

September 3, 2014

Mr. Tom Tidman, Chair
Town of Acton Conservation Commission
Town Hall
472 Main Street
Acton, Massachusetts 01720

**RE: Notice of Intent – Bursaw Gas & Oil
94 Great Road, Acton, Massachusetts
Map G4, Lot 122**

Dear Mr. Tidman:

This letter is provided to transmit a Notice of Intent (NOI) in support of a propane underground storage tank installation and stormwater conveyance system upgrade project at Bursaw Gas & Oil at 94 Great Road in Acton, Massachusetts.

The following documentation is attached:

- WPA Form 3 – Notice of Intent;
- NOI Wetland Fee Transmittal Form;
- A check in the amount of \$262.50 (Municipal Fee);
- A copy of the state fee check in the amount of \$237.50 (State Fee);
- Certified Abutter List
- A copy of the Notification of Abutters
- Affidavit of Services pertaining to abutter notifications; and
- Checklist for Stormwater Report and corresponding Stormwater Report and Plans.

Please contact the undersigned at (603) 369-4190 ext 505 if you have any questions or require additional information.

Very truly yours,

WILCOX & BARTON, INC.



Russell W. Barton
Principal Geologist

cc: Mr. Jeff Bursaw, Bursaw Gas & Oil
MassDEP, Central Regional Office



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

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>94 Great Road</u> a. Street Address	<u>Acton</u> b. City/Town	<u>01720</u> c. Zip Code
Latitude and Longitude:		
<u>G4</u> f. Assessors Map/Plat Number	<u>42deg28'36.87"</u> d. Latitude	<u>71deg24'44.15"</u> e. Longitude
	<u>122</u> g. Parcel /Lot Number	

2. Applicant:

<u>Jeff</u> a. First Name	<u>Bursaw</u> b. Last Name	
<u>Bursaw Gas & Oil</u> c. Organization		
<u>94 Great Road</u> d. Street Address		
<u>Acton</u> e. City/Town	<u>MA</u> f. State	<u>01720</u> g. Zip Code
<u>(978) 486-3666</u> h. Phone Number	<u>(978) 263-1173</u> i. Fax Number	<u>bursaw@aol.com</u> j. Email Address

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

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

4. Representative (if any):

<u>Russell</u> a. First Name	<u>Barton</u> b. Last Name	
<u>Wilcox & Barton, inc.</u> c. Company		
<u>57 Hoit Road</u> d. Street Address		
<u>Concord</u> e. City/Town	<u>NH</u> f. State	<u>03301</u> g. Zip Code
<u>(603) 369-4190</u> x502	<u>(603) 369-6639</u> i. Fax Number	<u>rbarton@wilcoxandbarton.com</u> j. Email address

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

<u>\$500.00</u> a. Total Fee Paid	<u>\$237.50</u> b. State Fee Paid	<u>\$262.50</u> c. City/Town Fee Paid
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WPA Form 3 – Notice of Intent

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

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A. General Information (continued)

6. General Project Description:

Installation of one 30,000-gallon propane underground storage tank. Removal of existing stormwater discharge piping and three oil/water separators. Stormwater system upgrades to include installation of one new oil/water separator, three new catch basins and associated discharge piping.

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

15951

c. Book

b. Certificate # (if registered land)

166

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 delineated.

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. square feet 3. cubic yards dredged	2. square feet



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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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 replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) _____	
	2. Width of Riverfront Area (check one):	
	<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only	
	<input type="checkbox"/> 100 ft. - New agricultural projects only	
	<input type="checkbox"/> 200 ft. - All other projects	
	3. Total area of Riverfront Area on the site of the proposed project:	_____ square feet
	4. 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. _____
	5. Has an alternatives analysis been done and is it attached to this NOI?	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. Was the lot where the activity is proposed created prior to August 1, 1996?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. <input type="checkbox"/> 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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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 _____



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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
5. <input type="checkbox"/> Project Involves Stream Crossings		
	a. number of new stream crossings	b. number of replacement stream crossings

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://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.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
100 Hartwell Street, Suite 230
West Boylston, MA 01583**

b. Date of map _____



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

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).*

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/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>). Make check payable to "Commonwealth of Massachusetts - NHESP" 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/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; 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 # _____ b. Date submitted to NHESP

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). 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)

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

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
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694

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

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



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:	
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C. Other Applicable Standards and Requirements (cont'd)

- 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.

