

Bridge 125
Wetland 2

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont

Project/Site: Bridge 125 City/County: Alamance Sampling Date: 3/22/12
 Applicant/Owner: NC DOT State: NC Sampling Point: Wetland 2
 Investigator(s): Pete Stafford Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Riparian Local relief (concave, convex, none): Flat Slope (%): 0
 Subregion (LRR or MLRA): MLFA 136 Lat: 35.96769060 Long: -79.41458101 Datum: NAD83
 Soil Map Unit Name: MC Mixed Alluvial NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation NO, Soil NO, or Hydrology NO significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation NO, Soil NO, or Hydrology NO 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: <u>Wetland 2 is small and almost void of vegetation. Wetland 2 could be an old stump hole from a downed tree.</u>			

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:		Wetland Hydrology Present? Yes ☒ No ☐
Surface Water Present?	Yes ☐ No ☒ Depth (inches): <u>2</u>	
Water Table Present?	Yes ☒ No ☐ Depth (inches): <u>2</u>	
Saturation Present? (includes capillary fringe)	Yes ☒ No ☐ Depth (inches): <u>Surface</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		

Remarks:
Wetland hydrology is present at wetland 2.

Bridge 125
Wetland 2

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

Sampling Point: _____

Tree Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
6. _____	_____	_____	_____		OBL species _____ x 1 = _____
7. _____	_____	_____	_____		FACW species _____ x 2 = _____
_____ = Total Cover				FAC species _____ x 3 = _____	
Sapling Stratum (Plot size: <u>N/A</u>)				FACU species _____ x 4 = _____	
1. _____	_____	_____	_____	UPL species _____ x 5 = _____	
2. _____	_____	_____	_____	Column Totals: _____ (A) _____ (B)	
3. _____	_____	_____	_____	Prevalence Index = B/A = _____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
5. _____	_____	_____	_____		1 - Rapid Test for Hydrophytic Vegetation
6. _____	_____	_____	_____		☒ 2 - Dominance Test is >50%
7. _____	_____	_____	_____		3 - Prevalence Index is $\leq 3.0^1$
_____ = Total Cover				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
Shrub Stratum (Plot size: <u>N/A</u>)				Problematic Hydrophytic Vegetation ¹ (Explain)	
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. _____	_____	_____	_____	Definitions of Five Vegetation Strata:	
3. _____	_____	_____	_____		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).
4. _____	_____	_____	_____		Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5. _____	_____	_____	_____		Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6. _____	_____	_____	_____	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.	
7. _____	_____	_____	_____	Woody vine – All woody vines, regardless of height.	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes ☒ No _____	
Herb Stratum (Plot size: <u>3m²</u>)					
1. Japanese stiltgrass (<i>Microstegium vimineum</i>)	<u>15</u>	☒	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
_____ = Total Cover					
Woody Vine Stratum (Plot size: <u>3m²</u>)					
1. Green hickory (<i>Smilax latifolia</i>)	<u>5</u>	☒	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					

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

Wetland 2 is nearly void of vegetation.

Sampling Point: _____

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- | | | |
|---|---|--|
| ☐ Histosol (A1) | ☐ Dark Surface (S7) | ☐ 2 cm Muck (A10) (MLRA 147) |
| ☐ Histic Epipedon (A2) | ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) | ☐ Coast Prairie Redox (A16) |
| ☐ Black Histic (A3) | ☐ Thin Dark Surface (S9) (MLRA 147, 148) | ☐ (MLRA 147, 148) |
| ☐ Hydrogen Sulfide (A4) | ☐ Loamy Gleyed Matrix (F2) | ☐ Piedmont Floodplain Soils (F19) |
| ☐ Stratified Layers (A5) | ☒ Depleted Matrix (F3) | ☐ (MLRA 136, 147) |
| ☐ 2 cm Muck (A10) (LRR N) | ☐ Redox Dark Surface (F6) | ☐ Red Parent Material (TF2) |
| ☐ Depleted Below Dark Surface (A11) | ☐ Depleted Dark Surface (F7) | ☐ Very Shallow Dark Surface (TF12) |
| ☐ Thick Dark Surface (A12) | ☐ Redox Depressions (F8) | ☐ Other (Explain in Remarks) |
| ☐ Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) | ☐ Iron-Manganese Masses (F12) (LRR N, MLRA 136) | |
| ☐ Sandy Gleyed Matrix (S4) | ☐ Umbric Surface (F13) (MLRA 136, 122) | |
| ☐ Sandy Redox (S5) | ☐ Piedmont Floodplain Soils (F19) (MLRA 148) | |
| ☐ Stripped Matrix (S6) | | |
- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No

marks: _____

Hydric soils are present in wetland 2.