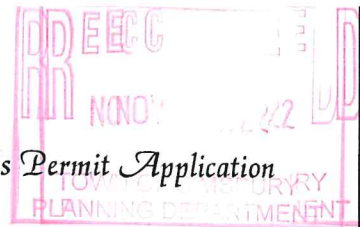




# Town of Simsbury

Office of Community Planning and Development - Inland Wetlands Permit Application



DATE: \_\_\_\_\_ FEE: \$ \_\_\_\_\_ CK #: \_\_\_\_\_ APP #: \_\_\_\_\_

PROPERTY ADDRESS: Tariffville Road from Hopmeadow St. (Rt. 10) to Curtiss/Pattison Parks

NAME OF APPLICANT: Town of Simsbury, attn.: Thomas J. Roy, PE, Town Engineer

MAILING ADDRESS: 933 Hopmeadow Street, Simsbury, CT 06070

EMAIL ADDRESS: Troy@simsbury-ct.gov TELEPHONE # 860.658.3222

NAME OF OWNER: Town of Simsbury, Maria Capriola, Town Manager and State of Connecticut, Department of Transportation, Route 315 Right-of-Way

MAILING ADDRESS: 933 Hopmeadow Street

EMAIL ADDRESS: mcapriola@simsbury-ct.gov TELEPHONE # 860.658.3230

*NOTE: ATTACH A WRITTEN LETTER OF AGENCY, DULY ACKNOWLEDGED, TO ACT FOR THE OWNER, INCLUDING THE ABILITY TO CARRY OUT ACTIVITIES SET FORTH HEREIN.*

DESCRIBE THE SPECIFIC ACTIVITY(ies) FOR WHICH A PERMIT IS SOUGHT AS IT RELATES TO "REGULATED ACTIVITIES" AS DEFINED IN SECTION 6 OF THE SIMSBURY INLAND WETLANDS REGULATIONS, SUCH AS: A) REMOVE MATERIAL FROM; B) DEPOSIT MATERIAL IN OR DISCHARGE TO; C) CONSTRUCT ON; D) OBSTRUCT; E) ALTER; F) POLLUTE; OR G) OTHERWISE ADVERSELY AFFECT A REGULATED AREA:

Installation of 10 foot wide bituminous concrete trail, two pedestrian boardwalks, formal river access, and guardrail along Farmington River/Salmon Brook floodplain wetlands.

The proposed project will result in approximately 0.4 cubic yards of permanent fill within the Farmington River due to installation of the proposed river access stone steps.

Approximately 990 square feet(sf) of disturbance in federal wetlands and 5,300 square feet of temporary disturbance in federal wetlands is also required to construct the trail.

Also 46,360 sf of permanent alteration of state wetlands is required to construct the trail. State wetlands in the project area generally consist of maintained lawn with scattered trees, fences, and a gravel entrance drive to Curtiss Park.

### CERTIFICATIONS AND PERMISSIONS:

As owner, I hereby give permission to the Town of Simsbury's Conservation Commission Inland Wetlands Watercourses Agency, their Agents, or Town Staff to enter upon my land to make observations and tests as may be necessary to evaluate this application and ongoing work, subject to twenty-four hours notice of such entry/testing.

I hereby certify that all statements herein are true to the best of my knowledge, whether made by me or my agents. Any permit issued shall be contingent upon field conditions and activities being substantiated as indicated herein. A changed situation shall require reconsideration of the permit by the Commission upon discovery by either party.

I certify that I have the authority to sign this application.

Maria E. Capriola 11/22/22

Signature of Owner

Date

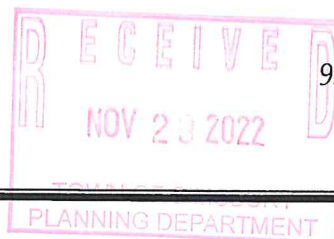
Signature and Title of Applicant

Date

**EXHIBIT 1**

[www.simsbury-ct.gov](http://www.simsbury-ct.gov)

1 of 4



933 Hopmeadow Street  
Simsbury, CT 06070

## INSTRUCTIONS FOR APPLICATION

Any person seeking a permit to carry out a regulated activity on property which has been designated an inland wetland or watercourse by the Conservation Commission or within the 100-foot regulated buffer area of a designated inland wetland or watercourse must complete and submit the Inland Wetlands Permit Application to the Planning Department.

Submission shall occur by the day before a regular meeting of the Conservation Commission. (See Section 5 of the Inland Wetlands and Watercourses Regulations of the Town of Simsbury.) Application will be heard at the following meeting, after petition period.

The original application shall be submitted with eleven (11) copies. Maps on sheets larger than 11"x14" shall be submitted in at least three (3) copies. Additional copies of site plans may be required. PDFs of the maps, if available, should be submitted, as well. PDFs can be emailed to [lbarkowski@simsbury-ct.gov](mailto:lbarkowski@simsbury-ct.gov).

A filing fee shall accompany the application, as required by the Land Use Application Fees schedule. Please consult with the Planning Office for specific fee determination.

The following information shall be provided on white paper (8 ½"x11") and typewritten. Reproduce the following questions along with the answer and attach to the application.

1. *In the case of a public hearing or map amendment*, list on a separate sheet of paper the names and addresses of all abutting property owners and property owners within 100 feet of all property lines. Identify on one of the attached maps.
2. Describe the site and the regulated area or wetlands/watercourses involved:
  - a. General site conditions, including vegetation and general soil conditions.
  - b. Size of wetland within site or distance of the activity from the wetland.
  - c. Size of total contiguous wetland.
  - d. Position relative to other wetlands on site.
  - e. Type of wetland characterized by vegetative and soil type and/or watercourse, such as: 1) open/deep fresh water pond or lake; 2) shallow marsh; 3) seasonally flooded basins and flats; 4) meadow; 5) shrub swamp; 6) wooded swamp; 7) bog; 8) kettle; 9) stream type; 10) other.

3. Depth to water table, depth to mottled soil, and seasonal variation of water table.
4. Describe the immediate impact on the wetlands and watercourses, including, but not limited to:
  - a. Quantities, by volume and area disturbed, of materials to be removed, deposited, or altered.
  - b. Kinds of materials by soil types and vegetative classifications, and materials classification to be removed, deposited, or altered.
  - c. Percent of wetlands/watercourses disturbed or altered to total area of wetlands/watercourses on the parcel.
5. Describe the related construction activities and their impact on:
  - a. Area and location of wetlands and watercourses.
  - b. Types and amounts of vegetation.
  - c. Surface and groundwater.
  - d. Visual impacts.
  - e. Wildlife habitats.
6. Describe the long term or permanent impact of the activity(ies) on environmental aspects, such as the surface and groundwater quality, storm water runoff, visual impact(s), or wildlife habitats on:
  - a. Wetlands and/or watercourses.
  - b. Abutting riparian properties and/or wetlands and/or watercourses.
7. Identify sedimentation and erosion control measures to be used.
8. Identify alternatives to the proposed activity that were considered, including alternative sites and why this one was chosen.
9. Estimate cost of work and time for completion.
10. Attach drainage calculations and other reports as indicated to substantiate the statements made above.
11. **REQUIRED MAPS**
  - a. Attach a vicinity map on an 8 ½"x11" sheet at scale 1"=200' or 1"=800' (depending upon the size of the parcel) showing the general location of the area in which the regulated activity is proposed. The map should be in sufficient detail to allow the identification of the property on the official Inland Wetlands and Watercourses map. A guide to the kinds of information to be shown is available in the Planning Department at the Town Hall.

**b. Site Plan(s) showing:**

- i. The topography showing contours at intervals of not more than two (2) feet and a minimum of two (2) contour marks per ten (10) acres at a scale of 1"=100' or 1"=40' (whichever is more appropriate).
- ii. Location of existing watercourses and/or ponds.
- iii. Location of regulated activity.
- iv. Proposed grading and/or filling.
- v. Proposed drainage, site utilities, wells, etc.
- vi. Sedimentation and erosion control measures.

**12. The Applicant shall certify whether:**

- a. Any portion of the property on which the regulated activity is proposed is located within 500 feet of the boundary of an adjoining municipality.
- b. Traffic attributable to the completed project on the site will use streets within the adjoining municipality to enter or exit the site.
- c. Sewer or water drainage from the project site will flow through and affect the sewage or drainage system within the adjoining municipality or
- d. Water runoff from the improved site will affect streets or other municipal or private property within the adjoining municipality.
- e. Documentation that notice of the pending application was provided to the adjacent municipality (certified mail, return receipt requested) on the same day of filing an inland wetland permit application with the Town of Simsbury.
- f. The property is subject to a conservation restriction or preservation restriction, and, if so, what party or parties are holders thereof or intended to be benefitted thereby.

**ALL INFORMATION MUST BE COMPLETED TO THE EXTENT INDICATED BY THE COMMISSION BEFORE ANY ACTION IS TAKEN ON THE PERMIT APPLICATION. INCOMPLETE APPLICATIONS WILL BE DENIED. ADDITIONAL INFORMATION MAY BE REQUIRED BY THE COMMISSION.**

**THE APPLICANT AND/OR AUTHORIZED AGENT SHOULD ATTEND THE CONSERVATION COMMISSION/INLAND WETLANDS & WATERCOURSES AGENCY MEETING IN ORDER FOR A DECISION TO BE RENDERED. IF APPLICANT OR AGENT DOES NOT ATTEND, AND QUESTIONS ARISE, DECISION ON APPLICATION MAY BE DEFERRED OR DENIED.**



# Town of Simsbury

933 HOPMEADOW STREET ~ SIMSBURY, CONNECTICUT 06070

Engineering Department

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## INLAND WETLANDS PERMIT APPLICATION – MULTI-USE TRAIL FROM ROUTE 10 TO CURTISS

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**From:** Daniel F. Gannon, Project Engineer *DFG*  
**To:** George K. McGregor, AICP, Planning & Community Development Director  
**CC:** Adam D. Kessler, P.E., Deputy Town Engineer  
Joseph Hollis, Land Use Specialist  
**Date:** January 5, 2023

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The Plan Set dated May 2022 incorporates review and comments by the following agencies:

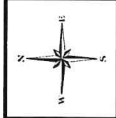
Connecticut Department of Energy & Environmental Protection (DEEP) with a Flood Management Certification Approval dated 06/10/2021. This approval authorizes the activities with typical general conditions; no special conditions were provided with this approval.

State of Connecticut Department of Transportation (CT DOT) with all items addressed in a letter dated 02/22/2021. Comments provided were in regards to traffic, easement acquisitions, signage, and drafting adjustments to the plan.

Natural Diversity Data Base (NDDB) with a determination dated 03/27/2020. This determination concurs with the proposed protection measures to avoid and minimize impacts to natural resources and wildlife. This determination expired 03/27/2021 and will be renewed as bid documents are finalized in 2023.

