



NORSE ENVIRONMENTAL SERVICES, INC.
92 Middlesex Road, Unit 4
Tyngsboro, MA 01879
TEL. (978) 649-9932 • FAX (978) 649-7582
Website: www.norseenvironmental.com

NOTICE OF INTENT

FOR

30 MILL LANE

ASSESSORS MAP U35 PARCEL 25-0

LITTLETON, MA

APPLICANT: M & B INVESTMENTS LLC

AUGUST 2023

PROJECT: 30 MILL LANE - LITTLETON

APPLICANT: M & B INVESTMENTS LLC

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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

Littleton

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):

30 Mill Lane

a. Street Address

Latitude and Longitude:

Map U35

f. Assessors Map/Plat Number

Littleton

01460

b. City/Town

c. Zip Code

42.53379

-71.48265

d. Latitude

e. Longitude

Parcel 25-0

g. Parcel /Lot Number

2. Applicant:

William

a. First Name

M & B Investments LLC

c. Organization

31 Diamond Street

d. Street Address

North Chelmsford

e. City/Town

978-490-0575

h. Phone Number

i. Fax Number

LeTendre

b. Last Name

MA

f. State

01863

g. Zip Code

bletendre29@gmail.com

j. Email Address

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

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Maureen

Herald

a. First Name

b. Last Name

Norse Environmental Services, Inc.

c. Company

92 Middlesex Road, Unit 4

d. Street Address

Tyngsboro

MA

01879

e. City/Town

f. State

g. Zip Code

978-649-9932

mail@norseenv.com

h. Phone Number

j. Email address

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

\$500.00

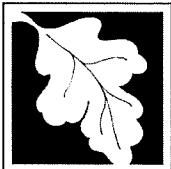
\$237.50

\$262.50

a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Proposing to raze a single family dwelling, abandon the existing septic system, construct a new single family dwelling with garage, deck, bulkhead, walkway, driveway, subsurface sewage disposal system, rooftop infiltration, driveway trench, grading and associated utilities within the 100 ft. Buffer Zone of a Bordering Vegetated Wetland.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

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

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration 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. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR 10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

S.E.R.D.

a. County

1599

c. Book

b. Certificate # (if registered land)

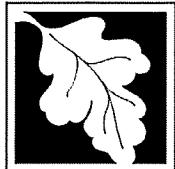
192

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.



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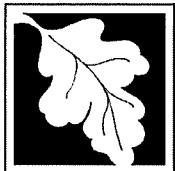
City/Town

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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
 <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) - specify coastal or inland	
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)		

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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

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
<u>Size of Proposed Alteration</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	
j. <input type="checkbox"/> Land Containing Shellfish	2. cubic yards dredged	
k. <input type="checkbox"/> Fish Runs	1. square feet	
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



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C. Other Applicable Standards and Requirements

This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

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:

2023
b. Date of map

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

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.2.f, 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).*

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

2. 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

* Some projects not in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/massachusetts-endangered-species-act-mesa-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)

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

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

(f) 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, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; 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

3. Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. 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, hand delivery, or electronic delivery of NOI to either:

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

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

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.

c. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

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

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

5. 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

6. 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

7. 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.

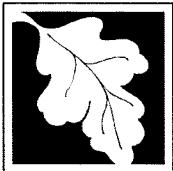
D. Additional Information

This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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.



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D. Additional Information (cont'd)

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.

Notice of Intent Plan

a. Plan Title

Land Engineering & Environmental Svcs. Inc.

b. Prepared By

August 17, 2023

d. Final Revision Date

Douglas Lees

c. Signed and Stamped by

1 =20'

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:

Town of Littleton Check #1389

8/16/2023

2. Municipal Check Number

3. Check date

Commonwealth of MA Check #1388

8/16/2023

4. State Check Number

5. Check date

William

LeTendre

6. Payor name on check: First Name

7. Payor name on check: Last Name



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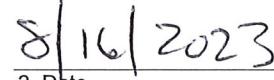
F. Signatures and Submittal Requirements

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.

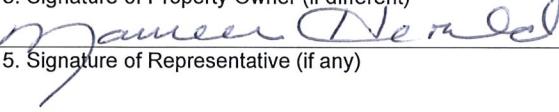


1. Signature of Applicant



2. Date

3. Signature of Property Owner (if different)



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
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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:

30 Mill Lane
a. Street Address
Check #1388
c. Check number

Littleton
b. City/Town
\$237.50
d. Fee amount

2. Applicant Mailing Address:

William
a. First Name
M & B Investments LLC
c. Organization
31 Diamond Street
d. Mailing Address
North Chelmsford
e. City/Town
978-490-0575
h. Phone Number

LeTendre
b. Last Name
MA
f. State
01863
g. Zip Code
bletendre29@gmail.com
j. Email Address

3. Property Owner (if different):

a. First Name
c. Organization
d. Mailing Address
e. City/Town
h. Phone Number

b. Last Name
f. State
g. Zip Code
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.



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

B. Fees (continued)

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

Modified for Covid-19 Emergency Response

Notice of Intent or abbreviated Notice of Resource Area Delineation

Under MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and mailed, certified mail return receipt requested, to all abutters at their mailing addresses shown on the most recent Town Assessor's records as well as the owner (if not applicant).

