



# Town of Sturbridge

## Conservation Commission

### Notice of Intent Application Checklist – Sturbridge Wetland Bylaw (Section 3.50)

Applicant / Property Owner 123 KIDS LLC

Representative DC ENGINEERING & SURVEY, INC.

Project Location 59 New Boston Rd.

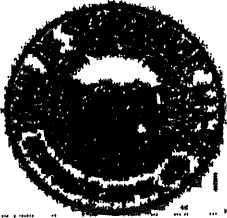
Assessor's Information Map 455-02521-059

Date NOI filed with Conservation July 31, 2019

- Complete most recent NOI Form (Notice of Intent Application) and necessary attachments (2 copies)
- Plans and calculations clearly describing the location and nature of the work including all necessary Stormwater documents if applicable (2 copies)
- An 8.5 x 11 color section of the USGS Quadrangle (topo) identifying the locus and with a scale
- An 8.5 x 11 copy of the most recent Natural Heritage Map with WH, PH and VP data identifying the locus and with a scale
- An 8.5 x 11 copy of the FIRM Map identifying the locus and with a scale
- Copy of the Certified Abutters List (to include all abutters within 200-feet of the subject property) and a copy of the completed Abutter Certification Form
- Signed Affidavit of Service for Abutter Notification
- Filing fee check –made out to the Town of Sturbridge (See Local Filing Fee Worksheet)
- Tax Form signed by the Sturbridge Tax Collector, notifying the Conservation Commission that the property taxes are paid-to-date (1 copy)

This Check list is to be filled out and submitted to the Sturbridge Conservation Commission at the time of filing the Notice of Intent Application.

Please contact the Conservation Department if you have any questions (508)-347-2506.



Sturbridge Conservation Commission

Notice of Intent

Sturbridge Wetland Bylaw Section 3.50



A. General Information

1. Project Location:

59 New Boston Rd.  
a. Street Address

STURBRIDGE  
b. City/Town

01566  
c. Zip Code

455 - 02521 - 059  
d. Assessors Map/Plat Number

e. Parcel /Lot Number

2. Applicant:

123 KIDS LLC  
a. First Name

b. Last Name

71 Hillsville Rd.  
c. Organization  
d. Street Address

NORTH BROOKFIELD  
e. City/Town

MA  
f. State

RECEIVED 01535  
JUL 31 2019  
CONSERVATION

508-479-3787  
h. Phone Number

i. Fax Number

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):

JASON  
a. First Name

DUBOIS  
b. Last Name

DC ENGINEERING & SURVEY, INC.  
c. Company

32 CRAWBERRY MEADOW Rd.  
d. Street Address

CHARLTON  
e.

MA  
f. State

01507  
g. Zip Code

508-769-6659  
h. Phone Number

i. Fax Number

jdubois2001@yahoo.com  
j. Email address

5. Total Fee Paid (Attach with submittal from Filing Fee Worksheet):

\$66.30  
Fee Paid



Sturbridge Conservation Commission

Notice of Intent

Sturbridge Wetland Bylaw Section 3.50



6. General Project Description:

CONSTRUCTION OF A SINGLE FAMILY HOUSE WITH DRIVEWAY OUTSIDE THE 100-FT BUFFER ZONE, WITHIN THE 200-FT BUFFER ZONE.

7. Project Type Checklist:

- 1. [X] Single Family Home
2. [ ] Residential Subdivision
3. [ ] Commercial/Industrial
4. [ ] Dock/Pier
5. [ ] Utilities
6. [ ] Coastal engineering Structure
7. [ ] Agriculture (e.g., cranberries, forestry)
8. [ ] Transportation
9. [ ] Other:

8. Property recorded at the Registry of Deeds for:

Worcester
a. County
60012
c. Book
b. Certificate # (if registered land)
368
d. Page Number

D. Signatures and Submittal Requirements

- 1. Attach a narrative and any supporting documentation describing how the project will protect the jurisdictional resource areas during construction and what Best Management Practices have been incorporated to ensure there will be no long-term impacts to the Resource Areas. Indicate distance to Resource Areas.
2. On a separate sheet, list the titles and dates for all plans and other materials submitted with this NOI.
3. If there is more than one property owner, please attach a list of these property owners not listed on this form.
4. Include the Town of Sturbridge Notice of Intent Application Checklist Signatures and Submittal Requirements
5. 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. The Commission will provide legal advertisement to the applicant and it is the applicants requirement to post in accordance to the applicable Sturbridge Bylaw and/or supporting regulations. I further certify under penalties of perjury that all abutters were notified of this application. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 200 feet of the property line of the project location.

1. Signature of Applicant
date

2. Signature of Property Owner (if different)
date

3. Signature of Representative (if any)
date 7-31-19



# Town of Sturbridge

## Conservation Commission

### Filing Fee Worksheet

Under M.G.L. c 131, § 40 and the Town of Sturbridge Wetland Bylaw

Applicant 123 KIDS LLC

Applicant Representative DC ENGINEERING & SURVEY INC.

Project location 59 NEW BOSTON Rd.

#### TOTAL STATE FEE REQUIRED FOR PROJECT

(Only subject to NOI and ANRAD filings—See Wetland Fee Transmittal Form): N/A

State Fee Category(s) \_\_\_\_\_

Total State Fee for project (include Riverfront Area adjustment if applicable) \_\_\_\_\_

State share of State Fee \_\_\_\_\_

Local share of State Fee \_\_\_\_\_

#### TOTAL ADDITIONAL LOCAL FEE REQUIRED FOR PROJECT\*:

(See Sturbridge Wetland Bylaw Regulations Section 4.17)

- Standard NOI Fee = \$50.00  (check if applicable)
  - Standard RDA Fee = \$25.00 \_\_\_\_\_ (check if applicable)
  - Standard ANRAD Fee = \$00.10 per foot for resource area delineation \_\_\_\_\_ (check if applicable).  
# feet \_\_\_\_\_ x \$00.10 = \$ \_\_\_\_\_
  - Standard DELINEATION Fee = \$00.10 per foot for resource area delineation  (for all projects).  
# feet 163 x \$00.10 = \$ 16.30
- (for all projects that do not include an approved wetland delineation boundary by the Commission within 3 years prior to application submittal)
- REPLICATION Monitoring Fee = \$200.00 \_\_\_\_\_ (check if applicable)  
(for all projects that include wetland alteration and wetland replication)

#### CUMULATIVE TOTAL FEES:

Total State Fee: N/A

Total Town Share of State Fee: N/A

Total Local Fee: \$ 66.30

#### \*Please Note:

For each NOI and ANRAD filing, please submit two (2) checks to the Town of Sturbridge, one for the town's portion of the state fee and one for the local fee(s). RDA filings only have a Local Fee at this time.

The advertising fee is not included in the calculation. The Applicant will pay the Southbridge News directly.



# Town of Sturbridge

## Conservation Commission

### STURBRIDGE CONSERVATION COMMISSION AFFIDAVIT OF SERVICE

Under the Town of Sturbridge Wetland Bylaw, I JASON DUBOIS, hereby certify under the pains and penalties of perjury that on (date) 8/5/2019, I gave notification to abutters, in compliance with this Bylaw and Regulations, in connection with a Notice of Intent filed under this Bylaw. This Notice of Intent was filed with the Sturbridge Conservation Commission on (date) 7/31/2019 for the property located at 59 NEW BOSTON Rd.

The form of the Notification and a list of abutters to whom it was given and their addresses are included in the application file.

Jason Dubois, Agent - 7-31-19  
(Signature of applicant) (Date)

JASON DUBOIS  
(Name of applicant-printed or typed)



# Town of Sturbridge

## Conservation Commission

### Notification to Abutters

under the Town of Sturbridge Wetland Bylaw and Regulations

In accordance the Town of Sturbridge Wetland Bylaw and Regulations, you are hereby notified of the following permit application for work within the 200-foot buffer zone to a resource area:

- A. The name of the applicant is: 123 KIDS LLC
- B. The address of the lot(s) where the activity is proposed is: 59 NEW BOSTON RD.
- C. The nature of the activity proposed includes: CONSTRUCTION OF SINGLE FAMILY HOUSE
- D. This applicant has submitted a Notice of Intent application with the Sturbridge Conservation Commission, seeking permission to conduct work within the 200 foot buffer zone of a resource area.
- E. This application may be examined prior to the hearing:
- At the Sturbridge Conservation Department, 301 Main Street, Center Office Building, Monday, Wednesday, Thursday 8:00am-4:00 pm, Tuesday 8:00am-7:00pm or Friday 8:00am-12:00pm, or call for an appointment.
  - Online at the Town of Sturbridge website under Conservation Commission, Recent Filings.
- F. Copies of the application may also be obtained from the applicant or the applicant's representative: DC ENGINEERING & SURVEY INC., by calling telephone # 508-769-6659 between the hours of 8:00 - 4:00 on these days of the week: M-F

This hearing is scheduled for (Date and Time): \_\_\_\_\_.

If the schedule is not determined at the time of this mailing, Abutters may call or email this office, or see our website.

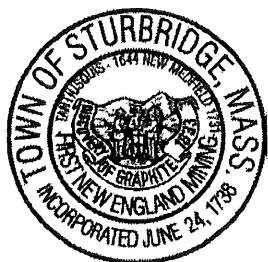
Public Hearings are held in the Center Office Building, 301 Main Street, 2nd Floor.

- **PLEASE NOTE: Notice of this Public Hearing will be published as follows:**
  - In The Southbridge Evening News at least five business days in advance of the hearing.
  - In the Sturbridge Town Hall at the Town Clerks office, not less than 48 hours in advance of the hearing.
  - On the Town website Meeting Calendar not less than 48 hours in advance of the hearing.
  - On the Conservation Commission webpage not less than 48 hours in advance of the hearing.

**Please Note:** Since you are receiving this notice, **you** may also have wetland resource areas or wetland buffers on or near your property. Therefore, any work including construction, cutting, clearing, or grading may require a permit.

For clarification or for more information, call the Conservation office 508-347-2506 or visit our web site [www.town.sturbridge.ma.us](http://www.town.sturbridge.ma.us) (click on Government, Conservation).

Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
455-02523-66A	BIRRI STEVEN A	66A NEW BOSTON ROAD	STURBRIDGE	MA	01566	66A NEW BOSTON ROAD
455-02513-068	DAWSON MARTIN H II	68 NEW BOSTON ROAD	STURBRIDGE	MA	01566	68 NEW BOSTON ROAD
105-02521-021	DOW CYNTHIA M TRUSTEE	26 ADAMS ROAD	STURBRIDGE	MA	01566	21 ADAMS ROAD
455-02521-063	GOESS CHRISTIAN A	112 MASHAPPAUG ROAD	STURBRIDGE	MA	01566	63 NEW BOSTON ROAD
455-02523-058	GRIFFIN BARBARA J	58 NEW BOSTON ROAD	STURBRIDGE	MA	01566	58 NEW BOSTON ROAD
455-02521-061	LAFORTUNE RYAN M	43 DRAPER WOODS ROAD	FISKDALE	MA	01518	61 NEW BOSTON ROAD
455-02521-055	LULU SUZANNE E	114 DAVIS HILL ROAD	PAXTON	MA	01612	55 NEW BOSTON ROAD
455-02521-057	LULU SUZANNE E	114 DAVIS HILL ROAD	PAXTON	MA	01612	57 NEW BOSTON ROAD
455-02523-066	MANBECK JEANNE E	PO BOX 162	STURBRIDGE	MA	01566	66 NEW BOSTON ROAD
455-02523-064	MANNERS HAROLD E	64 NEW BOSTON RD	STURBRIDGE	MA	01566	64 NEW BOSTON ROAD
105-02522-026	MOOSEY CYNTHIA DOW	26 ADAMS ROAD	STURBRIDGE	MA	01566	26 ADAMS ROAD
455-02523-062	MULLEN STEPHEN P	62 NEW BOSTON RD	STURBRIDGE	MA	01566	62 NEW BOSTON ROAD
105-02521-017	TEMPLE RUSSELL J	17 ADAMS ROAD	STURBRIDGE	MA	01566	17 ADAMS ROAD
	BOARD OF ASSESSORS					
Above persons listed are record owners as they appear on the most recent applicable tax list.						
Assessors are not responsible for errors or omissions. RE: M.G.L. - Chapter 40A, Section 11						
Abutters List -	Conservation Commission - 200'					
RE: 59 NEW BOSTON ROAD						
Certified Copy						
Assessor:	<i>[Signature]</i>					
Date:	7-30-19					



# Town of Sturbridge

Barbara A. Barry, Finance Director

Department/Board/Committee: CONSERVATION COMMISSION

Please verify outstanding tax/fee status for the following property owner:

Property Owner: 123 KIDS LLC

Property Location: 59 NEW BOSTON Rd.

- The license/permit may be released.  
 The license/permit may not be released.

*fn* Deborah Moore  
Finance Director

7/31/19  
Date



# EcoTec, Inc.

ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street

Worcester, MA 01605-2629

508-752-9666 – Fax: 508-752-9494

July 29, 2019

Jason Dubois, PE  
DC Engineering & Survey, Inc.  
32 Cranberry Meadow Road  
Charlton, MA 01507

RE: Wetland Resource Evaluation, Lot 4 New Boston Road, Sturbridge, Massachusetts

Dear Mr. Dubois:

On July 9, 2019, EcoTec, Inc. inspected the above-referenced property for the presence of wetland resources as defined by: (1) the Massachusetts Wetlands Protection Act (M.G.L. Ch. 131, § 40; the "Act") and its implementing regulations (310 CMR 10.00 *et seq.*; the "Regulations"); and (2) the U.S. Clean Water Act (i.e., Section 404 and 401 wetlands). Scott Morrison, PWS conducted the inspection.

The subject site consists of a 1.38-acre parcel located to the west of New Boston Road just northerly of Adams Road in Sturbridge. The upland portions of the site consist of undeveloped forest. Plant species observed include northern red oak (*Quercus rubra*), white oak (*Quercus alba*), eastern white pine (*Pinus strobus*), black cherry (*Prunus serotina*), red maple (*Acer rubrum*), and white ash (*Fraxinus americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*), and Virginia creeper (*Parthenocissus quinquefolia*) climbing woody vines; American witch-hazel (*Hamamelis virginiana*), highbush blueberry (*Vaccinium corymbosum*), mountain laurel (*Kalmia latifolia*), eastern red cedar (*Juniperus virginiana*), and black huckleberry (*Gaylussacia baccata*) shrubs; and sheep-laurel (*Kalmia angustifolia*), lowbush blueberry (*Vaccinium angustifolium*), bracken fern (*Pteridium aquilinum*), and wild-lily-of-the-valley (*Maianthemum canadense*) ground cover. The wetland resources observed on the site are described below.

## Methodology

The site was inspected, and areas suspected to qualify as wetland resources were identified. The boundary of Bordering Vegetated Wetlands was delineated in the field in accordance with the definition set forth in the regulations at 310 CMR 10.55(2)(c). Section 10.55(2)(c) states that "The boundary of Bordering Vegetated Wetlands is the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist." The methodology used to delineate Bordering Vegetated Wetlands is further described in: (1) the BVW Policy "*BVW: Bordering Vegetated Wetlands Delineation Criteria and*

*Methodology*," issued March 1, 1995; and (2) "Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook," produced by the Massachusetts Department of Environmental Protection, dated March 1995. The plant taxonomy used in this report is based on the *National List of Plant Species that Occur in Wetlands: Massachusetts* (Fish and Wildlife Service, U.S. Department of the Interior, 1988). Federal wetlands were presumed to have boundaries conterminous with the delineated Bordering Vegetated Wetlands. One set of DEP Bordering Vegetated Wetland Delineation Field Data Forms completed for observation plots located in the wetlands and uplands near flag \_\_ is attached. The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the delineated wetland resources.

Flag Numbers	Flag Type	Wetland Types and Locations
Start A1 to A10 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the western portion of the site that is associated with an off-site intermittent stream.
Start B1 to B15 Stop	Blue Flags	Boundary of Bordering Vegetated Wetlands located in the western portion of the site that is associated with an off-site intermittent stream.

**Findings**

Wetland A and B (i.e., flags A1 to A10 & B1 to B15) consists of a forested swamp located in the west-central portion of the site that is associated with an intermittent stream. Plant species observed include red maple (*Acer rubrum*), yellow birch (*Betula alleghaniensis*), and American elm (*Ulmus americana*) trees and/or saplings; poison ivy (*Toxicodendron radicans*) climbing woody vines; highbush blueberry (*Vaccinium corymbosum*), common winterberry (*Ilex verticillata*), arrow-wood (*Viburnum dentatum*), speckled alder (*Alnus rugosa*), silky dogwood (*Cornus amomum*), sweet pepper-bush (*Clethra alnifolia*), and swamp azalea (*Rhododendron viscosum*) shrubs; and bristly blackberry (*Rubus hispidus*), cinnamon fern (*Osmunda cinnamomea*), royal fern (*Osmunda regalis*), sensitive fern (*Onoclea sensibilis*), skunk-cabbage (*Symplocarpus foetidus*), swamp Jack-in-the-pulpit (*Arisaema triphyllum*), Alaska goldthread (*Coptis trifolia*), spotted touch-me-not (*Impatiens capensis*), shining clubmoss (*Lycopodium lucidulum*), and sphagnum moss (*Sphagnum sp.*) ground cover. Evidence of wetland hydrology, including hydric soils, high groundwater, saturated soils, evidence of flooding, and drainage patterns, was observed within the delineated wetland. This vegetated wetland borders an intermittent stream; accordingly, the vegetated wetlands would be regulated as Bordering Vegetated Wetlands and the intermittent stream would be regulated as Bank under the Act and Bylaw. A 100-foot Buffer Zone extends horizontally outward from the edge of Bordering Vegetated Wetlands under the Act and a 200-foot Buffer Zone extends outward under the Bylaw.

Bordering Land Subject to Flooding is an area that floods due to a rise in floodwaters from a bordering waterway or water body. Where flood studies have been completed, the boundary of

Lot 4 New Boston Road, Sturbridge  
July 29, 2019  
Page 3.

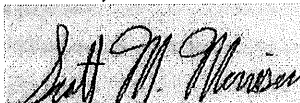
Bordering Land Subject to Flooding is based upon flood profile data prepared by the National Flood Insurance Program. Section 10.57(2)(a)3. states that "The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm." Based upon a review of the Flood Insurance Rate Map, Worcester County, Massachusetts, Map Number 25027C0927E, Effective Date July 4, 2011, the site is mapped as Other Areas: Zone X, which is defined as areas located outside of the 0.2% annual chance flood (i.e., outside of 500-year floodplain). The project engineer should evaluate the most recent National Flood Insurance Program flood profile data to confirm that Bordering Land Subject to Flooding does not occur on the site. Bordering Land Subject to Flooding would occur in areas where the 100-year flood elevation is located outside of or upgradient of the delineated Bordering Vegetated Wetlands boundary. Bordering Land Subject to Flooding does not have a Buffer Zone under the Act.

The Massachusetts Rivers Protection Act amended the Act to establish an additional wetland resource area: Riverfront Area. Based upon a review of the current USGS Map (i.e., Southbridge Quadrangle, dated 1982, attached) and observations made during the site inspection, there are no mapped or unmapped streams located within 200 feet of the site. Accordingly, Riverfront Area would not occur on the site. Riverfront Area does not have a Buffer Zone under the Act.

The Regulations require that no project may be permitted that will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures set forth at 310 CMR 10.59. Based upon a review of the *Massachusetts Natural Heritage Atlas*, 14<sup>th</sup> edition, Priority Habitats and Estimated Habitats from the NHESP Interactive Viewer, valid from August 1, 2017, and Certified Vernal Pools from MassGIS, there are no Estimated Habitats [for use with the Act and Regulations (310 CMR 10.00 *et seq.*)], Priority Habitats [for use with Massachusetts Endangered Species Act (M.G.L. Ch. 131A; "MESA") and MESA Regulations (321 CMR 10.00 *et seq.*)], or Certified Vernal Pools on or in the immediate vicinity of the site. A copy of this map is attached.

The reader should be aware that the regulatory authority for determining wetland jurisdiction rests with local, state, and federal authorities. A brief description of my experience and qualifications is attached. If you have any questions, please feel free to contact me at any time.

Cordially,  
ECOTEC, INC.



Scott M. Morrison, PWS  
Senior Environmental Scientist

Attachments (6, 8 pages)

17/E/SturbridgeNewBostonRdReport

**EcoTec, Inc.**

# EcoTec, Inc.

## ENVIRONMENTAL CONSULTING SERVICES

102 Grove Street

Worcester, MA 01605-2629

508-752-9666 – Fax: 508-752-9494

### **Scott M. Morrison, PWS, RPSS, SE** **Senior Environmental Scientist**

Scott Morrison is a Senior Environmental Scientist with EcoTec, Inc. Since joining EcoTec in 2000, Mr. Morrison's project experience include wetland resource evaluation, delineation, and permitting at the local, state, and federal levels; wildlife habitat evaluation; pond and stream evaluation; vernal pool evaluation, monitoring, and certification; wetland replacement, replication, and restoration area design, construction, and monitoring; soil evaluations to determine infiltration rates and seasonal high groundwater elevations for detention basin construction; environmental sampling and analysis tasks, including soil and groundwater sample collection and handling; and expert testimony preparation. He has conducted rare species habitat assessments for the eastern box turtle, wood turtle, Blanding's turtle, spotted turtle, and marbled salamander. He has participated in rare species studies for rare species including the marbled salamander, piping plover, eastern box turtle, and northern diamondback terrapin and developed mitigation strategies for the marbled salamander, spotted turtle, eastern box turtle and wood turtle. He has participated in visual preconstruction sweeps for the wood turtle and both preconstruction and research projects for the eastern box turtle. He has served as a consultant to municipalities, conservation commissions, engineering and survey firms. He has completed numerous wetland related projects including environmental impact assessments for proposed development, erosion control and environmental monitoring for subdivisions, commercial developments, golf courses and landfills. He has prepared Massachusetts Environmental Policy Act (MEPA) documentation, including Environmental Notification Forms (ENFs), Notice of Project Changes (NPCs), and Draft and Final Environmental Impact Reports (EIRs) including Green House Gas Assessments for various projects including subdivisions, commercial buildings, and dredging projects. Prior to joining EcoTec, Inc. Mr. Morrison worked for the Massachusetts Department of Environmental Management (currently the Department of Conservation and Recreation) where he was involved with the monitoring and protection of endangered species and rare old growth forest. He was an active member of the Spencer Conservation Commission from 1998 to 2000 where he provided oversight of proposed wetland replication projects and review of projects submitted for wetland permitting. His educational background includes courses in forestry, ecology, chemistry, soils, and natural resource policy. His prior research experience includes research on forest succession and field research on nesting piping plovers, an endangered coastal shore bird.

#### **Education:**

Graduate Soil Science Certificate Program  
University of Massachusetts at Amherst, 2006  
Bachelor of Science: Natural Resource Studies  
University of Massachusetts at Amherst, 1998  
Associate of Science: Business Administration  
Quinsigamond Community College, 1996

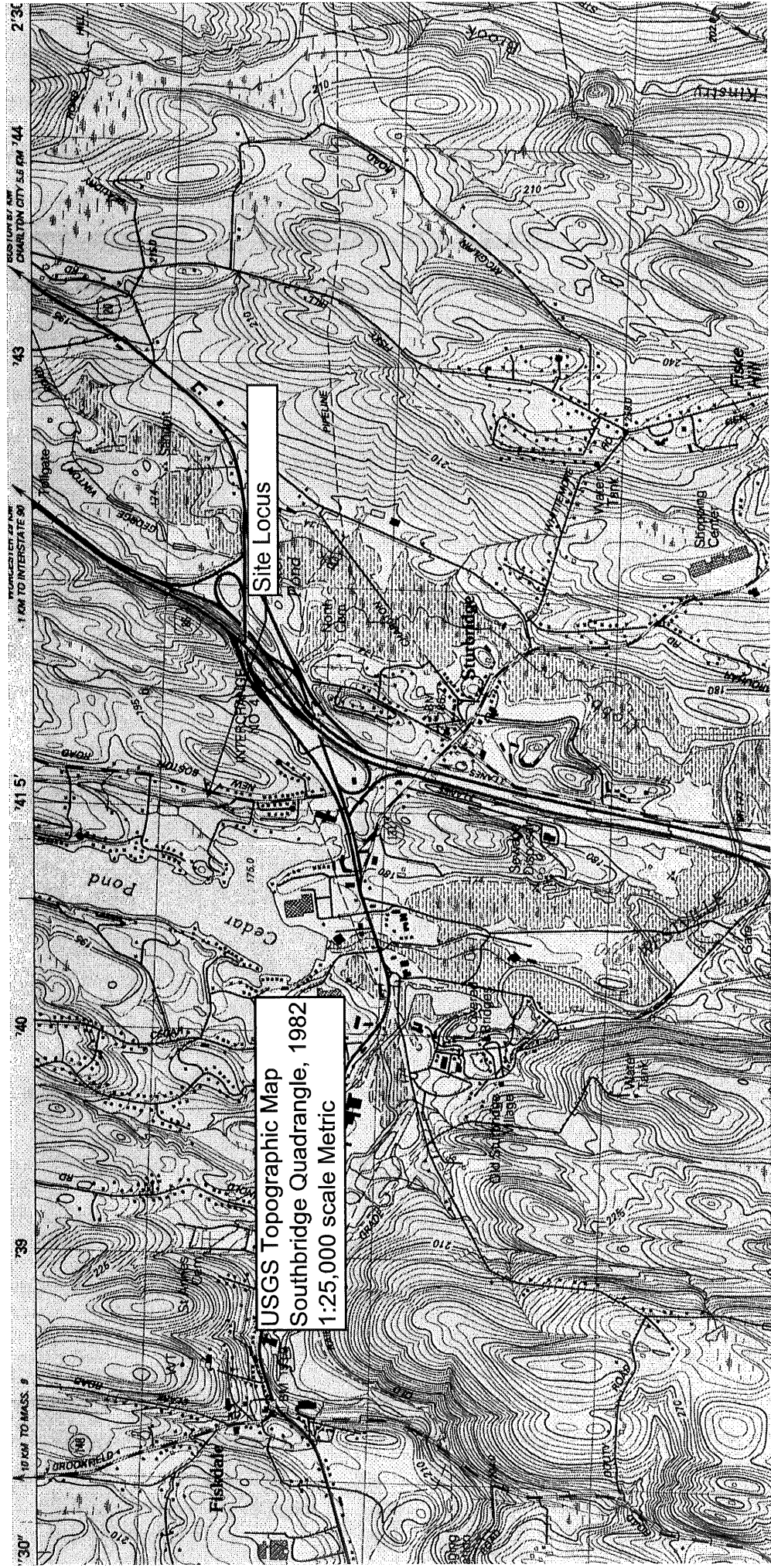
#### **Professional Affiliations:**

Registered Professional Soil Scientist, Society of Soil Scientists of  
Southern New England (SSSSNE)  
Massachusetts Association of Conservation Commissioners  
Association of Massachusetts Wetland Scientists  
Society of Wetland Scientists

#### **Certifications:**

Society of Wetlands Scientists Professional Wetland Scientist,  
Certification Number 2583  
Massachusetts Department of Environmental Protection Soil Evaluator,  
Certification Number SE 13766

OSHA Health and Safety Training, 40-Hour, 29 CFR 1910.120



19 KM TO MASS. 9  
'30"  
FOR DISTANCE OF 1 KM TO INTERSTATE 90  
'41 5'  
'43  
2:30  
RESURVEYED BY CHARLTON CITY SE RM 744

USGS Topographic Map  
Southbridge Quadrangle, 1982  
1:25,000 scale Metric

Site Locus

Natural Heritage Atlas Online Data Viewer Output 6.18.19



NHESP Certified Vernal Pools

\*

Major MassDOT Routes

Interstate Highways

US Roads

State

Massachusetts Towns

NHESP Estimated Habitats of Rare Wildlife

NHESP Priority Habitats of Rare Species

Orithos 2013-2014

2013-2014 Coler Orithos (USGS)

# National Flood Hazard Layer FIRMette



42°7'14.56"N

72°5'20.88"W



USGS The National Map: Originimagery, Data refreshed April, 2019.

42°6'47.87"N

Feet

2,000

1,500

1,000

500

0

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

Minimal Base Flood Elevation (BFE)  
 2011 V.19  
 With BFE of Depth Zone AE, A, X, VE, AP  
 Regulatory Floodway

- OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
  - Future Conditions 1% Annual Chance Flood Hazard *Zone X*
  - Area with Reduced Flood Risk due to Levee. See Notes, *Zone X*
  - Area with Flood Risk due to Levee *Zone D*

- OTHER AREAS**
- No SCREEN
  - Area of Minimal Flood Hazard *Zone X*
  - Effective LOMRs
  - Area of Undetermined Flood Hazard *Zone D*

- GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
  - Levee, Dike, or Floodwall

- OTHER FEATURES**
- Cross Sections with 1% Annual Chance Water Surface Elevation
  - Coastal Transect
  - Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature

- MAP PANELS**
- Digital Data Available
  - No Digital Data Available
  - Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/18/2019 at 10:48:46 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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

Applicant: [REDACTED]      Prepared by: EcoTec, Inc      Project Location: New Boston Rd, Sturbridge      DEP File #  
 Section I. Vegetation      Number: Upland      Transect # A-8      Date of Delin: 7/9/2019      Wetland