An application was submitted to United States Army Corps of Engineers (USACE) in July 2020, and the Town of Simsbury has worked with the Lower Farmington River and Salmon Brook Wild and Scenic Committee (LFSWS) over the past several months to address comments. Any final special conditions that LFSWS finds suitable will be incorporated into the USACE permit, although none are anticipated based on correspondence to date. The USACE is anticipated as early as January 2023.



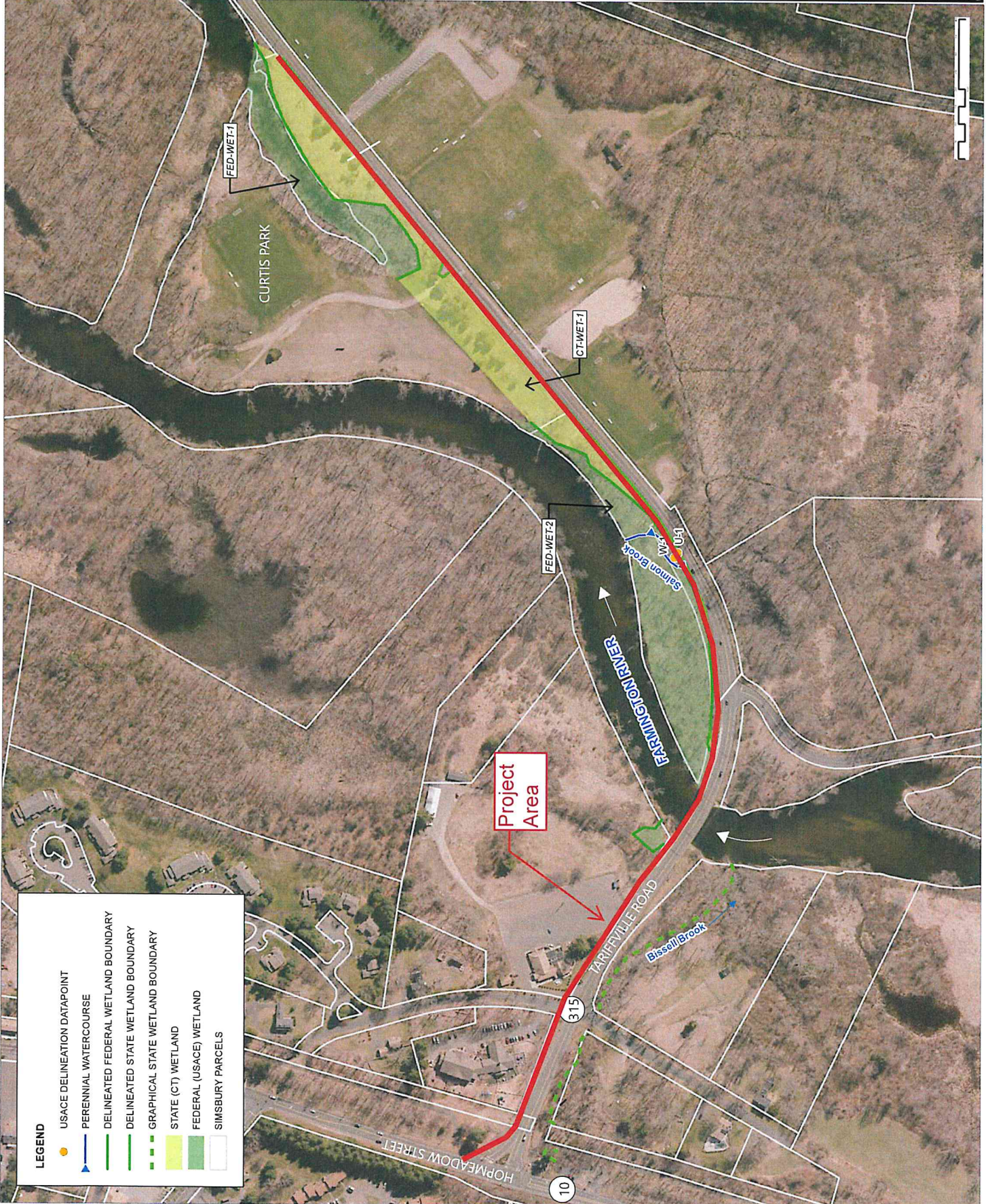


MILONE & MACBROOM  
 99 Realty Drive  
 Cheshire, Connecticut 06610  
 (203) 271-1773  
 www.mmlinc.com


WETLAND DELINEATION  
 TARIFFVILLE CONNECTION, MULTI-USE TRAIL  
 HOPMEADOW ST. TO CURTISS/PATTISON PARKS  
 TARIFFVILLE ROAD (CT ROUTE 315)  
 SIMSBURY, CT

AYO AYO MJS  
 DATE: 19 MAY 2020  
 SCALE: 1" = 350'  
 PROJECT NUMBER: 1613-20

FIGURE 2  
 SHEET NAME



**LEGEND**

- USACE DELINEATION DATAPoint
- PERENNIAL WATERCOURSE
- DELINEATED FEDERAL WETLAND BOUNDARY
- DELINEATED STATE WETLAND BOUNDARY
- GRAPHICAL STATE WETLAND BOUNDARY
- STATE (CT) WETLAND
- FEDERAL (USACE) WETLAND
- SIMSBURY PARCELS





## Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete - print clearly - and mail this form in accordance with the instructions on pages 2 and 3 to:  
Wetlands Management Section, Inland Water Resources Division, CT DEEP, 79 Elm Street – 3<sup>rd</sup> Floor, Hartford, CT 06106

### PART I: To Be Completed By the Municipal Inland Wetlands Agency Only

- DATE ACTION WAS TAKEN (enter one year and month): Year \_\_\_\_\_ Month \_\_\_\_\_
- ACTION TAKEN (enter one code letter): \_\_\_\_\_
- WAS A PUBLIC HEARING HELD (check one)? Yes \_\_\_\_\_ No \_\_\_\_\_
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:  
(type name) \_\_\_\_\_ (signature) \_\_\_\_\_

### PART II: To Be Completed By the Municipal Inland Wetlands Agency or the Applicant

- TOWN IN WHICH THE ACTION IS OCCURRING (type name): Simsbury  
Does this project cross municipal boundaries (check one)? Yes \_\_\_\_\_ No  \_\_\_\_\_  
If Yes, list the other town(s) in which the action is occurring (type name(s)): \_\_\_\_\_
- LOCATION (see directions for website information): USGS Quad Map Name: Tariffville or Quad Number: 21  
Subregional Drainage Basin Number: 4300
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): Thomas J. Roy - Town Engineer
- NAME & ADDRESS/LOCATION OF PROJECT SITE (type information): Tariffville Road, Simsbury, CT  
Briefly describe the action/project/activity (check and type information): Temporary \_\_\_\_\_ Permanent  \_\_\_\_\_  
Description: Installation of 10 foot wide bituminous concrete trail, two pedestrian boardwalks, formal river access, and guardrail along Farmington River/Salmon Brook floodplain wetlands.
- ACTIVITY PURPOSE CODE (enter one code letter): E
- ACTIVITY TYPE CODE(S) (enter up to four code numbers): 2, 12, 1, \_\_\_\_\_
- WETLAND / WATERCOURSE AREA ALTERED (type in acres or linear feet as indicated):  
Wetlands: \_\_\_\_\_ acres Open Water Body: 0 acres Stream: 0 linear feet
- UPLAND AREA ALTERED (type in acres as indicated): \_\_\_\_\_ acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type in acres as indicated): \_\_\_\_\_ acres

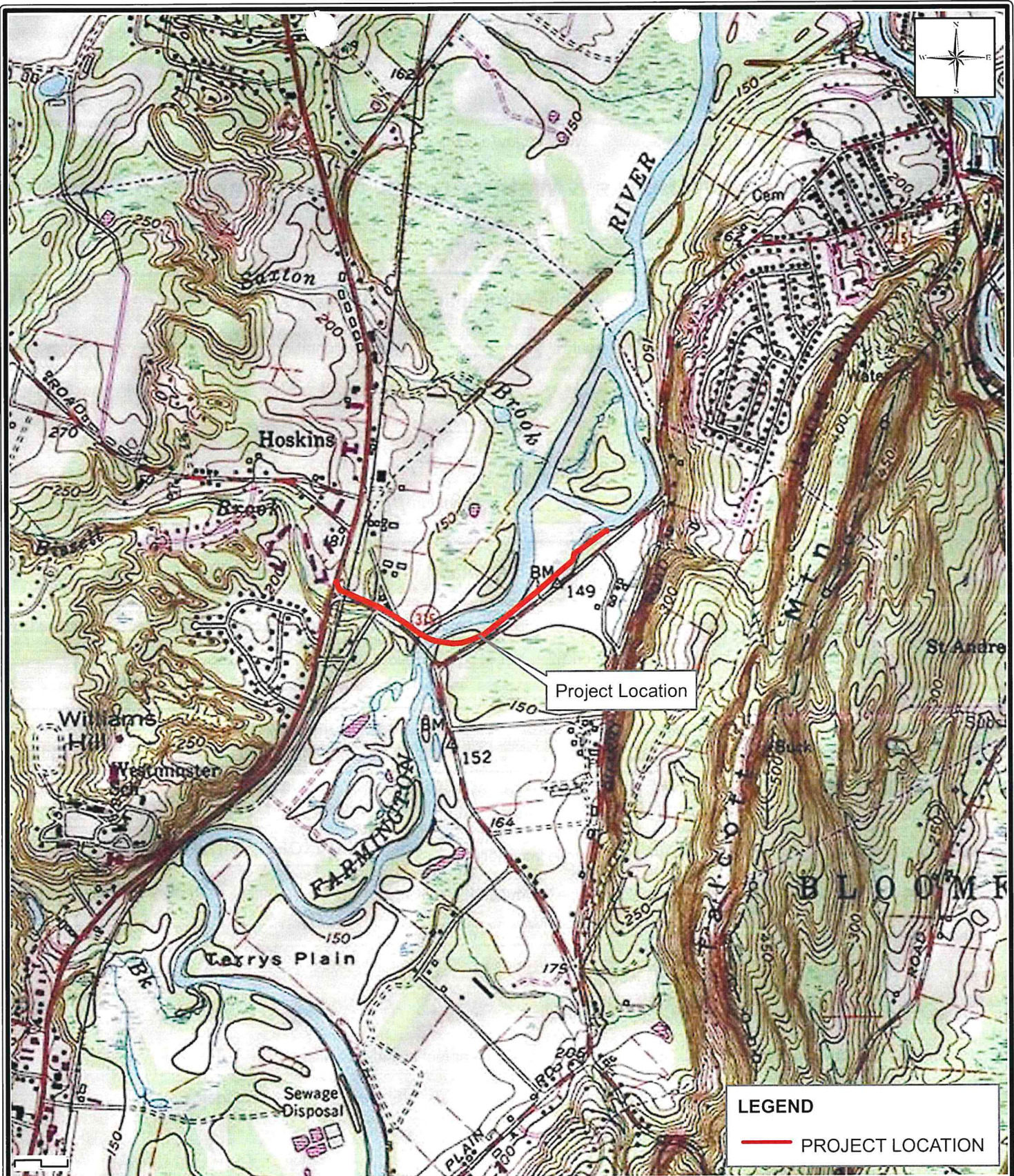
DATE RECEIVED:

### PART III: To Be Completed By the DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



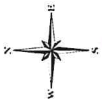
**MILONE & MACBROOM**  
 99 Realty Drive  
 Cheshire, Connecticut 06410  
 (203) 271-1773  
 www.mminc.com

**PROJECT LOCATION**  
 TARRIFVILLE CONNECTION, MULTI-USE TRAIL  
 HOPMEADOW ST. TO CURTISS/PATTISON PARKS  
 TARRIFVILLE ROAD (CT ROUTE 315)  
 SIMSBURY, CT

SOURCE: 2013 TOPOGRAPHIC MAP, NATIONAL GEOGRAPHIC SOCIETY

DATE: 21 MAY 2020  
 SCALE: 1"=2000feet  
 PROJ. NO.: 1613-20  
 DESIGNED: AYO | DRAWN: AYO | CHECKED: MJS

DRAWING NAME:  
**FIG. 1**






**LEGEND**

- USACE DELINEATION DATAPoint
- PERENNIAL WATERCOURSE
- DELINEATED FEDERAL WETLAND BOUNDARY
- DELINEATED STATE WETLAND BOUNDARY
- GRAPHICAL STATE WETLAND BOUNDARY
- STATE (CT) WETLAND
- FEDERAL (USACE) WETLAND
- SIMSBURY PARCELS

**TOWN OF SIMSBURY, CONNECTICUT**

**List of Abutters within 100 feet of Tariffville Connection, Multi Use Trail**

Parcel ID	I06 104 003	J05 411 012	J06 102 002	I06 102 001
Site Address	TERRYS PLAIN ROAD	HOPMEADOW STREET (REAR)	QUARRY ROAD	TARIFFVILLE ROAD
Owner Name	TOWN OF SIMSBURY	TOWN OF SIMSBURY	TOWN OF SIMSBURY	TOWN OF SIMSBURY
Mailing Address	933 HOPMEADOW STREET			
Mailing City	SIMSBURY	SIMSBURY	SIMSBURY	SIMSBURY
Mailing State	CT	CT	CT	CT
Mailing Zip	06070-0000	06070-0000	06070-0000	06070-0000
Parcel ID	I06 439 002	I06 439 001	I06 439 016A	I06 439 001
Site Address	TARIFFVILLE ROAD	TARIFFVILLE ROAD	20 TARIFFVILLE ROAD	1 ST JOHNS PLACE
Owner Name	TOWN OF SIMSBURY	TOWN OF SIMSBURY	STARDUST LLC	HUDSON JAMES
Mailing Address			133 HOLCOMB STREET	1661 VIA ARRIBA
Mailing City	SIMSBURY	SIMSBURY	SIMSBURY	PALOS VERDES ESTATES
Mailing State	CT	CT	CT	CA
Mailing Zip	06070-0000	06070-0000	06070-0000	90274-0000
Parcel ID	I06 141 003B	I06 141 001	I06 439 001A	I05 439 014
Site Address	5 ENO PLACE	4 ENO PLACE	11 ST JOHNS PLACE	SIMSBURY LANDING CONDO ASSOCIATION
Owner Name	AQUARION WATER COMPANY	AQUARION WATER COMPANY OF	DAVID C. PAQUETTE	C/O WESTFORD REAL ESTATE MANAGEMENT, LLC
Mailing Address	600 LINDLEY STREET	600 LINDLEY STREET	11 ST JOHNS PLACE	348 HARTFORD TURNPIKE, SUITE 200
Mailing City	BRIDGEPORT	BRIDGEPORT	SIMSBURY	VERNON
Mailing State	CT	CT	CT	CT
Mailing Zip	06606-0000	06606-0000	06070	06066

**Simsbury Inland Wetland Permit Application Supplemental Information  
for  
Tariffville Connection Multiuse Trail**

1. In the case of a public hearing or map amendment, list on a separate sheet of paper the names and addresses of all abutting property owners and property owners within 100 feet of all property lines. Identify on one of the attached maps.

**See attached Town Assessor's map and Table 1 – List of Abutters within 100 feet of the property.**

2. Describe the site and the regulated area or wetlands/watercourses involved:

**The project area consists of a mix of floodplain forests, meadows, and maintained lawn riparian areas along the Farmington River and maintained roadside areas within commercial properties along the north side of Tariffville Road. Commercial properties include a restaurant and a daycare center located west of the Tariffville Road bridge over the Farmington River. East of the bridge, public parks and undeveloped forested land exist.**

- a. General site conditions, including vegetation and general soil conditions.

**Federal wetlands in the project area consist of palustrine persistent emergent wet meadow and palustrine forested broad-leaved deciduous floodplain wetlands. FED-WET-1 consists of wet meadow adjacent to Curtiss Park athletic fields and transitions to forested wetland closer to the proposed project corridor. A backwater pool ranging in depth from a few inches to approximately 2 feet exists within the forested portion of this wetland. FED-WET-2 is primarily forested throughout although wet meadow exists along Tariffville Road surrounding Salmon Brook. Wet meadow areas are densely vegetated with a variety of forbs, including sensitive fern (*Onoclea sensibilis*), jewelweed (*Impatiens capensis*), common Joe-Pye weed (*Eutrochium purpureum*), reed canary grass (*Phalaris arundinacea*), goldenrod (*Solidago* sp.), ostrich fern (*Matteuccia struthiopteris*), poison ivy (*Toxicodendron radicans*), and long-beaked sedge (*Carex sprengei*). A few scattered shrubs, including American elderberry (*Sambucus canadensis*) and silky dogwood (*Swida amomum*), exist within the meadow. Forested wetland areas contain a variety of tree canopy structures ranging from more open canopy areas containing mostly pole-sized trees to areas of greater canopy cover with trees up to 20-inch diameter at breast height (dbh). Both native and nonnative invasive plants are found within the forested floodplains. Canopy trees within these wetlands include American linden (*Tilia americana*), pin oak (*Quercus palustris*), silver maple (*Acer saccharinum*), red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), American boxelder (*Acer negundo*), and American elm (*Ulmus americana*). Understory vegetation consists of a mix of native and non-native shrubs and herbs, including Morrow's honeysuckle (*Lonicera morrowii*), multiflora rose (*Rosa multiflora*), silky dogwood, ostrich fern, sensitive fern, poison ivy, and garlic mustard (*Alliaria petiolata*). Virginia creeper (*Parthenocissus quinquefolia*) and Oriental bittersweet (*Celastrus orbiculatus*) are entangled within the vegetation.**

**State wetlands in the project area (CT-WET-1) consist primarily of maintained lawn and meadow in previously disturbed portions of Curtiss Park containing alluvial floodplain soils.**

Maintained lawn areas are consistently mowed through the summer with vegetation varying in height from 3 to 5 inches. Herbaceous species within maintained lawn areas include crabgrass (*Digitaria sanguinalis*), creeping red fescue (*Festuca rubra*), spotted spurge (*Euphorbia maculata*), broad-leaved plantain (*Plantago major*), narrow-leaved plantain (*Plantago lanceolata*), and rabbit foot clover (*Trifolium arvense*). No shrubs exist within these maintained areas. Meadow areas are mowed only once a year, allowing for invasive shrubs (multiflora rose) to dominate. Herbaceous species within meadow areas include sensitive fern, common milkweed (*Asclepia syriaca*), common blue violet (*Viola sororia*), purple vetch (*Vicia benghalensis*), poison ivy, crabgrass, red fescue, and plantain. Scattered eastern red cedar trees (*Juniperus virginiana*) also exist within both maintained lawn and meadow areas.

Along the west side of Curtiss Park, between federal wetlands and the entrance drive to the park, forested state wetlands exist. These alluvial floodplain soils contain a mixed open/closed canopy with trees ranging from pole sized to 20-inch dbh. Vegetation within this habitat is similar to federal forested wetlands although additional canopy trees include sugar maple (*Acer saccharum*), northern catalpa (*Catalpa speciosa*), shagbark hickory (*Carya ovata*), mockernut hickory (*Carya tomentosa*), black oak (*Quercus velutina*), and eastern red cedar.

According to the Natural Resources Conservation Service (NRCS) web soil survey, the following soil mapping units with associated NRCS map number are located in the project area:

- Agawam fine sandy loam (29A)
- Merrimac sandy loam (34A)
- Suncook loamy fine sand (100)
- Occum fine sandy loam (101)
- Pootatuck fine sandy loam (102)
- Limerick and Lim soils (107)
- Saco silt loam (108)
- Fluvaquents-Udifluvents complex, frequently flooded (109)
- Urban land (307)
- Water (W)

Our field investigation indicated the presence of moderately well-drained alluvial floodplain soils, hydric soils, and udorthent soils in the project area. Poorly drained hydric soils (Saco silt loam and Limerick and Lim soils) exist along the banks of the Farmington River and Salmon Brook within federally regulated wetlands. Beyond these hydric soils, well-drained alluvial floodplain soils regulated as state wetlands (Suncook loamy fine sand, Occum fine sandy loam, and/or Pootatuck fine sandy loam) exist within the floodplain. Udorthent soils dominate the commercial properties, parks, and roadways. Udorthent soils are those soils that have been significantly impacted by anthropogenic activities. These soils have either been cut and/or filled by at least 2 feet and lack a natural soil profile. Drainage classes within Udorthent soils can vary from somewhat poorly drained to excessively drained soils, dependent upon topographic position, soil texture, and compaction.

- b. Size of wetland within site or distance of the activity from the wetland.

Not applicable

- c. Size of total contiguous wetland.

**Not applicable**

- d. Position relative to other wetlands on site.

**See project plans.**

- e. Type of wetland characterized by vegetative and soil type and/or watercourse, such as: 1) open/deep freshwater pond or lake; 2) shallow marsh; 3) seasonally flooded basins and flats; 4) meadow; 5) shrub swamp; 6) wooded swamp; 7) bog; 8) kettle; 9) stream type; 10) other.

**Federal wetlands in the project area consist of palustrine persistent emergent wet meadow and palustrine forested broad-leaved deciduous floodplain wetlands. State wetlands in the project area consist primarily of maintained lawn and meadow in previously disturbed portions of Curtiss Park containing alluvial floodplain soils.**

- 3. Depth to water table, depth to mottled soil, and seasonal variation of water table.

**See attached wetland determination data forms.**

- 4. Describe the immediate impact on the wetlands and watercourses, including, but not limited to:

- a. Quantities, by volume and area disturbed, of materials to be removed, deposited, or altered.

**Alteration of on-site wetlands and watercourses has been minimized to the greatest extent practicable. The proposed project will result in approximately 0.4 cubic yards of permanent fill within the Farmington River due to installation of the proposed river access stone steps. Approximately 990 square feet of permanent fill in federal wetlands and 5,300 square feet of temporary disturbance in federal wetlands is also required to construct the trail. Additionally, 46,360 square feet of permanent alteration of state wetlands is required to construct the bituminous concrete trail.**

- b. Kinds of materials by soil types and vegetative classifications, and materials classification to be removed, deposited, or altered.