In accordance with the MA Wetlands Protection Act and Littleton Wetlands Protection ByLaw Chapter 171-2D, you are hereby notified of a public hearing on the matter described below:

- A. The applicant has filed a Notice of Intent with the Littleton Conservation Commission for work in an area subject to protection under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw.
- B. The name of the applicant is M & B Investments LLC
- C. The address of the land where the activity is proposed is 30 Mill Lane
- D. The work proposed is raze a single family dwelling, abandon the septic system, construct a new single family dwelling with garage, deck, bulkhead, walkway, driveway, subsurface sewage disposal system, rooftop infiltration, driveway trench, grading and associated utilities the 100 ft. Buffer Zone.
- E. Due to the Commonwealth and Town of Littleton's Covid-19 Emergency Response, it is anticipated that paper copies of the Notice of Intent will not be available for inspection. Copies of the Notice of Intent may be examined at the Conservation Commission webpage at <https://www.littletonma.org/conservation>, under "Conservation Calendar" at least 48 hours before the meeting. If you click on the day of the meeting in the Calendar, you will be lead to a link showing posted project information. If you have questions you can contact the Littleton Conservation Commission (contact information at the end of this notice).
- F. Due to the Commonwealth and Town of Littleton's Covid-19 Emergency Response, it is anticipated that paper copies of the Notice of Intent will not be available for distribution. Copies of the Notice of Intent may be obtained electronically from (check one) the applicant or the applicant's representative by calling 978 - 649 - 9932 during the following times: Monday-Thursday 8:00 am - 6:00 pm/Friday till Noon.
- G. The public hearing will be held on 9/5/23. Information regarding the date and time of the public hearing may be obtained from the Littleton Conservation Commission (see contact info at the end of this notice).

H. Notice of the public hearing, including date, will be published at least five business days in advance in a paper of local circulation. The agenda, noting times will be posted at Town Hall and at <https://www.littletonma.org/conservation> under "Conservation Calendar" at least 48 hours in advance of the meeting. It is currently anticipated that this meeting will be held entirely remotely, pursuant to Governor Baker's March 12, 2020 Order Suspending Certain Provisions of the Open Meeting Law and Governor Baker's March 15, 2020 Order imposing strict limitations on the number of people that may gather in one place. If the meeting is held remotely, instructions for remote viewing of, and participation in, the meeting will be included in the agenda and may also be obtained from the Littleton Conservation Commission.

You may contact the Littleton Conservation Commission Coordinator (Amy Green; agreen@littletonma.org; 978-540-2428), or the Massachusetts Department of Environmental Protection/ Central Region (508-792-7650) at 8 New Bond Street, Worcester, MA 01606) for information about this application



**TOWN OF LITTLETON
BOARD OF ASSESSORS**

P.O. BOX 1305
LITTLETON, MA 01460
(978) 540-2410
FAX: (978) 952-2321

Date: August 15, 2023

Re: Certified List of Abutters Conservation Commission

Applicant: William LeTendre
Name of Firm: M & B Investments LLC
Mailing Address 31 Diamond Street, No. Chelmsford, MA 01863

Subject Parcel Location: 30 Mill Lane

Subject Parcel No.: U35 25 0

Subject Owner Name: M & B Investments

M.G.L. Chapter 131: Section 40 "Any person filing a notice of intention with a conservation commission shall at the same time give written notification thereof, by delivery in hand or certified mail, return receipt requested, to all abutters within one hundred feet of the property line of the land where the activity is proposed, but not limited to, owners of land directly opposite said proposed activity on any public or private street or way, and in another municipality or across a body of water. When a notice of intent proposes activities on land under water bodies and waterways or on a tract of land greater than 50 acres, written notification shall be given to all abutters within 100 feet of the proposed project site. For the purposes of this action, "project site" shall mean lands where the following activities are proposed to take place: dredging, excavating, filling, grading, the erection, reconstruction or expansion of a building or structure, the driving of pilings, the construction or improvement of roads or other ways and the installation of drainage, sewerage and water systems, and "land under water bodies and waterways" shall mean the bottom of, or land under, the surface of the ocean or an estuary, creek, river stream, pond or lake. When a notice of intent proposes activity on a linear shaped project site longer than 1,000 feet in length, notification shall be given to all abutters within 1,000 feet of the proposed project site. If the linear project site takes place wholly within an easement through another person's land, notice shall also be given to the landowner. Said notification shall be at the applicant's expense, and shall state where copies of the notice of intention may be examined and obtained and where information regarding the date, time and place of the public hearing may be obtained. Proof of such notification, with a copy of the notice mailed or delivered, shall be filed with the conservation commission."

I hereby certify the attached list of abutter (s) as stated in the M.G.L. Chapter 131, Section 40.

Number of Abutter(s) 8 including the subject parcels + 1 Applicant Requesting Abutter's List.

Certified by:

April Iannacone, Assistant Assessor

26 MILL LN U35 24 0
LUC: 101

RIGOLI BEVERLY A

26 MILL LN
LITTLETON, MA 01460

30 MILL LN U35 25 0
LUC: 101

M&B INVESTMENTS LLC

31 DIAMOND ST
NORTH CHELMSFORD, MA 01863

34 MILL LN U35 26 0
LUC: 101

FREDETTE ANDRE B

34 MILL LN
LITTLETON, MA 01460

121 MILL RD U35 29 0
LUC: 101

FRANZEK JR JOSEPH E

FRANZEK CYNTHIA L

121 MILL RD
LITTLETON, MA 01460

MILL RD U35 30 0
LUC: 932

LITTLETON TOWN OF

CONSERVATION COMM.

PO BOX 1305

LITTLETON, MA 01460

35 MILL LN U35 32 0
LUC: 101

SCHOCKLIN MARK A

SCHOCKLIN ELIZABETH L

35 MILL LANE

LITTLETON, MA 01460

31 MILL LN U35 33 0
LUC: 101

DAVIS DONALD J

DAVIS ELAINE E

31 MILL LN

LITTLETON, MA 01460

27 MILL LN U35 34 0
LUC: 101

ZABOROWSKI FRANCIS R

ZABOROWSKI TERESE M

27 MILL LN

LITTLETON, MA 01460

AFFIDAVIT OF SERVICE

Under Massachusetts Wetlands Protection Act and the Littleton Wetlands Protection ByLaw (Chapter 171), this form must be completed and submitted with the Notice of Intent or Abbreviated Notice of Resource Area Delineation.

