

Wetland Border Report

Site Locus: 934 Victory Highway, North Smithfield, RI 02896

Prepared for: Solli Engineering, LLC

Prepared by: Goddard Consulting LLC, 291 Main St, Suite 8, Northborough MA 01532

Date: 3/13/2025

INTRODUCTION

On March 13, 2024, wetland resources were delineated for Solli Engineering LLC on land located on or near 934 Victory Highway, North Smithfield, RI 02896 (refer to enclosed locus maps). The wetland border was flagged using the criteria in the most recent edition of the Rules and Regulations under the Freshwater Wetlands Act and US Army Corps of Engineers standards. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of attached documents are as follows:

- US Army Corps of Engineers Wetland Determination Data Sheet
- USGS of Locus Site, Goddard Consulting LLC, 3/11/2025
- Orthophoto of Locus Site, Goddard Consulting LLC, 3/11/2025
- FEMA Flood Map of Locus Site, Goddard Consulting LLC, 3/11/2025
- NRCS Soil Survey of Locus Site, Goddard Consulting LLC, 3/11/2025

SITE OVERVIEW

The locus site is a piece of land that has historically been utilized as a tree farm until the early 2000s. As such, the site exhibits a preponderance of evidence that it has been altered throughout the years, including the wholesale manipulation of soils and vegetation. Based on Goddard's site assessment, it appears that a substantial amount of cut has occurred, lowering grades across the majority of the site by 1 to 2 feet below natural conditions, it is possible this manipulation occurred as part of past brownfield cleanup measures on site. Soils identified on site, by and large, appear to be unnatural and, to some extent, likely have not formed in place.

Soil series mapped on site include Canton and Charlton Fine Sandy Loams, Sutton Fine Sandy Loam, and small portions of Ridgebury, Leicester and Whitman Soils, Urban Land, and Canton-Urban Land Complex. One wetland area is mapped on the site alongside the eastern property boundary.

SUMMARY OF FINDINGS

The boundary of one freshwater wetland on site was delineated with flag series GCA1-GCA20. The sampling point for the BVW determination took place near flag GCA13. Vegetation upgradient of the wetland boundary is dominated by black cherry, red maple, cultivated apple trees, honeysuckle, silky dogwood, multiflora rose, Asiatic bittersweet and Pennsylvania sedge. Vegetation downgradient of the wetland boundary is dominated by silky dogwood, reed canary grass, and grapevine. This wetland is an apparent excavated farm pond and surrounding areas of low topography that exhibits wetland vegetation and hydric soils. This wetland system flows offsite to a broader wetland system to the east of the site.

Soils identified on the property consist of primarily sandy loams. In the wetland soil sample, an A horizon with matrix color 10YR2/1 was found from 0-10", a B horizon with matrix color 10YR4/4 was found from 10-15", and a C horizon with matrix color 10YR5/3 and redoximorphic features was found below 15". In the upland soil sample, an A horizon with matrix color 10YR2/2 was found from 0-4", a B horizon with matrix color 10YR4/6 was found from 4-9", and a C horizon with matrix color 10YR6/6 was found below 9". More detailed information about soils is included in the attached NRCS Soil Map and US Army Corps of Engineers Wetland Determination Data Sheets.

According to RIGIS data layers, the locus site is not located within a Natural Heritage Area. The delineated wetland on site is mapped by NWI as PUBHh. The site is located within Rivers Protection Region 2.

The RI Freshwater Wetlands Rules (250-RICR-150-15-3) takes jurisdiction over freshwater wetlands as delineated on the site. The delineated wetland on site has a jurisdictional Buffer Zone that casts onto the locus site. The width of the Buffer Zone can be variable dependent on the size of the wetland. Buffer, within the Buffer Zone, is likely present as well.

Any work within the wetlands or buffer zones requires a permit filing with RI DEM.

DESCRIPTION OF REGULATED FRESHWATER WETLANDS

The table below provides the regulatory jurisdiction, flag numbers/colors, and wetland types and locations for the resource areas delineated.

Resource Area	Regulatory Jurisdiction	Flag Numbers and Color	Wetland Types and Locations
Freshwater Wetland (Marsh; farm pond internal to marsh)	Freshwater Wetland & variable Buffer Zone width dependent partially on surface area	GCA1-GCA20 (Blue flags)	The outer boundary of a marsh in the eastern portion of the site.