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.

Sheet C-1 Existing Conditions Plan and Sheet C-2 Proposed Plan

a. Plan Title

Wilcox & Barton, Inc.

b. Prepared By

August 29, 2014

d. Final Revision Date

Robert W. Rooks, P.E.

c. Signed and Stamped by

1" = 10'

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.



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E. Fees

- 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:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payor name on check: First Name	7. Payor name on check: Last Name

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.

1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
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. Location of Project:

94 Great Road Acton
 a. Street Address b. City/Town

 c. Check number d. Fee amount

2. Applicant Mailing Address:

Jeff Bursaw
 a. First Name b. Last Name
Bursaw Gas & Oil
 c. Organization
94 Great Road
 d. Mailing Address
Acton MA 01720
 e. City/Town f. State g. Zip Code
(978) 486-3333 (978) 263-1173 bursaw@aol.com
 h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

 a. First Name b. Last Name

 c. Organization

 d. Mailing Address

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

 h. Phone Number i. Fax Number j. Email Address

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

Fee should be calculated using the following process & 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.



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NOI Wetland Fee Transmittal Form
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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	1	\$500.00	\$500.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			\$500.00

Step 6/Fee Payments:

Total Project Fee:	\$500.00
State share of filing Fee:	\$237.50
City/Town share of filing Fee:	\$262.50
	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: Bursaw Gas & Oil

Address 94 Great Road Phone (978)486-3666

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: Wilcox & Barton, Inc.

Address 57 Hoit Road, Concord, NH 03301 Phone (603)369-4190

The address of the property where the activity is proposed _____

94 Great Road

Town Atlas Plate/Map G4 Parcel/Lot 122

Project Description Installation of one 30,000-gallon propane underground storage tank.

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 17, 2014 at 7:45 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**

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)

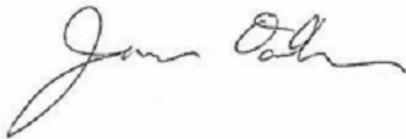
I, James Donaldson, hereby certify under the pains and penalties of perjury that on August 18, 2014 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by Bursaw Gas & Oil with the Acton Conservation Commission on September 3, 2014 for property located at 94 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.

James Donaldson
Name

August 18, 2014
Date





Town of Acton
472 Main Street
Acton, MA 001720
Telephone (978) 929-6621
Fax (978) 264-9630

Brian McMullen
Assessor

Locus: 94 Great Road
Parcel ID: F3-134

Parcel ID	Location	Owner	Co-Owner	Mailing Address	City
G4-143	13 WETHERBEE ST	WETHERBEE ACTON RLTY		116 ADAM ST	DUNSTABLE, MA 01827
G4-212	108 GREAT RD	TOWN OF ACTON	VERONICA CICCONE	472 MAIN STREET	ACTON, MA 01720
G4-49-7	129 CONCORD RD	TORODE NANCY		129 CONCORD RD	ACTON, MA 01720
G4-94	83 GREAT RD	EAST ACTON LAND INC		69 GREAT RD	ACTON, MA 01720
G5-34	69 GREAT RD	EAST ACTON LAND INC		69 GREAT RD	ACTON, MA 01720
G5-46	63 GREAT RD	ROSENFELD ALAN ET AL TR	FIELDKOM REALTY TRUST	PO BOX 2307	WOBURN, MA 1888
G5-57	60 GREAT RD	60 GREAT ROAD LLC		60 GREAT RD	ACTON, MA 01720
G5-8-1	75 GREAT RD	ACTON-ELM REALTY CORP		PO BOX 2350	ACTON, MA 01720

The owner of sharing a common boundary or corner v with the site of the proposed activity 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.

Kelly Schorr
Kelly Schorr
Acton Assessors Office

31-Jul-14

(Domestic Mail Only; No Insurance Coverage Provided)

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Ms. Nancy Torode
 129 Concord Street
 Acton, MA 01720

PS Form 3800, A



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.¹ 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 8²
- 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.

¹ 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.

² 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.