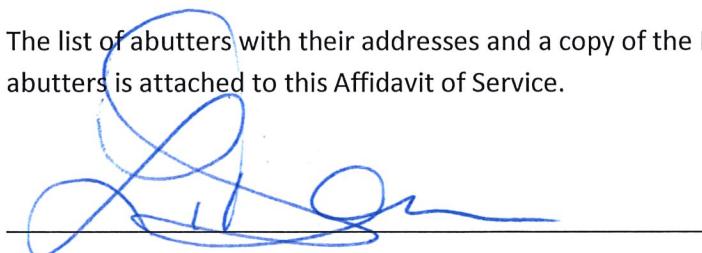
I, Liz Deneu (name of applicant or representative) certify under the pains and penalties of perjury that on August 21, 2023 (date) I gave notification to abutters in compliance with the second paragraph of the Massachusetts General Laws Chapter 131, Section 40, DEP requirements for Abutter Notification and with the Littleton Wetlands ByLaw 171-2.D in connection with the following matter:

A (choose one of below)

Abbreviated Notice of Resource Area Delineation
 Request for Determination of Applicability
 Abbreviated Notice of Intent
 Notice of Intent
 Request for Amended Order of Conditions

has been filed under the Massachusetts Wetlands Protection Act and Littleton Wetlands Protection ByLaw by M & B Investments LLC (name of applicant) with the Littleton Conservation Commission on 8/21/2023 (date) for the property located at 30 Mill Lane (address of land where work is proposed).

The list of abutters with their addresses and a copy of the Notification Abutter form as sent to the abutters is attached to this Affidavit of Service.



Name

Date

8-21-23



NORSE ENVIRONMENTAL SERVICES, INC.
92 Middlesex Road, Unit 4
Tyngsboro, MA 01879
TEL. (978) 649-9932 • FAX (978) 649-7582
Website: www.norseenvironmental.com

Notice of Intent Report

For

**30 Mill Lane
Littleton, MA**

Prepared For

M & B Investments LLC
31 Diamond Street
North Chelmsford, MA 01863

Prepared By

Norse Environmental Services, Inc.
92 Middlesex Road, Unit 4
Tyngsboro, MA 01879

August 2023

Narrative

The applicant is proposing to raze a single family dwelling, abandon the existing septic system, construct a new single family dwelling with garage, deck, bulkhead, walkway, driveway, subsurface sewage disposal system, rooftop infiltration, driveway trench, grading and associated utilities within the 100 ft. Buffer Zone of a Bordering Vegetated Wetland. Erosion controls will be set and maintained for the duration of the project.

Site Description

The site consists of 15,685 +/- s.f. of land located westerly on Mill Lane in Littleton, MA. A dilapidated single family dwelling, decks, walkway, driveway, septic system and fencing are located on the property. The parcel is overgrown with lawn, shrubs and trees.

A bordering vegetated wetland located on the adjacent property is flagged in the field and labeled on the plan as WF-1BVW – WF-3BVW and WF 1A -WF 2A. The wetland is a red maple swamp consisting of norway maple (*Acer platanoides*), red maple (*Acer rubrum*), glossy buckthorn (*Rhamnus frangula*) and cinnamon fern (*Osmunda cinnamomea*).

Soils

The Middlesex County Soil Survey maps this site as Charlton-Hollis-Rock outcrop complex. Charlton-Hollis-Rock outcrop complex consists of well drained Charlton soils, somewhat excessively drained Hollis soils and rock outcrops, that occur in such intricate patterns on the landscape, that it is not practical to separate them at the scale of mapping. Generally, these areas consist of about 50 percent Charlton soils, 15 percent Hollis soils, 10 percent rock outcrop and 25 percent other soils. Major limitations are related to rockiness and slope, and depth to bedrock in the Hollis soil.

310 CMR 10.03: General Provisions: Buffer Zone

(1) Burden of Proof

(a) Any person who files a Notice of Intent to perform any work within an Area Subject to Protection under M.G.L. c. 131, § 40 or within the Buffer Zone has the burden of demonstrating to the issuing authority:

1. that the area is not significant to the protection of any of the interests identified in

M.G.L. c. 131, § 40; or

2. that the proposed work within a resource area will contribute to the protection of the interests identified in M.G.L. c. 131, § 40 by complying with the general performance standards established by 310 CMR 10.00 for that area.

The proposed work within the 100 ft. Buffer Zone will contribute to the protection of the interests identified in M.G.L. c. 131, § 40 by complying with the general performance standards established by 310 CMR 10.00 for the area. No work is proposed within the wetland.

3. that proposed work within the buffer zone will contribute to the protection of the interests identified in M.G.L. c. 131, § 40, except that proposed work which lies both within the riverfront area and within all or a portion of the buffer zone to another resource area shall comply with the performance standards for riverfront areas at 310 CMR 10.58. For minor activities as specified in 310 CMR 10.02(2)b.1. within the riverfront area or the buffer zone to another resource area, the Department has determined that additional conditions are not necessary to contribute to the protection of the interests identified in M.G.L. c. 131, § 40.

The project complies with 310 CMR 10.00 The Massachusetts Wetland Protection Act.

TOWN OF LITTLETON WETLAND PROTECTION REGULATIONS
SECTION 4
PERFORMANCE STANDARDS AND RESTRICTIONS

4.1 SEQUENCE OF CONSTRUCIONS

The Applicant shall provide a detailed sequence of construction to the Commission in the Application as part of the standard filing requirements. Said sequence shall be followed by the Applicant, unless amended and approved by the Commission.

