Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

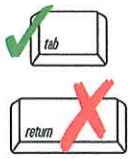
WPA Form 1- Request for Determination of Applicability

Leicester (Municipality)

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

A. General Information

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



1. Applicant:

Stephan & Dana (First Name) | Antanavica (Last Name)

33 Lakeview Drive (Address)

Spencer (City/Town) | MA (State) | 01562 (Zip Code)

(774) 696-2122 (Phone Number) | gwen@antanavica.net (Email Address)

2. Property Owner (if different from Applicant):

(Same as above) (First Name) | (Last Name)

(Address)

(City/Town) | (State) | (Zip Code)

(Phone Number) | (Email Address (if known))

3. Representative (if any)

Glenn (First Name) | Krevosky (Last Name)

EBT Environmental Consultants, Inc. (Company Name)

601 Main Street (Address)

North Oxford (City/Town) | MA (State) | 01537 (Zip Code)

(508) 769-3659 (Phone Number) | glenn.krevosky@charter.net (Email Address (if known))

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

(Lots 6, 7, 8 & 9) 0 Blueberry Lane (Street Address) | Leicester (City/Town)

How to find Latitude and Longitude

42.24162 (Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)) | -71.92946 (Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX))

and how to convert to decimal degrees

26A (Assessors' Map Number) | B7, B8, B9 & B10 (Assessors' Lot/Parcel Number)

b. Area Description (use additional paper, if necessary):

See attached "1.b & 2.a.: Area & Work Descriptions"

c. Plan and/or Map Reference(s): (use additional paper if necessary)

See attached "C.1.c. Plan andor Map Reference" (Title) | (Date)

(Title) | (Date)

1.b & 2.a.: Area & Work Descriptions

C.1.b. Area Description

A recently cleared Northern Red Oak, Black Birch, White Pine, Red Maple forested area (stumps are still remaining). The area was cleared by Godin Land Clearing under the direction of the applicant, as they did not believe there were wetlands within 100 feet of the area where the applicant proposes to construct his house. The Conservation became aware of the clearing through a neighbor located to the east. EBT, Inc. was retained after the clearing to review plants (including species of tree stumps) and soils. Soils were both spaded and augured and found to be non-hydric within the cleared area (the dominant soil matrix in the B Horizon is shown on the plan). The closest wetland/groundwater discharge/hydric soils is 235 feet downgradient/south of the applicant's southernmost property boundary.

C.2.a. Work Description

No work proposed at this time.

C.1.c. Plan and/or Map Reference

Project Location: (Lots 6, 7, 8 & 9) 0 Blueberry Lane, Leicester

Applicant: Stephan & Dana Antanavica

1A. Soil Boring Plan: created for Stephan & Dana Antanavica by HS&T Group, Inc., dated 7/26/2023
2A. Leicester USGS Quad, dated 2021
3A. Leicester Assessors Map 26A, dated 1/1/2014
4A. Check Copy
5A. Town of Leicester Abutters' List, dated 8/3/2023
6A. Abutters Notification, dated 8/7/2023
7A. Affidavit of Service, dated 8/7/2023
8A. Photo Exhibit, dated 5/11/2023
9A. MA DEP BVW Data Forms, dated 6/11/2023

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

See attached "1.b & 2.a.: Area & Work Descriptions"

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

C. Determinations

1. I request the Leicester make the following determination(s). Check any that apply:
Conservation Commission

☒ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.

☒ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.

☐ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.

☒ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Leicester
Name of Municipality

☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

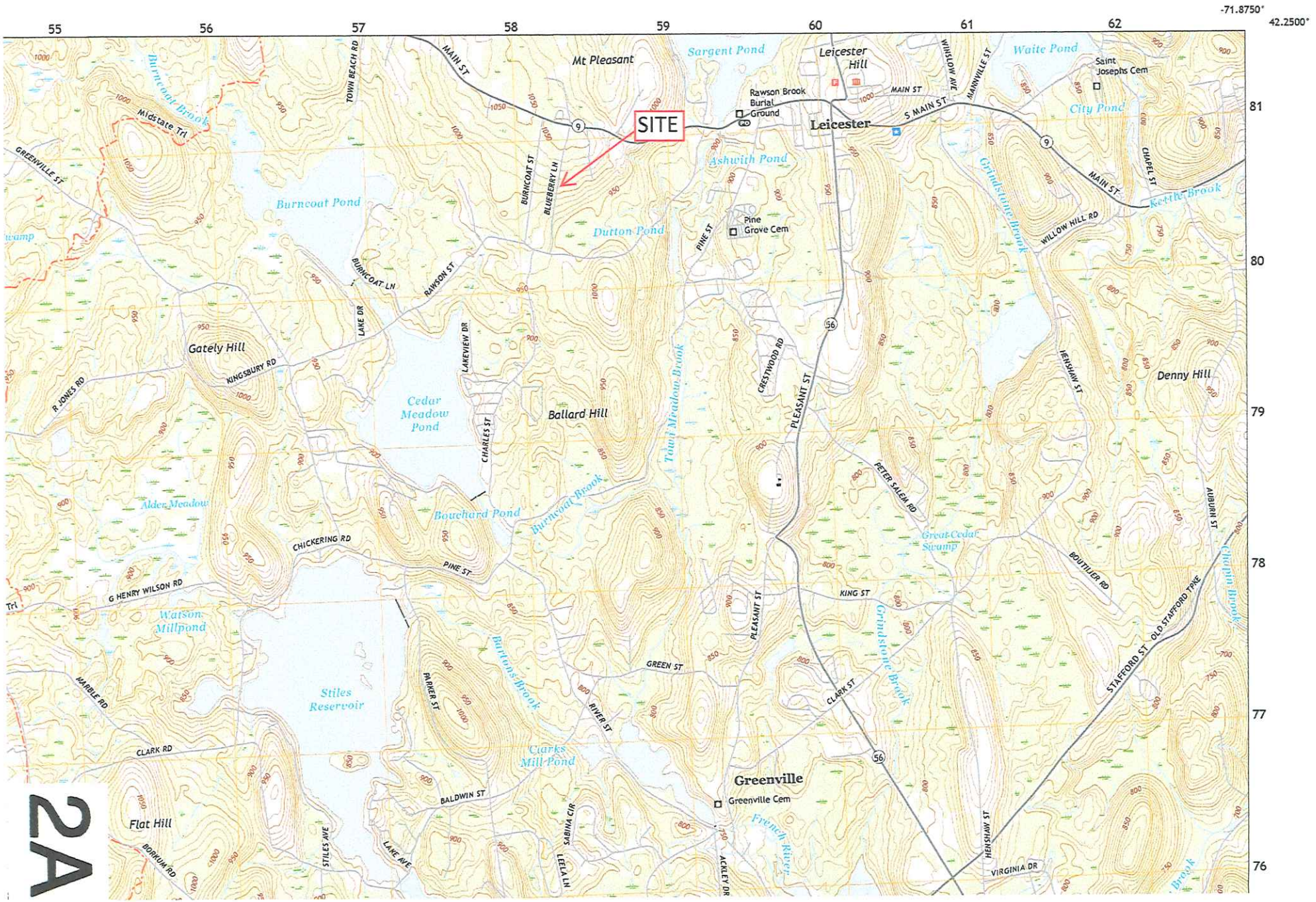
Signature of Applicant — Date: 8/2/23

Signature of Representative (if any) — Date: 8/2/2023

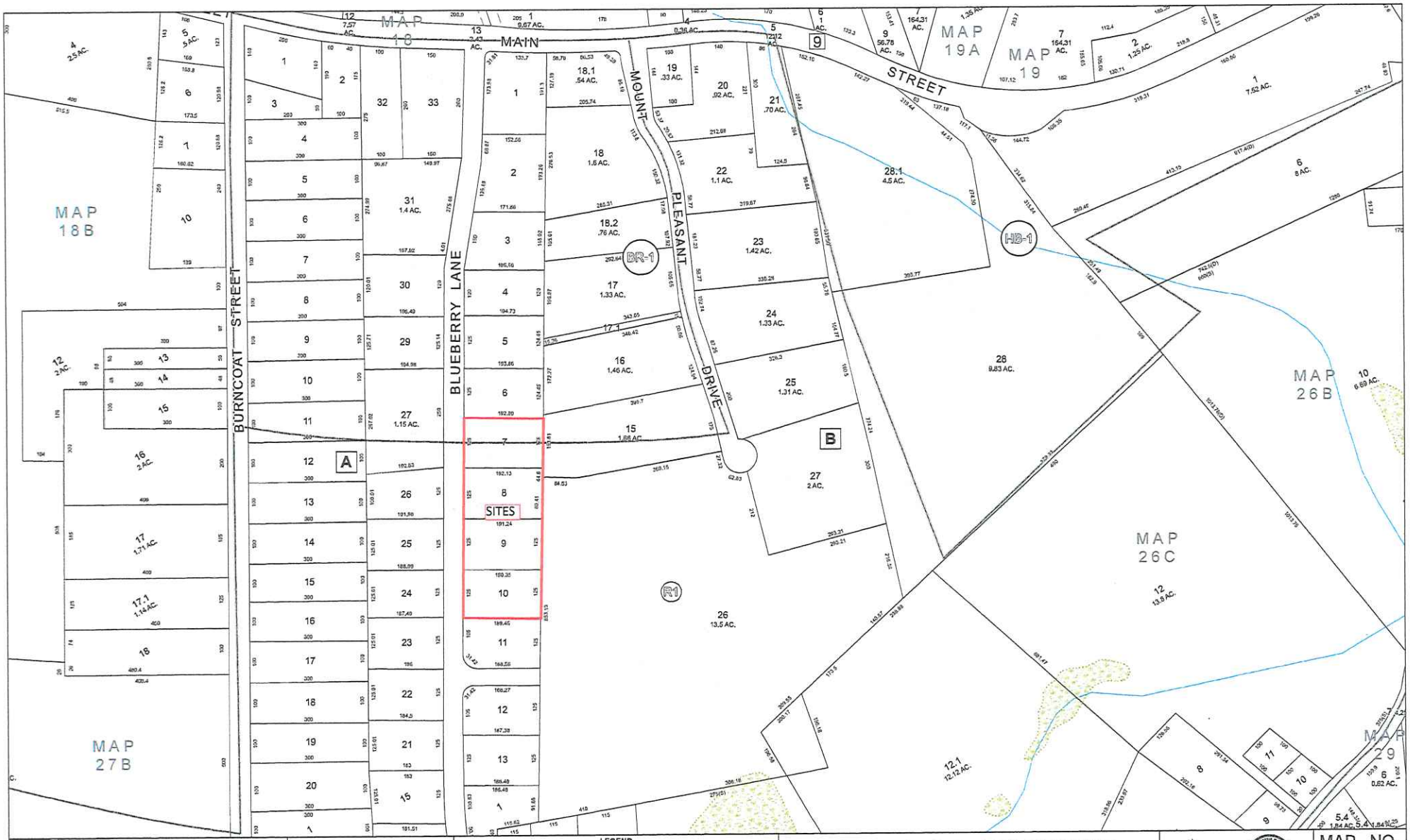
ERIOR
Y

The National Map
US Topo

LEICESTER QUADRANGLE
MASSACHUSETTS - WORCESTER COUNTY
7.5-MINUTE SERIES



2A



FOR TAX PURPOSES ONLY

THIS MAP IS FOR ASSESSMENT PURPOSES. IT IS NOT TO BE USED FOR LEGAL DESCRIPTION OR CONVEYANCE.

JM IS THE MASSACHUSETTS STATE YSTEM, NAD 83

Leicester_JIM\Leicester_Assessor_Maps_26x36.mxd

PRODUCED IN 2014 BY

CMRPC

Central Massachusetts Regional Planning Commission

2 WASHINGTON SQUARE, UNION STATION
WORCESTER, MA 01604

LEGEND

PROPERTY LINES
EASEMENTS
EXEMPT PROPERTY
MAP FOCUS
BLOCK LETTER
TOWN BOUNDARY
WATER
STREAMS
WETLANDS
RAILROAD
ZONING DISTRICTS

TOWN OF LEICESTER

BOARD OF ASSESSORS

LEICESTER, MASS.

