U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region

See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

| Applicant/Owner: State: Sampling Point: Investigator(s): Section, Township, Range: Section, Township, Range: Slope (%): Subregion (LRR or MLRA): Lat: Local relief (concave, convex, none): Slope (%): Soil Map Unit Name: NWI classification: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? | | | | | |
|--|----------|--|--|--|--|
| Landform (hillside, terrace, etc.): Slope (%): Subregion (LRR or MLRA): Lat: Long: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Slope (%): NWI classification: Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No | | | | | |
| Landform (hillside, terrace, etc.): Slope (%): Subregion (LRR or MLRA): Lat: Long: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Slope (%): NWI classification: Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No | | | | | |
| Subregion (LRR or MLRA): Lat: Long: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No | | | | | |
| Soil Map Unit Name: NWI classification: 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 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 Hydrologysignificantly 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 X Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes No X within a Wetland? Yes No X | | | | | |
| Wetland Hydrology Present? Yes No X | | | | | |
| HVDPOLOGV | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) |) | | | | |
| Primary Indicators (minimum of one is required; check all that apply) Surface Notes (A1) Surface Soil Cracks (B6) Surface Notes (A2) | | | | | |
| Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) | | | | | |
| Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) | | | | | |
| Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) | | | | | |
| Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) | | | | | |
| Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) | | | | | |
| Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) | | | | | |
| Iron Deposits (B5) Geomorphic Position (D2) | | | | | |
| Inundation Visible on Aerial Imagery (B7)Shallow Aquitard (D3) | | | | | |
| Water-Stained Leaves (B9)Microtopographic Relief (D4) | | | | | |
| Aquatic Fauna (B13)FAC-Neutral Test (D5) | | | | | |
| Field Observations: | | | | | |
| Surface Water Present? Yes No Depth (inches): | | | | | |
| Water Table Present? Yes No Depth (inches): | | | | | |
| Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No_ | <u>X</u> | | | | |
| | | | | | |
| (includes capillary fringe) | | | | | |
| | | | | | |
| (includes capillary fringe) | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | |

| VEGETATION (Four Strata) – Use scien | | · | | Sampling | Point: |
|--------------------------------------|---------------------|------------------------------|---------------------|--|---------------------------|
| Tree Stratum (Plot size:) | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: | |
| 1. 2. | | | | Number of Dominant Species That Are OBL, FACW, or FAC | ::(A) |
| 3. 4. | | | | Total Number of Dominant Species Across All Strata: | (B) |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC | ::(A/E |
| 7 | | | | Prevalence Index workshee | t: |
| | : | =Total Cover | | Total % Cover of: | Multiply by: |
| 50% of total cover: | 20% | of total cover: | | OBL species | x 1 = |
| Sapling/Shrub Stratum (Plot size: |) | | | FACW species | x 2 = |
| 1. | _ | | | FAC species | |
| 2. | | | | FACU species | |
| 3. | | | | | x 5 = |
| 1. | | | | Column Totals: | <u> </u> |
| _ | | | | Prevalence Index = | |
| | | | | Hydrophytic Vegetation Ind | - |
| 7 | | | | 1 - Rapid Test for Hydrop | |
| | | | | 2 - Dominance Test is >50 | , , |
| | | | | 3 - Prevalence Index is ≤3 | |
| 9 | | =Total Cover | | 4 - Morphological Adaptat | |
| 50% of total cover: | | of total cover: | | data in Remarks or on | |
| Herb Stratum (Plot size:) | | or total cover. | | Problematic Hydrophytic | Vegetation¹ (Explain) |
| 1. 2. | | | | ¹ Indicators of hydric soil and w present, unless disturbed or p | |
| 3. | | | | Definitions of Four Vegetati | on Strata: |
| 4. 5. 6. | | | | Tree – Woody plants, excluding more in diameter at breast he height. | |
| 7. 8. 9. | | | | Sapling/Shrub – Woody plan than 3 in. DBH and greater tha m) tall. | |
| 10. | | | | Herb – All herbaceous (non-wof size, and woody plants less | |
| 50% of total cover: | | =Total Cover of total cover: | | Woody Vine – All woody vine height. | s greater than 3.28 ft in |
| Woody Vine Stratum (Plot size:) | • | | | | |
| 1 | _ | | | | |
| 2. | | | | | |
| | | | | | |
| 4. | | | | | |

