

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region

Project/Site: B290078 - SR 1338 (County Line Rd) over Hunting Creek City/County: City: Sheffield Co.: Davie Sampling Date: 12/08/2016
 Applicant/Owner: North Carolina Department of Transportation State: NC Sampling Point: WA Wet
 Investigator(s): Mason, J. Barrett, B. Section, Township, Range: ---
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR or MLRA): P Lat: 35.94132 Long: -80.69009 Datum: NAD83
 Soil Map Unit Name: Codorus loam, 0 to 2 percent slopes, frequently flooded (CoA) NWI classification: PFO/PEM

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 ☒	No ☐	Is the Sampled Area within a Wetland?	Yes ☒	No ☐
Hydric Soil Present?	Yes ☒	No ☐			
Wetland Hydrology Present?	Yes ☒	No ☐			
Remarks: Wetland ponded towards the center with little vegetation in that area; vegetation primarily on the wetland fringe. However, ponded area does not appear to be deep enough to be considered an actual pond, so it was considered part of the wetland.					

HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is required; check all that apply)					
☐ Surface Water (A1)	☐ True Aquatic Plants (B14)	☐ Surface Soil Cracks (B6)			
☒ High Water Table (A2)	☐ Hydrogen Sulfide Odor (C1)	☐ Sparsely Vegetated Concave Surface (B8)			
☒ Saturation (A3)	☐ Oxidized Rhizospheres on Living Roots (C3)	☒ Drainage Patterns (B10)			
☐ Water Marks (B1)	☐ Presence of Reduced Iron (C4)	☒ Moss Trim Lines (B16)			
☐ Sediment Deposits (B2)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3)	☐ Thin Muck Surface (C7)	☐ Crayfish Burrows (C8)			
☐ Algal Mat or Crust (B4)	☐ Other (Explain in Remarks)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Iron Deposits (B5)		☐ Stunted or Stressed Plants (D1)			
☐ Inundation Visible on Aerial Imagery (B7)		☒ Geomorphic Position (D2)			
☐ Water-Stained Leaves (B9)		☐ Shallow Aquitard (D3)			
☐ Aquatic Fauna (B13)		☐ Microtopographic Relief (D4)			
		☒ FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present?	Yes ☐ No ☒	Depth (inches): <u>0.0</u>			
Water Table Present?	Yes ☒ No ☐	Depth (inches): <u>1.0</u>			
Saturation Present?	Yes ☒ No ☐	Depth (inches): <u>0.0</u>			
(includes capillary fringe)			Wetland Hydrology Present? Yes ☒ No ☐		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: Water ponded nearby, but not a wetland point.					

VEGETATION (Five Strata) – Use scientific names of plants.

Sampling Point: WA Wet

Tree Stratum (Plot size: <u>30 ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer negundo</u>	<u>20.0</u>	<u>Y</u>	<u>FAC</u>
2. <u>Betula nigra</u>	<u>5.0</u>	<u>Y</u>	<u>FACW</u>
3. _____	_____	_____	<u>Select</u>
4. _____	_____	_____	<u>Select</u>
5. _____	_____	_____	<u>Select</u>
6. _____	_____	_____	<u>Select</u>
<u>25.0</u> = Total Cover			
50% of total cover: <u>12.50</u> 20% of total cover: <u>5.00</u>			
Sapling Stratum (Plot size: _____)			
1. <u>See shrub stratum</u>	_____	_____	<u>Select</u>
2. _____	_____	_____	<u>Select</u>
3. _____	_____	_____	<u>Select</u>
4. _____	_____	_____	<u>Select</u>
5. _____	_____	_____	<u>Select</u>
6. _____	_____	_____	<u>Select</u>
<u>0.0</u> = Total Cover			
50% of total cover: <u>0.00</u> 20% of total cover: <u>0.00</u>			
Shrub Stratum (Plot size: <u>30 ft</u>)			
1. <u>Ligustrum sinense</u>	<u>10.0</u>	<u>Y</u>	<u>FACU</u>
2. _____	_____	_____	<u>Select</u>
3. _____	_____	_____	<u>Select</u>
4. _____	_____	_____	<u>Select</u>
5. _____	_____	_____	<u>Select</u>
6. _____	_____	_____	<u>Select</u>
<u>10.0</u> = Total Cover			
50% of total cover: <u>5.00</u> 20% of total cover: <u>2.00</u>			
Herb Stratum (Plot size: <u>30 ft</u>)			
1. <u>Polygonum hydropiperoides</u>	<u>50.0</u>	<u>Y</u>	<u>OBL</u>
2. <u>Polygonum cuspidatum</u>	<u>10.0</u>	<u>N</u>	<u>FACU</u>
3. <u>Dulichium arundinaceum</u>	<u>5.0</u>	<u>N</u>	<u>OBL</u>
4. <u>Microstegium vimineum</u>	<u>5.0</u>	<u>N</u>	<u>FAC</u>
5. <u>Typha latifolia</u>	<u>5.0</u>	<u>N</u>	<u>OBL</u>
6. _____	_____	_____	<u>Select</u>
7. _____	_____	_____	<u>Select</u>
8. _____	_____	_____	<u>Select</u>
9. _____	_____	_____	<u>Select</u>
10. _____	_____	_____	<u>Select</u>
11. _____	_____	_____	<u>Select</u>
<u>75.0</u> = Total Cover			
50% of total cover: <u>37.50</u> 20% of total cover: <u>15.00</u>			
Woody Vine Stratum (Plot size: <u>30 ft</u>)			
1. <u>Toxicodendron radicans</u>	<u>5.0</u>	<u>Y</u>	<u>FAC</u>
2. <u>Lonicera japonica</u>	<u>2.5</u>	<u>Y</u>	<u>FAC</u>
3. _____	_____	_____	<u>Select</u>
4. _____	_____	_____	<u>Select</u>
5. _____	_____	_____	<u>Select</u>
<u>7.5</u> = Total Cover			
50% of total cover: <u>3.75</u> 20% of total cover: <u>1.50</u>			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5.0 (A)Total Number of Dominant Species Across All Strata: 6.0 (B)Percent of Dominant Species That Are OBL, FACW, or FAC: 83.33 (A/B)
(NaN: Not a Number)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = <u>0.00</u>
FACW species _____	x 2 = <u>0.00</u>
FAC species _____	x 3 = <u>0.00</u>
FACU species _____	x 4 = <u>0.00</u>
UPL species _____	x 5 = <u>0.00</u>
Column Totals: <u>0.00</u> (A)	<u>0.00</u> (B)
Prevalence Index = B/A = <u>NaN</u> (NaN: Not a Number)	

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☒ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is $\leq 3.0^1$
- ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Five Vegetation Strata:

Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).**Sapling** – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.**Shrub** – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.**Herb** – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.**Woody vine** – All woody vines, regardless of height.

Hydrophytic Vegetation Present?

Yes ☒ No ☐

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

Wetl pt taken near edge of wetland, so review stopped at wetland edge if edge <30 ft from point.

Eastern Mountains and Piedmont – Version 2.0