SITE PHOTOS



Photo 1. View of farm pond internal to delineated wetland.



Photo 2. View of delineated wetland adjacent to farm pond.



Photo 3. View of hydric soil sample pulled downgradient of flag GCA13.



Photo 4. View of non-hydric soil sample pulled upgradient of flag GCA13.

Sincerely,
Goddard Consulting, LLC

Steven Riberdy, MS, PWS, CWB, CERP, CE, PSS
Lead Biologist / Senior Manager / Palmer Office Manager

Chris Frattaroli
Lead Wetland Scientist

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: 934 Victory Highway City/County: North Smithfield Sampling Date: 3/13/2025
 Applicant/Owner: Solli Engineering, LLC State: RI Sampling Point: GCA13 - up
 Investigator(s): Steve Riberdy, Chris Frattaroli, Jessica Smith Section, Township, Range: _____
 Landform (hillside, terrace, etc.): Field Local relief (concave, convex, none): Concave Slope %: 5
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 42.00436089704214 Long: -71.58722702338369 Datum: _____
 Soil Map Unit Name: Canton and Charlton FSL, Sutton FSL, Ridgebury, Leicester, and Whitman NWI classification: Freshwater Pond
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil x, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <u>x</u> Hydric Soil Present? Yes _____ No <u>x</u> Wetland Hydrology Present? Yes _____ No <u>x</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Site is highly disturbed after decades of agricultural activities. Soils are visibly heavily manipulated and subsoils appear to be imported fill. Topsoil may also be imported.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u>		<u>Secondary Indicators (minimum of two required)</u>	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input 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)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<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)	
Field Observations: Surface Water Present? Yes _____ No <u>x</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>x</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>x</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>x</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION – Use scientific names of plants.

 Sampling Point: GCA13 - up

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Prunus serotina</u>	20	Yes	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)																
2. <u>Acer rubrum</u>	20	Yes	FAC																	
3. <u>Malus</u>	20	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	60	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>20</u></td> <td>x 5 = <u>100</u></td> </tr> <tr> <td>Column Totals: <u>165</u> (A)</td> <td><u>625</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.79</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>20</u>	x 5 = <u>100</u>	Column Totals: <u>165</u> (A)	<u>625</u> (B)	Prevalence Index = B/A = <u>3.79</u>	
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Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Cornus amomum</u>	10	Yes	FACW																	
2. <u>Rosa multiflora</u>	15	Yes	FACU																	
3. <u>Lonicera japonica</u>	15	Yes	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	40	=Total Cover																		
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Carex pensylvanica</u>	20	Yes	UPL	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago rugosa</u>	5	No	FAC																	
3. <u>Toxicodendron radicans</u>	5	No	FAC																	
4. _____																				
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6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	30	=Total Cover																		
Woody Vine Stratum (Plot size: <u>30</u>)																				
1. <u>Celastrus orbiculatus</u>	30	Yes	FACU	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. <u>Toxicodendron radicans</u>	5	No	FAC																	
3. _____																				
4. _____																				
	35	=Total Cover																		
Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point GCA13 - up

[illegible]

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 934 Victory Highway City/County: North Smithfield Sampling Date: 3/13/2025
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Are Vegetation _____, Soil x, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No x
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

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

VEGETATION – Use scientific names of plants.

Sampling Point: GCA13 - wet

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
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Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Cornus amomum</u>	<u>60</u>	<u>Yes</u>	<u>FACW</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
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Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Impatiens capensis</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Solidago rugosa</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u>Geum macrophyllum</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Phalaris arundinacea</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
=Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: <u>30</u>)																				
1. <u>Vitis</u>	<u>40</u>	<u>Yes</u>	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____																

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

Sampling Point GCA13 - wet

Northcentral and Northeast – Version 2.0

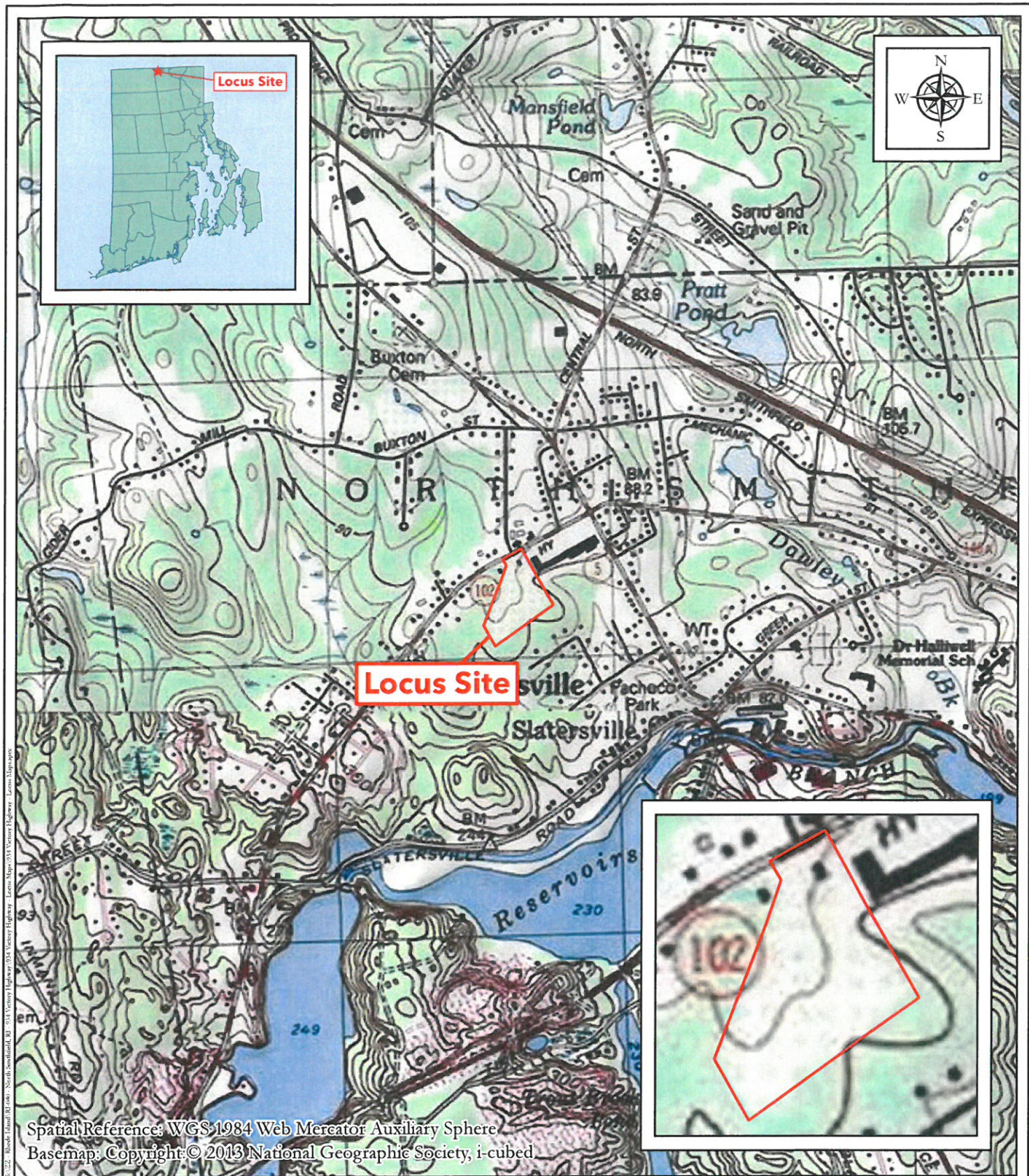
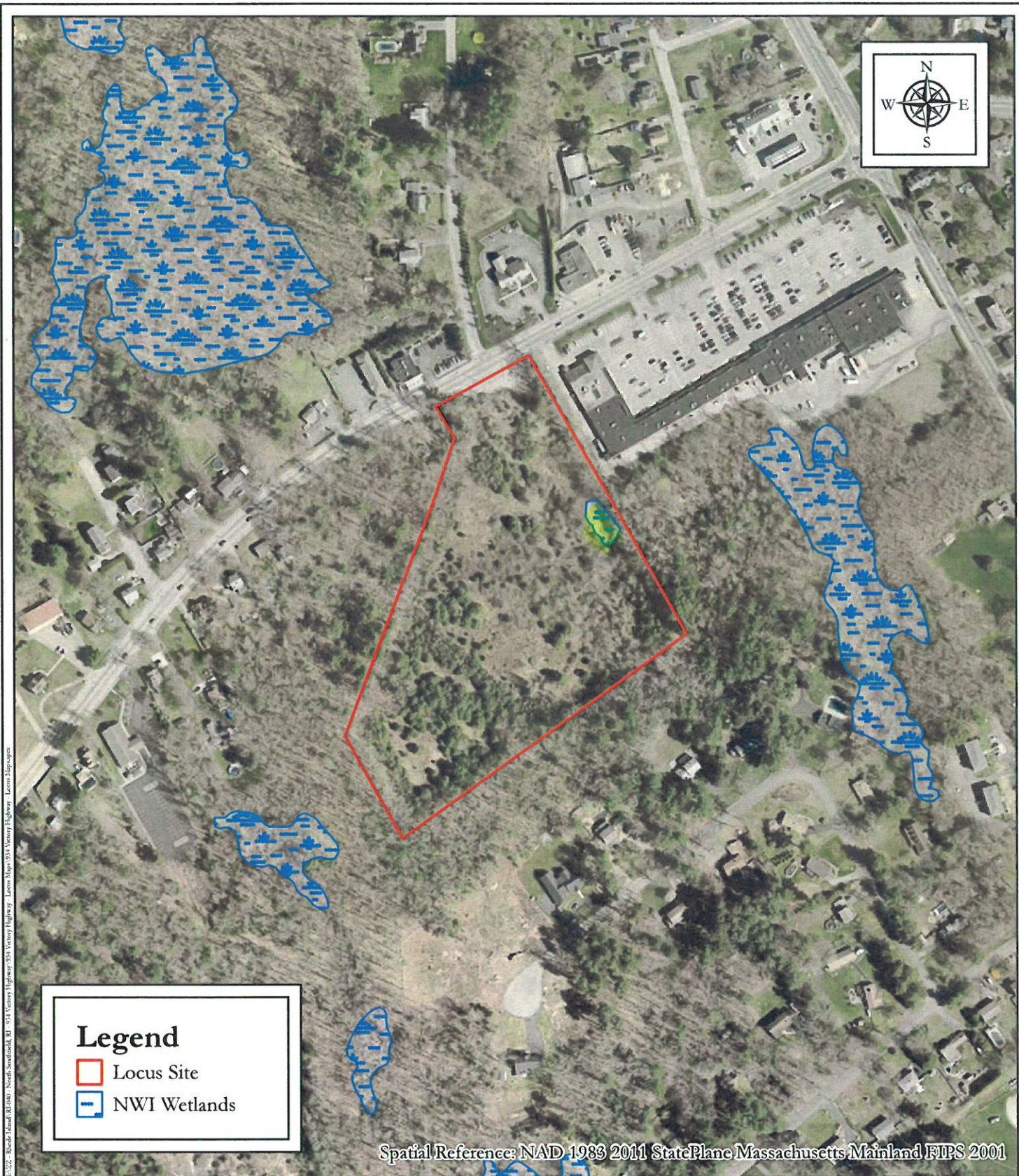