Please see Plan for the Construction Sequence.

4.2 WETLAND SETBACKS FOR NEW ACTIVITIES AND STRUCTURES

(1) In order to fulfill the purpose of the Bylaw, new activities and structures in Areas Subject to Protection or Buffer Zones shall be avoided to the extent practicable. Any such activities that are permitted shall be restricted as set forth within this Section. Minor activities in the Buffer Zone that require no filing under the MassDEP Regulations (as set forth in 310 CMR 10.02(2)(b)(1) and (2) of the MassDEP Regulations) shall require no filing under these Regulations, pursuant to Section 171-6 of the Bylaw.

(2) In the judgment of the Commission, any new activity (other than travel by foot or non-motorized vehicle or removal of invasive vegetation using proper methods) or structure within 50 feet of a Bank or BVW is likely to alter the Bank or BVW. No new

activity or structure (other than the aforesaid travel or removal of invasive vegetation) shall be allowed within the No-Disturbance Area(s) set forth below except under a Waiver as provided in Section 1.4 of these Regulations (or as otherwise provided in these Regulations). This is the minimum distance for the No-Disturbance Area; the distance may be extended further by the Commission if deemed necessary for the protection of the Interests of the Bylaw, up to the outer extent of the Buffer Zone as established in the Bylaw.

- a) No-Disturbance Area: This is any area within the BVW or Bank and the first 50 feet of the Buffer Zone from BVW or Bank. No activities or work is permitted other than passive (foot or non-motorized vehicle) passage and removal of invasive vegetation if done in compliance with these Regulations. Except as noted, no vegetation may be disturbed, and the area should remain unchanged from its pre-project state.
- b) Marking the No-Disturbance Area: The commission may require the limits of No Disturbance be marked prior to construction.

The existing septic system is located within lawn area and the 50 ft. No-Disturbance. The applicant is requesting a waiver to abandon the existing septic system located within the 50 ft. No-Disturbance Area, grade and maintain as lawn. The new system is proposed further away from the resource area and outside the 50 ft. No-Disturb setback.

4.3 PERFORMANCE STANDARDS FOR WORK IN THE BUFFER ZONE

The Commission shall begin with the presumption that lands within the Buffer Zone are best left in an undisturbed and natural state to protect the adjacent Area Subject to Protection. Any activity allowed within the Buffer Zone shall be conditioned as necessary to meet the following performance standards:

- (1) The activity shall not significantly impair the values and functions of the adjacent Areas Subject to Protection. The quantity and quality of resource values and functions, as well as pre-project conditions, such as ground slope, soil conditions, vegetation, and prior disturbance of the site should be considered explicitly in making this determination. Any offsetting mitigation provided shall also be considered, including the inclusion of pedestrian and bicycle access rights-of-way in the project (which can reduce the pollutant runoff and climate change contribution associated with the project.)

The activity shall not impair the values and functions of the resource area located on the adjacent property. The project proposes rooftop infiltration, driveway infiltration and erosion controls into the design.

- (2) The amount of net additional impervious coverage created in the Buffer Zone shall be minimized to the extent feasible (including by use of pervious alternatives).

The existing impervious in the Buffer Zone is 1,340 s.f. The project proposes 2,060 s.f. in the Buffer Zone or 720 s.f. new impervious. The applicant is proposing rooftop and driveway infiltration to mitigate for the additional impervious area.

(3) Land owners shall minimize application of fertilizers containing nitrogen and phosphorus, other than for agricultural uses.

The land owner shall minimize application of fertilizers containing nitrogen and phosphorus to maintain the lawn area.

4.5 WETLAND SETBACKS FOR EXISTING STRUCTURES AND ACTIVITIES

Work associated with pre-existing structures or activities (in place prior to August 8, 2016) not presently in compliance with Section 4.2 may not increase the degree of "non-conformance" of those structures or activities.

The existing septic system is located within the 50 ft. No Disturbance in an area of lawn. The applicant is requesting a waiver to abandon the existing septic system, grade and maintain this area as lawn.

4.7 EROSION PREVENTION

Installation of a siltation barrier between the proposed Limit of Work and the remaining Buffer Zone is required to prevent sediment-laden runoff from entering Areas Subject to Protection. Such sediments shall be removed and siltation barriers monitored and replaced when deemed necessary by the Commission or its agent. In addition, soil stabilization of disturbed areas is required to minimize migration of soil to and beyond said siltation barriers.

Straw wattle erosion controls are proposed at the limit of work to protect the resource area. Any sediment shall be removed, monitored and replaced when necessary for the duration of the project.

4.8 EROSION PREVENTION INSTALLATION

Proposed location of the siltation barriers (e.g., silt fencing, wattles, and/or strawbales) and soil stabilization method(s) shall be shown on the Plan submitted in the application. Erosion prevention devices shall be installed prior to the commencement of Activities on the site. The Commission requires erosion prevention installation standards as defined in: Erosion and Sedimentation Control Standards, Middlesex Conservation District.

See plan for straw wattles location and detail. Erosion controls shall be installed prior to commencement of the project.

4.10 CONSTRUCTION DEBRIS

There shall be no disposal or burial of construction debris (i.e. scrap lumber, metals, concrete, asphalt, piping, logs, stumps, etc.) within the Buffer Zone unless approved by the Commission under the filing. Illegal disposal of said debris shall result in a stop work

order, fine, required removal of said debris, or all of the above. The Commission may allow the creation of a spoils area, which would be required to be designated on the project Plans, if it will not harm Areas Subject to Protection.