=Total Cover

20% of total cover:

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

50% of total cover:

Hydrophytic Vegetation Present?

r f (1

;)

g

е

| Tree Stratum (Plot size:) | Absolute Dominant % Cover Species? | Indicator Status | Dominance Test worksheet: | |
|---------------------------------|-------------------------------------|---------------------|---|--------------------------|
| 1. | | <u> </u> | | |
| 2. | | | Number of Dominant Species That Are OBL, FACW, or FAC | : (A) |
| 3. | | | Total Number of Deminent | ``` |
| 4. | | | Total Number of Dominant Species Across All Strata: | (B) |
| 5. | | | Percent of Dominant Species | |
| 6. | | | That Are OBL, FACW, or FAC | :(A/E |
| | =Total Cover | | Prevalence Index worksheet | : |
| 50% of total cover: | 20% of total cover: | | Total % Cover of: | Multiply by: |
| Sapling Stratum (Plot size:) | | | OBL species | x 1 = |
| 1. | | | FACW species | x 2 = |
| 2 | | | FAC species | x 3 = |
| 3 | | | FACU species | x 4 = |
| 4 | | | UPL species | x 5 = |
| 5 | | | Column Totals: | (A)(E |
| 6 | | | Prevalence Index = B/A | A = |
| | =Total Cover | | Hydrophytic Vegetation Indi | cators: |
| 50% of total cover: | 20% of total cover: | | 1 - Rapid Test for Hydropl | , , |
| Shrub Stratum (Plot size:) | | | 2 - Dominance Test is >50 | 0% |
| 1. | | | 3 - Prevalence Index is ≤3 | |
| 2 | | | 4 - Morphological Adaptat data in Remarks or on a | |
| 3 | | | | , |
| 4. | | | Problematic Hydrophytic \ | /egetation¹ (Explain) |
| 5 | | | ¹ Indicators of hydric soil and w | |
| 6 | - Total Cavar | | present, unless disturbed or pr | |
| 50% of total cover: | =Total Cover 20% of total cover: | | Definitions of Five Vegetation | |
| Herb Stratum (Plot size:) | 20% of total cover. | | Tree – Woody plants, excludir approximately 20 ft (6 m) or m | |
| 1 | | | (7.6 cm) or larger in diameter | |
| 2. | | | | |
| 2 | | | Sapling – Woody plants, exclusion approximately 20 ft (6 m) or m | |
| 4. | | | than 3 in. (7.6 cm) DBH. | · · |
| - | | | Shrub - Woody Plants, exclud | ling woody vines |
| 6. | | | approximately 3 to 20 ft (1 to 6 | |
| 7. | | | | |
| 8. | | | Herb – All herbaceous (non-w herbaceous vines, regardless | |
| 9. | | | except woody vines, less than m) in height. | approximately 3 ft (1 |
| 10. | | | in) in neight. | |
| 11. | | | Woody Vine – All woody vine | s, regardless of height. |
| | =Total Cover | | | |
| 50% of total cover: | 20% of total cover: | | | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4 | | | | |
| 5 | | | Hardwards & | |
| | =Total Cover | | Hydrophytic Vegetation | |
| 50% of total cover: | 20% of total cover: | | Present? Yes | No_X_ |

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

)

