New England Environmental Design, LLC

P.O. Box 376, Rutland, MA 01543 Phone: (508) 829-7222 Email: needllc@hotmail.com

TOWN OF LEICESTER
CONSERVATION COMMISSION
7 WASHBURN SQUARE
LEICESTER, MA 01524

ENCLOSED PLEASE FIND THE NOTICE OF INTENT FOR:
434 MULBERRY, LLC
16 GAY ST
ARLINGTON, MA 02474

PROJECT LOCATION: 434 MULBERRY ST
LEICESTER, MA 01524
JOB# 19125-23

BELOW IS A LIST OF ALL PLANS & OTHER MATERIALS SUBMITTED WITH THE 434 MULBERRY, LLC/ 434 MULBERRY ST NOTICE OF INTENT:

- REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM
- NOTICE OF INTENT FEE TRANSMITTAL FORM
- COPY OF CHECKS FOR STATE AND TOWN FEE PAYMENT
- AFFIDAVIT OF SERVICE
- COPY OF NOTIFICATION TO ABUTTERS
- CERTIFIED LIST OF ABUTTERS
- MA GIS LOCUS MAP
- USGS MAP
- BVW FORMS

If you have any questions or need any further information, please feel free to contact me at (508) 829-7222.

Sincerely,

Julian P. Votruba
New England Environmental Design, LLC

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**NEEDLLC1**
Transaction ID:	**1675402**
Document:	**WPA Form 3 - NOI**
Size of File:	**270.50K**
Status of Transaction:	**In Process**
Date and Time Created:	**2/9/2024:2:07:46 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

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 #:
eDEP Transaction #:1675402
City/Town:LEICESTER

A.General Information

1. Project Location:

a. Street Address	434 MULBERRY ST		
b. City/Town	LEICESTER	c. Zip Code	01524
d. Latitude	42.27376N	e. Longitude	71.89178W
f. Map/Plat #	5A	g.Parcel/Lot #	1

2. Applicant:

☐ Individual ☑ Organization

a. First Name			b.Last Name		
c. Organization	434 MULBERRY LLC				
d. Mailing Address	16 GAY ST				
e. City/Town	ARLINGTON	f. State	MA	g. Zip Code	02474
h. Phone Number		i. Fax		j. Email	

3.Property Owner:

☐ more than one owner

a. First Name			b. Last Name		
c. Organization	434 MULBERRY LLC				
d. Mailing Address	16 GAY ST				
e. City/Town	ARLINGTON	f.State	MA	g. Zip Code	02474
h. Phone Number		i. Fax		j.Email	

4.Representative:

a. First Name	JULIAN P	b. Last Name	VOTRUBA		
c. Organization	NEW ENGLAND ENVIRONMENTAL DESIGN LLC				
d. Mailing Address	P.O. BOX 376				
e. City/Town	RUTLAND	f. State	MA	g. Zip Code	01543
h.Phone Number	508-829-7222	i.Fax		j.Email	NEEDLLC@HOTMAIL.COM

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

a.Total Fee Paid	110.00	b.State Fee Paid	42.50	c.City/Town Fee Paid	67.50

6.General Project Description:
SEPTIC SYSTEM REPAIR

7a.Project Type:

1.☐ Single Family Home	2. ☐ Residential Subdivision
3.☐ Limited Project Driveway Crossing	4. ☐ Commercial/Industrial
5.☐ Dock/Pier	6. ☐ Utilities
7.☐ Coastal Engineering Structure	8. ☐ Agriculture (eg., cranberries, forestry)
9.☐ Transportation	10. ☑ 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:

a.County:	b.Certificate:	c.Book:	d.Page:
WORCESTER		51480	220

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

1.Buffer Zone & Resource Area Impacts (temporary & permanent):

☑ This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2.Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Bank	1. linear feet	2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☐ Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d. ☐ Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f. ☐ Riverfront Area

1. Name of Waterway (if any)

2. Width of Riverfront Area (check one)
☐ 25 ft. - Designated Densely Developed Areas only
☐ 100 ft. - New agricultural projects only
☐ 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? ☐ Yes ☐ No

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under	Land under the ocean below,
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coatstal Dunes, below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. ☐ Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ 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. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

☐ Restoration/Replacement

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 entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

☐ Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement 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 of Endangered Species program (NHESP)?

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
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map:8/2017

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)....