REVISED TO: JANUARY 1, 2014

MAP NO. 26A

SCALE 1 in = 100 feet

3A

AFFIDAVIT OF SERVICE

UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT
AND TOWN OF LEICESTER WETLAND PROTECTION BYLAW

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

I, Glenn E. Krevosky, hereby certify under the pains and penalties of perjury that on August 7, 2023, I gave notification to direct abutters of the proposed project 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 Request for Determination of Applicability filed under the Massachusetts Wetlands Protection Act and The Town of Leicester Wetland Protection Bylaw by EBT Environmental Consultants, Inc., 601 Main Street, North Oxford, MA 01537, with the Leicester Conservation Commission on August 7, 2023 for a property located at, (Lots 6, 7, 8 & 9) 0 Blueberry Lane, Leicester.

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

Glenn E. Krevosky
Signature

8-7-2023
Date

7A

Photo 1 taken by EBT, Inc. on 5/11/2023 – Standing on historic constructed cart road facing north looking at the lots.

Photo 2 taken by EBT, Inc. on 5/11/2023 – Facing east looking at the lots.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Stephan & Dana Antanavica **Prepared by: Glenn E. Krevosky** **Project location: (Lots 6, 7, 8 & 9) 0 Blueberry Lane, Leicester**
DEP File #: **EBT Environmental Consultants, Inc.**
Check all that apply:

_X_ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
___ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
___ Method other than dominance test used (attach additional information)

Center of Observation Plot and Transect are located 7' upgradient of WF 1A

Section I. Vegetation Observation Plot Number: Plot 1U Transect Number: TP-1U Date of Delineation: 6/11/2023

A. Sample Layer and Plant Species (by common/scientific name)	B1. Percent Cover (or Basal Area)	B2. Percent Cover (Mid Point)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category*
TREES					
Eastern Hop-Hornbeam *(Ostrya virginiana)*	12	10.5	16.6	Yes	FACU
American Basswood *(Tilia americana)*	15	10.5	16.6	Yes	FACU
Sugar Maple *(Acer saccharum)*	15	10.5	16.6	Yes	FACU
Paper Birch *(Betula papyrifera)*	12	10.5	16.6	Yes	FACU
Yellow Birch *(Betula alleghaniensis)*	12	10.5	16.6	Yes	FAC*
Red Maple *(Acer rubrum)*	7	10.5	16.6	Yes	FAC*
SAPLINGS					
Yellow Birch *(Betula alleghaniensis)*	10	10.5	33.3	Yes	FAC*
Sugar Maple *(Acer saccharum)*	15	10.5	33.3	Yes	FACU
Eastern Hop-Hornbeam *(Ostrya virginiana)*	7	10.5	33.3	Yes	FACU
SHRUBS					
Maple-Leaved Viburnum *(Vibrus acerifolium)*	25	20.5	66.1	Yes	UPL
Eastern Hop-Hornbeam *(Ostrya virginiana)*	7	10.5	33.9	Yes	FACU
HERB					
False Solomon's Seal *(Smilacina racemosa)*	10	10.5	13.1	Yes	FACU
New York Fern *(Thelypteris novedoracensis)*	7	10.5	13.1	Yes	FAC*
Maple-Leaved Viburnum *(Vibrus acerifolium)*	30	38.0	47.5	Yes	UPL
Canada Mayflower *(Maianthemum canadense)*	10	10.5	13.1	Yes	FACU
Wild Sarsaparilla *(Aralia nudicaulis)*	7	10.5	13.1	Yes	FACU
VINE					
None					

** Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.4; plants in the genus Sphagnum; plants listed as FAC, FACW, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.*