No disposal or burial of construction debris shall take place within the Buffer Zone. The applicant is proposing a stockpile area outside the 100 ft. Buffer Zone.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 30 Mill Lane City/County: Littleton/Middlesex Sampling Date: 8/16/23
 Applicant/Owner: William LeTendre State: MA Sampling Point: SP-1
 Investigator(s): Norse Environmental Services, Inc. Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): 3-8%
 Subregion (LRR or MLRA): LRR R Lat: 42.53379 Long: -71.48265 Datum: NAD83
 Soil Map Unit Name: Charlton-Hollis-Rock outcrop NWI classification: PFO1
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: (Explain alternative procedures here or in a separate report.) BVW is located at the edge of historical fill			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)	
X Sparsely Vegetated Concave Surface (B8)		Microtopographic Relief (D4)	
		FAC-Neutral Test (D5)	

Field Observations:			
Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____
(includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION – Use scientific names of plants.

Sampling Point: SP-1

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)			
1. <i>Acer platanoides</i>	30	Yes	UPL				
2. <i>Acer rubrum</i>	20	Yes	FAC				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
50 =Total Cover							
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____			
1. <i>Rhamnus frangula</i>	20	Yes	FAC				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
20 =Total Cover							
<u>Herb Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% _____ 3 - Prevalence Index is $\leq 3.0^1$ _____ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. <i>Osmundastrum cinnamomeum</i>	10	Yes	FACW				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
5. _____	_____	_____	_____				
6. _____	_____	_____	_____				
7. _____	_____	_____	_____				
8. _____	_____	_____	_____				
9. _____	_____	_____	_____				
10. _____	_____	_____	_____				
11. _____	_____	_____	_____				
12. _____	_____	_____	_____				
10 =Total Cover							
<u>Woody Vine Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.			
1. _____	_____	_____	_____				
2. _____	_____	_____	_____				
3. _____	_____	_____	_____				
4. _____	_____	_____	_____				
=Total Cover							
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A)
- Black Histic (A3)
- Hydrogen Sulfide
- Stratified Layers
- X Depleted Below D
- Thick Dark Surface
- Sandy Mucky M
- Sandy Gleyed M
- Sandy Redox (S5)
- Stripped Matrix (S)
- Dark Surface (S7)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

Ye

No

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 30 Mill Lane City/County: Littleton/Middlesex Sampling Date: 8/16/23
 Applicant/Owner: William LeTendre State: MA Sampling Point: SP-2
 Investigator(s): Norse Environmental Services, Inc. Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): 3-8%
 Subregion (LRR or MLRA): LRR R Lat: 42.53379 Long: -71.48265 Datum: NAD83
 Soil Map Unit Name: Charlton-Hollis-Rock outcrop NWI classification: PF01
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>	If yes, optional Wetland Site ID: _____		
Remarks: (Explain alternative procedures here or in a separate report.)					

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)					
Surface Water (A1)	Water-Stained Leaves (B9)				Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)				Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)				Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)				Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)				Crayfish Burrows (C8)
Drift Deposits (B3)	Presence of Reduced Iron (C4)				Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)				Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Thin Muck Surface (C7)				Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)				Shallow Aquitard (D3)
Sparingly Vegetated Concave Surface (B8)					Microtopographic Relief (D4)
					FAC-Neutral Test (D5)
Field Observations:					
Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____		
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____		
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

VEGETATION – Use scientific names of plants.

Sampling Point: SP-2

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer platanoides</u>	<u>40</u>	Yes	UPL
2. <u>Acer rubrum</u>	<u>20</u>	Yes	Fac
3.			
4.			
5.			
6.			
7.			
	<u>60</u>	=Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15</u>)			
1. <u>Rhamnus frangula</u>	<u>10</u>	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	<u>10</u>	=Total Cover	
Herb Stratum (Plot size: <u>5</u>)			
1. <u>Osmundastrum cinnamomeum</u>	<u>10</u>	Yes	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	<u>10</u>	=Total Cover	
Woody Vine Stratum (Plot size: <u> </u>)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)Total Number of Dominant Species Across All Strata: 4 (B)Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: _____ Multiply by: _____

OBL species _____ x 1 = _____

FACW species _____ x 2 = _____

FAC species _____ x 3 = _____

FACU species _____ x 4 = _____

UPL species _____ x 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is $\leq 3.0^1$
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problems with Hydrophytic Vegetation¹ (Explain)¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

Histosol (A1)	Polyvalue Below Surface
Histic Epipedon (A2)	MLRA 149B)
Black Histic (A3)	Thin Dark Surface (S9)
Hydrogen Sulfide (A4)	High Chroma Sands (S)
Stratified Layers (A5)	Loamy Mucky Mineral (
Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F
Thick Dark Surface (A12)	Depleted Matrix (F3)
Sandy Mucky Mineral (S1)	Redox Dark Surface (F
Sandy Gleyed Matrix (S4)	Depleted Dark Surface
Sandy Redox (S5)	Redox Depressions (F8
Stripped Matrix (S6)	Marl (F10) (LRR K, L)
Dark Surface (S7)	

Indicators for Problematic Hydric Soils³:

- ____ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- ____ Coast Prairie Redox (A16) (LRR K, L, R)
- ____ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- ____ Polyvalue Below Surface (S8) (LRR K, L)
- ____ Thin Dark Surface (S9) (LRR K, L)
- ____ Iron-Manganese Masses (F12) (LRR K, L, R)
- ____ Piedmont Floodplain Soils (F19) (MLRA 149B)
- ____ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- ____ Red Parent Material (F21)
- ____ Very Shallow Dark Surface (TF12)
- ____ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present?