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

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 wetland 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 "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

*Projects altering **10 or more acres** of land, also submit:*

d.☐ Vegetation cover type map of site

e.☐ Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1.☐ Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/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 Number

b. Date submitted to NHESP

3.☐ Separate MESA review completed.

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

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline 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:

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

   North Shore - Hull to New Hampshire:

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

   If yes, it 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 DEP Website for ACEC locations). **Note:** electronic filers click on Website.

   b. ACEC Name

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, Explain why the project is exempt:
      1. ☑ Single Family Home
      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 by regular mail delivery.

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.
☐

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	c. Revised Final Date:	e. Scale:
REPAIR SUBSURFACE SEWAGE DISPOSAL SYSTEM	NEW ENGLAND ENVIRONMENTAL DESIGN LLC	ZACHARY T. MANN, SANITARIAN	12/13/2023	1"=20'

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:

12145	2/9/2024
2. Municipal Check Number	3. Check date
12144	2/9/2024
4. State Check Number	5. Check date
NEW ENGLAND ENVIRONMENTAL DESIGN LLC	
6. Payer name on check: First Name	7. Payer 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.

434 MULBERRY LLC	2/9/2024
1. Signature of Applicant	2. Date
434 MULBERRY LLC	2/9/2024
3. Signature of Property Owner(if different)	4. Date
JULIAN P. VOTRUBA	2/9/2024
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 Section C, Items 1-3, 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
WPA Form 3 - Notice of Wetland FeeTransmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1675402
City/Town:LEICESTER

A. Applicant Information

1. Applicant:

a. First Name			b.Last Name		
c. Organization	434 MULBERRY LLC				
d. Mailing Address	16 GAY ST				
e. City/Town	ARLINGTON	f. State	MA	g. Zip Code	02474
h. Phone Number		i. Fax		j. Email	

2.Property Owner:(if different)

a. First Name			b. Last Name		
c. Organization	434 MULBERRY LLC				
d. Mailing Address	16 GAY ST				
e. City/Town	ARLINGTON	f.State	MA	g. Zip Code	02474
h. Phone Number		i. Fax		j.Email	

3. Project Location:

a. Street Address	434 MULBERRY ST	b. City/Town	LEICESTER

Are you exempted from Fee? ☐

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than $100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
E.) WORK ON SEPTIC SYSTEM SEPARATE FROM HOUSE	1	110.00		110.00

City/Town share of filling fee	State share of filing fee	Total Project Fee
$67.50	$42.50	$110.00

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act
(To be submitted to the Massachusetts Department of Environmental Protection, the Conservation Commission, when filing a Notice of Intent)

I, Julian P. Votruba, hereby certify under the pains and penalties of perjury that on February 9, 2024 I gave notification to abutters in compliance with the second paragraph of the 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 434 Mulberry, LLC. with the Town of Leicester Conservation Commission for 434 Mulberry St located in the Town of Leicester.

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

Julian P. Votruba
New England Environmental Design, LLC

2/9/24
Date

NOTIFICATION TO ABUTTERS UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT

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

A. The name of the applicant is: 434 Mulberry, LLC
B. The applicant has filed a Notice of Intent with the Conservation Commission for the Town of Leicester seeking permission to remove, fill, dredge or ***alter*** an area subject to protection under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Section 40).
C. The address where the activity is proposed is: 434 Mulberry St., Leicester.
D. Copies of the Notice of Intent may be examined at the Town of Leicester Town Clerks or Conservation Commission Office during regular office hours. For more information, call the Town of Leicester Conservation Commission.
E. The meeting will be held **on date and time to be determined by the Town of Leicester's Conservation Commission.**

NOTE: Notice of the public hearing, including its time, date, and place will be published at least five days in advance in the *local newspaper*.

NOTE: You may contact the Department of Environmental Protection (DEP) Central Regional Office for more information about this application for the Wetlands Protection Act. To contact DEP, call the Central Regional Office at (508) 792-7650.