**Installation of steel helical piles to support a boardwalk over Salmon Brook and grading within wetlands to accommodate the installation of stone steps along the bank of the Farmington River. The boardwalk will be set on 3-inch-diameter steel helical piles to reduce fill in wetlands and allow for continued functioning of the wetlands. Temporary disturbances to the federal wetlands include the cutting of existing herbaceous and woody vegetation flush to the soil surface to allow for construction of the boardwalk. No removal of cut woody stumps is anticipated, and it is expected that any cut herbaceous plants and/or woody shrubs will resprout during the growing season. State wetlands in the project area generally consist of maintained lawn with scattered trees, fences, and a gravel entrance drive to Curtiss Park. These state-regulated alluvial floodplain soils are located adjacent to a heavily traveled roadway**

(Tariffville Road) and have been significantly disturbed to construct Curtiss Park. The mowed wetlands do not provide significant wetland functions and values or natural wildlife habitat.

- c. Percent of wetlands/watercourses disturbed or altered to total area of wetlands/watercourses on the parcel.

**Not applicable**

- 5. Describe the related construction activities and their impact on:

- a. Area and location of wetlands and watercourses.

**The boardwalk within the federal wetlands will have minimal impacts. Primary impacts associated with installation of helical piles is required. Secondary impacts associated with shading and temporary vegetation removal will not significantly diminish the principal functions and values of this wetland system. The construction of the trail through the state wetlands will have no significant adverse impacts since it occurs in a significantly disturbed area.**

- b. Types and amounts of vegetation.

**Some vegetation clearing within the trail alignment will be required to construct the multiuse trail. However, the trail has been designed, in part, to minimize tree clearing.**

- c. Surface and groundwater.

**The project will not adversely impact surface water and/or groundwater.**

- d. Visual impacts.

**The project is being designed in a manner to maintain and/or enhance the functions and values of the Wild and Scenic designation of this section of the Farmington River and Salmon Brook, which includes the requirement that trail and other project activities be designed to not diminish or significantly impact the fish and wildlife habitats, floodplain attenuation, water quality, and aesthetic and recreational value functions.**

- e. Wildlife habitats.

**The project has no significant impact to wildlife habitat. Native plantings are being proposed that will enhance wildlife habitat.**

- 6. Describe the long term or permanent impact of the activity(ies) on environmental aspects, such as the surface and groundwater quality, storm water runoff, visual impact(s), or wildlife habitats on:

- a. Wetlands and/or watercourses.



The proposed project has been designed to avoid impacts to federal wetlands to the greatest extent practicable. Complete avoidance of federal wetlands was not feasible although trail intersection with federal wetlands has been limited to one location along the alignment (north of Road Stations 129+00 through 131+50 on the project plans). To reduce direct impacts to the wetlands in this area, a boardwalk elevated on steel helical piles will be installed rather than the bituminous concrete trail to be constructed in upland areas on the site. Use of a boardwalk will reduce the fill within wetlands and allow for continued functioning of the wetland in this area. Natural water circulation and storage will be maintained in this location. Construction of the proposed boardwalk will reduce impacts to the federal wetland, allow for continued functioning of the wetland, and will encourage wildlife viewing and recreational enjoyment of the wetlands by the public. The formalization of an existing pedestrian access to the Farmington River will also provide improved recreation for the public. A portion of the proposed stone steps will be located within federal wetlands abutting the south bank of the Farmington River. Minor grading around these stone steps will be required to prevent erosion in the area.

- b. Abutting riparian properties and/or wetlands and/or watercourses.

**See above 6a.**

- 7. Identify sedimentation and erosion control measures to be used.

**Best management practices, including sediment and erosion control measures, have been incorporated into the proposed project plans to avoid temporary impacts to water quality, wetland and watercourse resources, and wildlife during construction. Sediment filter fence will be installed around work areas adjacent to natural resources to prevent wildlife from entering the site and to prevent disturbed sediments from leaving the project site.**

**See site plans for sediment and erosion control measures.**

- 8. Identify alternatives to the proposed activity that were considered, including alternative sites and why this one was chosen.

**Several alternatives were considered during the planning stages of the Tariffville Connection Multiuse Trail project: no action, south alignment, north alignment with bituminous concrete (alternative 1), north alignment with extension of an existing culvert (alternative 2), north alignment with a bridge over an existing culvert (alternative 3), and the preferred alternative. The preferred alternative includes the proposed trail alignment with a 10-foot-wide bituminous concrete trail and two boardwalk sections elevated on steel piles. Boardwalks allow for reduced impacts to water resources on the site, preserving the existing functions and values ascribed to wetlands on site. Boardwalks also provide added aesthetic/recreational value by increasing public accessibility and wildlife viewing within the riparian environment. In addition, the preferred alternative alignment allows for greater preservation of trees within the wetland, complete avoidance of the Salmon Brook channel, and continued accessibility of the existing culvert for long-term maintenance. This alternative provides the connectivity required between Curtiss and Pattison Parks and the Farmington Canal Heritage Trail, pedestrian and bike access for the majority**

**of the public, and limited impacts to federal wetlands on site. In addition, formalization of the pedestrian access to the Farmington River via installation of stone steps will allow for continued river access to the public while reducing erosion of the riverbank, resulting in a net benefit to the ecosystem and the public. Because of all of the above-listed considerations, this alternative was deemed the most prudent and feasible alternative for this project.**

9. Estimate cost of work and time for completion.

**The total project cost has yet to be finalized. Funding for the design of this project is being provided by the Connecticut Department of Energy & Environmental Protection Recreation and Trails Program. The project is scheduled for construction in 2024 pending permitting and funding.**

10. Attach drainage calculations and other reports as indicated to substantiate the statements made above.

**Soil Report and Engineering Report attached.**

11. REQUIRED MAPS

a. Attach a vicinity map on an 8 ½"x11" sheet at scale 1"=200' or 1"=800' (depending upon the size of the parcel) showing the general location of the area in which the regulated activity is proposed. The map should be in sufficient detail to allow the identification of the property on the official Inland Wetlands and Watercourses map. A guide to the kinds of information to be shown is available in the Planning Department at the Town Hall.

**See attached map.**

b. Site Plan(s) showing:

- i. The topography showing contours at intervals of not more than two (2) feet and a minimum of two (2) contour marks per ten (10) acres at a scale of 1"=100' or 1"=40' (whichever is more appropriate).
- ii. Location of existing watercourses and/or ponds.
- iii. Location of regulated activity.
- iv. Proposed grading and/or filling.
- v. Proposed drainage, site utilities, wells, etc.
- vi. Sedimentation and erosion control measures.

**See attached map.**

12. The Applicant shall certify whether:

a. Any portion of the property on which the regulated activity is proposed is located within 500 feet of the boundary of an adjoining municipality.

**The project is not located within 500 feet of an adjoining municipality.**

- b. Traffic attributable to the completed project on the site will use streets within the adjoining municipality to enter or exit the site.

**The project does not require the use of streets within the adjoining municipality.**

- c. Sewer or water drainage from the project site will flow through and affect the sewage or drainage system within the adjoining municipality or

**The project does not impact sewer or water drainage within an adjoining municipality.**

- d. Water runoff from the improved site will affect streets or other municipal or private property within the adjoining municipality.

**The project does not impact water runoff within an adjoining municipality or private properties.**

- e. Documentation that notice of the pending application was provided to the adjacent municipality (certified mail, return receipt requested) on the same day of filing an inland wetland permit application with the Town of Simsbury.

**Not applicable**

- f. The property is subject to a conservation restriction or preservation restriction, and, if so, what party or parties are holders thereof or intended to be benefitted thereby.

**No**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Tariffville Connection, Multi-Use Trail City/County: Simsbury Sampling Date: June 18, 2018  
 Applicant/Owner: Town of Simsbury State: CT Sampling Point: W-1  
 Investigator(s): MJS Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): convex Slope (%): 0.5  
 Subregion (LRR or MLRA): R 145 Lat: 41.894848 N Long: -72.781261 E Datum: NAD 83  
 Soil Map Unit Name: Saco silt loam NWI classification: NA

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? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Community type: <u>Wet floodplain forest</u>	
Area is a floodplain wet meadow/scrub shrub area located adjacent to Salmon Brook.	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>15</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Active water table within 24 inches of soil surface.	

**VEGETATION – Use scientific names of plants.**

Sampling Point: W-1

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
_____ = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Sambucus canadensis</i>	20	Y	FAC
2. <i>Cornus amomum</i>	25	Y	FAC
3.			
4.			
5.			
6.			
7.			
_____ = Total Cover			
45 = Total Cover			
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Impatiens capensis</i>	40	Y	FACW
2. <i>Onoclea sensibilis</i>	25	N	FACW
3. <i>Solidago sp</i>	5	N	NI
4. <i>Phalaris arundinacea</i>	50	Y	FACW
5. <i>Toxicodendron radicans</i>	10	N	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
_____ = Total Cover			
130 = Total Cover			
Woody Vine Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
_____ = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 1 (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>115</u>	x 2 = <u>230</u>
FAC species <u>10</u>	x 3 = <u>30</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>125</u> (A)	<u>260</u> (B)

Prevalence Index = B/A = 2.1

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

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

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

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

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

**Hydrophytic Vegetation Present?** Yes  No

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

SOIL

Sampling Point: W-1

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 <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/1	100					silt loam	A
12-24	10YR 5/1	100	7.5YR 5/8	10	C	M	silt loam	B

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

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

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Tariffville Connection, Multi-Use Trail City/County: Simsbury Sampling Date: June 18, 2018  
 Applicant/Owner: Town of Simsbury State: CT Sampling Point: U-1  
 Investigator(s): MJS Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): 2%  
 Subregion (LRR or MLRA): R 145 Lat: 41.894821 N Long: -72.781209 E Datum: NAD 83  
 Soil Map Unit Name: Occum fine sandy loam NWI classification: NA

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? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Community type: <u>Pasture</u>  Area is located along the road shoulder and is mowed regularly.	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>&gt;24</u> Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

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

Remarks:  
 Active water table located below 24-inches from the soil solum.