Yes

No X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 30 Mill Lane City/County: Littleton/Middlesex Sampling Date: 8/16/23
 Applicant/Owner: William LeTendre State: MA Sampling Point: SP-2
 Investigator(s): Norse Environmental Services, Inc. Section, Township, Range: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): 3-8%
 Subregion (LRR or MLRA): LRR R Lat: 42.53379 Long: -71.48265 Datum: NAD83
 Soil Map Unit Name: Charlton-Hollis-Rock outcrop NWI classification: PF01
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____	No <u>X</u>	Yes _____
Wetland Hydrology Present?	Yes _____	No <u>X</u>	If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Crayfish Burrows (C8)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Geomorphic Position (D2)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Shallow Aquitard (D3)	
Sparingly Vegetated Concave Surface (B8)		Microtopographic Relief (D4)	
		FAC-Neutral Test (D5)	

Field Observations:			
Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present?	Yes _____	No <u>X</u>	Depth (inches): _____
(includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION – Use scientific names of plants.

Sampling Point: SP-2

<u>Tree Stratum</u> (Plot size: <u>30</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>4</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)</p>																	
1. <u>Acer platanoides</u>	<u>40</u>	<u>Yes</u>	<u>UPL</u>																		
2. <u>Acer rubrum</u>	<u>20</u>	<u>Yes</u>	<u>Fac</u>																		
3. _____	_____	_____	_____																		
4. _____	_____	_____	_____																		
5. _____	_____	_____	_____																		
6. _____	_____	_____	_____																		
7. _____	_____	_____	_____																		
				<u>60</u>	=Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<p>Prevalence Index worksheet:</p> <table border="0"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>x 1 =</td> </tr> <tr> <td>FACW species</td> <td>x 2 =</td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> </tr> <tr> <td>FACU species</td> <td>x 4 =</td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> </tr> <tr> <td>Column Totals: <u>(A)</u></td> <td><u>(B)</u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> </tr> </tbody> </table>		Total % Cover of:	Multiply by:	OBL species	x 1 =	FACW species	x 2 =	FAC species	x 3 =	FACU species	x 4 =	UPL species	x 5 =	Column Totals: <u>(A)</u>	<u>(B)</u>	Prevalence Index = B/A =	
Total % Cover of:	Multiply by:																				
OBL species	x 1 =																				
FACW species	x 2 =																				
FAC species	x 3 =																				
FACU species	x 4 =																				
UPL species	x 5 =																				
Column Totals: <u>(A)</u>	<u>(B)</u>																				
Prevalence Index = B/A =																					
1. <u>Rhamnus frangula</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																		
2. _____	_____	_____	_____																		
3. _____	_____	_____	_____																		
4. _____	_____	_____	_____																		
5. _____	_____	_____	_____																		
6. _____	_____	_____	_____																		
7. _____	_____	_____	_____																		
				<u>10</u>	=Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5</u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<p>Hydrophytic Vegetation Indicators:</p> <ul style="list-style-type: none"> — 1 - Rapid Test for Hydrophytic Vegetation — 2 - Dominance Test is >50% — 3 - Prevalence Index is $\leq 3.0^1$ — 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <p>— Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p>																	
1. <u>Osmundastrum cinnamomeum</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																		
2. _____	_____	_____	_____																		
3. _____	_____	_____	_____																		
4. _____	_____	_____	_____																		
5. _____	_____	_____	_____																		
6. _____	_____	_____	_____																		
7. _____	_____	_____	_____																		
8. _____	_____	_____	_____																		
9. _____	_____	_____	_____																		
10. _____	_____	_____	_____																		
11. _____	_____	_____	_____																		
12. _____	_____	_____	_____																		
				<u>10</u>	=Total Cover																
<u>Woody Vine Stratum</u> (Plot size: <u> </u>)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<p>Definitions of Vegetation Strata:</p> <p>Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.</p> <p>Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vines – All woody vines greater than 3.28 ft in height.</p>																	
1. _____	_____	_____	_____																		
2. _____	_____	_____	_____																		
3. _____	_____	_____	_____																		
4. _____	_____	_____	_____																		
						<u>Total Cover</u>															

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic Vegetation Present? Yes No

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- High Chroma Sands (S11) (LRR K, L)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR K, L)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