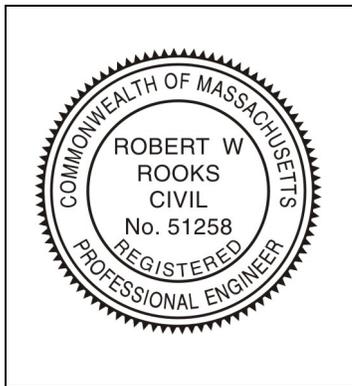
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the 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



9/3/14

Signature and Date

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

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

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 Field¹
- 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.

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



Checklist for Stormwater Report

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

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.



Wilcox & Barton INC.

ENVIRONMENTAL AND ENGINEERING SERVICES

STORMWATER REPORT

**WETLANDS NOTICE OF INTENT
UNDERGROUND STORAGE TANK
INSTALLATION AND STORMWATER
UPGRADE PROJECT
BURSAW GAS & OIL**

Prepared for:

Bursaw Gas & Oil
94 Great Road
Acton, Massachusetts 01720
Contact: Mr. Jeff Bursaw, (978) 486-3666

Prepared by:

Wilcox & Barton, Inc.
57 Hoit Road
Concord, New Hampshire 03301
Contact: Mr. Russell Barton, (603) 369-4190 x502

September 3, 2014

Wilcox & Barton, Inc. Project No.: BURS0001

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Wilcox & Barton INC.

ENVIRONMENTAL AND ENGINEERING SERVICES

STORMWATER REPORT

**WETLANDS NOTICE OF INTENT
UNDERGROUND STORAGE TANK INSTALLATION
AND STORMWATER UPGRADE PROJECT**

BURSAW GAS & OIL

Latitude: 42° 28' 36.87" N

Longitude: 71° 24' 44.15" W

Prepared for:

Bursaw Gas & Oil

94 Great Road

Acton, Massachusetts 01720

Contact: Mr. Jeff Bursaw, (978) 486-3666

Prepared by:

Wilcox & Barton, Inc.

57 Hoit Road

Concord, New Hampshire 03301

Contact: Mr. Russell Barton, (603) 369-4190 x502

September 3, 2014

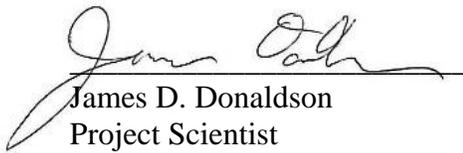
Wilcox & Barton, Inc. Project No.: BURS0001

CERTIFICATION

Document Name: Stormwater Report
Wetlands Notice of Intent
Underground Storage Tank Installation and Stormwater Upgrade Project
Bursaw Gas & Oil, 94 Great Road, Acton, Massachusetts

Date/Version: September 3, 2014

The following personnel have prepared and/or reviewed this report for accuracy, content, and quality of presentation.


James D. Donaldson
Project Scientist


Robert W. Rooks, P.E.
Principal Engineer

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Sheet C-1	Existing Conditions Plan
Sheet C-2	Proposed Plan

Appendix

Appendix A	Soil Data
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1.0 INTRODUCTION

Wilcox & Barton, Inc. was retained by Bursaw Gas & Oil to prepare this *Stormwater Report* in support of a Wetlands Notice of Intent for the proposed installation of a 30,000-gallon propane underground storage tank (UST) at the Bursaw Gas & Oil property.

The subject property is located at 94 Great Road in Acton, Massachusetts. The 1.5-acre property is improved upon by a one-story, wood-framed office, a one-story, wood-framed maintenance garage, a consumer fuel dispensing area, and several sheds and infrastructure for bulk fuel storage operations. Other improvements include asphalt-paved and concrete parking areas. The site is situated in a commercial section of Acton at an elevation of approximately 135 feet above mean sea level.

The project will include the installation of one 30,000-gallon single-walled steel propane UST on the eastern portion of the property and upgrades to the existing stormwater conveyance system on the central portion of the property. The UST installation component of the project will require disturbance of a vegetated area and a gravel parking area located between Great Road and the bank of Nashoba Brook. Tank installation activities will not disturb the slope adjacent to Nashoba Brook. A total area of approximately 2,500 square feet may be disturbed to facilitate propane tank installation, but will be restored to current conditions upon completion of the work.