A. Sample layer and plant species (Enter largest to smallest % cover by layer)	Percent Cover (or basal area)	Percent Dominance	Dominant Plant?	Indicator Category
Tree				
red oak	60	60.0	YES	FACU-
white oak	20	20.0	YES	FACU-
eastern hemlock	20	20.0	YES	Wet*
[REDACTED]				
Sapling				
eastern hemlock	60	100.0	YES	Wet*
[REDACTED]				
Shrub				
none				
[REDACTED]				
Ground				
none				
[REDACTED]				
Vine				
[REDACTED]				

Vegetation Conclusions	Number of dominant non-wetland indicator plants	Number of dominant non-wetland indicator plants
Number of dominant wetland indicator plants	2	2
Is the number of dominant wetland plants equal or greater than the number of dominant non-wetland plants?	YES	YES



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

Applicant: [redacted] Prepared by: EcoTec, Inc Project Location: New Boston Rd, Sturbridge DEP File #  
 Section II. Indicators of Hydrology Number: Upland Transect # A-8 Date of Delin: 7/9/2019

### 1. Soil Survey

Is there a published soil survey for this site?

title/date [redacted]  
 map number [redacted]  
 soil type mapped [redacted]  
 hydric soil inclusions [redacted]

Are field observations consistent with soil survey?

Remarks: [redacted]

### 2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottle Color
A	0-6	10YR 3/2	
Bw	6-12+	10YR 4/6	

Remarks sand

### 3. Other

Conclusion: Is the soil hydric? No

### Other Indicators of hydrology (check all that apply):

- 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 BVWs
- Oxidized rhizospheres
- Water stained leaves
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):
- Other:

### Vegetation and Hydrology Conclusion

- Number of wetland indicator plants ≥ number of non-wetland indicator plants
 

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>
- Wetland hydrology present:
 

Hydric soil present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other indicators of hydrology present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
- Sample Location is in a BVW
 

Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Applicant: [Redacted] Prepared by: EcoTec, Inc Project Location: New Boston Rd, Sturbridge DEP File # [Redacted]

Date of Delin: 7/9/2019

Transect # A-8

Number: Wetland

Section I. Vegetation		Wetland	
A. Sample layer and plant species (Enter largest to smallest % cover by layer)	Percent Cover (or basal area)	Percent Dominance	Dominant Plant? Indicator Category
Tree			
eastern hemlock	40		50.0 YES WET *
white ash	20		25.0 YES FACU
red maple	20		25.0 YES FAC *
Sapling			
eastern hemlock	60		100.0 YES WET *
Shrub			
none			
Ground			
none			
Vine			

Vegetation Conclusions	
Number of dominant wetland indicator plants	3
Is the number of dominant wetland plants equal or greater than the number of dominant non-wetland plants?	Number of dominant non-wetland indicator plants YES

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

Applicant: [redacted] Prepared by: EcoTec, Inc Project Location: New Boston Rd, Sturbridge DEP File #  
 Section II. Indicators of Hydrology Number: Wetland Transect # A-8 Date of Delin: 7/9/2019

### 1. Soil Survey

Is there a published soil survey for this site?

title/date [redacted]  
 map number [redacted]  
 soil type mapped [redacted]  
 hydric soil inclusions [redacted]

Are field observations consistent with soil survey?

Remarks: [redacted]

### 2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottle Color
O	0-8	[redacted]	[redacted]
A	8-12	10YR 2/1	[redacted]
Bg	12-16+	10YR 4/1	[redacted]

Remarks sand

### 3. Other

Conclusion: Is the soil hydric? Yes

### Other Indicators of hydrology (check all that apply):

- Site Inundated [redacted]
- Depth to free water in observation hole surface
- Depth to soil saturation in observation hole surface
- Water marks [redacted]
- Drift lines [redacted]
- Sediment Deposits [redacted]
- Drainage patterns in BVWs [redacted]
- Oxidized rhizospheres [redacted]
- Water stained leaves [redacted]
- Recorded data (stream, lake, or tidal gauge; aerial photo; other): [redacted]
- Other: [redacted]

### Vegetation and Hydrology Conclusion

- Number of wetland indicator plants  $\geq$  number of non-wetland indicator plants Yes  No
- Wetland hydrology present:
  - Hydric soil present
  - Other indicators of hydrology present
- Sample Location is in a BVW