Vegetation conclusion:
Number of dominant wetland indicator plants: 4 **Number of dominant non-wetland indicator plants: 12**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes No

egetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent. MA DEP: 3/95

Client: Stephan & Dana Antanavica

Section II. Indicators of Hydrology

7' upgradient of WF 1A

Hydric Soil Interpretation

1. Soil Survey

Is there a pub soil survey for this site? Yes X No

title/date: Worcester County, MA, Southern Part

map number: MA615

soil type mapped: Woodbridge fine sandy loam

hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes X No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	**0"-7"**	**10YR 3/2**	**None**
B	**7"-14"**	**10YR 4/3**	**None**

Remarks: **No evidence of saturation in 1st 6"**

3. Other:

Conclusion: Is soil hydric? Yes___ No_X___

Other Indicators of Hydrology: (check all that apply and describe)

___ Site inundated:_____

___ Depth to free water in observation hole:_____

___ Depth to soil saturation in observation hole:_____

___ Water marks:_____

___ Drift lines: _____

___ Sediment deposits:_____

___ Drainage patterns in BVW:_____

___ Oxidized rhizospheres: _____

___ Water-stained leaves:_____

___ Recorded data (stream, lake, or tidal gauge; aerial photo; other) :_

_____

___ Other: _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ number of non-wetland indicator plants:	____	X
Wetland hydrology present: hydric soil present:	____	X
other indicators of hydrology present:	____	X
Sample location is in a BVW:	____	X

Submit this form with the Request for Determination of Applicability or Notice of Intent.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: Stephan & Dana Antanavica **Prepared by: Glenn E. Krevosky** **Project location: (Lots 6, 7, 8 & 9) 0 Blueberry Lane, Leicester**
DEP File #: **EBT Environmental Consultants, Inc.**
Check all that apply:

_X_ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
___ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
___ Method other than dominance test used (attach additional information)

Center of Observation Plot and Transect are located 7' downgradient of WF 1A

Section I. Vegetation Observation Plot Number: Plot 1W Transect Number: TP-1W Date of Delineation: 6/11/2023

A. Sample Layer and Plant Species (by common/scientific name)	B1. Percent Cover (or Basal Area)	B2. Percent Cover (Mid Point)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category*
TREES					
Yellow Birch *(Betula alleghaniensis)*	15	10.5	20.2	Yes	FAC*
American Basswood *(Tilia americana)*	20	20.5	39.4	Yes	FACU
Sugar Maple *(Acer saccharum)*	15	10.5	20.2	Yes	FACU
Red Maple *(Acer rubrum)*	15	10.5	20.2	Yes	FAC*
SAPLINGS					
Yellow Birch *(Betula alleghaniensis)*	10	10.5	25.0	Yes	FAC*
Eastern Hop-Hornbeam *(Ostrya virginiana)*	10	10.5	25.0	Yes	FACU
Red Maple *(Acer rubrum)*	10	10.5	25.0	Yes	FAC*
American Beech (*Fagus grandifolia)*	10	10.5	25.0	Yes	FACU
SHRUBS					
Maple-Leaved Viburnum *(Vibrus acerifolium)*	15	10.5	100.0	Yes	UPL
HERBS					
Cinnamon Fern *(Osmunda cinnamomeum)*	10	10.5	20.0	Yes	FACW*
New York Fern *(Thelypteris novedoracensis)*	10	10.5	20.0	Yes	FAC*
Interrupted Fern *(Osmunda claytoniana)*	10	10.5	20.0	Yes	FAC*
Red Maple *(Acer rubrum)*	7	10.5	20.0	Yes	FAC*
Sedges sp.	7	10.5	20.0	Yes	FACW*
VINES					
None					

** Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.4; plants in the genus Sphagnum; plants listed as FAC, FACW, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.*

Vegetation conclusion:
Number of dominant wetland indicator plants: 9 **Number of dominant non-wetland indicator plants: 5**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes X No

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent. MA DEP: 3/95

Client: Stephan & Dana Antanavica

Section II. Indicators of Hydrology

7' downgradient of WF 1A

Hydric Soil Interpretation

1. Soil Survey

Is there a pub soil survey for this site? Yes X No

title/date: Worcester County, MA, Southern Part

map number: MA615

soil type mapped: Woodbridge fine sandy loam

hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes X No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	**0"-7"**	**10YR 2/1**	
B	**7"-14"**	**10YR 4/3**	**>10% 7.5YR 4/2**