The stormwater system upgrade component of the project will require disturbance to asphalt-paved areas and the vegetated areas adjacent to existing petroleum product USTs and along the southern boundary of the property. Proposed upgrades to the stormwater conveyance system include:

- removal of three existing catch basins, three existing oil/water separators, and associated underground drainage piping,
- installation of three new catch basins, one new distribution manhole, and associated underground piping, and
- installation of one new 1,500-gallon oil/water separator and associated discharge piping.

Prior to any earth disturbance, erosion and sedimentation Best Management Practices (BMPs) will be established. A straw wattle barrier will be installed around all disturbed areas and maintained throughout the project. The contributing stormwater runoff area adjacent to the proposed project will not be disturbed.

Following tank and oil/water separator installation, the disturbed vegetated areas will be graded and seeded. All disturbed ground surface will be stabilized by planting a mix of Reed Canary, KY-31 tall fescue, or equivalent. Grassed areas will be maintained during the growing season at a height of 4 to 6 inches. The growth of woody plants will be prevented under long-term maintenance. Disturbed areas surrounding the new catch basins will be restored with concrete and asphalt pavement to match surrounding conditions.

The location of the site and existing conditions are presented on *Sheet C-1- Existing Conditions Plan*. The proposed propane UST, stormwater system upgrades, and erosion and stormwater control measures are presented on *Sheet C-2 Proposed Plan*.

2.0 STORMWATER CHECKLIST AND CERTIFICATION

The MassDEP Bureau of Resource Protection – Wetlands *Checklist for Stormwater Report* is attached as a cover to this *Stormwater Report*. The Stormwater Report and checklist have been certified by a Massachusetts Registered Professional Engineer.

3.0 STORMWATER MANAGEMENT STANDARDS

Compliance with each of the Stormwater Management Standards from the Massachusetts Stormwater Handbook and Low Impact Development measures are described in the following sections.

3.1 Low Impact Development Measures

The proposed project will not disturb any Wetland Resource Areas and will minimize disturbance to existing trees and shrubs. The project will not alter the area of impermeable surface or affect runoff volume. General country drainage will be maintained on the UST installation portion of the project area. Upgrades to the stormwater conveyance system have been designed to accommodate existing site conditions and will not receive any additional stormwater flow volumes. The upgrades are designed to better control stormwater and provide better protection against release of oil to Nashoba Brook.

3.2 Standard 1: No New Untreated Discharges

The project will not result in new untreated discharges; upgrades will eliminate existing potential for untreated discharges. No new impervious areas will be created by the project. Drainage on the site will be restored to pre-redevelopment condition. Stormwater flow is unchanged between the current and post-redevelopment conditions.

3.3 Standard 2: Peak Attenuation Rate

The proposed redevelopment yields minimal change in impervious area and no change in peak discharge from the project area. Therefore, there is no potential for increased off-site flooding during the 100-year, 24-hour storm.

3.4 Standard 3: Recharge

Recharge will be identical to, or better than, the pre-development condition, with infiltration occurring through a stabilized ground surface. No infiltration BMPs are proposed, and no new site features will reduce infiltration to groundwater. Soil data are provided in Appendix A.

3.5 Standard 4: Water Quality

Runoff quality will be protected via implementation of a Long-term Pollution Prevention Plan. Water quality will be equivalent to current conditions at worst, and is likely to be improved via stormwater system upgrades.

3.5.1 Long-term Pollution Prevention Plan

a. Housekeeping Practices

Routine inspections of the installed tank area are recommended. Inspect for:

- trash and debris
- stains or spills from the UST

b. Storing Materials and Waste - not applicable

c. Vehicle Washing - not applicable

d. Inspections and Maintenance of BMPs

Routine inspections of the UST area are required weekly and after any large rain event (5-year, 24-hour or greater). Inspect for:

- trash and debris in the tank area, remove if found
- animal burrows or depressions in the grassed areas; fill when found
- ponding anywhere near the UST
- continued and adequate grass growth; maintain at 4 to 6 inches in height
- woody plants; remove when found

e. Spill Prevention and Response Plan

Bursaw Gas & Oil maintains a written Spill Prevention, Control, and Countermeasure (SPCC) Plan for response to oil spills. Spills to the ground surface potentially affecting the quality of stormwater runoff would be associated with fuel deliveries to the UST system.