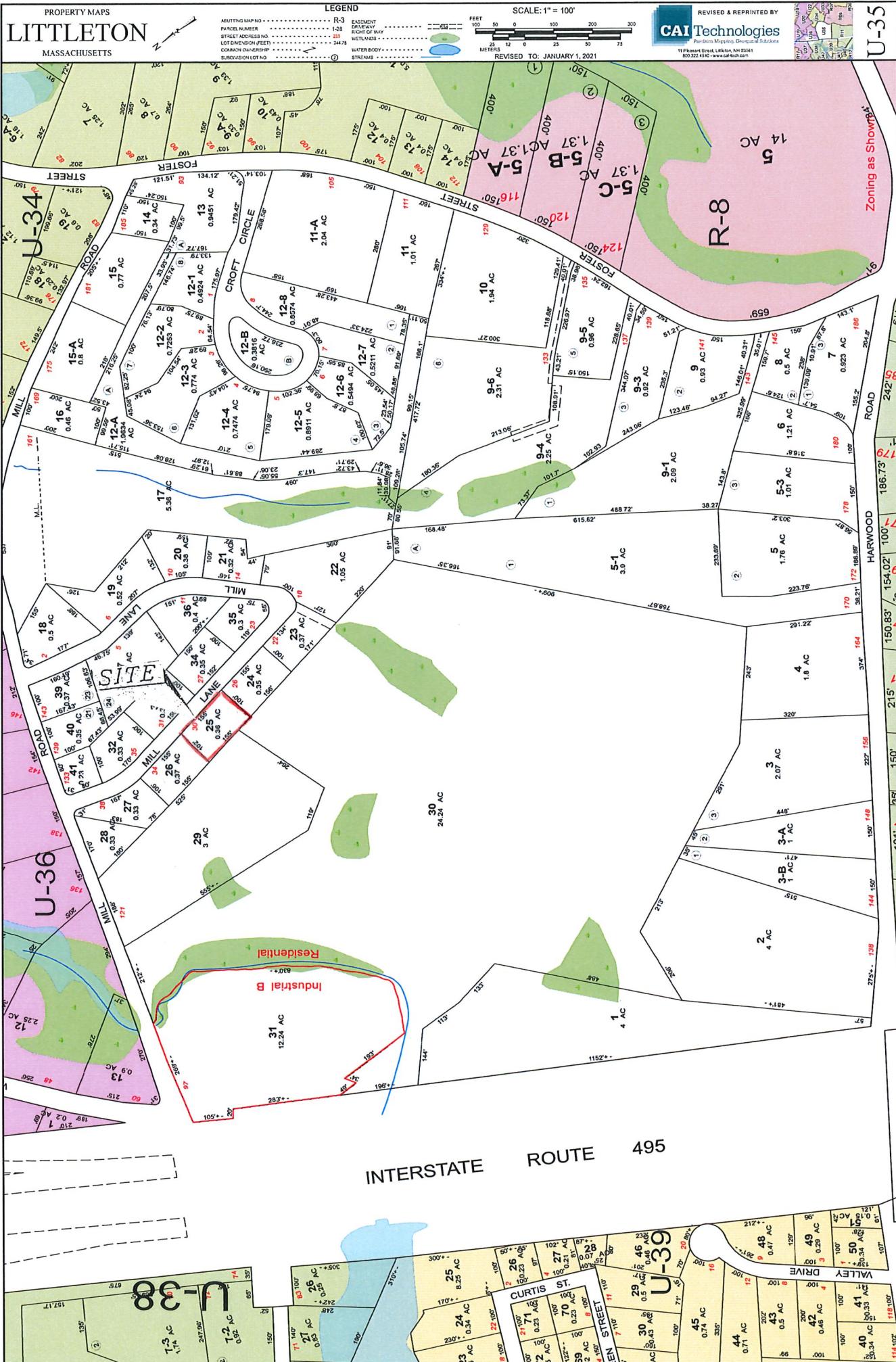
Type:

Depth (inches):

Hydric Soil Present?

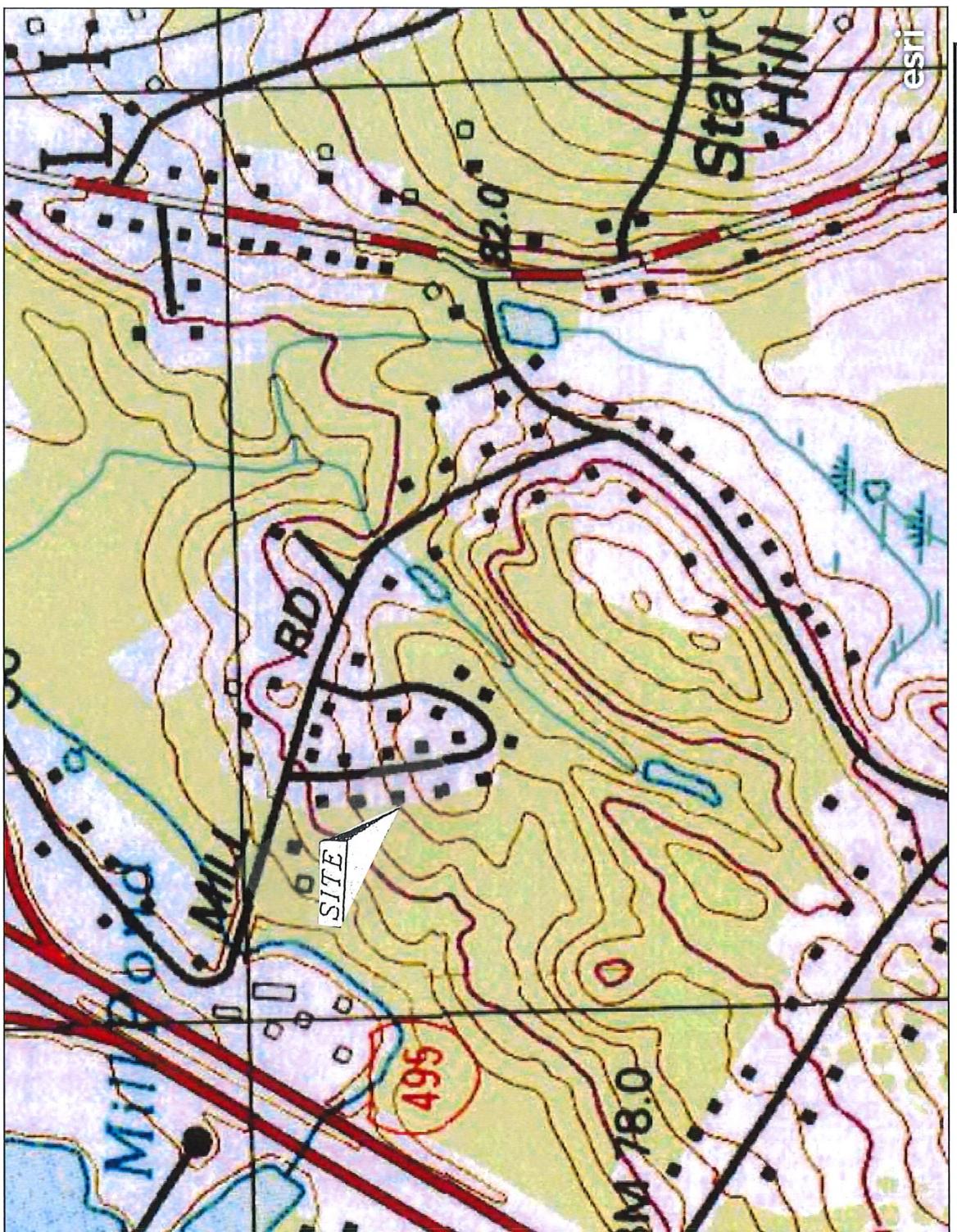
Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)



