To: Murphy Road Energy Storage Project File

Date: July 2, 2025

Project #: 58952.13



From: Allison L. Slaney, PWS, Environmental Scientist and Adam R. Crary, SPWS, PWD,

Scientist and Adam R. Crary, SPWS, PWD, Re: Distribution Line Upgrades – Section 248 Natural Resources Regulatory Team Leader-Renewables Assessment Supplement; Revised Wetlands Assessment

# Introduction

On behalf of Murphy Road Energy Storage, LLC ("Petitioner"), and at the request of Encore Renewable Energy ("Encore"), VHB provided natural resources assessments and pre-filed testimony to the Vermont Public Utility Commission ("PUC") (Case #: 25-1023-PET) on May 22, 2025, for the Petitioner's proposed 5 MW battery energy storage system ("BESS"), to be located off Murphy Road in Bennington, Vermont. Pursuant to the BESS interconnection requirements, VHB documented a preliminary natural resource assessment of the associated upgrades required to the Green Mountain Power ("GMP") existing electric distribution line ("Distribution Line Upgrades"). The BESS will interconnect to the GMP NB-G73 circuit in the vicinity of Line 822 Pole 14 Tag 544229. Distribution Line Upgrades were identified by GMP to take place along Murphy Road, from the street frontage of an existing solar array, and extend northward approximately 2,400 feet to finish at North Bennington Road (Vermont Route 67A) and Murphy Road intersection. The existing line and proposed upgrades are shown on the Preliminary Natural Resources Map - Attachment 1 of MRES-AS-3.

Wetland and water resources in proximity to the proposed Line Distribution Upgrades were originally approximated by VHB in the field on January 21, 2025, under mostly snow-covered ground conditions where hydrophytes, hydrology, and hydric soil indicators could not be positively identified. As such, VHB Environmental Scientists revisited the same corridor during the 2025 growing season ("Study Area"), as shown on the Preliminary Natural Resources Map - Attachment 1 of MRES-AS-3.

The revised wetlands assessment is intended to augment and revise Exhibit MRES-AC-3, superseding the previous approximated wetland assessment. This memorandum and enclosures, update VHB's findings with respect to the Wetlands criterion following the detailed delineation and is supported by a revised Natural Resources Map for Distribution Line Upgrades, as well as photographs and U.S. Army Corps of Engineers ("USACE") Wetland Determination Data Forms taken during the June 2025 field investigation.

#### Wetlands

On June 20, 2025, VHB Environmental Scientists delineated and mapped boundaries of four wetland complexes, three of which are Categorical Class II Wetlands as they meet the following Vermont Wetland Rule ("VWR") (ANR 2023) 4.6 Presumptions (a): threshold size greater than 0.5 acres and/or (b): contains a prevalence of woody vegetation adjacent to a stream; and provides the following significant functions: Water Storage for Flood Water and Storm Runoff (5.1), Surface and Ground Water Protection (5.2), and/or Erosion Control through Binding and Stabilizing the Soil (5.10). With the growing season detailed delineation, wetland areas have been adjusted since the January 2025 approximate mapping. VHB will request a site visit with DEC Wetland's Program to confirm VHB mapped wetland boundaries and proposed classifications, if DEC feels it is necessary.

Four pole replacements, one new pole, one pole removal, and undergrounding of the line (UGE) was proposed in wetlands and/or within 50 feet of a potential wetland boundary in the original filing, which has been revised with respect to the updated field assessment, to now include three pole replacements, one pole removal, and UGE along the Distribution Line Upgrades (as depicted on the Natural Resources Map for Distribution Line Upgrades, revised July 2, 2025). Proposed structure replacements and pole

<sup>&</sup>lt;sup>1</sup> Distribution Line Upgrades – Section 248 Natural Resources Assessment Supplement, provided as Exhibit MRES-AC-3 in the May 2025 (Case#: 25-1023-PET)

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removals within Categorical Class II wetlands or buffers following *Repair and Maintenance Allowed Use Guidance* would qualify as an Allowed Use under 6.8 of the VWR. Up to three new poles would qualify as an Allowed Use under Section 6.22 of the VWR, but there are no new poles proposed within Categorical Class II wetlands or buffers. A segment of the existing overhead line corridor would be required to be UGE and will be installed by open trenching, a portion of which will be within a Class II wetland buffer off a wetland located on the opposite side of Murphy Road. The UGE segment would require a Vermont Wetland Permit ("VWP") for temporary soil disturbance through a managed (open field) Class II wetland buffer. Permit coverage under the Vermont Wetland General Permit 9-3025 will be acquired before construction to authorize wetland buffer impacts. This portion of the wetland buffer is managed, due to current land use within the GMP distribution corridor and subject to vegetation management and will not adversely impact wetland or buffer function. With adherence to Best Management Practices ("BMPs") pursuant to the abovementioned Allowed Uses, and VWP coverage for the UGE segment, the Project will comply with the VWR and will not result in undue adverse impacts to wetlands, significant or otherwise.

#### Conclusion

Wetland and wetland buffer areas that are regulated pursuant to the VWR, as well as wetlands and waters under Section 404 of the federal Clean Water Act jurisdiction, are present in the vicinity of the proposed Line Distribution Upgrades. As described above, the Distribution Line Upgrades would trigger the need for permit authorization under the state VWR. The Petitioner will obtain all collateral environmental permits identified before Project construction, anticipated to include a VWP for temporary Class II wetland buffer impact associated with the UGE line segment installation in the wetland buffer.

Activities associated with the Distribution Line Upgrades within the Floodway (floodway, floodplain, river corridor, etc.) and Shoreline areas will only involve pole replacements and the results and conclusions in Exhibit MRES-AC-3 are unchanged.

Based on the findings of VHB's revised field assessment in June 2025, the Project will not result in new natural resources impacts, and no new waters<sup>2</sup>, rare/threatened or endangered species, rare/irreplaceable natural areas, or NWH was otherwise observed in the Study Area. Therefore, the prior conclusion that the Distribution Line Upgrades will not have any undue adverse effects on natural resources within the scope of Section 248(b)(5) is unchanged by this updated delineation.

#### **Attachments**

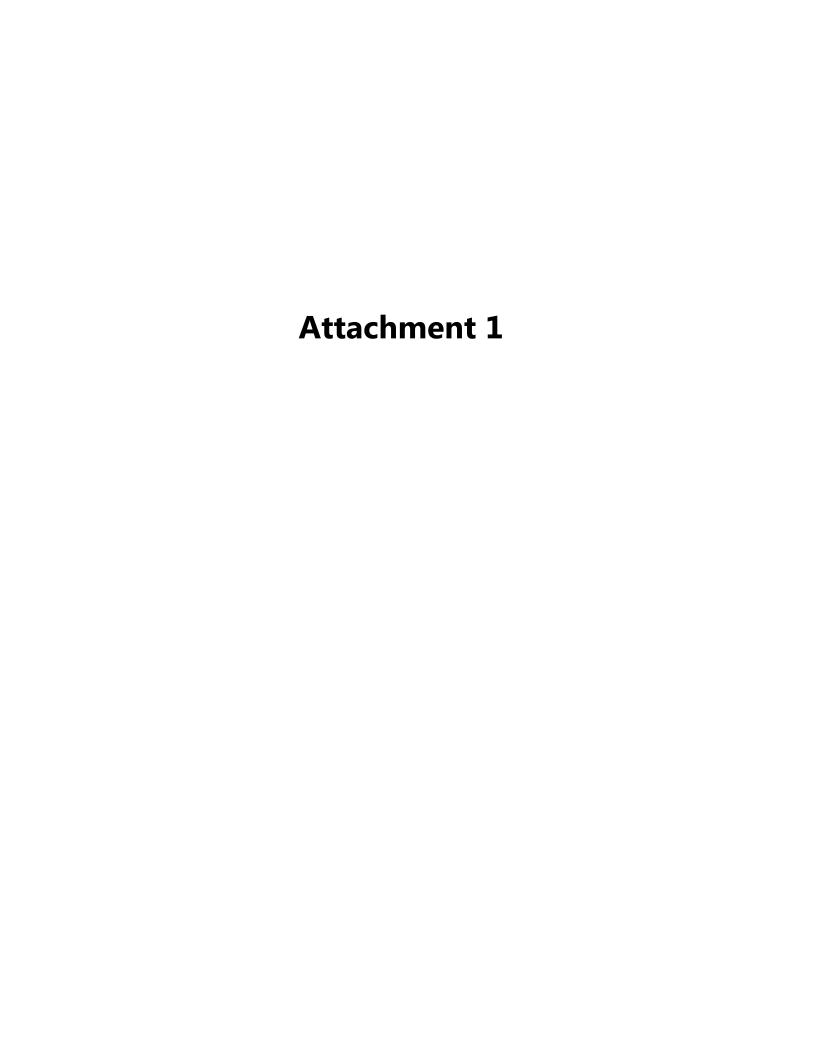
- 1. Natural Resources Map Distribution Line Upgrades, Revised: July 2, 2025
- 2. Murphy Road Storage Project Distribution Line Upgrades Representative Wetland Photographs
- 3. Wetland Determination Data Forms

#### References

Agency of Natural Resources. 2023. *Vermont Wetlands Rules*. Department of Environmental Conservation. Effective February 10, 2023.

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<sup>&</sup>lt;sup>2</sup> Outstanding Resource Waters, headwaters, floodways, streams, waterbodies, shorelines

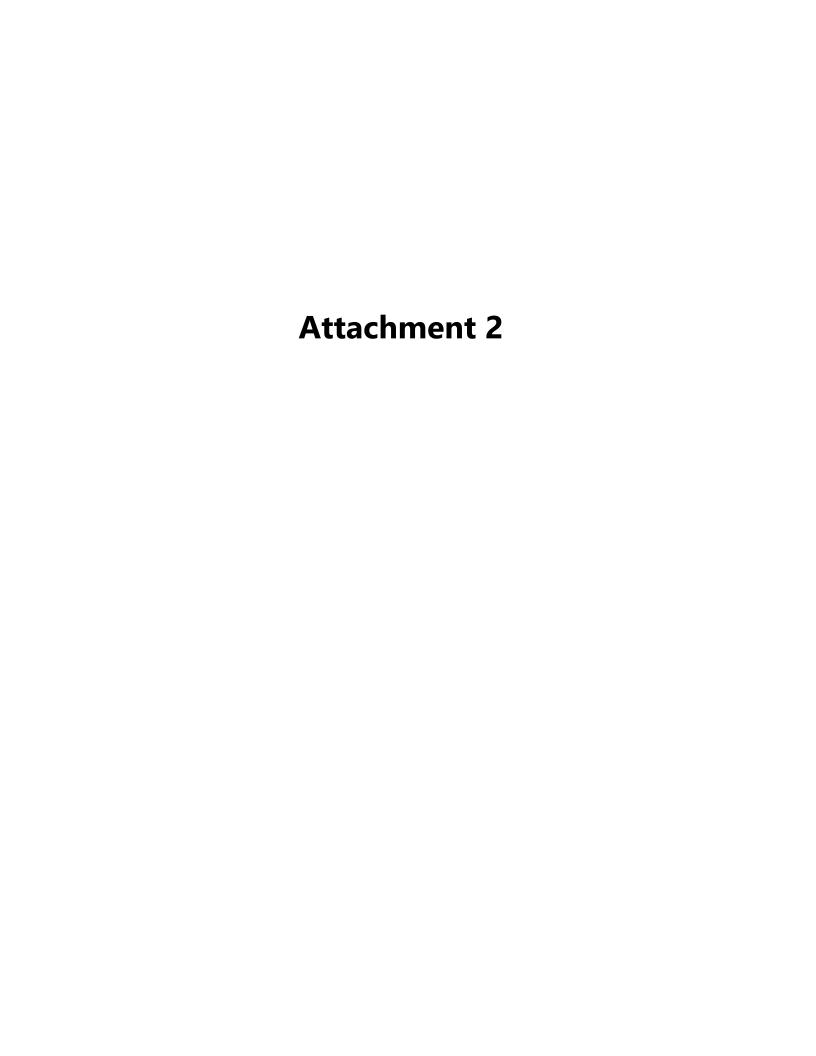


**Natural Resources Map - Distribution Line Upgrades** Revised: July 02, 2025 Murphy Road Energy Storage System Project | Bennington, Vermont Soil Soil Map Unit Farmland Classificatio End of Line Upgrade Galway-Nellis-Farmington complex, 8 to 15 percent highly erodible 2.4 O<sup>543905</sup> slopes, rocky Georgia loam, 8 to 15 percent slopes 66C Statewide 0.7 67C 2.5 Georgia loam, 8 to 15 percent slopes, very ston O<sup>544197</sup> 0.3 70A potentially highly 70B 0.03 Groton gravelly fine sandy loam, 3 to 8 percent slope erodible 21A Limerick silt loam, 0 to 3 percent slope Statewide (b) 0.9 not highly erodible 2025-100(III) 29A Occumfine sandy loam, 0 to 3 percent slop Prime (f) not highly erodible 2.3 2025-1(II) 64D 0.1 27B 0.4 2025-TOB/OHW-WR(P) 2025-TOB/OHW-WR(P) O<sup>544139</sup> O<sup>543919</sup> 70A 70A 543431 O<sup>858105</sup> **Murphy Road Energy Storage, LLC Study Area** 2024-D-2 85<mark>8106</mark> 2025-4(II) 64C 858107 2024-D-2 2025-3(II) In-kind pole replacement will occur for reconductoring 858109 VHB understands any necessary vegetation management thin the existing corridor will be conducted as line maintenance in accordance with Green Mountain Power's ("GMP") vegetation management procedures. Streams will be crossed via existing roadways, with Start of Line Upgrade: Approximately 2,400 ft. Construction equipment access will be achieved from the of line upgrade existing roadway and/or low-ground pressure equipment, no soil disturbance from access is anticipated. In-kind replacement and pole removal activities within Class II wetlands or buffers, if present, would be considered Allowed Uses under the current Vermont Wetland Rule Section 6.8. Proposed underground electric through Class II Wetland buffer will be installed via open trench under the Vermont Wetland General Permit 9-3025. 200 Feet Riparian Buffer (VHB) (1) Study Area (VHB) (1) Deer Wintering Areas (ANR) (0) Class II Wetland Buffer (VHB) (3) Uncommon Species (ANR) (0) Proposed New Pole (Approx.) (VHB) (2) Proposed Replacement Pole (Approx.) (VHB) (14) Stream (ANR)\* (3) Rare, Threatened, Endangered Species (ANR) (0) Existing Pole to be Removed (Approx.) (VHB) (1) Waterbody (ANR) (1) Natural Communities (ANR) (0) VSWI Wetland (ANR) (3) Proposed New Underground (Approx.) (VHB) (1) AE/VCE Confirmed Vernal Pools (0) Proposed Reconductoring (VHB/GMP) (2) River Corridor (ANR) (3) NRCS Soil Boundary (VCGI) Existing Utility Pole - GMP (VCGI) (56) FEMA Flood Zone (FEMA) 0 Town Boundary (VCGI) 1% Annual Chance Flood Hazard(3) Existing Overhead Electric - GMP (VCGI) (2) Parcel Boundary (VCGI) Regulatory Floodway(1) Found Culvert (VHB) (16) A VHB Environmental Scientist conducted a field reconnaissance on January 21, 2025 Public Water Source (ANR) (0) Ditch (VHB) (1) and wetland and water delineation on June 19, 2025. Mapped wetland/waters boundaries and classifications are subject to review by DEC District Wetlands Ecologist Ground Water SPA (ANR) (0) Delineated Water (VHB) (3) Sources: Background Imagery by VCGI (Collected in 2024), VCGI (Vermont Center for Geographic Information - Various Dates); ANR (Vermont Agency of Natural Resources - Various Dates), FEMA (Federal Emergency Management Agency - Various Dates), Surface Water SPA (ANR) (0) Delineated Wetland (VHB) (4)

VTrans (Vermont Agency of Transportation - Various Dates), VHB (2024, 2025)

\* Layer varies from State Mapping

USACE Data Points (VHB) (2)







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# Murphy Road Energy Storage Project Distribution Line Upgrades – Representative Wetland Photographs

PROJECT NUMBER

58952.13

CLIENT

Murphy Road Energy Storage, LLC 50 Lakeside Avenue Burlington, VT 05401

LOCATION Murphy Road Bennington, VT 05201





NO.1/6.20.2025

## DESCRIPTION

A representative photograph of a small depressional proposed Class III Wetland 2025-100, adjacent to existing GMP ROW and VT Route 67A.



NO. 2 / 6.20.2025

### DESCRIPTION

A representative photograph of Palustrine Forested (PFO) Categorical Class II Wetland 2025-1, upstream of the Paper Mill Village Bridge and GMP utility ROW.





NO. 3 / 6.20.2025

# DESCRIPTION

A representative photograph of PFO Categorical Class II Wetland 2025-3. The wetland occurs in a forest fragment on the south side of Murphy Road, opposite from the BESS Project access road.



NO. 4 / 6.20.2025

## DESCRIPTION

A representative photograph of Palustrine Emergent Wetland (PEM) Categorical Class II Wetland 2025-4. View looking north toward existing utility pole number 858106 and Murphy Road

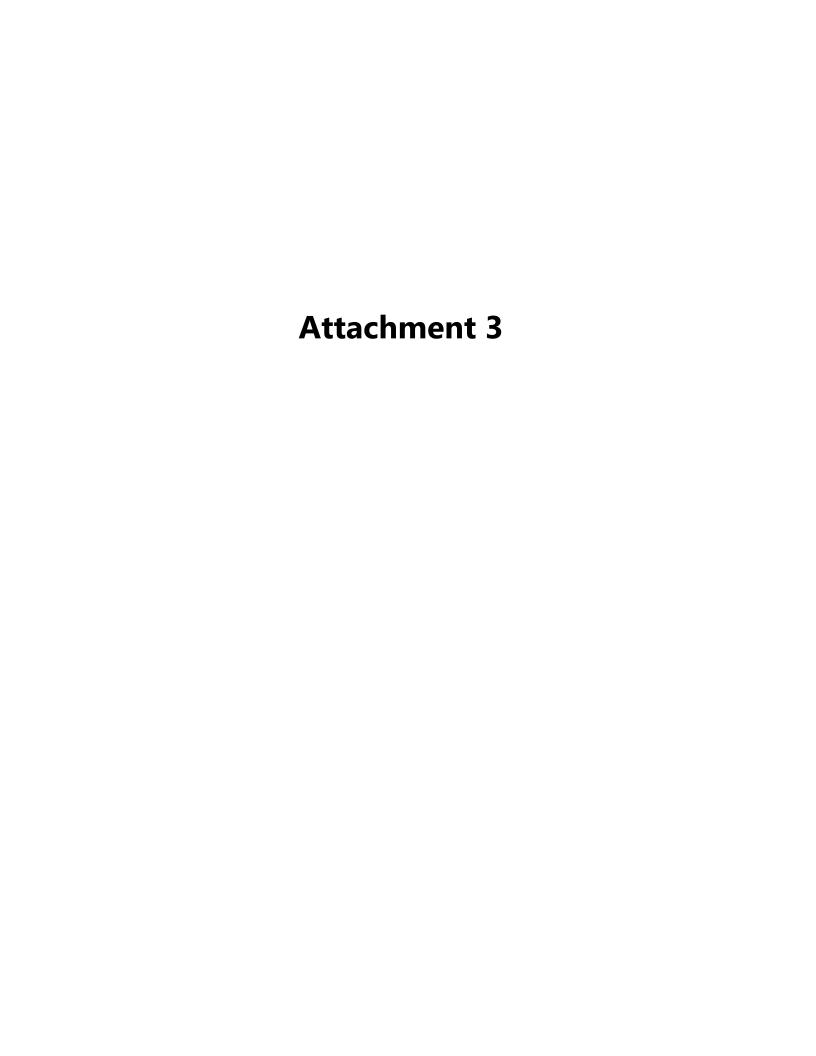




NO. 5 / 6.20.2025

## DESCRIPTION

A representative photograph of the Walloomsac River in the Study Area, photograph taken approximately 15 feet south of the covered Paper Mill Village Bridge near Murphy Road and VT Route 67A intersection.



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

2025-1-up

Investigator(s): VHB (AP) Section, Township, Re Local relief (concave, convex, Subregion (LRR or MLRA): LRR R Lat: 42.912369 Soil Map Unit: Occum fine sandy loam  Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic? No  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tre Hydrophytic Vegetation Present? NO	VT Sampling Point: Range: Bennington  None Long: -73.235023  (If no, explain in Remarks.)	Samp. Date: 6/2/2025 2025-1-up
Investigator(s): VHB (AP) Section, Township, Re Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, Subregion (LRR or MLRA): LRR R Lat: 42.912369  Soil Map Unit: Occum fine sandy loam  Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tre Hydrophytic Vegetation Present? NO	Range: Bennington  k, none): None  Long: -73.235023  (If no, explain in Remarks.)	2025-1-up
Landform (hillslope, terrace, etc.):  Subregion (LRR or MLRA):  LRR R  Lat:  42.912369  INDIPITED STATE STAT	k, none): None Long: -73.235023  (If no, explain in Remarks.)	
Subregion (LRR or MLRA): LRR R Lat: 42.912369  Soil Map Unit: Occum fine sandy loam  Are climatic/hydrologic conditions on the site typical for this time of year? Yes (I Are Vegetation, Soil, or Hydrology significantly disturbed? No  Are Vegetation, Soil, or Hydrology naturally problematic? No  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tr Hydrophytic Vegetation Present? NO	Long: -73.235023 (If no, explain in Remarks.)	Slope (%): <b>0-3</b>
Soil Map Unit: Occum fine sandy loam  Are climatic/hydrologic conditions on the site typical for this time of year? Yes (I Are Vegetation, Soil, or Hydrology significantly disturbed? No No  Are Vegetation, Soil, or Hydrology naturally problematic? No No  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tr Hydrophytic Vegetation Present? NO	(If no, explain in Remarks.)	Datum: NAD 83
Are Vegetation, Soil, or Hydrology significantly disturbed? Are Vegetation, Soil, or Hydrology naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tr Hydrophytic Vegetation Present?  NO	, , ,	NWI Class: UPL
Are Vegetation, Soil, or Hydrology naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sample point locations, tr Hydrophytic Vegetation Present?  NO	Normal Cir	
SUMMARY OF FINDINGS - Attach site map showing sample point locations, tr Hydrophytic Vegetation Present? <u>NO</u>		cumstances? Yes
Hydrophytic Vegetation Present? NO	(If needed, e	xplain any answers in Remarks
Hydrophytic Vegetation Present? NO	transacts important fo	aturos oto
	transects, important re	atures, etc.
	Is This Commis Area Within	a Watlanda NO
· · · · · · · · · · · · · · · · · · ·	Is This Sample Area Within	a Wetland? NO
Wetland Hydrology Present? NO  Remarks:		
Data collected approximately 20 feet north of Wetland 2025-1; in existing ROW		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicator	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cr	
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patte	erns (B10)
High Water Table (A2)  Aquatic Fauna (B13)	Moss Trim Line	es (B16)
Saturation (A3) Marl Deposits (B13)	Dry-Season W	ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burro	ws (C8)
Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)		ble on Aerial (C9)
Drift Deposits (B3) Presence of Reduced Iron (C4)		essed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic P	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquita	` '
Inundation Visible on Aerial (B7)  Other (Explain in Remarks)	Microtopograp	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral To	est (D3)
Field Observations:		
Surface Water Present? Depth (inches):		
Water Table Present? Depth (inches): W Saturation Present? Depth (inches):	Wetland Hydrology Present?	NO
Remarks:  No hydrology indicators observed		
	nce of indicators )	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence	nce of indicators.)	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features	·	<b>P</b> omarks
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo	Loc <sup>2</sup> Texture	Remarks
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist)	Loc² Texture - LOAM	Remarks
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist)	Loc² Texture - LOAM	Remarks
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:	Loc² Texture - LOAM - SANDY LOAM  - Cocation: PL=Pore Lining Indicators for Proble	, M=Matrix. ematic Hydric Soils <sup>3</sup> :
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1)Polyvalue Below Surface (S8) (LRR R,	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Location: PL=Pore Lining Indicators for Proble  2 cm Muck (A2  Coast Prairie R	, M=Matrix. ematic Hydric Soils <sup>3</sup> : LO) (LRR K, L, MLRA 149B)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MIRA 149B)	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Location: PL=Pore Lining Indicators for Proble  _ 2 cm Muck (A) _ Coast Prairie R _ 5 cm Mucky Po	, M=Matrix. ematic Hydric Soils <sup>3</sup> : LO) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R)
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) MLRA 149B)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)	Loc² Texture  - LOAM - SANDY LOAM  - Coast Prairie R - S cm Muck P - Dark Surface ( - Polyvalue Belo - Thin Dark Surf	i, M=Matrix.  ematic Hydric Soils <sup>3</sup> :  10) (LRR K, L, MLRA 149B)  sedox (A16) (LRR K, L, R)  eat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  w Surface (S8) (LRR K, L)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) MLRA 149B)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Location: PL=Pore Lining Indicators for Proble  2 cm Muck (A)  Coast Prairie R  5 cm Mucky Pe  Dark Surface (E)  Polyvalue Bele  Thin Dark Surf Iron-Mangane Piedmont Floo	t, M=Matrix.  ematic Hydric Soils <sup>3</sup> :  10) (LRR K, L, MLRA 149B)  sedox (A16) (LRR K, L, R)  eat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  w Surface (S8) (LRR K, L)  ace (S9) (LRR K, L)  se Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Histic Epipedon (A2) MLRA 149B)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)  Sandy Gleyed Matrix (S4) Redox Depressions (F8)	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Coation: PL=Pore Lining Indicators for Proble  2 cm Muck (A)  Coast Prairie R  5 cm Mucky Pc  Dark Surface (C)  Polyvalue Belo  Thin Dark Surf  Iron-Mangane  Piedmont Floo  Mesic Spodic (	t, M=Matrix.  ematic Hydric Soils <sup>3</sup> :  10) (LRR K, L, MLRA 149B)  sedox (A16) (LRR K, L, R)  eat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  w Surface (S8) (LRR K, L)  ace (S9) (LRR K, L)  se Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)
(in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Black Histic Epipedon (A2) MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Coation: PL=Pore Lining Indicators for Proble  2 cm Muck (A:  Coast Prairie R  5 cm Mucky Pt  Dark Surface (:  Polyvalue Belo  Thin Dark Surf  Iron-Mangane  Piedmont Floo  Mesic Spodic (  Red Parent Ma	matic Hydric Soils <sup>3</sup> :  10) (LRR K, L, MLRA 149B)  10) (LRR K, L, MLRA 149B)  10) (LRR K, L, R)  10) (LRR K, L, R)  10) (LRR K, L, R)  10) (LRR K, L, M)  11) W Surface (S8) (LRR K, L)  12) (LRR K, L)  13) (LRR K, L)  14) (LRR K, L)  15) (MRA LYPE)  16) (MLRA 144B)  17) (MLRA 144A, 145, 149B)  18) (MLRA 144A, 145, 149B)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B)  Black Histic Epipedon (A2) MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Depleted Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)  Sandy Gleyed Matrix (S4) Redox Depressions (F8)  Sandy Redox (S5)  Stripped Matrix (S6) 3Indicators of hydrophytic vegetation.	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Coation: PL=Pore Lining Indicators for Proble  2 cm Muck (A2  Coast Prairie R  5 cm Mucky Pe  Dark Surface (:  Polyvalue Belo  Thin Dark Surf  Iron-Mangane  Piedmont Floo  Mesic Spodic (  Red Parent Mation and  Very Shallow E	i, M=Matrix.  Di (LRR K, L, MLRA 149B)  Ledox (A16) (LRR K, L, R)  Leat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  S9 (LRR K, L, M)  S9 (LRR K, L)  See (S9) (LRR K, L)  See Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)  Sterial (F21)  Dark Surface (TF12)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Coation: PL=Pore Lining Indicators for Proble  2 cm Muck (A2  Coast Prairie R  5 cm Mucky Pe  Dark Surface (:  Polyvalue Belo  Thin Dark Surf  Iron-Mangane  Piedmont Floo  Mesic Spodic (  Red Parent Mation and  Very Shallow Et, unless  Other (Explain	i, M=Matrix.  Di (LRR K, L, MLRA 149B)  Ledox (A16) (LRR K, L, R)  Leat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  S9 (LRR K, L, M)  S9 (LRR K, L)  See (S9) (LRR K, L)  See Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)  Sterial (F21)  Dark Surface (TF12)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - Coation: PL=Pore Lining Indicators for Proble  2 cm Muck (A2  Coast Prairie R  5 cm Mucky Pe  Dark Surface (:  Polyvalue Belo  Thin Dark Surf  Iron-Mangane  Piedmont Floo  Mesic Spodic (  Red Parent Mation and  Very Shallow Et, unless  Other (Explain	i, M=Matrix.  Di (LRR K, L, MLRA 149B)  Ledox (A16) (LRR K, L, R)  Leat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  S9 (LRR K, L, M)  S9 (LRR K, L)  See (S9) (LRR K, L)  See Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)  Sterial (F21)  Dark Surface (TF12)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100  6-16 2.5Y 4/3 100  3 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators:  Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) MLRA 149B)  Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)  Stratified Layers (A5) Loamy Gleyed Matrix (F2)  Depleted Below Dark Surface (A11) Depleted Matrix (F3)  Thick Dark Surface (A12) Redox Dark Surface (F6)  Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)  Sandy Gleyed Matrix (S4) Redox Depressions (F8)  Sandy Redox (S5)  Stripped Matrix (S6) 3 Indicators of hydrophytic vegetation wetland hydrology must be present, in disturbed or problem Restrictive Layer (if observed):	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - ANDY LOAM  - Coast Parier & Som Mucky Polyvalue Beloom Thin Dark Surface (Som Piedmont Floom Mesic Spoils (Coast Parier & Polyvalue Beloom Thin Dark Surface (Coast Parier & Polyvalue Beloom Thin Dark Surface (Coast Prier & Polyvalue Beloom Thin Dark Surface (Coast Prier & Polyvalue Beloom Thin Dark Surface (Coast	i, M=Matrix.  ematic Hydric Soils <sup>3</sup> :  LO) (LRR K, L, MLRA 149B)  ledox (A16) (LRR K, L, R)  eat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  w Surface (S8) (LRR K, L)  ace (S9) (LRR K, L)  se Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)  sterial (F21)  bark Surface (TF12)  in Remarks)
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence Depth Matrix Redox Features  (in) Color (moist) % Color (moist) % Type¹ Lo  0-6 2.5Y 3/2 100	Loc² Texture  - LOAM - SANDY LOAM  - SANDY LOAM  - ANDY LOAM  - Coast Parier & Som Mucky Polyvalue Beloom Thin Dark Surface (Som Piedmont Floom Mesic Spoils (Coast Parier & Polyvalue Beloom Thin Dark Surface (Coast Parier & Polyvalue Beloom Thin Dark Surface (Coast Prier & Polyvalue Beloom Thin Dark Surface (Coast Prier & Polyvalue Beloom Thin Dark Surface (Coast	i, M=Matrix.  Di (LRR K, L, MLRA 149B)  Ledox (A16) (LRR K, L, R)  Leat or Peat (S3) (LRR K, L, R)  S9) (LRR K, L, M)  S9 (LRR K, L, M)  S9 (LRR K, L)  See (S9) (LRR K, L)  See Masses (F12) (LRR K, L, R)  dplain Soils (F19) (MLRA 149B)  TA6) (MLRA 144A, 145, 149B)  Sterial (F21)  Dark Surface (TF12)

		Absolute	Dom.	Indicator					
Tree	Stratum (Plot size: <b>30' RAD</b> )	% Cover	Sp?	Status	Domina	nce Test V	Vorksheet:		
1.	Acer saccharum	10	X	FACU	# Domir	nants OBL,	FACW, FAC:	3	(A)
2.	Fraxinus americana	10	X	FACU					
3.	Acer negundo	2		FAC	# Domir	nants acro	ss all strata:	9	(B)
4.									—` <i>′</i>
					0/ Domi	nants OBI	EAC\A/ EAC.	33%	(A /D)
5.					% DOM	nants Obl	, FACW, FAC:	33%	(A/B)
6.									
7.					Prevale	nce Index '	Worksheet:		
		22	= Tota	Cover	Total %	6 Cover of:		Multiply By	:
Sapli	ng Stratum (Plot size: 15' RAD )				OBL		x 1 =		_
	Acer negundo	10	х	FAC	FACW	12	_ x 2 =	24	_
			<u>X</u>		_		_		_
	Rhamnus cathartica	10		FAC	FAC _	24	_ x 3 =	72	_
3.	Ulmus americana	5		FACW	FACU	142	x 4 =	568	_
4.	Fraxinus americana	2		FACU	UPL	15	x 5 =	75	
5.				<u>.</u>	Sum:	193	(A)	739	(B)
6.					_		_		
					Drovo	lanca Inda	D/A _	3.83	
7.					Prevai	lence Inde	x = B/A =	3.03	_
		27	= Tota	Cover	Hydrop	hytic Vege	tation Indicato	rs:	
Shrul	o Stratum (Plot size: 15' RAD )				[	Dominance	Test is > 50%		
1.	Lonicera morrowii	5	Х	FACU		Prevalence	Index is <= 3.0	)	
	Rosa multiflora		x	FACU		Problemati	c Hydrophytic	Vegetation <sup>1</sup>	(niclaye
								-	xpiaiii,
3.	Cornus amomum		Х	FACW			for Hydrophyti	_	
4.						Morpholog	ical Adaptation	าร	
5.					1Indicator	s of hydric so	il and wetland hyd	Irology must be n	resent.
6.						turbed or pro		o.ogyasc be p	
7.							etation Strata:		
/.		15	- Tota	Cours	Demine	ons or veg	ctation strata.		
			= Tota	cover	_				
	Stratum (Plot size: 5' RAD )						excluding woody v		
1.	Solidago canadensis	70	Х	FACU		_	and 3in (7.6cm) o	r larger in diamet	er at
2.	Securigera varia	30	X	FACU	breast nei	ight (DBH).			
	Asclepias syriaca	15		UPL					
	Parthenocissus quinquefolia			FACU	Sanling	- Moody play	nts, excluding woo	du vinos annrovi	mataly
							eight and less than		
	Erigeron pulchellus	5		FACU	2011 (0111)	or more min	eignicana iess than	1 3iii (7.0ciii) DBii	
6.	Lysimachia ciliata	2		FACW					
7.	Carex tenera	2		FAC					
8.					Shrub -	Woody plant	s, excluding wood	v vines, approxim	ately 3 to
9.						6m) in heigh			•
10.									
11.							(non-woody) plan		
12.							e. Includes woody		ody
		129	= Tota	Cover	villes, less	ь шап арргох	imately 3ft (1m) ir	r neight.	
Woo	dy Vines (Plot size: 15' RAD )								
1.									
					14/a a al				
2.					woody	vine - All w	oody vines, regard	less of height.	
3.									
4.					H	lydrophyti	С		
5.						Vegetatio	า		
			= Tota	Cover		Present	>	NO	
			- 1014	COVCI		rresent			_
Remarl	ks: (If observed, list morphological adaptations below).								

Project S	ite:	MRESP - D	istribution Li	ne Upgrades	City/County:	Benning	gton		Samp. Date: <b>6</b> ,	/2/2025	
	t/Owner:	Encore Rer	newable Ener	gy	<u> </u>	State:	VT	Sampling Point:		5-1-wet	
Investiga	itor(s):	VHB (WD)			Section	n, Townsl	hip, Range:	Bennington			
Landforn	n (hillslope, te	rrace, etc.):	Flat		Local relief	(concave, o	convex, none):	None	Slope (%):	0-4	
	n (LRR or	MLRA):	LRR R	La	t: <b>42.912566</b>		Long:	-73.233193	Datum:	NAD 83	
Soil Map			sandy loam						NWI Class:	PFO	
	-	-		typical for this time of ye		Yes	_ (If no, e	kplain in Remarks.)			
_			gy significantly						ircumstances?	Yes	
Are Vege	etation, Soil,	or Hydrolog	gy naturally pr	oblematic? <u>No</u>				_ (If needed, e	explain any answe	ers in Remarks.)	
				te map showing sa	mple point lo	ocation	s, transec	ts, important fea	tures, etc.		
		tion Present	?	YES						\/=o	
	oil Present?			YES			Is This	Sample Area Withi	n a Wetland?	YES	
	Hydrology	Present?		YES							
Remarks <b>D</b>		collected in	Wetland 20	25-1, adjacent to Wal	loomsac River						
HYDRC											
	Hydrology							Secondary Indicato	•	wo required)	
			one is require	d; check all that apply)			=	Surface Soil C			
	urface Water			Water-Stained Lea	` '			Drainage Patt			
	igh Water Tal			Aquatic Fauna (B1	•			Moss Trim Lir			
	turation (A3	•		Marl Deposits (B1	•				/ater Table (C2)		
	ater Marks (I			Hydrogen Sulfide		-1- (62)		Crayfish Burro			
	ediment Depo	. ,		Oxidized Rhizosph		ots (C3)			sible on Aerial (C9)		
	rift Deposits ( Igal Mat or Cr			Presence of Reduce Recent Iron Reduce Recent Iron Reduce Recent Iron Reduce Recent Iron Reduce Recent Recen		(C6)		X Geomorphic	ressed Plants (D1)		
	on Deposits (			Thin Muck Surface		s (CO)		Shallow Aquit	, ,		
		ible on Aerial	(B7)	Other (Explain in F					aphic Relief (D4)		
		ated Concave		Other (Explain in )	terriarits			FAC-Neutral 1			
	servations: Nater Prese	n+2		Donth (inches	-1.						
	water Present able Present			Depth (inches Depth (inches	·		Wotlan	d Hydrology Present?		VEC	
	n Present?	.:	x	Depth (inches			vvetiani	u nyurology Fresent:	_	YES	
Remarks	:										
SOIL	escription: I	Describe to	the denth nee	eded to document the in	dicator or confir	m the ab	sence of indi	cators )			
Depth	C3C11ptio11. (	Matrix	the depth net		Redox Features	THE CO.	serice or mar	cators.)			
(in)	Color (	moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks	
0-4	10YR	3/2	100	-			-	SANDY LOAM	-		
412	10YR		90	2.5Y 4/2	10	С	m	SANDY LOAM			
12-18	10YR	3/2	65	2.5Y 4/2	30		PL	SANDY LOAM			
				10YR 4/6	5						
¹Type: C=Ce	oncentration, I	D=Depletion, R	M=Reduced Matr	ix, MS=Masked Sand Grains.				<sup>2</sup> Location: PL=Pore Linin	g, M=Matrix.		
Lludria Ca	oil Indicator	· ·						Indicators for Probl		3.	
Hyuric 30	Jii iiiuicatoi:	5.						indicators for Probi	ematic Hydric So	iis :	
	istosol (A1)				Below Surface (S8	3) (LRR R,			10) (LRR K, L, MLR		
	istic Epipedoi			MLRA 1					Redox (A16) (LRR K		
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B)  Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)							49B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Loamy Mucky Mineral (F1) (LRR K, L)  Loamy Gleyed Matrix (F2)								Dark Surface (S9) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L)			
Depleted Below Dark Surface (A11)  X Depleted Matrix (F2)							Thin Dark Surface (S9) (LRR K, L)				
Thick Dark Surface (A12)  Thick Dark Surface (A12)  Redox Dark Surface (F6						Iron-Manganese Masses (F12) (LRR K, L, R)					
	andy Mucky N				Dark Surface (F7)			Piedmont Floodplain Soils (F19) (MLRA 149B)			
	andy Gleyed I				oressions (F8)				(TA6) (MLRA 144A		
	andy Redox (S				- , -,			Red Parent M			
	ripped Matri			3	Indicators of hydr	ophytic ve	getation and		Dark Surface (TF12	)	
		57) (LRR R, MI	.RA 149B)		etland hydrology r			Other (Explain			
			<u> </u>				problematic.		<u> </u>		
Restrictiv	ve Layer (if o	observed):									
	Type:							Hydri	c Soil Present?	YES	
	th (inches):							<u> </u>			
Remarks	:										

2025-1-wet

		Absolute	Dom.	Indicator		
Tree :	Stratum (Plot size: <b>30' RAD</b> )	% Cover	Sp?	Status	Dominance Test Worksheet:	
	Acer negundo	40	<u>x</u>	FAC		A)
	Salix alba	30	<u> </u>	FACW	# Dominants Obe, FACW, FAC	^,
	Salix alba			FACW	# Danis and a success of the banks	D)
3.					# Dominants across all strata: 7	В)
4.		-				
5.					% Dominants OBL, FACW, FAC: 86% (A	A/B)
6.						
7.					Prevalence Index Worksheet:	
		70	= Total	Cover	Total % Cover of: Multiply By:	
Saplir	ng Stratum (Plot size: 15' RAD )		•		OBL 10 x 1 = 10	
-	Cornus amomum	20	х	FACW	FACW 142 x 2 = 284	
2.					FAC <b>85</b> x 3 = <b>255</b>	
3.					FACU 50 x 4 = 200	
4.					UPL x 5 =	
5.					Sum: <u>287</u> (A) <u>749</u> (I	В)
6.		-				
7.					Prevalence Index = B/A = 2.61	
			·			
		20	= Total	Cover	Hydrophytic Vegetation Indicators:	
Shrub	Stratum (Plot size: 15' RAD )		•		X Dominance Test is > 50%	
	Lonicera morrowii	50	х	FACU	X Prevalence Index is <= 3.0	
		30	<u> </u>		Problematic Hydrophytic Vegetation (explain	,
	Salix alba	30		FACW	I <del></del>	)
3.		-			Rapid Test for Hydrophytic Vegetation	
4.					Morphological Adaptations	
5.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must be preser	nt.
6.			·		unless disturbed or problematic.	,
7.					Definitions of Vegetation Strata:	
		80	= Total	Cover	Ŭ	
Harh	Stratum (Plot size: <b>5' RAD</b> )			0010.	Tree - Woody plants, excluding woody vines, approximately 20	nft
	` <u> </u>	20	v	FACIAL	(6m) or more in height and 3in (7.6cm) or larger in diameter at	
	Onoclea sensibilis	30	<u> </u>	FACW	breast height (DBH).	
2.		30	X	FAC		
3.	Lysimachia nummularia	20		FACW		
4.	Equisetum arvense	15		FAC	Sapling - Woody plants, excluding woody vines, approximate	ly
5.	Solidago gigantea	10	·	FACW	20ft (6m) or more in height and less than 3in (7.6cm) DBH.	
6.	Eutrochium maculatum	5		OBL		
7.	Symphyotrichum puniceum	5		OBL		
8.	Geum canadense	2		FAC	Shrub - Woody plants, excluding woody vines, approximately	3 to
9.					20ft (1 to 6m) in height.	5 10
	Thalictrum pubescens			FACW		
10.		-				
11.					Herb - All herbaceous (non-woody) plants, including herbaceous	
12.					vines, regardless of size. Includes woody plants, except woody less than approximately 3ft (1m) in height.	vines,
		117	= Total	Cover	less than approximately sit (1111) in neight.	
Wood	dy Vines (Plot size: 15' RAD )					
1.	·					
2.					Woody vine - All woody vines, regardless of height.	
3.						
					Hadarah R	
4.					Hydrophytic	
5.					Vegetation	
		-	= Total	Cover	Present? YES	
Remark	ss: (If observed, list morphological adaptations below).		- Total	Cover	riesent: <u>123</u>	