In the event of a spill, facility personnel have been trained to implement the SPCC Plan. Immediate response measures include deployment of absorbents to contain the spread of the spill and closing valves on catch basin discharge lines. The designated spill response contractor is then called to complete the final cleanup prior to the next storm event whenever possible. Appropriate regulatory agencies are also notified when required based on the volume of the spill.

f. Landscaped Areas Maintenance

Routine landscape maintenance is limited to seasonal mowing of the vegetated area surrounding the UST and oil/water separator and the grass-line swale. Grass will be maintained at a 4 to 6-inch height. Deleterious plant material such as woody vegetation will be removed upon discovery and will not be allowed to perpetuate. Fertilizer may be applied in a manner consistent with product labeling and other routine practices at the facility as necessary to maintain healthy growth.

- g. Storage of Fertilizers, Herbicides and Pesticides - not applicable
- h. Pet Waste Management - not applicable
- i. Operations and Management of Septic Systems - not applicable
- j. Solid Waste Management
No solid waste can be dumped or stored around the UST, catch basins, oil/water separator, or surrounding vegetated areas. A solid waste dumpster is maintained on the asphalt driveway on the western portion of the driveway, away from the UST and stormwater conveyance system. Waste is placed into the dumpster, which is emptied routinely and prior to overfilling.
- k. Snow Disposal and Plowing Plans/Road Salting
All proper and responsible snow plowing practices shall be followed. Snow may be plowed onto vegetated areas bordering the gravel parking area, but may not be allowed to accumulate atop the UST or oil/water separator installations. Plowed snow piles shall not be allowed to extend down the bank of Nashoba Brook.
- l. Street Sweeping
At no time shall any sweeper be allowed to dump its collected sediment into the UST or stormwater conveyance system areas. Street sweeping is not performed within the facility itself.
- m. Prevention of Illicit Discharges
The routing of other drains or connections to the UST area or oil/water separator will not be allowed under any circumstances.
- n. Awareness Training
All staff and maintenance personnel are required to review this document to ensure that system integrity is upheld and that proper inspection and maintenance procedures are followed.

3.5.2 Treatment BMPs

The proposed 1,500-gallon oil/water separator has been designed to meet or exceed Clean Water Act discharge standards.

The proposed grass-lined swale is designed to attenuate flow velocity and remove contaminants from stormwater prior to discharge to the brook.

3.6 Standard 5: Land Uses with Higher Potential Pollutant Loads

The proposed project does not change land use, and thus does not create a land use with higher potential pollutant loads. Operations at the facility do not fall under National Pollutant Discharge Elimination System permitting requirements.

3.7 Standard 6: Critical Areas

Not applicable - the proposed project will not discharge to critical areas.

3.8 Standard 7: Projects Subject to the Standards only to the Maximum Extent Practicable

This project is a limited project and therefore subject to the Stormwater Management Standards only to the maximum extent practicable. Runoff from the project site can be considered an existing discharge.

3.9 Standard 8: Construction Period Pollution Prevention and Erosion and Sediment Control

During construction, erosion and sedimentation control will be provided by straw wattle barriers. The construction period BMPs will be in place prior to the start of construction activities and will not be removed until grass has rooted and stabilized conditions are established.

The straw wattle perimeters will be installed in vegetated areas surrounding all disturbed areas and preferentially parallel to the contour lines where possible. The straw wattles will be properly staked to ensure contact with the ground surface at all points. The locations of the proposed BMPs are shown on Sheet C-2.

The construction-period BMPs will be maintained by the contractor through all construction and site grading work, and for at least one month after grass is planted or until germination is evident, whichever is later. Thereafter, facility personnel will conduct bi-weekly inspections to verify continued grass growth and the integrity of erosion control barriers. Inspections will also be performed after any rainfall event of 0.1 inch or greater.

3.10 Standard 9: Operation and Maintenance Plan

Operation and maintenance of the site stormwater improvements is limited to the following:

- Implementation of the Long Term Pollution Prevention Plan described in Section 3.5.1 above.
- Completion of all required inspections.
- Maintenance of established grass growth, to include re-seeding and irrigation as necessary.
- Removal of woody vegetation.