300 feet Abutters List Report

Leicester, MA
January 25, 2024

Subject Property:

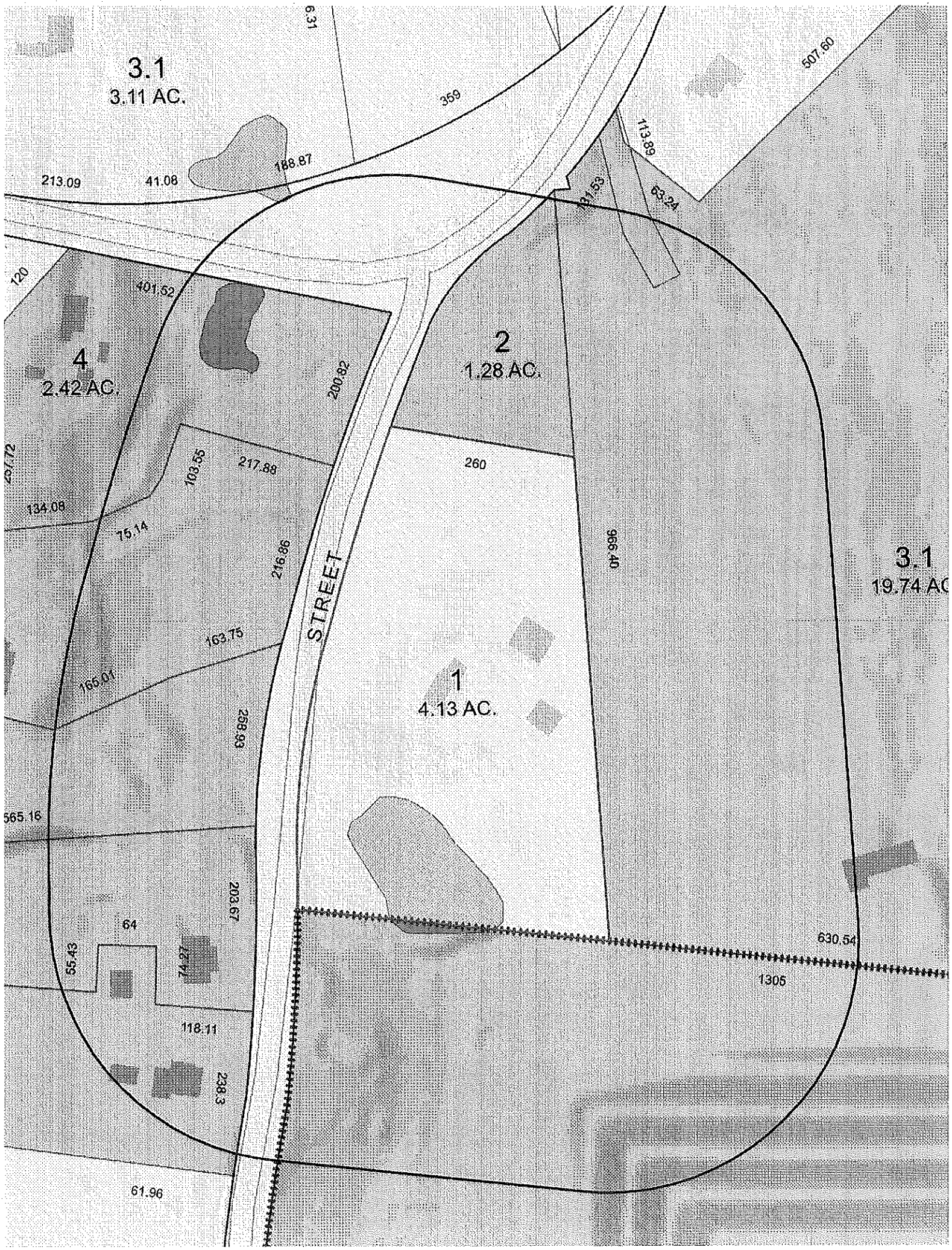
Parcel Number:	5-A1-0	Mailing Address:	434 MULBERRY LLC
CAMA Number:	5-A1-0		16 GAY ST
Property Address:	434 MULBERRY ST		ARLINGTON, MA 02474

Abutters:

Parcel Number:	5-A2-0	Mailing Address:	SOUTHWICK JASON J
CAMA Number:	5-A2-0		103 MARSHALL STREET
Property Address:	MULBERRY ST		LEICESTER, MA 01524-1007
Parcel Number:	5-A6.7-0	Mailing Address:	MASSPORT
CAMA Number:	5-A6.7-0		ONE HARBORSIDE DR STE 200S
Property Address:	MULBERRY ST		EAST BOSTON, MA 02128-2909
Parcel Number:	6-C4-0	Mailing Address:	DAVITT MEREDITH DAVITT PATRICK
CAMA Number:	6-C4-0		121 MARSHALL ST
Property Address:	121 MARSHALL ST		LEICESTER, MA 01524
Parcel Number:	6-C5.2-0	Mailing Address:	MULLANEY ERIN E SZCZESUIL DANIEL J
CAMA Number:	6-C5.2-0		401 MULBERRY ST
Property Address:	401 MULBERRY ST		LEICESTER, MA 01524
Parcel Number:	6-C5.3-0	Mailing Address:	SAVAGE THOMAS J JR SAVAGE GABRIELLE J
CAMA Number:	6-C5.3-0		403 MULBERRY ST
Property Address:	403 MULBERRY ST		LEICESTER, MA 01524
Parcel Number:	6-C5.4-0	Mailing Address:	GENTILE PETER J GENTILE PATRICIA A
CAMA Number:	6-C5.4-0		405 MULBERRY
Property Address:	405 MULBERRY ST		LEICESTER, MA 01524
Parcel Number:	6-C5-0	Mailing Address:	DURKAN JOHN
CAMA Number:	6-C5-0		399 MULBERRY STREET
Property Address:	399 MULBERRY ST		LEICESTER, MA 01524

Above is a certified list of abutters and abutters to abutters within 300 feet including across the street.
Subject Property 434 Mulberry Street Map 5A lot 1 Deed Reference 51480-220
Subject Owners 434 Mulberry, LLC
Certified by Alyce D Johns, Interim Assessor

Alyce D Johns


3.1
3.11 AC.
359
507.60
113.89
188.87
213.09
41.08
83.24
120
401.52
4
2.42 AC.
200.82
2
1.28 AC.
260
217.88
163.55
134.08
15.14
216.86
STREET
966.40
3.1
19.74 AC
163.75
166.01
1
4.13 AC.
298.93
565.16
203.67
64
55.43
74.27
630.54
1305
118.11
238.3
61.96


Southwick Pond
Southwick Pond
CRYSTAL ST
HOWE ST
QUAKER RD
SUNNY HILL DR
SCENIC DR
CONGER RD
ASSABET LN
ESSEX LN
BAILEY ST
PROUTY LN
MARSHALL ST
Worcester
Maple Hill
Kettle Brook Reservoir Number Two
MANNVILLE ST
Lyndle Brook
Tatnuck Hill
Worcester Regional Airport
PAXTON ST
Kettle Brook
MULBERRY ST
1050
1000
950
900
850

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 434 Mulberry Street City/Town: Leicester Sampling Date: 12/6/2023

Applicant/Owner: 434 Mulberry, LLC. Sampling Point or Zone: M7 UP

Investigator(s): Zachary T. Mann Latitude / Longitude: 42.27376, -71.89178

Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes [✔] No [ ] (If no, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] significantly disturbed? (If yes, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes [ ] No [✔]	**Is the Sampled Area within a Wetland?** Yes [ ] No [✔]
Hydric Soils criterion met?	Yes [ ] No [✔]	
Wetlands hydrology present?	Yes [ ] No [✔]	

Remarks, Photo Details, Flagging, etc.:

HYDROLOGY

Field Observations:			
Surface Water Present?	Yes [ ]	No [✔]	Depth (inches)_____
Water Table Present?	Yes [ ]	No [✔]	Depth (inches)_____
Saturation Present (including capillary fringe)?	Yes [ ]	No [✔]	Depth (inches)_____

Wetland Hydrology Indicators

Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
[ ] Water-stained leaves	[ ] Hydrological records	[ ] Direct observation of inundation
[ ] Evidence of aquatic fauna	[ ] Free water in a soil test hole	[ ] Drainage patterns
[ ] Iron deposits	[ ] Saturated soil	[ ] Drift lines
[ ] Algal mats or crusts	[ ] Water marks	[ ] Scoured areas
[ ] Oxidized rhizospheres/pore linings	[ ] Moss trim lines	[ ] Sediment deposits
[ ] Thin muck surfaces	[ ] Presence of reduced iron	[ ] Surface soil cracks
[ ] Plants with air-filled tissue (aerenchyma)	[ ] Woody plants with adventitious roots	[ ] Sparsely vegetated concave surface
[ ] Plants with polymorphic leaves	[ ] Trees with shallow root systems	[ ] Microtopographic relief
[ ] Plants with floating leaves	[ ] Woody plants with enlarged lenticels	[ ] Geographic position (depression, toe of slope, fringing lowland
[ ] Hydrogen sulfide odor		

Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Form Revised July 2023

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 40 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Red oak	Quercus rubra	FACU	40.0	Yes	No
2. Eastern white pine	Pinus strobus	FACU	50.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

90.0 = Total Cover

Shrub/Sapling Stratum Plot size 15 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Common winterberry	Ilex verticilatta	FACW	15.0	Yes	Yes
2. Eastern white pine	Pinus strobus	FACU	5.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

20.0 = Total Cover

Herb Stratum Plot size 5 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Christmas fern	Polystichum acrostichoides	FACU	5.0	No	No
2. Canada goldenrod	Solidago canadensis	FACU	50.0	Yes	No
3. Multifloral rose	Rosa multiflora	FACU	10.0	No	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

65.0 = Total Cover

VEGETATION – continued.

Woody Vine Stratum	Plot size 15 ft				
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. N/A					
2.					
3.					
4.					
			0.0 = Total Cover		

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes ☐ No ☑
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species? Yes ☐ No ☑
	5	1		
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	15	X 2	= 30.00
	FAC species	0	X 3	= 0.00
	FACU species	160	X 4	= 640.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 175		(B) 670
Prevalence Index		B/A = 3.83		Is the Prevalence Index ≤ 3.0? Yes ☐ No ☑
Wetland vegetation criterion met?		**Yes** ☐	**No** ☑	

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

Sampling Point M7 UP

SOIL

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type[1]	Location[2]		
0-4	10YR 3/2							
4-23	10YR 5/8		N/A					Dry, friable

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		**Indicators for Problematic Hydric Soils**
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9)	☐ 5 cm Mucky Peat or Peat (S3)
☐ Black Histic (A3)	☐ Loamy Gleyed Matrix (F2)	☐ Iron-Manganese Masses (F12)
☐ Hydrogen Sulfide (A4)	☐ Depleted Matrix (F3)	☐ Mesic Spodic (A17)
☐ Stratified Layers (A5)	☐ Redox Dark Surface (F6)	☐ Red Parent Material (F21)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	☐ Very Shallow Dark Surface (F22)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)	
☐ Sandy Mucky Mineral (S1)		
☐ Sandy Gleyed Matrix (S4)		
☐ Sandy Redox (S5)		☐ Other (Include Explanation in Remarks)
☐ Stripped Matrix (S6)		
☐ Dark Surface (S7)		

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks:

Hydric Soils criterion met? **Yes** ☐ **No** ☑

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 434 Mulberry Street City/Town: Leicester Sampling Date: 12/6/2023

Applicant/Owner: 434 Mulberry, LLC. Sampling Point or Zone: M7 UP

Investigator(s): Zachary T. Mann Latitude / Longitude: 42.27376, -71.89178

Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes [✔] No [ ] (If no, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] significantly disturbed? (If yes, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes [ ] No [✔]	**Is the Sampled Area within a Wetland?** Yes [ ] No [✔]
Hydric Soils criterion met?	Yes [ ] No [✔]	
Wetlands hydrology present?	Yes [ ] No [✔]	

Remarks, Photo Details, Flagging, etc.:

HYDROLOGY

Field Observations:			
Surface Water Present?	Yes [ ]	No [✔]	Depth (inches)_____
Water Table Present?	Yes [ ]	No [✔]	Depth (inches)_____
Saturation Present (including capillary fringe)?	Yes [ ]	No [✔]	Depth (inches)_____

Wetland Hydrology Indicators

Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
[ ] Water-stained leaves	[ ] Hydrological records	[ ] Direct observation of inundation
[ ] Evidence of aquatic fauna	[ ] Free water in a soil test hole	[ ] Drainage patterns
[ ] Iron deposits	[ ] Saturated soil	[ ] Drift lines
[ ] Algal mats or crusts	[ ] Water marks	[ ] Scoured areas
[ ] Oxidized rhizospheres/pore linings	[ ] Moss trim lines	[ ] Sediment deposits
[ ] Thin muck surfaces	[ ] Presence of reduced iron	[ ] Surface soil cracks
[ ] Plants with air-filled tissue (aerenchyma)	[ ] Woody plants with adventitious roots	[ ] Sparsely vegetated concave surface
[ ] Plants with polymorphic leaves	[ ] Trees with shallow root systems	[ ] Microtopographic relief
[ ] Plants with floating leaves	[ ] Woody plants with enlarged lenticels	[ ] Geographic position (depression, toe of slope, fringing lowland
[ ] Hydrogen sulfide odor		

Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Form Revised July 2023

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 40 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Red oak	Quercus rubra	FACU	40.0	Yes	No
2. Eastern white pine	Pinus strobus	FACU	50.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

90.0 = Total Cover

Shrub/Sapling Stratum Plot size 15 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Common winterberry	Ilex verticilatta	FACW	15.0	Yes	Yes
2. Eastern white pine	Pinus strobus	FACU	5.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

20.0 = Total Cover

Herb Stratum Plot size 5 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Christmas fern	Polystichum acrostichoides	FACU	5.0	No	No
2. Canada goldenrod	Solidago canadensis	FACU	50.0	Yes	No
3. Multifloral rose	Rosa multiflora	FACU	10.0	No	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

65.0 = Total Cover

VEGETATION – continued.

Woody Vine Stratum	Plot size 15 ft				
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. N/A					
2.					
3.					
4.					
		0.0 = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes ☐ No ☑
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
	5	1		Yes ☐ No ☑
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	15	X 2	= 30.00
	FAC species	0	X 3	= 0.00
	FACU species	160	X 4	= 640.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 175		(B) 670
Prevalence Index		B/A = 3.83		Is the Prevalence Index ≤ 3.0? Yes ☐ No ☑
Wetland vegetation criterion met?		**Yes** ☐ **No** ☑		

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

Sampling Point M7 UP

SOIL

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type[1]	Location[2]		
0-4	10YR 3/2							
4-23	10YR 5/8		N/A					Dry, friable

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		**Indicators for Problematic Hydric Soils**
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9)	☐ 5 cm Mucky Peat or Peat (S3)
☐ Black Histic (A3)	☐ Loamy Gleyed Matrix (F2)	☐ Iron-Manganese Masses (F12)
☐ Hydrogen Sulfide (A4)	☐ Depleted Matrix (F3)	☐ Mesic Spodic (A17)
☐ Stratified Layers (A5)	☐ Redox Dark Surface (F6)	☐ Red Parent Material (F21)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	☐ Very Shallow Dark Surface (F22)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)	
☐ Sandy Mucky Mineral (S1)		
☐ Sandy Gleyed Matrix (S4)		
☐ Sandy Redox (S5)		☐ Other (Include Explanation in Remarks)
☐ Stripped Matrix (S6)		
☐ Dark Surface (S7)		

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks:

Hydric Soils criterion met? **Yes** ☐ **No** ☑

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 434 Mulberry Street City/Town: Leicester Sampling Date: 12/6/2023

Applicant/Owner: 434 Mulberry, LLC. Sampling Point or Zone: M7 UP

Investigator(s): Zachary T. Mann Latitude / Longitude: 42.27376, -71.89178

Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes [✔] No [ ] (If no, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] significantly disturbed? (If yes, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes [ ] No [✔]	**Is the Sampled Area within a Wetland?** Yes [ ] No [✔]
Hydric Soils criterion met?	Yes [ ] No [✔]	
Wetlands hydrology present?	Yes [ ] No [✔]	

Remarks, Photo Details, Flagging, etc.:

HYDROLOGY

Field Observations:			
Surface Water Present?	Yes [ ]	No [✔]	Depth (inches)_____
Water Table Present?	Yes [ ]	No [✔]	Depth (inches)_____
Saturation Present (including capillary fringe)?	Yes [ ]	No [✔]	Depth (inches)_____

Wetland Hydrology Indicators

Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
[ ] Water-stained leaves	[ ] Hydrological records	[ ] Direct observation of inundation
[ ] Evidence of aquatic fauna	[ ] Free water in a soil test hole	[ ] Drainage patterns
[ ] Iron deposits	[ ] Saturated soil	[ ] Drift lines
[ ] Algal mats or crusts	[ ] Water marks	[ ] Scoured areas
[ ] Oxidized rhizospheres/pore linings	[ ] Moss trim lines	[ ] Sediment deposits
[ ] Thin muck surfaces	[ ] Presence of reduced iron	[ ] Surface soil cracks
[ ] Plants with air-filled tissue (aerenchyma)	[ ] Woody plants with adventitious roots	[ ] Sparsely vegetated concave surface
[ ] Plants with polymorphic leaves	[ ] Trees with shallow root systems	[ ] Microtopographic relief
[ ] Plants with floating leaves	[ ] Woody plants with enlarged lenticels	[ ] Geographic position (depression, toe of slope, fringing lowland
[ ] Hydrogen sulfide odor		

Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Form Revised July 2023

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 40 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Red oak	Quercus rubra	FACU	40.0	Yes	No
2. Eastern white pine	Pinus strobus	FACU	50.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

90.0 = Total Cover

Shrub/Sapling Stratum Plot size 15 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Common winterberry	Ilex verticilatta	FACW	15.0	Yes	Yes
2. Eastern white pine	Pinus strobus	FACU	5.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

20.0 = Total Cover

Herb Stratum Plot size 5 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Christmas fern	Polystichum acrostichoides	FACU	5.0	No	No
2. Canada goldenrod	Solidago canadensis	FACU	50.0	Yes	No
3. Multifloral rose	Rosa multiflora	FACU	10.0	No	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

65.0 = Total Cover

VEGETATION – continued.

Woody Vine Stratum	Plot size 15 ft				
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. N/A					
2.					
3.					
4.					
		0.0 = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes ☐ No ☑
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
	5	1		Yes ☐ No ☑
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	15	X 2	= 30.00
	FAC species	0	X 3	= 0.00
	FACU species	160	X 4	= 640.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 175		(B) 670
Prevalence Index		B/A = 3.83		Is the Prevalence Index ≤ 3.0? Yes ☐ No ☑
Wetland vegetation criterion met?		**Yes** ☐ **No** ☑		

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

Sampling Point M7 UP

SOIL

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type[1]	Location[2]		
0-4	10YR 3/2							
4-23	10YR 5/8		N/A					Dry, friable

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		**Indicators for Problematic Hydric Soils**
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9)	☐ 5 cm Mucky Peat or Peat (S3)
☐ Black Histic (A3)	☐ Loamy Gleyed Matrix (F2)	☐ Iron-Manganese Masses (F12)
☐ Hydrogen Sulfide (A4)	☐ Depleted Matrix (F3)	☐ Mesic Spodic (A17)
☐ Stratified Layers (A5)	☐ Redox Dark Surface (F6)	☐ Red Parent Material (F21)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	☐ Very Shallow Dark Surface (F22)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)	
☐ Sandy Mucky Mineral (S1)		
☐ Sandy Gleyed Matrix (S4)		
☐ Sandy Redox (S5)		☐ Other (Include Explanation in Remarks)
☐ Stripped Matrix (S6)		
☐ Dark Surface (S7)		

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks:

Hydric Soils criterion met? **Yes** ☐ **No** ☑

BORDERING VEGETATED WETLAND DETERMINATION FORM

Project/Site: 434 Mulberry Street City/Town: Leicester Sampling Date: 12/6/2023

Applicant/Owner: 434 Mulberry, LLC. Sampling Point or Zone: M7 UP

Investigator(s): Zachary T. Mann Latitude / Longitude: 42.27376, -71.89178

Soil Map Unit Name: Paxton NWI or DEP Classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes [✔] No [ ] (If no, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] significantly disturbed? (If yes, explain in Remarks)

Are Vegetation [ ], Soil [ ] , or Hydrology [ ] naturally problematic? (If yes, explain in Remarks)

SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc.

Wetland vegetation criterion met?	Yes [ ] No [✔]	**Is the Sampled Area within a Wetland?** Yes [ ] No [✔]
Hydric Soils criterion met?	Yes [ ] No [✔]	
Wetlands hydrology present?	Yes [ ] No [✔]	

Remarks, Photo Details, Flagging, etc.:

HYDROLOGY

Field Observations:			
Surface Water Present?	Yes [ ]	No [✔]	Depth (inches)_____
Water Table Present?	Yes [ ]	No [✔]	Depth (inches)_____
Saturation Present (including capillary fringe)?	Yes [ ]	No [✔]	Depth (inches)_____