Figure 1



Orthophoto of Locus Site

0 150 300 Feet 1" = 300'

71.5875465°W, 42.0036166°N

Date: 03/11/2025

934 Victory Highway
North Smithfield, RI 02896


Parcel Number: 001-045

Figure 2

Legend


 Locus Site


Zone Type


 1% Annual Chance Flood Hazard


 Regulatory Floodway

 Special Floodway

 Area of Undetermined Flood Hazard

 0.2% Annual Chance Flood Hazard

 Future Conditions 1% Annual Chance Flood Hazard

 Area with Reduced Risk Due to Levee

 Area with Risk Due to Levee



Spatial Reference: NAD 1983 2011 StatePlane Massachusetts Mainland FIPS 2001



FEMA Flood Map of Locus Site

0 150 300 Feet 1" = 300'

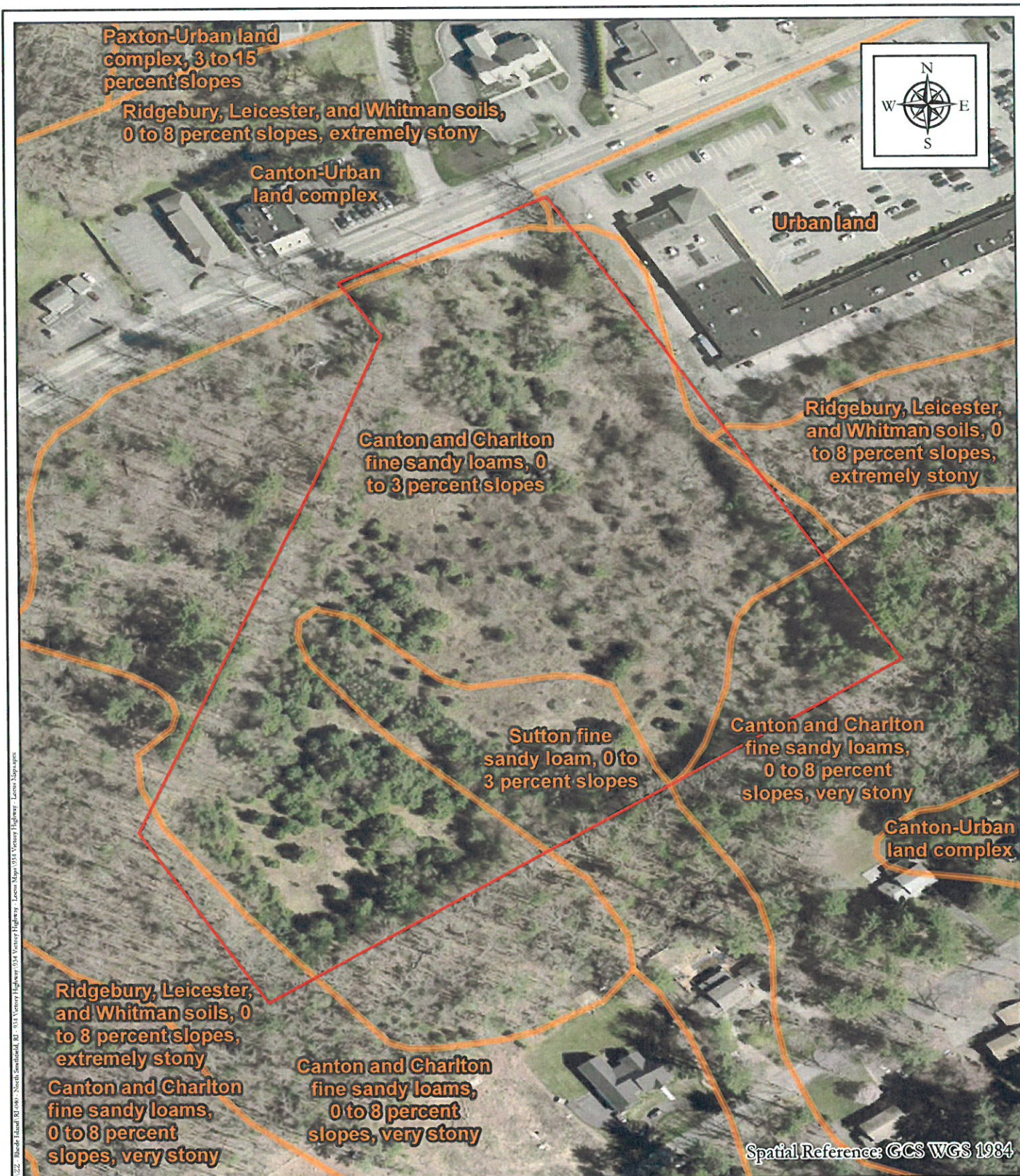
71.5879291°W, 42.0038914°N

Date: 03/11/2025

934 Victory Highway
North Smithfield, RI 02896

Parcel Number: 001-045

Figure 3



NRCS Soil Survey of Locus Site

0 90 180 Feet 1" = 180'

71.5875464°W, 42.0036249°N

Date: 03/11/2025

934 Victory Highway
North Smithfield, RI 02896

Parcel Number: 001-045

Figure 4