- Proper operation of the UST system, to include adherence to all applicable regulatory compliance requirements.
- Filling and/or repair of rills, scour, or other areas of erosion.

Inspections of the system shall be performed weekly and following any large storm (5-year, 24-hour or greater). Items to observe during inspections are presented in the Long Term Pollution Prevention Plan described in Section 3.5.1(d). These actions will be incorporated into routine facility operations and landscape maintenance, and therefore will not cause an increase in costs.

3.11 Standard 10: Prohibition of Illicit Discharges

Because the stormwater management system proposed herein is limited to overland flow, there are limited opportunities for illicit discharges. Adjoining properties are in commercial use. Potential non-stormwater discharges are limited, therefore, to accidental spills, which will be managed in accordance with the spill response procedures outlined in Section 3.5.1(e) of this report.

FIGURE

APPENDIX A

Soil Data

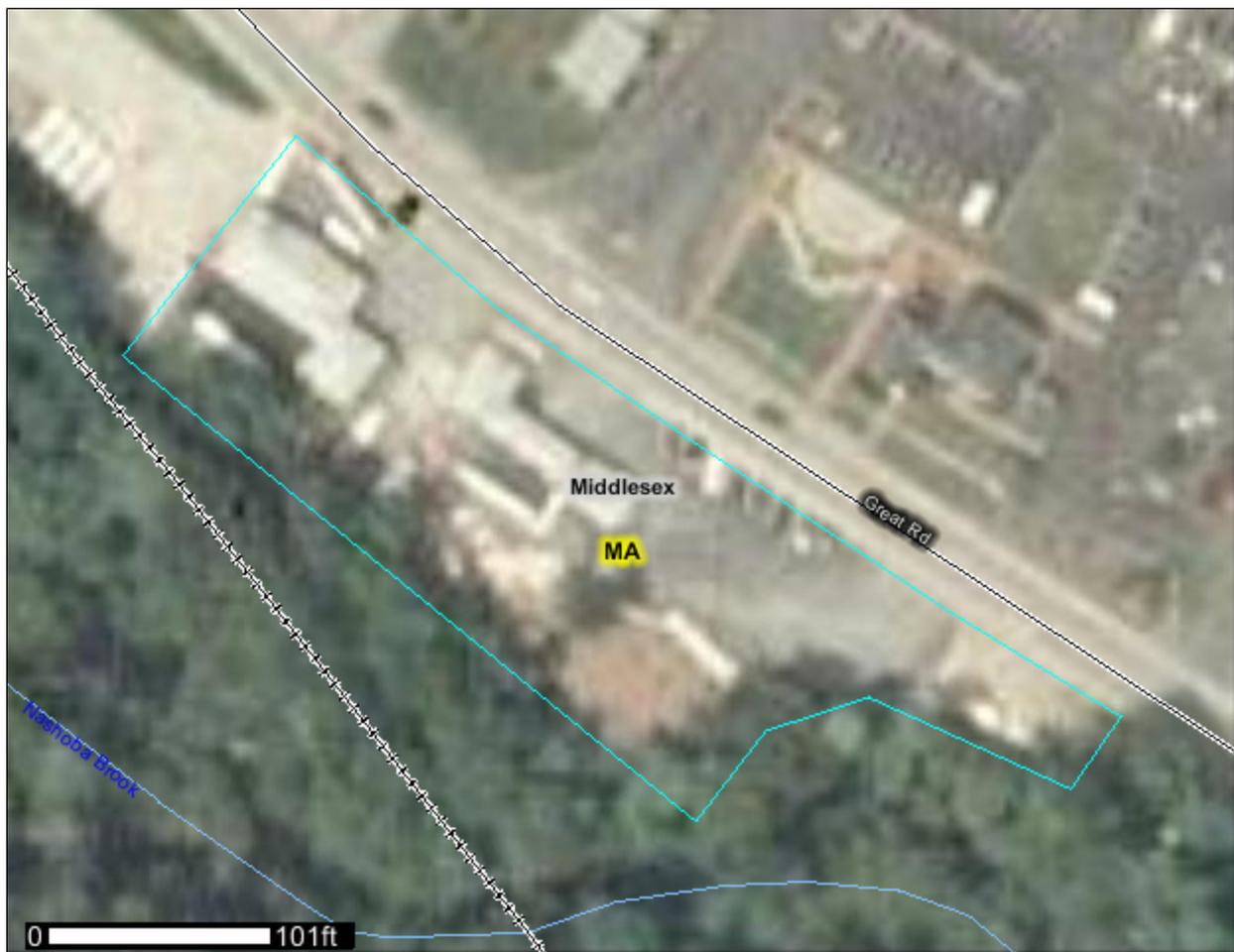


Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Middlesex County, Massachusetts

94 Great Road, Acton, MA



Custom Soil Resource Report Soil Map



Map Scale: 1:767 if printed on A size (8.5" x 11") sheet.



Map Unit Legend

Middlesex County, Massachusetts (MA017)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73B	Whitman fine sandy loam, 0 to 5 percent slopes, extremely stony	0.5	43.8%
626B	Merrimac-Urban land complex, 0 to 8 percent slopes	0.6	56.3%
Totals for Area of Interest		1.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If

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intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Middlesex County, Massachusetts

73B—Whitman fine sandy loam, 0 to 5 percent slopes, extremely stony

Map Unit Setting

Landscape: Hills, lake plains, uplands

Elevation: 0 to 2,100 feet

Mean annual precipitation: 45 to 54 inches

Mean annual air temperature: 43 to 54 degrees F

Frost-free period: 145 to 240 days

Map Unit Composition

Whitman and similar soils: 80 percent

Minor components: 20 percent

Description of Whitman

Setting

Landform: Depressions, drainageways

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Friable loamy eolian deposits over dense loamy lodgment till derived from granite and gneiss

Properties and qualities

Slope: 0 to 5 percent

Surface area covered with cobbles, stones or boulders: 9.0 percent

Depth to restrictive feature: 12 to 20 inches to dense material

Drainage class: Very poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.20 in/hr)