USGS Topographic Quadrangle Maps

No legend

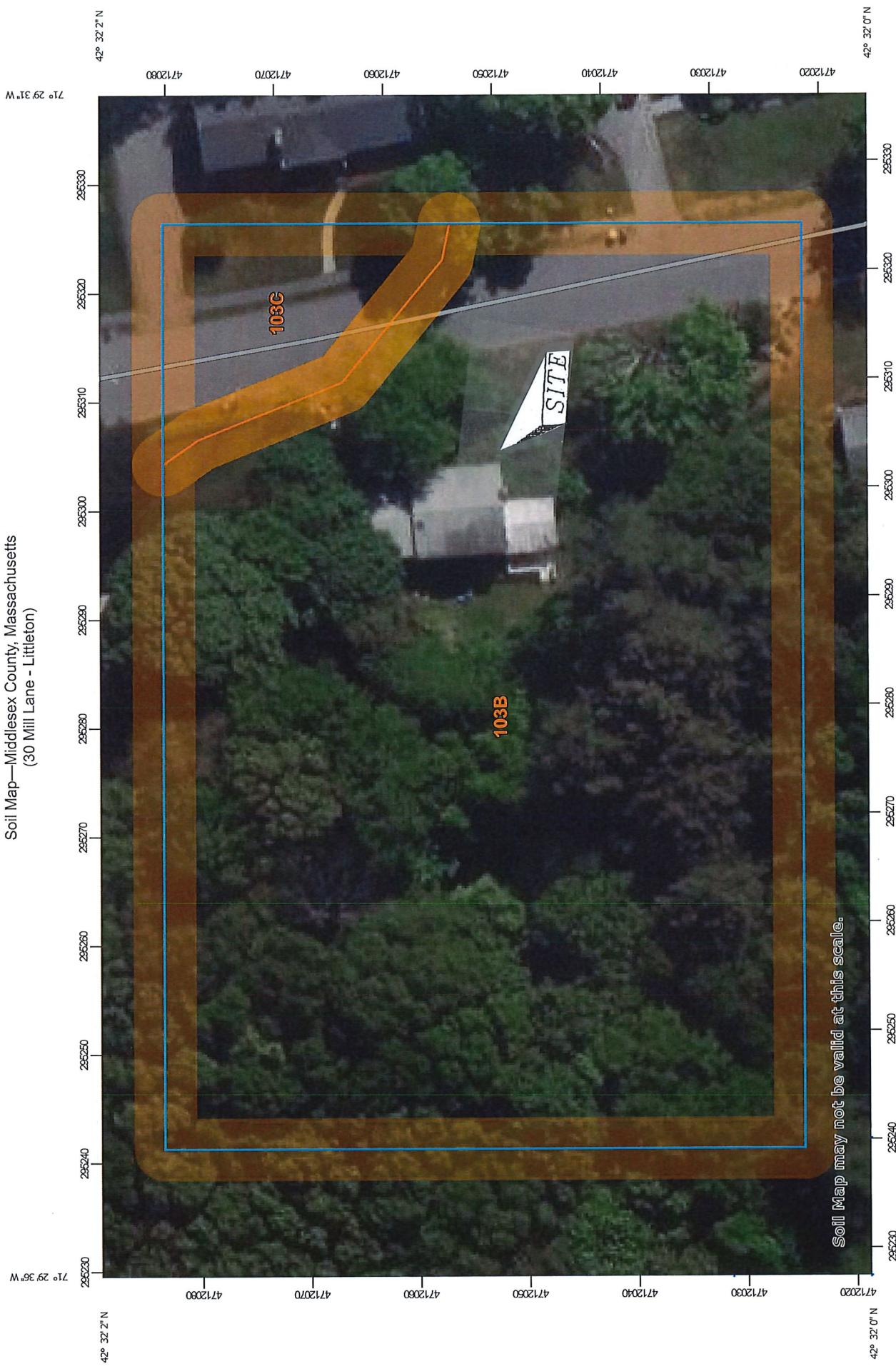


USGS 1:25,000 Topographic Maps for Massachusetts. Scanned map images published as a tile service by MassGIS at ArcGIS Online.

USGS, MassGIS

600ft

Soil Map—Middlesex County, Massachusetts
(30 Mill Lane - Littleton)



Soil Map may not be valid at this scale.

Map Scale: 1:497 if printed on A4 landscape (11" x 8.5") sheet.

Map projection: Web Mercator
Corner coordinates: WGS84
Elevation: 1000 feet (304.8 meters)
UTM Zone: 19N WGS84

TE.6

102

10

1

Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

8/14/2023
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)
Soils		Soil Map Unit Polygons
		Soil Map Unit Lines
		Soil Map Unit Points
Special Point Features		Blowout
		Borrow Pit
		Clay Spot
		Closed Depression
		Gravel Pit
		Gravelly Spot
		Landfill
		Lava Flow
		Marsh or swamp
		Mine or Quarry
		Miscellaneous Water
		Perennial Water
		Rock Outcrop
		Saline Spot
		Sandy Spot
		Severely Eroded Spot
		Sinkhole
		Slide or Slip
		Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Middlesex County, Massachusetts
Survey Area Date: Version 22, Sep 9, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 22, 2022—Jun 5, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
103B	Charlton-Hollis-Rock outcrop complex, 3 to 8 percent slopes	1.1	92.4%
103C	Charlton-Hollis-Rock outcrop complex, 8 to 15 percent slopes	0.1	7.6%
Totals for Area of Interest		1.2	100.0%

30 Mill Lane - Littleton