**VEGETATION** – Use scientific names of plants.

Sampling Point: U-1

	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>															
<b>Tree Stratum</b> (Plot size: <u>30'</u> )																		
1. <u>None</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.5</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover				<b>Prevalence Index worksheet:</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><u>Total % Cover of:</u></td> <td style="width:50%;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>2</u></td> <td>x 2 = <u>4</u></td> </tr> <tr> <td>FAC species <u>32</u></td> <td>x 3 = <u>96</u></td> </tr> <tr> <td>FACU species <u>35</u></td> <td>x 4 = <u>140</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>69</u> (A)</td> <td><u>240</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.5</u>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>2</u>	x 2 = <u>4</u>	FAC species <u>32</u>	x 3 = <u>96</u>	FACU species <u>35</u>	x 4 = <u>140</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>69</u> (A)	<u>240</u> (B)
<u>Total % Cover of:</u>	<u>Multiply by:</u>																	
OBL species <u>0</u>	x 1 = <u>0</u>																	
FACW species <u>2</u>	x 2 = <u>4</u>																	
FAC species <u>32</u>	x 3 = <u>96</u>																	
FACU species <u>35</u>	x 4 = <u>140</u>																	
UPL species <u>0</u>	x 5 = <u>0</u>																	
Column Totals: <u>69</u> (A)	<u>240</u> (B)																	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )																		
1. <u>Cornus amomum</u>	<u>2</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
_____ = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.														
<b>Herb Stratum</b> (Plot size: <u>5'</u> )																		
1. <u>Toxicodendron radicans</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Grasses sp. (mowed)</u>	<u>50</u>	<u>Y</u>	<u>NI</u>															
3. <u>Carex sprengelli</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>															
4. <u>Parthenocissus quinquefolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>															
5. <u>Onoclea sensibilis</u>	<u>2</u>	<u>N</u>	<u>FACW</u>															
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
12. _____																		
_____ = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
<b>Woody Vine Stratum</b> (Plot size: <u>15'</u> )																		
1. <u>None</u>																		
2. _____																		
3. _____																		
4. _____																		
_____ = Total Cover																		

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

Area is located along the road shoulder and is maintained by CTDOT. The vegetation is consistently mowed. Grasses dominate, but could not be keyed to species. If the grasses were keyed the dominance test would be less than 50% and the prevalence value would be even greater than 3.5.



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 <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/3	100					fine sandy loam	A
10-17	10YR 4/4	100					fine sandy loam	B1
17-24	10YR 4/6	100					sandy loam	B2

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

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

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

**Remarks:**

Plot location completed within a alluvial floodplain soils. Most closely matches the NRCS Occum series.

Inland Wetland Report  
Tariffville Connection, Multiuse Trail  
Tariffville Road from Hopmeadow Street (Route 10)  
to Curtiss and Pattison Parks  
Simsbury, Connecticut  
July 1, 2020

*Prepared for:*  
Town of Simsbury  
933 Hopmeadow Street  
PO Box 495  
Simsbury, Connecticut 06070

MMI #1613-20

*Prepared by:*  
MILONE & MACBROOM, INC.  
99 Realty Drive  
Cheshire, Connecticut 06410  
(203) 271-1773  
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Corps Wetland Determination Data Forms.....	Appendix B
Site Photographs .....	Appendix C
Wetland Function-Value Evaluation Forms.....	Appendix D
Impact Assessment.....	Appendix E

## 1.0 INTRODUCTION

On June 18, 2018, Matthew Sanford, a registered soil scientist and professional wetland scientist with Milone & MacBroom, Inc. (MMI), delineated inland wetlands and watercourses within the proposed Tariffville Connection, Multiuse Trail project area from Hopmeadow Street (Route 10) to Curtiss and Pattison Parks. The project area is located in a moderately settled residential, commercial, and agricultural area of Simsbury, Connecticut (Appendix A, Figure 1). The project area includes the approximately 3,600 linear feet of proposed trail paralleling Tariffville Road. The purpose of this investigation was to determine the presence or absence of wetlands and/or watercourses, to demarcate (flag) the boundaries of wetlands and watercourses identified, and to identify on-site soil types.

## 2.0 METHODOLOGY

Inland wetlands and watercourses were delineated on June 18, 2018, in accordance with state and federal delineation standards. On the day of the review, the soils were frost free, and site conditions were suitable for wetland delineation work. Delineation methods followed the 1987 U.S. Army Corps of Engineers (USACE) *Wetlands Delineation Manual* (USACE, 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual for the Northcentral and Northeast Region* (USACE, 2012). The classification system of the National Cooperative Soil Survey and *Field Indicators of Hydric Soils in the United States* (USDA, 2017) were used in this investigation. A second-order soil survey in accordance with the principles and practices noted in the United States Department of Agriculture (USDA) publication *Soil Survey Manual* (1993) was completed at the subject site. Soil types were identified by observation of soil morphology (soil texture, color, structure, etc.). To observe the morphology of the property's soils, hand auger borings (maximum depth of 2 feet) were completed at the site. Wetland determinations were completed based on the presence of poorly drained, very poorly drained, alluvial, or floodplain soils and submerged land (e.g., a pond). Intermittent watercourse determinations were made based on the presence of a defined permanent channel and bank and the occurrence of two or more of the following characteristics: A) evidence of scour or deposits of recent alluvium or detritus, B) the presence of standing or flowing water for a duration longer than a particular storm incident, and C) the presence of hydrophytic vegetation. Wetland boundaries were demarcated (flagged) with pink and blue surveyor's tape (hung from sturdy vegetation) that are generally spaced a maximum of every 30 to 50 feet. Complete boundaries are located along the lines that connect these sequentially numbered flags. The wetland boundaries are subject to change until adopted by local, state, or federal regulatory agencies.

## 3.0 RESULTS

### 3.1 Soils

Geospatial data was accessed via the United States Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) web soil survey mapping. The soil survey mapping is appended (Appendix A). The survey identified the following soil mapping units with associated NRCS map number in the project area:

- Agawam fine sandy loam (29A)
- Merrimac sandy loam (34A)
- Suncook loamy fine sand (100)
- Occum fine sandy loam (101)
- Pootatuck fine sandy loam (102)
- Limerick and Lim soils (107)
- Saco silt loam (108)
- Fluvaquents-Udifluvents complex, frequently flooded (109)
- Urban land (307)
- Water (W)

Our field investigation indicated the presence of moderately well-drained alluvial floodplain soils, hydric soils, and udorthent soils in the project area. Poorly drained hydric soils (Saco silt loam and Limerick and Lim soils) exist along the banks of the Farmington River and Salmon Brook, within federally regulated wetlands. Beyond these hydric soils, well-drained alluvial floodplain soils regulated as state wetlands (Suncook loamy fine sand, Occum fine sandy loam, and/or Pootatuck fine sandy loam) exist within the floodplain. Beyond these alluvial floodplain soils, disturbed udorthent soils dominated within commercial properties, parks, and roadways. Udorthent soils are those soils that have been significantly impacted by anthropogenic activities. These soils have either been cut and/or filled by at least 2 feet and lack a natural soil profile. Drainage classes within Udorthent soils can vary from somewhat poorly drained to excessively drained soils, dependent upon topographic position, soil texture, and compaction.

### 3.2 Wetlands and Watercourses

MMI delineated federal- and state-regulated jurisdictional wetlands and watercourses within the project area (Appendix A, Figure 2). Federally regulated watercourses in the project area are defined by the ordinary high water line (OHW) of the Farmington River and Salmon Brook. Federal wetlands, characterized by their hydric soils, wetland hydrology, and hydrophytic vegetation, abut these watercourses. Corps Wetland Determination Data Forms have been completed for these wetlands (Appendix B). The state wetland boundary (Suncook loamy fine sand, Occum fine sandy loam, and/or Pootatuck fine sandy loam) is located adjacent to federally regulated wetlands, occupying portions of the associated floodplain of the Farmington River.

The Farmington River is a perennial watercourse that flows northeast beneath Tariffville Road bridge and along the west side of Curtiss Park. According to the United States Geological Survey *StreamStats* program, the local watershed to this portion of the Farmington River is approximately 499 square miles. The Farmington River drains to the Connecticut River approximately 19 miles downstream of the project area. The Farmington River supports a cold- and warm-water fishery

resource and is classified by the Connecticut Department of Energy & Environmental Protection (CTDEEP) as a Class B watercourse, indicating potential use in recreation, agriculture, industry, and wildlife habitat but not drinking water. The Farmington River is also designated as a National Wild and Scenic River. The Farmington River is broad adjacent to the project area, and a run fluvial geomorphology predominates. Substrate consists of cobbles, coarse sands, and silt. A perennial tributary to the Farmington River known as Salmon Brook exists in the center of the project site. Salmon Brook has a sinuous flow pattern with a riffle/run fluvial geomorphology. The substrate of this brook varies from dumped riprap located near the Tariffville Road cross culvert to more sorted silts and sands as it flows toward the Farmington River. Federal Emergency Management Agency (FEMA) floodway and 100-year floodplain surrounds the Farmington River.

Both federal- and state-regulated wetlands exist within the floodway and floodplain associated with the Farmington River. Federally regulated riparian wetlands about the Farmington River (FED-WET-1, FED-WET-2). Beyond these federal wetland boundaries, east of the bridge, Connecticut-regulated floodplain soils occupy portions of the floodplain (CT-WET-1). Federal- and state-regulated wetland areas are depicted on Figure 2 of Appendix A and in site photos in Appendix C and are described below.

Federal wetlands in the project area consists of palustrine persistent emergent wet meadow and palustrine forested broad-leaved deciduous floodplain wetlands. These wetlands are supported hydrologically by floodwaters from the Farmington River and Salmon Brook and groundwater inputs as well as stormwater runoff from adjacent upland areas. Seasonal pools and backwater pools are present in some locations. FED-WET-1 consists of wet meadow adjacent to Curtiss Park athletic fields and transitions to forested wetland closer to the proposed project corridor. A backwater pool ranging in depth from a few inches to approximately 2 feet exists within the forested portion of this wetland. FED-WET-2 is primarily forested throughout although wet meadow exists along Tariffville Road surrounding Salmon Brook. Wet meadow areas are densely vegetated with a variety of forbs, including sensitive fern (*Onoclea sensibilis*), jewelweed (*Impatiens capensis*), common Joe-Pye weed (*Eutrochium purpureum*), reed canary grass (*Phalaris arundinacea*), goldenrod (*Solidago* sp.), ostrich fern (*Matteuccia struthiopteris*), poison ivy (*Toxicodendron radicans*), and long-beaked sedge (*Carex sprengelli*). A few scattered shrubs, including American elderberry (*Sambucus canadensis*) and silky dogwood (*Swida amomum*), exist within the meadow. Forested wetland areas contain a variety of tree canopy structures, ranging from more open canopy areas containing mostly pole-sized trees to areas of greater canopy cover with trees up to 20-inch diameter at breast height (dbh). Both native and nonnative invasive plants are found within the forested floodplains. Canopy trees within these wetlands include American linden (*Tilia americana*), pin oak (*Quercus palustris*), silver maple (*Acer saccharinum*), red maple (*Acer rubrum*), green ash (*Fraxinus pennsylvanica*), American boxelder (*Acer negundo*), and American elm (*Ulmus americana*). Understory vegetation consists of a mix of native and non-native shrubs and herbs, including Morrow's honeysuckle (*Lonicera morrowii*), multiflora rose (*Rosa multiflora*), silky dogwood, ostrich fern, sensitive fern, poison ivy, and garlic mustard (*Alliaria petiolata*). Virginia creeper (*Parthenocissus quinquefolia*) and Oriental bittersweet (*Celastrus orbiculatus*) are entangled within the vegetation.