Depth to water table: About 0 to 6 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s

Hydrologic Soil Group: D

Typical profile

0 to 10 inches: Fine sandy loam

10 to 18 inches: Sandy loam

18 to 65 inches: Gravelly sandy loam

Minor Components

Ridgebury

Percent of map unit: 10 percent

Landform: Depressions, drainageways

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Concave

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Across-slope shape: Concave

Woodbridge

Percent of map unit: 7 percent

Landform: Hillslopes

Landform position (two-dimensional): Shoulder, toeslope, summit

Landform position (three-dimensional): Base slope, nose slope, head slope

Down-slope shape: Linear

Across-slope shape: Concave

Birdsall

Percent of map unit: 3 percent

Landform: Depressions, flats

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

626B—Merrimac-Urban land complex, 0 to 8 percent slopes

Map Unit Setting

Landscape: Hills, outwash plains, valleys

Elevation: 0 to 2,100 feet

Mean annual precipitation: 45 to 54 inches

Mean annual air temperature: 43 to 54 degrees F

Frost-free period: 145 to 240 days

Map Unit Composition

Urban land: 40 percent

Merrimac and similar soils: 40 percent

Minor components: 20 percent

Description of Merrimac

Setting

Landform: Terraces, plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Friable loamy eolian deposits over loose sandy glaciofluvial deposits derived from granite and gneiss

Properties and qualities

Slope: 0 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

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Available water capacity: Low (about 4.9 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 2s

Hydrologic Soil Group: A

Typical profile

0 to 9 inches: Fine sandy loam

9 to 18 inches: Gravelly sandy loam

18 to 26 inches: Very gravelly loamy coarse sand

26 to 33 inches: Stratified extremely gravelly coarse sand

33 to 65 inches: Stratified gravelly coarse sand

Description of Urban Land

Setting

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Excavated and filled land

Minor Components

Sudbury

Percent of map unit: 10 percent

Landform: Terraces, plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear

Across-slope shape: Concave

Windsor

Percent of map unit: 5 percent

Landform: Deltas, flats, terraces

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread, rise

Down-slope shape: Convex

Across-slope shape: Convex

Hinckley

Percent of map unit: 5 percent

Landform: Eskers, ridges, terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex