONE VE** Coastal Flood with velocity hazard (area within); base flood elevation determined.
- FLOODWAY AREAS IN ZONE AE**
- OTHER FLOOD AREAS**
- ZONE X** Areas of 100-year Flood; areas of 100-year Flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year Flood.
- OTHER AREAS**
- ZONE R** Areas determined to be outside 100-year Flood plain.
- ZONE D** Areas in which flood hazards are undetermined.
-  Flood Boundary
-  Floodway Boundary
-  Zone D Boundary
-  Boundary Dividing Special Flood Hazard Zones and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
-  Base Flood Elevation Line; Elevation in Feet\*
-  Cross Section Line
-  Base Flood Elevation in Feet Where Unlabeled "Within Zone"
-  Elevation Reference Mark

\*Referenced to the National Geodetic Vertical Datum of 1929

**NOTES**

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly those flood drainage sources of small size, or all phenomena features outside coastal flood hazard areas. The coastal flooding elevations shown may differ significantly from those computed by the National Weather Service for hurricane evacuation planning.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the Floodways were computed at cross sections and interpolated between cross sections. The Floodways were based on hydraulic considerations with regard to roughness of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show at scale. Floodway widths are provided in the Flood Insurance Study Report.

Elevation reference marks are described in the Flood Insurance Study Report.

Coastal base flood elevations apply only to landward of 0.0 MCVL. Coastal base flood elevations shown on this map include the effects of wave action.

Joining map panels see separately printed Map Index.

MAF REPOSITORY  
 Federal Office, Acton, Massachusetts 01720 Allow invitation for an early, not for sale.

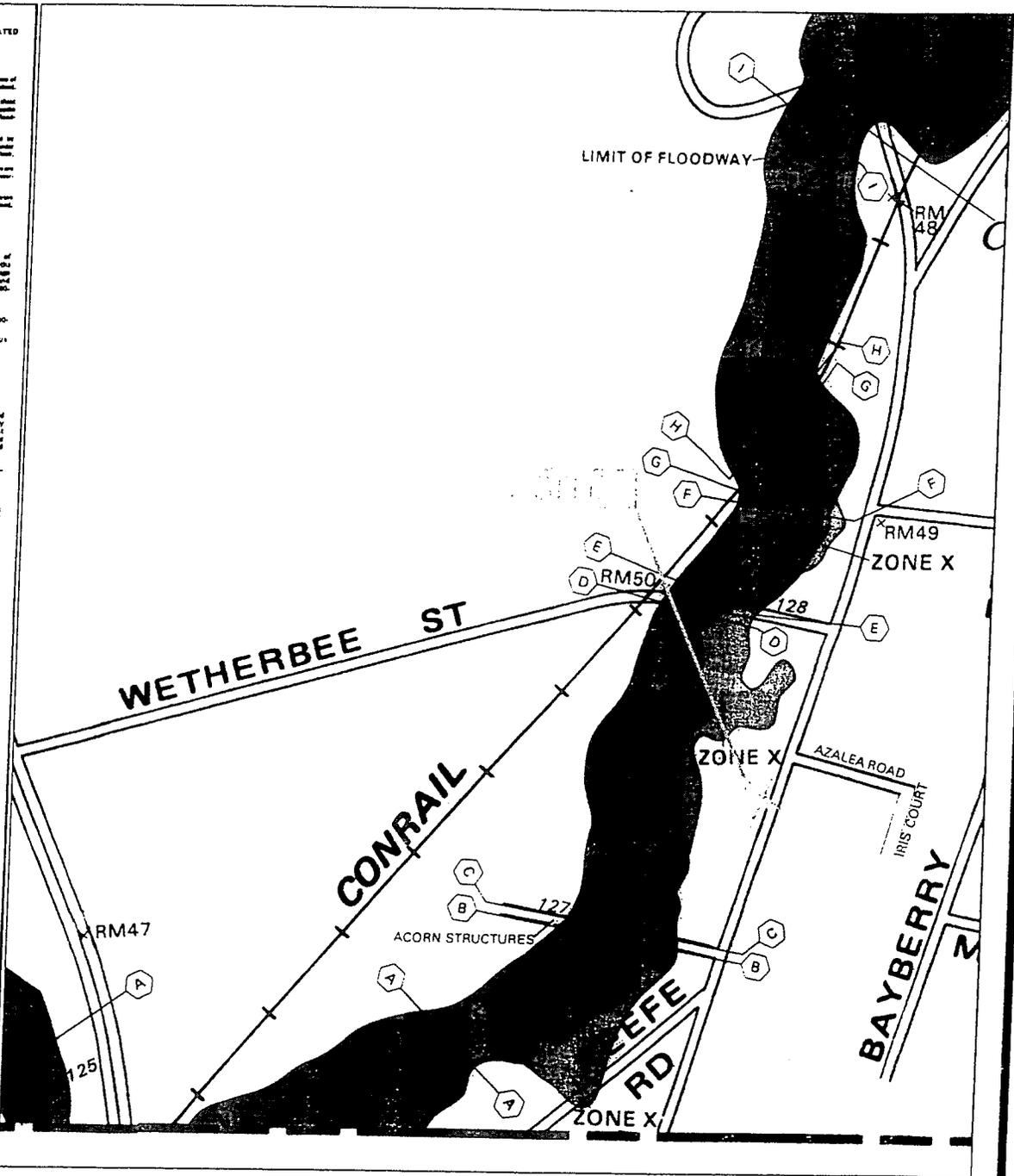
INITIAL IDENTIFICATION:  
 JULY 28, 1974  
 FLOOD HAZARD BOUNDARY MAP REVISIONS:  
 NONE  
 FLOOD INSURANCE RATE MAP EFFECTIVE:  
 JUNE 15, 1976  
 FLOOD INSURANCE RATE MAP REVISIONS:

January 8, 1988 - to change base flood elevations, to add base flood elevations, to change special flood hazard areas, and to change zone designations.

To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 434-6232.



APPROXIMATE SCALE



FLOODPLAIN MAP

**EXXON MOBIL**

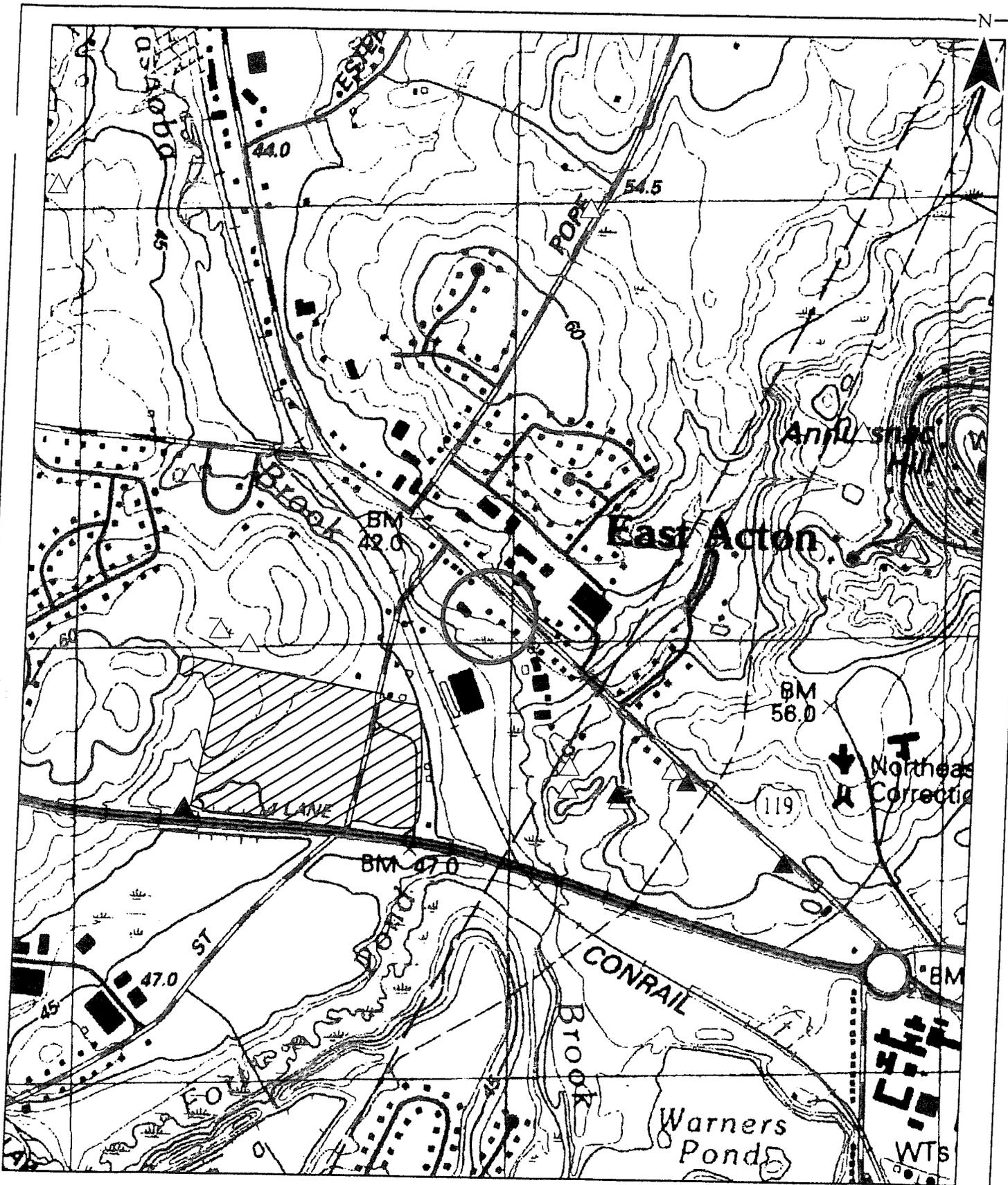
44 GREAT ROAD  
 ACTON, MA

ASSESSOR'S MAP: G5                      LOT: 76

PREPARED BY  
**AYOUB ENGINEERING**  
 ENGINEERING & ARCHITECTURAL CONSULTANTS  
 414 BENEFIT STREET, PAWTUCKET, RHODE ISLAND 02861  
 PHONE: (401) 728-5533    FAX: (401) 724-1110  
 E-MAIL: INFO@AYOUBENGINEERING.COM

DATE: 5/2/08  
 SCALE: NOT TO SCALE  
 DWN. BY: RCD  
 A.E.I. JOB NO.: 3667

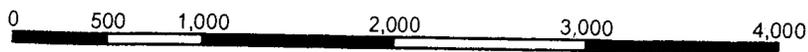
**EXHIBIT D**  
**USGS Topographic Map**



**Great Road**  
Acton, MA

This map references The Massachusetts Natural Heritage & Endangered Species Program layers. Any such areas designated by the program are depicted.

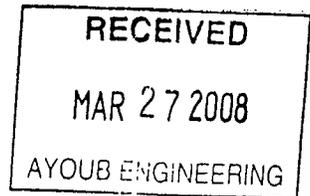
- Approximate Site Location
- △ NHESP 2003 Potential Vernal Pools
- ▲ NHESP 2007 Certified Vernal Pools
- ▨ NHESP 2006 Priority Habitats of Rare Species
- NHESP 2006 Estimated Habitats of Rare Wildlife



(c) Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs  
 - NHESP 2006 Estimated Habitats for Rare Wildlife: For Use with the MA Wetlands Protection Act Regulations (310 CMR 10)  
 - NHESP 2006 Priority Habitats for State-Protected Rare Species

**EXHIBIT E**

**Letter of Findings**  
(Natural Resources Services, Inc.)



## **Natural Resource Services, Inc.**

March 26, 2008

Monica Weil  
Ayoub Engineering  
414 Benefit Street  
Pawtucket, RI 02861

RE: Letter of Findings; 44 Great Road, Acton, Massachusetts

Dear Ms. Weil:

Natural Resource Services, Inc. (NRS) has completed the freshwater wetland delineations on the above referenced property. These field delineations have been done in accordance with the standards established in the Massachusetts Wetlands Protection Act (M.G.L. ch. 131, sec 40.). Wetland edge delineation data forms are included with this letter of findings. It is important to realize that all delineations performed by NRS are subject to review and verification from the Massachusetts Department of Environmental Protection (DEP) and/or the Acton Conservation Commission.

The subject parcel is an existing Mobil gas station located at 44 Great Road in Acton, Massachusetts. The property consists entirely of developed land, including pavement and the Mobil gas station structures. NRS has field delineated a single area of freshwater wetland, as well as the estimated mean annual high water line, off-site to the south of the property.

The identified wetland, represented by NRS flag series A1 to 10, is classified as a Bordering Vegetated Wetland (BVW). Under current regulations, a 100 foot buffer zone will be applied to the edge of the Bordering Vegetated Wetland by the DEP.

In addition, the mean annual high water line was delineated with flag series MAHW1 – MAHW12. This flag series was established based on the observed limit of deep (over 3 feet), open water at the time of the inspection, where slight flow was even observed. Due to this hydrology, it was impossible to observe an actual bank of the perennial river. However, due to the presence of deep water, it is apparent that the mean annual high water line is where I have established the MAHW flag edge. A 200 foot river-front area will be applied to the MAHW edge.

(Letter of Findings for M. Weil, page 2)

All setbacks must be accurately depicted on all site plans submitted for review. Any proposed construction within the 100 foot buffer zone or the 200 foot riverfront area will be subject to permitting from both the DEP and the Acton Conservation Commission.

Finally, there are no areas of Estimated or Priority Habitats, or potential or certified vernal pools, on the four (4) acre subject parcel according to the Massachusetts Natural Heritage & Endangered Species Program (MNHESP) data layers.

Please do not hesitate to contact me if you have any questions regarding the work performed. NRS is available to assist you with the preparation of any application or impact report.

Very truly yours,



Tonya Brainsky

08-061

**EXHIBIT F**  
**As-Built Plan**

**EXHIBIT G**

**Tank & Piping Replacement Plan**

See plans  
separately  
in DocuShare

**EXHIBIT I**

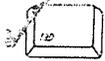
**Checklist for Stormwater Report/  
Stormwater Management Plan**



# Checklist for Stormwater Report

## A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.<sup>1</sup> This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8<sup>2</sup>
- Operation and Maintenance Plan required by Standard 9

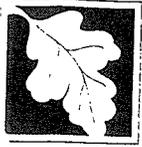
In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

<sup>1</sup> The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

<sup>2</sup> For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.



# Checklist for Stormwater Report

## B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

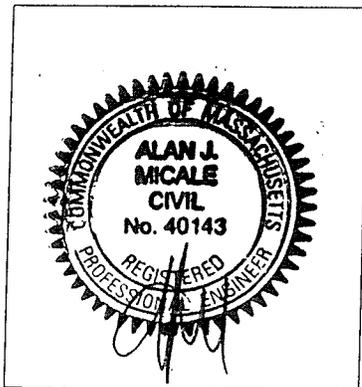
*Note:* Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

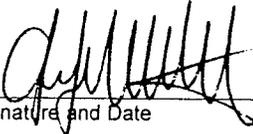
A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

### Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



  
Signature and Date

5/7/08

## Checklist

**Project Type:** Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment



# Checklist for Stormwater Report

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## Checklist (continued)

**LID Measures:** Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
  - Credit 1
  - Credit 2
  - Credit 3
- Use of "country drainage" versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): \_\_\_\_\_

### Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

### Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
  - Static
  - Simple Dynamic
  - Dynamic Field<sup>1</sup>
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
  - Site is comprised solely of C and D soils and/or bedrock at the land surface
  - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
  - Solid Waste Landfill pursuant to 310 CMR 19.000
  - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

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<sup>1</sup> 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

### Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
  - Provisions for storing materials and waste products inside or under cover;
  - Vehicle washing controls;
  - Requirements for routine inspections and maintenance of stormwater BMPs;
  - Spill prevention and response plans;
  - Provisions for maintenance of lawns, gardens, and other landscaped areas;
  - Requirements for storage and use of fertilizers, herbicides, and pesticides;
  - Pet waste management provisions;
  - Provisions for operation and management of septic systems;
  - Provisions for solid waste management;
  - Snow disposal and plowing plans relative to Wetland Resource Areas;
  - Winter Road Salt and/or Sand Use and Storage restrictions;
  - Street sweeping schedules;
  - Provisions for prevention of illicit discharges to the stormwater management system;
  - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
  - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
  - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
  - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
    - is within the Zone II or Interim Wellhead Protection Area
    - is near or to other critical areas
    - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
    - involves runoff from land uses with higher potential pollutant loads.
  - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
  - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
  - The ½" or 1" Water Quality Volume or
  - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

### Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted *prior to* the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does *not* cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has *not* been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

### Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.



# Checklist for Stormwater Report

## Checklist (continued)

### Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
- Limited Project
  - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
  - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
  - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
  - Bike Path and/or Foot Path
  - Redevelopment Project
  - Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

### Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
  - Construction Period Operation and Maintenance Plan;
  - Names of Persons or Entity Responsible for Plan Compliance;
  - Construction Period Pollution Prevention Measures;
  - Erosion and Sedimentation Control Plan Drawings;
  - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
  - Vegetation Planning;
  - Site Development Plan;
  - Construction Sequencing Plan;
  - Sequencing of Erosion and Sedimentation Controls;
  - Operation and Maintenance of Erosion and Sedimentation Controls;
  - Inspection Schedule;
  - Maintenance Schedule;
  - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



# Checklist for Stormwater Report

## Checklist (continued)

### Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

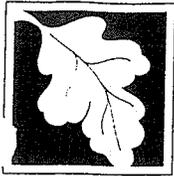
- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- The project is **not** covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

### Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
  - Name of the stormwater management system owners;
  - Party responsible for operation and maintenance;
  - Schedule for implementation of routine and non-routine maintenance tasks;
  - Plan showing the location of all stormwater BMPs maintenance access areas;
  - Description and delineation of public safety features;
  - Estimated operation and maintenance budget; and
  - Operation and Maintenance Log Form.
- The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
  - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
  - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

### Standard 10: Prohibition of Illicit Discharges

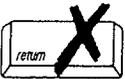
- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**Stormwater Management Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**A. Property Information**

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



1. The proposed project is:
  - a. New development       Yes       No
  - b. Redevelopment       Yes       No
  - c. Combination       Yes       No (If yes, distinguish redevelopment components from new development components on plans).
  
2. Stormwater runoff to be treated for water quality is based on the following calculations:
  - a.  1 inch of runoff x total impervious area of post-development site for discharge to **critical areas** (Outstanding Resource Waters, recharge areas of public water supplies, shellfish growing areas, swimming beaches, cold water fisheries).
  - b.  0.5 inches of runoff x total impervious area of post-development site for other resource areas.

**Note:**  
 This November 2000 version of the Stormwater Management Form supersedes earlier versions including those contained in DEP's Stormwater Handbooks.

**B. Stormwater Management Standards**

DEP's Stormwater Management Policy (March 1997) includes nine standards that are listed on the following pages. Check the appropriate boxes for each standard and provide documentation and additional information when applicable.

**Standard #1: Untreated stormwater**

- a.  The project is designed so that new stormwater point discharges do not discharge untreated stormwater into, or cause erosion to, wetlands and waters.

**Standard #2: Post-development peak discharges rates**

- a.  Not applicable – project site contains waters subject to tidal action.

Post-development peak discharge does not exceed pre-development rates on the site at the point of discharge or downgradient property boundary for the 2-yr, 10-yr, and 100-yr, 24-hr storm.

- b.  Without stormwater controls
- c.  With stormwater controls designed for the 2-yr, and 10-yr storm, 24-hr storm.
- d.  The project as designed will not increase off-site flooding impacts from the 100-yr, 24-hr storm.





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**B. Stormwater Management Standards (cont.)**

c. If the project is redevelopment, explain how much TSS will be removed and briefly explain why 80% removal cannot be achieved.

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**Standard #5: Higher potential pollutant loads**

Does the project site contain land uses with higher potential pollutant loads

a.  Yes     No

b. If yes, describe land uses:

Gasoline filling station

c. Identify the BMPs selected to treat stormwater runoff. If infiltration measures are proposed, describe the pretreatment. (Note: If the area of higher potential pollutant loading is upgradient of a critical area, infiltration is not allowed.)

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**Standard #6: Protection of critical areas**

Will the project discharge to or affect a critical area?

a.  Yes     No

b. If yes, describe areas:

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c. Identify the BMPs selected for stormwater discharges in these areas and describe how BMPs meet restrictions listed on pages I-27 and I-28 of the Stormwater Policy Handbook – Vol. I:

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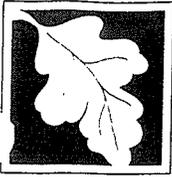
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See Stormwater Policy Handbook Vol. I, page I-23, for land uses of high pollutant loading (see Instructions).

See Stormwater Policy Handbook Vol. I, page I-25, for critical areas (see Instructions).



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**B. Stormwater Management Standards (cont.)**

Note:  
 components of  
 redevelopment  
 projects which  
 plan to develop  
 previously  
 undeveloped  
 areas do not fall  
 under the scope  
 of Standard 7.

**Standard #7: Redevelopment projects**

Is the proposed activity a redevelopment project?

a.  Yes     No

b. If yes, the following stormwater management standards have been met:

1, 2, 4, 6, 7, 8 and 9  
 \_\_\_\_\_  
 \_\_\_\_\_

c. The following stormwater standards have not been met for the following reasons:

3 and 5 existing drainage system to remain.  
 \_\_\_\_\_  
 \_\_\_\_\_

d.  The proposed project will reduce the annual pollutant load on the site with new or improved stormwater control.

**Standard #8: Erosion/sediment control**

a.  Erosion and sediment controls are incorporated into the project design to prevent erosion, control sediments, and stabilize exposed soils during construction or land disturbance.

**Standard #9: Operation/maintenance plan**

a.  An operation and maintenance plan for the post-development stormwater controls have been developed. The plan includes ownership of the stormwater BMPs, parties responsible for operation and maintenance, schedule for inspection and maintenance, routine and long-term maintenance responsibilities, and provision for appropriate access and maintenance easements extending from a public right-of-way to the stormwater controls.

\_\_\_\_\_ b. Plan/Title

\_\_\_\_\_ c. Date

\_\_\_\_\_ d. Plan/Title

\_\_\_\_\_ e. Date



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### C. Submittal Requirements

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

DEP recommends that applicants submit this form, as well as, supporting documentation and plans, with the Notice of Intent to provide stormwater management information for Commission review consistent with the wetland regulations (310 CMR 10.05 (6)(b)) and DEP's Stormwater Management Policy (March 1997). If a particular stormwater management standard cannot be met, information should be provided to demonstrate how equivalent water quality and water quantity protection will be provided. DEP encourages engineers to use this form to certify that the project meets the stormwater management standards as well as acceptable engineering standards. For more information, consult the Stormwater Management Policy.

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### D. Signatures

Alan J. Micale P.E.  
Ayoub Engineering, Inc., Agent for Mobil Oil Corp.

8-20-08

Applicant Name

Date

  
Signature

Alan J. Micale, P.E.  
Ayoub Engineering, Inc., Agent for Mobil Oil Corp.

8-20-08

Representative (if any)

Date

  
Signature