State wetlands in the project area (CT-WET-1) consist primarily of maintained lawn and meadow in previously disturbed portions of Curtiss Park, containing alluvial floodplain soils. Maintained lawn areas are consistently mowed through the summer with vegetation varying in height from 3 to 5 inches. Herbaceous species within maintained lawn areas include crabgrass (*Digitaria*

*sanguinalis*), creeping red fescue (*Festuca rubra*), spotted spurge (*Euphorbia maculata*), broad-leaved plantain (*Plantago major*), narrow-leaved plantain (*Plantago lanceolata*), and rabbit foot clover (*Trifolium arvense*). No shrubs exist within these maintained areas. Meadow areas are mowed only once a year, allowing for invasive shrubs (multiflora rose) to dominate. Herbaceous species within meadow areas include sensitive fern, common milkweed (*Asclepia syriaca*), common blue violet (*Viola sororia*), purple vetch (*Vicia benghalensis*), poison ivy, crabgrass, red fescue, and plantain. Scattered eastern red cedar trees (*Juniperus virginiana*) also exist within both maintained lawn and meadow areas.

Along the west side of Curtiss Park, between federal wetlands and the entrance drive to the park, forested state wetlands exist. These alluvial floodplain soils contain a mixed open/closed canopy with trees ranging from pole sized to 20-inch dbh. Vegetation within this habitat is similar to federal forested wetlands although additional canopy trees include sugar maple (*Acer saccharum*), northern catalpa (*Catalpa speciosa*), shagbark hickory (*Carya ovata*), mockernut hickory (*Carya tomentosa*), black oak (*Quercus velutina*), and eastern red cedar.

A Wetland Function-Value Evaluation Form from the Highway Methodology Workbook Supplement was completed for the Farmington River riparian corridor (Appendix D). The principal functions and values of the Farmington River riparian corridor include the following:

- Groundwater discharge
- Flood flow alteration and attenuation
- Fishery habitat (cold and warm water)
- Wildlife habitat
- Bank stabilization
- Production export (allochthonous materials to downstream habitats)

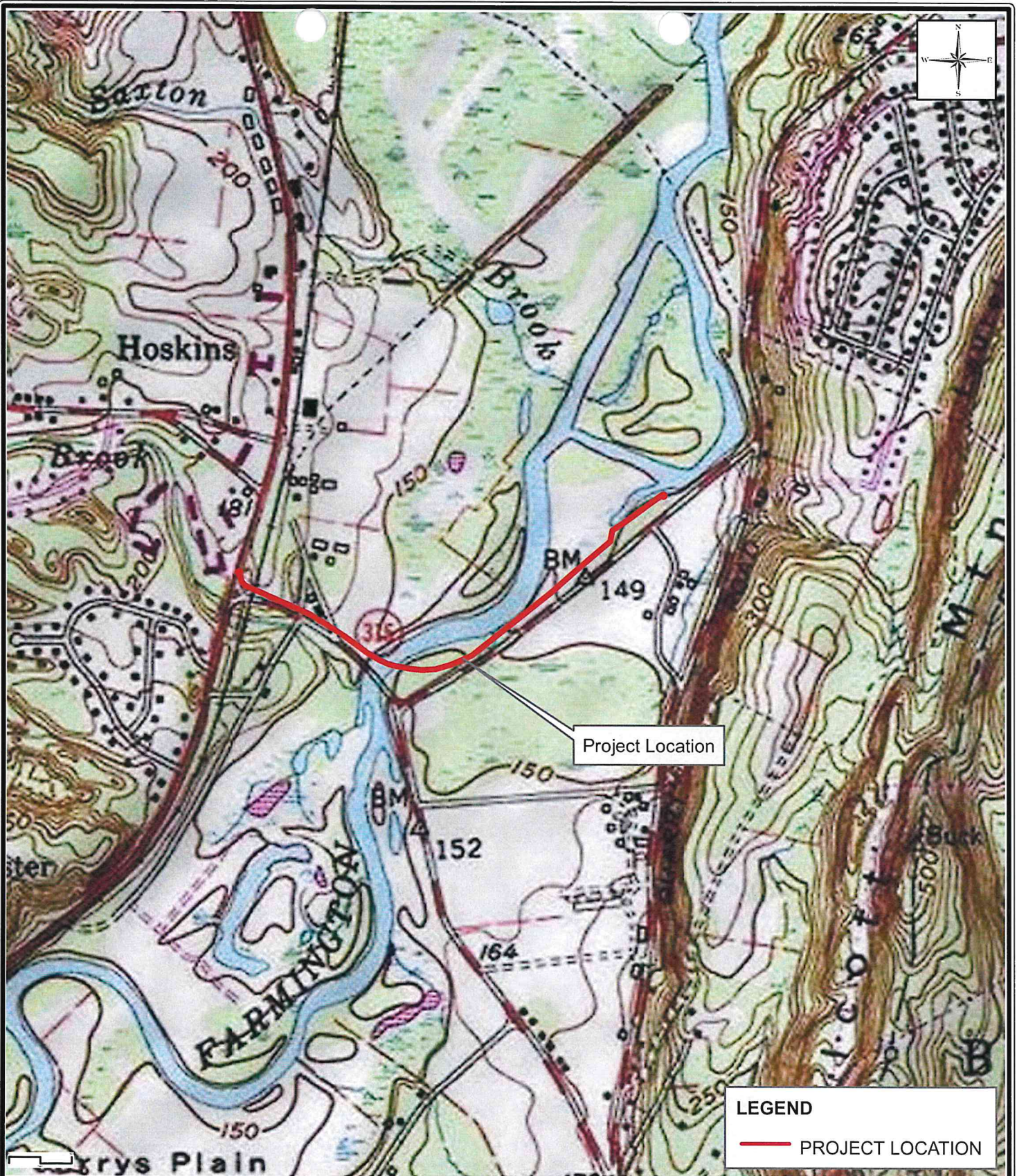
An assessment of potential impacts to wetlands and watercourses associated with the proposed Tariffville Trail Connection, Multiuse Trail project can be found in Appendix E.

1613-20-m1820-rpt.docx

# APPENDIX A

## SITE MAPS





Project Location

**LEGEND**

— PROJECT LOCATION

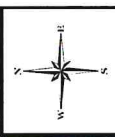
**MILONE & MACBROOM**  
 99 Realty Drive  
 Cheshire, Connecticut 06410  
 (203) 271-1773  
 www.mminc.com

**PROJECT LOCATION**  
 TARRIFVILLE CONNECTION, MULTI-USE TRAIL  
 HOPMEADOW ST. TO CURTISS/PATTISON PARKS  
 TARIFFVILLE ROAD (CT ROUTE 315)  
 SIMSBURY, CT

SOURCE: 2013 TOPOGRAPHIC MAP, NATIONAL GEOGRAPHIC SOCIETY

DATE: 19 MAY 2020		
SCALE: 1"=1277feet		
PROJ. NO.: 1613-20		
DESIGNED AYO	DRAWN AYO	CHECKED MJS
DRAWING NAME:		

**FIG. 1**



MILONE & MACBROOM  
 Realty Drive  
 Westfield, Connecticut 06097  
 (203) 271-1773  
 www.mmlinc.com


WETLAND DELINEATION  
 HOPMEADOW ST. TO CURTIS PARK  
 MULTI-USE TRAIL  
 TARIFFVILLE ROAD (CT ROUTE 315)  
 SIMSBURY, CT

AVOYAO MJS  
 SCALE: 1" = 350'  
 18 MAY 2020  
 1613-20  
 PROJECT NUMBER

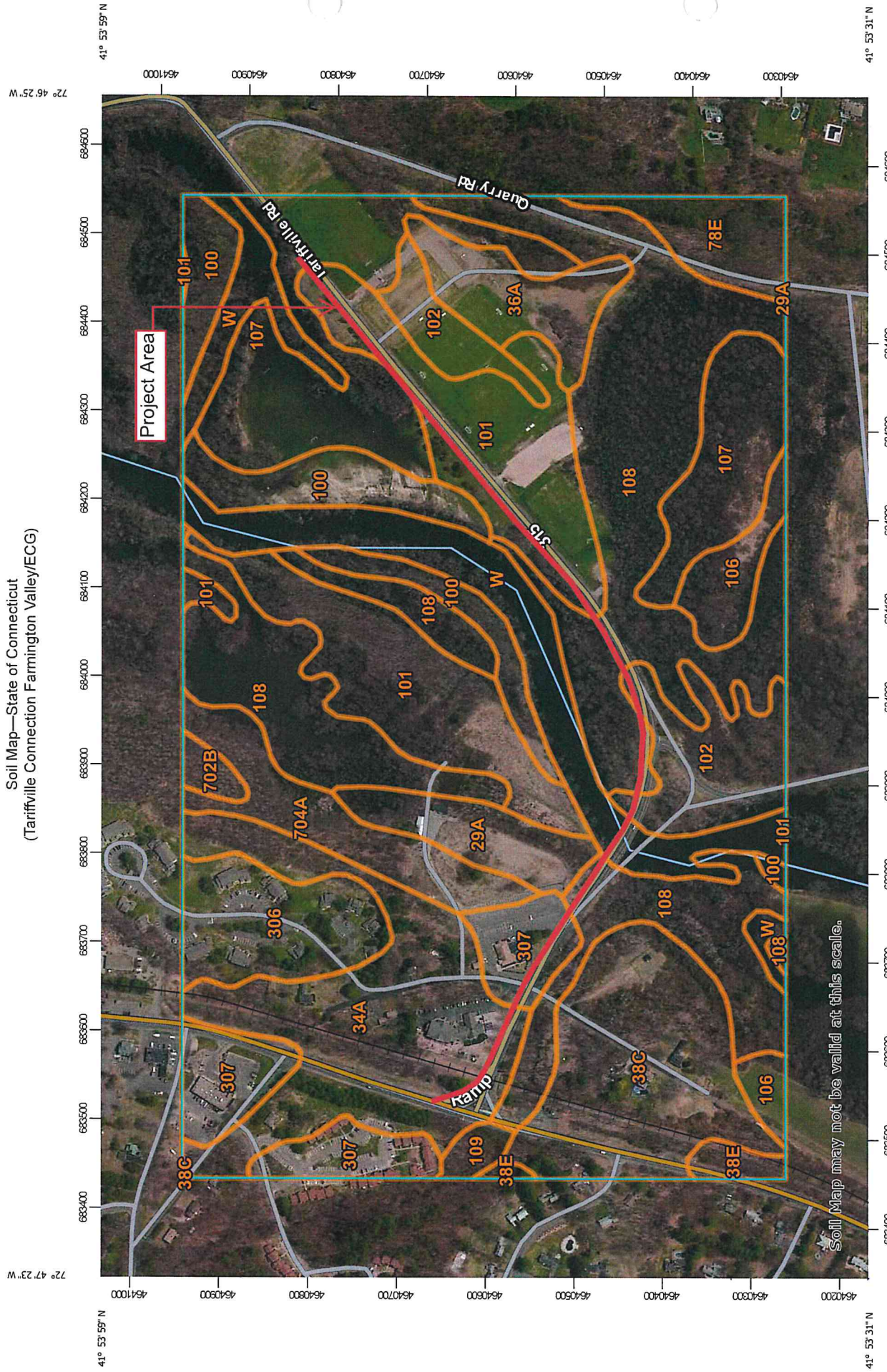
FIGURE 2  
 SHEET NUMBER



**LEGEND**

- USACE DELINEATION DATAPoint
- PERENNIAL WATERCOURSE
- DELINEATED FEDERAL WETLAND BOUNDARY
- DELINEATED STATE WETLAND BOUNDARY
- GRAPHICAL STATE WETLAND BOUNDARY
- STATE (CT) WETLAND
- FEDERAL (USACE) WETLAND
- SIMSBURY PARCELS

Soil Map—State of Connecticut  
(Tariffville Connection Farmington Valley/ECCG)



Project Area

Soil Map may not be valid at this scale.