Wetland Hydrology Indicators

Reliable Indicators of Wetlands Hydrology	Indicators that can be Reliable with Proper Interpretation	Indicators of the Influence of Water
[ ] Water-stained leaves	[ ] Hydrological records	[ ] Direct observation of inundation
[ ] Evidence of aquatic fauna	[ ] Free water in a soil test hole	[ ] Drainage patterns
[ ] Iron deposits	[ ] Saturated soil	[ ] Drift lines
[ ] Algal mats or crusts	[ ] Water marks	[ ] Scoured areas
[ ] Oxidized rhizospheres/pore linings	[ ] Moss trim lines	[ ] Sediment deposits
[ ] Thin muck surfaces	[ ] Presence of reduced iron	[ ] Surface soil cracks
[ ] Plants with air-filled tissue (aerenchyma)	[ ] Woody plants with adventitious roots	[ ] Sparsely vegetated concave surface
[ ] Plants with polymorphic leaves	[ ] Trees with shallow root systems	[ ] Microtopographic relief
[ ] Plants with floating leaves	[ ] Woody plants with enlarged lenticels	[ ] Geographic position (depression, toe of slope, fringing lowland
[ ] Hydrogen sulfide odor		

Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Form Revised July 2023

VEGETATION – Use both common and scientific names of plants.

Tree Stratum Plot size 40 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Red oak	Quercus rubra	FACU	40.0	Yes	No
2. Eastern white pine	Pinus strobus	FACU	50.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

90.0 = Total Cover

Shrub/Sapling Stratum Plot size 15 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Common winterberry	Ilex verticilatta	FACW	15.0	Yes	Yes
2. Eastern white pine	Pinus strobus	FACU	5.0	Yes	No
3.					
4.					
5.					
6.					
7.					
8.					
9.					

20.0 = Total Cover

Herb Stratum Plot size 5 ft

Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. Christmas fern	Polystichum acrostichoides	FACU	5.0	No	No
2. Canada goldenrod	Solidago canadensis	FACU	50.0	Yes	No
3. Multifloral rose	Rosa multiflora	FACU	10.0	No	No
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

65.0 = Total Cover

VEGETATION – continued.

Woody Vine Stratum	Plot size 15 ft				
Common name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indictor? (yes/no)
1. N/A					
2.					
3.					
4.					
		0.0 = Total Cover			

Rapid Test: Do all dominant species have an indicator status of OBL or FACW?				Yes ☐ No ☑
Dominance Test:	Number of dominant species	Number of dominant species that are wetland indicator plants		Do wetland indicator plants make up ≥ 50% of dominant plant species?
	5	1		Yes ☐ No ☑
Prevalence Index:		Total % Cover (all strata)	Multiply by:	Result
	OBL species	0	X 1	= 0.00
	FACW species	15	X 2	= 30.00
	FAC species	0	X 3	= 0.00
	FACU species	160	X 4	= 640.00
	UPL species	0	X 5	= 0.00
	Column Totals	(A) 175		(B) 670
Prevalence Index		B/A = 3.83		Is the Prevalence Index ≤ 3.0? Yes ☐ No ☑
Wetland vegetation criterion met?		**Yes** ☐ **No** ☑		

Definitions of Vegetation Strata

Tree - Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height

Shrub / Sapling - Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall

Herb - All herbaceous (non-woody plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall

Woody vines - All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.0 %
6-15 %	10.5 %
15-25 %	20.5 %
26-50 %	38.0 %
51-75 %	63.0 %
76-95 %	85.5 %
96-100 %	98.0 %

Sampling Point M7 UP

SOIL

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type[1]	Location[2]		
0-4	10YR 3/2							
4-23	10YR 5/8		N/A					Dry, friable

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		**Indicators for Problematic Hydric Soils**
☐ Histosol (A1)	☐ Polyvalue Below Surface (S8)	☐ 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Thin Dark Surface (S9)	☐ 5 cm Mucky Peat or Peat (S3)
☐ Black Histic (A3)	☐ Loamy Gleyed Matrix (F2)	☐ Iron-Manganese Masses (F12)
☐ Hydrogen Sulfide (A4)	☐ Depleted Matrix (F3)	☐ Mesic Spodic (A17)
☐ Stratified Layers (A5)	☐ Redox Dark Surface (F6)	☐ Red Parent Material (F21)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	☐ Very Shallow Dark Surface (F22)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)	
☐ Sandy Mucky Mineral (S1)		
☐ Sandy Gleyed Matrix (S4)		
☐ Sandy Redox (S5)		☐ Other (Include Explanation in Remarks)
☐ Stripped Matrix (S6)		
☐ Dark Surface (S7)		

Restrictive Layer (if observed) Type: _____ Depth (inches): _____

Remarks:

Hydric Soils criterion met? **Yes** ☐ **No** ☑