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes_X__ No ___

Other Indicators of Hydrology: (check all that apply and describe)

___ Site inundated:_____

___ Depth to free water in observation hole:__**10"**_____

___ Depth to soil saturation in observation hole:__**5"**_____

___ Water marks:_____

___ Drift lines: _____

___ Sediment deposits:_____

___ Drainage patterns in BVW:_____

___ Oxidized rhizospheres: _____

___ Water-stained leaves:_____

___ Recorded data (stream, lake, or tidal gauge; aerial photo; other) :_

_____

___ Other: _____

Vegetation and Hydrology Conclusion	Yes	No
Number of wetland indicator plants ≥ number of non-wetland indicator plants:	X	
Wetland hydrology present: hydric soil present:	X	
other indicators of hydrology present:	X	
Sample location is in a BVW:	X	

Submit this form with the Request for Determination of Applicability or Notice of Intent.

Soil Map—Worcester County, Massachusetts, Southern Part

Map Scale: 1:2,370 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0, 35, 70, 140, 210

Feet: 0, 100, 200, 400, 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

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: Worcester County, Massachusetts, Southern Part
Survey Area Data: Version 15, 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
307C	Paxton fine sandy loam, 8 to 15 percent slopes, extremely stony	3.0	11.1%
310B	Woodbridge fine sandy loam, 3 to 8 percent slopes	10.8	39.6%
312B	Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony	13.5	49.3%
Totals for Area of Interest		**27.3**	**100.0%**

Worcester County, Massachusetts, Southern Part

310B—Woodbridge fine sandy loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2t2ql
Elevation: 0 to 1,470 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Woodbridge, fine sandy loam, and similar soils: 82 percent
Minor components: 18 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodbridge, Fine Sandy Loam

Setting

Landform: Ground moraines, drumlins, hills
Landform position (two-dimensional): Summit, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 7 inches: fine sandy loam
Bw1 - 7 to 18 inches: fine sandy loam
Bw2 - 18 to 30 inches: fine sandy loam
Cd - 30 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 39 inches to densic material
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C/D

Ecological site: F144AY037MA - Moist Dense Till Uplands
Hydric soil rating: No

Minor Components

Paxton

Percent of map unit: 10 percent
Landform: Drumlins, ground moraines, hills
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Nose slope, side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex
Hydric soil rating: No

Ridgebury

Percent of map unit: 8 percent
Landform: Depressions, ground moraines, hills, drainageways
Landform position (two-dimensional): Toeslope, backslope, footslope
Landform position (three-dimensional): Base slope, head slope, dip
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Worcester County, Massachusetts, Southern Part
Survey Area Data: Version 15, Sep 9, 2022

Worcester County, Massachusetts, Southern Part

312B—Woodbridge fine sandy loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2t2qs
Elevation: 0 to 1,580 feet
Mean annual precipitation: 36 to 71 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 140 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Woodbridge, extremely stony, and similar soils: 82 percent
Minor components: 18 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodbridge, Extremely Stony

Setting

Landform: Ground moraines, hills, drumlins
Landform position (two-dimensional): Summit, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material
A - 2 to 9 inches: fine sandy loam
Bw1 - 9 to 20 inches: fine sandy loam
Bw2 - 20 to 32 inches: fine sandy loam
Cd - 32 to 67 inches: gravelly fine sandy loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 43 inches to densic material
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 19 to 27 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C/D
Ecological site: F144AY037MA - Moist Dense Till Uplands
Hydric soil rating: No

Minor Components

Paxton, extremely stony

Percent of map unit: 10 percent
Landform: Ground moraines, hills, drumlins
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Hydric soil rating: No

Ridgebury, extremely stony

Percent of map unit: 8 percent
Landform: Hills, drainageways, drumlins, depressions, ground moraines
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Head slope, base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Worcester County, Massachusetts, Southern Part
Survey Area Data: Version 15, Sep 9, 2022