Map Scale: 1:6,100 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N 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
- Water Features**
  - Streams and Canals
- Transportation**
  - Rails
  - Interstate Highways
  - US Routes
  - Major Roads
  - Local Roads
- Background**
  - Aerial Photography
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

**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: State of Connecticut  
Survey Area Data: Version 17, Sep 5, 2018

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

Date(s) aerial images were photographed: Mar 28, 2011—Apr 18, 2011

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
29A	Agawam fine sandy loam, 0 to 3 percent slopes	4.1	2.2%
34A	Merrimac fine sandy loam, 0 to 3 percent slopes	18.5	9.9%
36A	Windsor loamy sand, 0 to 3 percent slopes	5.0	2.6%
38C	Hinckley loamy sand, 3 to 15 percent slopes	13.7	7.3%
38E	Hinckley loamy sand, 15 to 45 percent slopes	1.2	0.6%
78E	Holyoke-Rock outcrop complex, 15 to 45 percent slopes	3.8	2.0%
100	Suncook loamy fine sand	9.4	5.0%
101	Occum fine sandy loam	21.7	11.6%
102	Pootatuck fine sandy loam	8.8	4.7%
106	Winooski silt loam	3.6	1.9%
107	Limerick and Lim soils	19.1	10.2%
108	Saco silt loam	41.6	22.2%
109	Fluvaquents-Udifluvents complex, frequently flooded	0.9	0.5%
306	Udorthents-Urban land complex	6.7	3.6%
307	Urban land	8.5	4.5%
702B	Tisbury silt loam, 3 to 8 percent slopes	0.8	0.4%
704A	Enfield silt loam, 0 to 3 percent slopes	6.2	3.3%
W	Water	13.8	7.4%
<b>Totals for Area of Interest</b>		<b>187.3</b>	<b>100.0%</b>

**APPENDIX B**  
CORPS WETLAND DETERMINATION DATA FORMS

**WETLAND DETERMINATION DATA FORM – Northcentral Northeast Region**

Project/Site: Tariffville Connection, Multi-Use Trail City/County: Simsbury Sampling Date: June 18, 2018  
 Applicant/Owner: Town of Simsbury State: CT Sampling Point: W-1  
 Investigator(s): MJS Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): convex Slope (%): 0.5  
 Subregion (LRR or MLRA): R 145 Lat: 41.894848 N Long: -72.781261 E Datum: NAD 83  
 Soil Map Unit Name: Saco silt loam NWI classification: NA

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? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Community type: <u>Wet floodplain forest</u>  Area is a floodplain wet meadow/scrub shrub area located adjacent to Salmon Brook.	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>15</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: Active water table within 24 inches of soil surface.	

**VEGETATION** – Use scientific names of plants.

Sampling Point: W-1

<u>Tree Stratum</u> (Plot size: <u>30'</u> )	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Dominance Test worksheet:</b>
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A/B)
4. _____				
5. _____				
6. _____				
7. _____				
_____ = Total Cover				<b>Prevalence Index worksheet:</b>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15'</u> )				<u>Total % Cover of:</u>
1. <u>Sambucus canadensis</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	<u>OBL species</u> <u>0</u> x 1 = <u>0</u>
2. <u>Cornus amomum</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>	<u>FACW species</u> <u>115</u> x 2 = <u>230</u>
3. _____				<u>FAC species</u> <u>10</u> x 3 = <u>30</u>
4. _____				<u>FACU species</u> <u>0</u> x 4 = <u>0</u>
5. _____				<u>UPL species</u> <u>0</u> x 5 = <u>0</u>
6. _____				<u>Column Totals:</u> <u>125</u> (A) <u>260</u> (B)
7. _____				Prevalence Index = B/A = <u>2.1</u>
_____ = Total Cover				<b>Hydrophytic Vegetation Indicators:</b>
<u>Herb Stratum</u> (Plot size: <u>5'</u> )				<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation
1. <u>Impatiens capensis</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Onoclea sensibilis</u>	<u>25</u>	<u>N</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Solidago sp</u>	<u>5</u>	<u>N</u>	<u>NI</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Toxicodendron radicans</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
_____ = Total Cover				<b>Definitions of Vegetation Strata:</b>
<u>Woody Vine Stratum</u> (Plot size: <u>15'</u> )				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1. <u>None</u>				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
2. _____				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
3. _____				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
4. _____				
_____ = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: (Include photo numbers here or on a separate sheet.)				



**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 <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3/1	100					silt loam	A
12-24	10YR 5/1	100	7.5YR 5/8	10	C	M	silt loam	B

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)
- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

**Remarks:**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: Tariffville Connection, Multi-Use Trail City/County: Simsbury Sampling Date: June 18, 2018  
 Applicant/Owner: Town of Simsbury State: CT Sampling Point: U-1  
 Investigator(s): MJS Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): 2%  
 Subregion (LRR or MLRA): R 145 Lat: 41.894821 N Long: -72.781209 E Datum: NAD 83  
 Soil Map Unit Name: Occum fine sandy loam NWI classification: NA

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? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Community type: <u>Pasture</u>  Area is located along the road shoulder and is mowed regularly.	

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<b>Secondary Indicators (minimum of two required)</b> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>&gt;24</u> Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  Remarks: Active water table located below 24-inches from the soil solum.	

**VEGETATION – Use scientific names of plants.**

Sampling Point: U-1

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	_____ = Total Cover			
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1. <u>Cornus amomum</u>	<u>2</u>	<u>Y</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>2</u> = Total Cover			
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1. <u>Toxicodendron radicans</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Grasses sp. (mowed)</u>	<u>50</u>	<u>Y</u>	<u>NI</u>	
3. <u>Carex sprengeilli</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Parthenocissus quinquefolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
5. <u>Onoclea sensibilis</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	<u>117</u> = Total Cover			
<b>Woody Vine Stratum</b> (Plot size: <u>15'</u> )				
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
	_____ = Total Cover			

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.5 (A/B)

---

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>2</u>	x 2 = <u>4</u>
FAC species <u>32</u>	x 3 = <u>96</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>69</u> (A)	<u>240</u> (B)

Prevalence Index = B/A = 3.5

---

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Definitions of Vegetation Strata:**

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

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

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

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

---

**Hydrophytic Vegetation Present?** Yes  No

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

Area is located along the road shoulder and is maintained by CTDOT. The vegetation is consistently mowed. Grasses dominate, but could not be keyed to species. If the grasses were keyed the dominance test would be less than 50% and the prevalence value would be even greater than 3.5.

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 <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 3/3	100					fine sandy loam	A
10-17	10YR 4/4	100					fine sandy loam	B1
17-24	10YR 4/6	100					sandy loam	B2

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

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

Indicators for Problematic Hydric Soils<sup>3</sup>:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks: Plot location completed within a alluvial floodplain soils. Most closely matches the NRCS Occum series.

**APPENDIX C**  
SITE PHOTOGRAPHS



**Client Name:**  
Town of Simsbury

**Site Location:**  
Tariffville Road, Simsbury, Connecticut

**Project No.**  
1613-20

**Photo No.**  
1      **Date:**  
07/12/2018

**Direction Photo Taken:**  
West

**Description:**  
Maintained lawn and intersection of St. John's Place along northern portion of Tariffville Road, within the footprint of the proposed trail. Road Stations 112+00 through 120+00.



**Photo No.**  
2      **Date:**  
09/03/2018

**Direction Photo Taken:**  
West

**Description:**  
Dry slope meadow along northern portion of Tariffville Road. Tariffville Road bridge in background. Road Stations 125+00 to 128+00.





**Client Name:**  
Town of Simsbury

**Site Location:**  
Tariffville Road, Simsbury, Connecticut

**Project No.**  
1613-20

**Photo No.**  
3

**Date:**  
09/03/2018

**Direction Photo Taken:**  
East

**Description:**  
Forested federal wetlands between the Farmington River and Tariffville Road. Road Station 128+00 to 129+00.



**Photo No.**  
4

**Date:**  
06/01/2018

**Direction Photo Taken:**  
South

**Description:**  
Salmon Brook looking upstream from downstream side of Tariffville Road. West of Road Station 130+00.





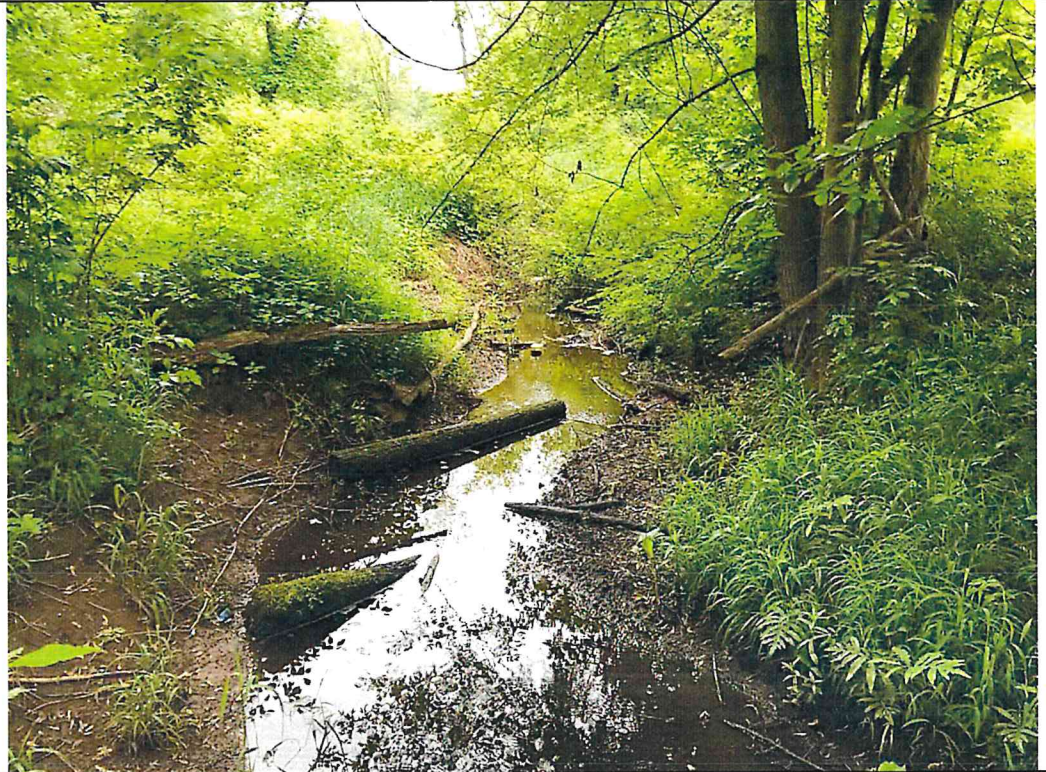
**Client Name:**  
Town of Simsbury

**Site Location:**  
Tariffville Road, Simsbury, Connecticut

**Project No.**  
1613-20

**Photo No.**  
5      **Date:**  
06/01/2018

**Direction Photo Taken:**  
Northeast



**Description:**  
Salmon Brook flowing north through forested federal wetlands. West of Road Stations 130+00 to 131+50.

**Photo No.**  
6      **Date:**  
05/29/2019

**Direction Photo Taken:**  
East



**Description:**  
South bank of Farmington River and existing informal access to the west of the entrance drive to Curtiss Park. North of Road Station 134+50.





**Client Name:**  
Town of Simsbury

**Site Location:**  
Tariffville Road, Simsbury, Connecticut

**Project No.**  
1613-20

**Photo No.**  
7      **Date:**  
05/29/2019

**Direction Photo Taken:**  
East

**Description:**  
Existing informal access to the Farmington River west of the entrance drive to Curtiss Park. North of Road Station 134+50.



**Photo No.**  
8      **Date:**  
09/03/2018

**Direction Photo Taken:**  
Northwest

**Description:**  
Intersection of maintained lawn state wetlands, backwater pool/forested federal wetlands, and wet meadow federal wetlands. Adjacent to entrance of Curtiss Park and Tariffville Road. West of Road Station 141+50.





**Client Name:**  
Town of Simsbury

**Site Location:**  
Tariffville Road, Simsbury, Connecticut

**Project No.**  
1613-20

**Photo No.**  
9      **Date:**  
09/03/2018

**Direction Photo Taken:**  
Northeast

**Description:**  
Dry maintained lawn state wetlands (floodplain soils) adjacent to Tariffville Road. West of Road Stations 136+00 to 141+00.



**Photo No.**  
10      **Date:**  
09/03/2018

**Direction Photo Taken:**  
Northwest

**Description:**  
Intersection of maintained lawn state wetlands, backwater pool/forested federal wetlands, and wet meadow federal wetlands. Adjacent to entrance of Curtis Park and Tariffville Road. West of Road Station 141+50.



**APPENDIX D**  
WETLAND FUNCTION-VALUE EVALUATION FORMS

# Wetland Function-Value Evaluation Form

Wetland I.D. Farmington River and riparian corridor  
 Latitude 41.89459 N Longitude -72.782201 E  
 Prepared by: MJS Date 6/18/2018  
 Wetland Impact: Type Fill Arca 0.01 acre

Evaluation based on:  
 Office \_\_\_\_\_ Field  X  
 Corps manual wetland delineation completed? Y  N

Total area of wetland NA Human made? no Is wetland part of a wildlife corridor? yes or a "habitat island"? no  
 Adjacent land use recreational & commercial Distance to nearest roadway or other development 10 ft  
 Dominant wetland systems present PFO1 Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower  
 How many tributaries contribute to the wetland? 2 Wildlife & vegetation diversity/abundance (see attached list)

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	Y	4,5,7,12	Y	
Floodflow Alteration	1,2	3,5,6,7,8,9,10,13,14,18	18Y	
Fish and Shellfish Habitat	Y	3,4,5,6,7,8,10,11,14,15,16,17	17Y	
Sediment/Toxicant Retention	Y	3,4,5,7,9,10,16	Y	
Nutrient Removal	1	2,3,7,8,10,11,14	Y	
Production Export		1,2,5,6,7,8,10	Y	
Sediment/Shoreline Stabilization	Y	6,7,9,12,13,14	Y	
Wildlife Habitat	Y	1,2,6,7,8,11,12,13,15,19,20	20Y	
Recreation	Y	1,2,4,5,6,7,8,9,10,11,12	12Y	
Educational/Scientific Value	Y	1,2,4,5,8,9,10,11,13	13Y	
Uniqueness/Heritage	Y	3,5,7,8,9,10,11,12,14,16,17,18,19,22,27,30	Y	
Visual Quality/Aesthetics	Y	1,3,6,8,9,12	Y	
<b>ES</b> Endangered Species Habitat	Y	1	N	
Other				

Notes: \* Refer to backup list of numbered considerations.

**Tariffville Connection, Multi-Use Trail  
Vegetation Inventory**

Common Name	Scientific Name
<b>Trees</b>	
Northern catalpa	<i>Catalpa speciosa</i>
Black oak	<i>Quercus velutina</i>
Red maple	<i>Acer rubrum</i>
Sugar maple	<i>Acer saccharum</i>
American elm	<i>Ulmus americana</i>
Shagbark hickory	<i>Carya ovata</i>
Silver maple	<i>Acer saccharinum</i>
Mockernut hickory	<i>Carya tomentosa</i>
Green ash	<i>Fraxinus pennsylvanica</i>
White ash	<i>Fraxinus americana</i>
American boxelder	<i>Acer negundo</i>
Eastern red cedar	<i>Juniperus virginiana</i>
Black cherry	<i>Prunus serotina</i>
Pin oak	<i>Quercus palustris</i>
American linden	<i>Tilia americana</i>
Black locust	<i>Robinia pseudoacacia</i>
<b>Shrubs</b>	
Multiflora rose#	<i>Rosa multiflora</i>
Morrow's honeysuckle#	<i>Lonicera morrowii</i>
Elderberry	<i>Sambucus canadensis</i>
Silky dogwood	<i>Swida amomum</i>
<b>Herbaceous &amp; Vines</b>	
Oriental bittersweet#	<i>Celastrus orbiculatus</i>
Crabgrass#	<i>Digitaria sanguinalis</i>
Rabbit foot clover#	<i>Trifolium arvense</i>
Red clover#	<i>Trifolium pratense</i>
Creeping red fescue	<i>Festuca rubra</i>
Mugwort#	<i>Artemisia vulgaris</i>
Goldenrod	<i>Solidago sp.</i>
Joe Pye weed	<i>Eutrochium purpureum</i>
Ragweed	<i>Artemisia sp.</i>
Spotted spurge	<i>Euphorbia maculata</i>
Ostrich fern	<i>Matteuccia struthiopteris</i>
Jewelweed	<i>Impatiens capensis</i>
Purple vetch#	<i>Vicia benghalensis</i>
Virginia creeper	<i>Parthenocissus quinquefolia</i>
Common blue violet	<i>Viola sororia</i>
Common milkweed	<i>Asclepias syriaca</i>
Broad leaved plantain#	<i>Plantago major</i>
Narrow leaved plantain#	<i>Plantago lanceolata</i>
Sensitive fern	<i>Onoclea sensibilis</i>
Garlic mustard#	<i>Alliaria petiolata</i>

**Tariffville Connection, Multi-Use Trail  
Vegetation Inventory**

Common Name	Scientific Name
Poison ivy	<i>Toxicodendron radicans</i>

#Non-native species

No significant wildlife observations were made during our field delineation and/or wildlife surveys performed over the past two years. This river corridor does provide valuable habitat to a variety of wildlife species, including small mammals, songbirds, fish, reptiles, and amphibians. Listed federal and stated species may use the river and its associated floodplains during the year and has been documented in our CTDEEP Natural Diversity Database Final Determination report.

**APPENDIX E**  
IMPACT ASSESSMENT

## APPENDIX E

### WETLAND IMPACT ASSESSMENT

The following wetland impact assessment is based on project plans entitled "Tariffville Connection, Multi-Use Trail from Hopmeadow St. (Rt. 10) to Curtiss and Pattison Parks," dated June 24, 2020, prepared by Milone & MacBroom, Inc. The proposed project will include construction of approximately 3,600 linear feet of 10-foot-wide multiuse trail along the north side of Tariffville Road to provide safe pedestrian and bike access to Curtiss and Pattison Parks from the Farmington Canal Heritage Trail. Modification of existing entrance drives, guiderails, and stormwater infrastructure are required to accommodate the trail installation. Additionally, an existing informal, eroding pedestrian river access to the Farmington River located within Curtiss Park will be formalized and stabilized by installing stone steps on the bank of the river.

Alteration of on-site wetlands and watercourses has been minimized to the greatest extent practicable. The proposed project will result in approximately 10 square feet of disturbance and approximately 0.4 cubic yards of permanent fill within the Farmington River due to installation of the proposed river access stone steps. Approximately 990 square feet of permanent fill in federal wetlands and 5,300 square feet of temporary disturbance (i.e., cutting vegetation) in federal wetlands are also required to construct the trail. The secondary shading impact from the proposed boardwalk within federal wetlands is approximately 2,650 square feet of the 5,300 square feet of temporary impact presented above. Permanent alterations of federal wetlands include installation of steel piles to support a boardwalk over Salmon Brook and grading within wetlands to accommodate the installation of stone steps along the bank of the Farmington River. No impacts to Salmon Brook are proposed as the boardwalk structure will span the watercourse. The boardwalk will be set on 3-inch-diameter steel piles to reduce fill in wetlands and to allow for continued functioning of the wetlands. Temporary disturbances to the federal wetlands includes the cutting of existing herbaceous and woody vegetation flush to the soil surface to allow for construction of the boardwalk. No removal of cut woody stumps is anticipated, and it is expected that any cut herbaceous plants and/or woody shrubs will resprout during the growing season. Additionally, 46,360 square feet of permanent alteration of state wetlands is required to construct the bituminous concrete trail. State wetlands in the project area generally consist of maintained lawn with scattered trees, fences, and a gravel entrance drive to Curtiss Park. These state-regulated alluvial floodplain soils are located adjacent to a heavily traveled roadway (Tariffville Road) and have been significantly disturbed to construct Curtiss Park. The wetlands do not provide significant wetland functions and values or natural wildlife habitat.

Best management practices, including sediment and erosion control measures, have been incorporated into proposed project plans to avoid temporary impacts to water quality, wetland and watercourse resources, and wildlife during construction. Sediment filter fence will be installed around work areas adjacent to natural resources to prevent wildlife from entering the site and to prevent disturbed sediments from leaving the project site.

Based on our assessment of the quality of the wetlands along the project corridor and the protection measures that are being implemented, it is our professional opinion there will be no long-term significant adverse impacts to the wetlands and watercourses within the project corridor. Furthermore, the wetlands and watercourses will continue to provide their principal wetland functions and values that have been ascribed to these resources.

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