•)

g

е

ts,

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) Color (moist) % Type¹ Loc² ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) 2 cm Muck (A10) (MLRA 147) Histic Epipedon (A2) Thin Dark Surface (S9) (MLRA 147, 148) Coast Prairie Redox (A16) Black Histic (A3) Loamy Mucky Mineral (F1) (MLRA 136) (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 (F21) Depleted Dark Surface (F7) (outside MLRA 127, 147, 148) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8) Very Shallow Dark Surface (F22) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Iron-Manganese Masses (F12) (LRR N, Sandy Gleyed Matrix (S4) MLRA 136) Sandy Redox (S5) Umbric Surface (F13) (MLRA 122, 136) ³Indicators of hydrophytic vegetation and Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Dark Surface (S7) Red Parent Material (F21) (MLRA 127, 147, 148) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soil Present?** Remarks:

SOIL

Sampling Point:

| _ | | |
|---|---|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| - | _ | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Agency Disclosure Notice

The public reporting burden for this collection of information, OMB Control Number 0710-XXXX, is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR REQUEST TO THE ABOVE EMAIL

Privacy Act Statement

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

| VEGETATION Continued (Four Strata) – Use scientific names of plants. | | | Sampling Point: | | |
|---|---------------------|----------|-----------------------|-----------|--|
| Trop Ctrotum | | Absolute | Dominant Species 2 | Indicator | Definitions of Four Veretation Strate. |
| Tree Stratum | | | Species? | Status | Definitions of Four Vegetation Strata: |
| | | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of |
| | | | | | height. |
| | | | | | |
| | | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| | | | | | than 3 in. DBH and greater than or equal to 3.28 ft (1 tall. |
| 13 | | | | | |
| | | | | | Herb – All herbaceous (non-woody) plants, regardles: |
| | | | =Total Cover | | of size, and woody plants less than 3.28 ft tall. |
| | 50% of total cover: | 20% | of total cover: | | |
| Sapling/Shrub Stratum | | | | | Woody Vine – All woody vines greater than 3.28 ft in |
| 10 | | | | | height. |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 10 | | | | | |
| | | | | | |
| | | | | | |
| | | | =Total Cover | | |
| | 50% of total cover: | | | | |
| Herb Stratum | | | or total cover. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| | | : | =Total Cover | | |
| | 50% of total cover: | 20% | of total cover: | | |
| Woody Vine Stratum | | | | | |
| 6 | | | | | |
| 7. | | _ | | | |
| 8. | | | | | |
| 0 | | | | | |
| - | | | | | |
| | | | =Total Cover | | |
| | 50% of total cover: | | of total cover: | | |
| | | | or total bovol. | | |

n)

.

| VEGETATION CO | ontinued (Five Strata) | - 030 30101 | Tune names | or plants. | Sampling Point: |
|---------------------|------------------------|---------------------|-------------------|---------------------|--|
| <u>Tree Stratum</u> | | Absolute % Cover | Dominant Species? | Indicator Status | Definitions of Five Vegetation Strata: |
| 7 | | | | | Tree – Woody plants, excluding woody vines, |
| 0 | | | | | approximately 20 ft (6 m) or more in height and 3 in. |
| 9. | | | | | (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. |
| | | | =Total Cover | | Shrub - Woody Plants, excluding woody vines, |
| | 50% of total cover: | | | | approximately 3 to 20 ft (1 to 6 m) in height. |
| Sapling Stratum | _ | | | | |
| | | | | | Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody plants |
| 0 | | | | | except woody vines, less than approximately 3 ft (1 m |
| _ | | | | | in height. |
| | | | | | Woody Vine – All woody vines, regardless of height. |
| 11 | | | | | |
| | | | | | |
| | | | =Total Cover | | |
| | 50% of total cover: | | | | |
| Shrub Stratum | 3070 of total cover | | or total cover. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 12 | | | | | |
| | | | =Total Cover | | |
| | 50% of total cover: | 20% | of total cover: | | |
| <u>Herb Stratum</u> | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 1.4 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| | | | | | |
| 00 | | | | | |
| 21. | | | | | |
| | | | | | |
| | | | =Total Cover | | |
| | 50% of total cover: | 20% | of total cover: | | |
| Woody Vine Stratum | | | | | |
| • | | | | | |
| 7 | | | | | |
| 8. | | _ | | | |
| | | _ | | | |
| 10 | | | | | |
| | | | =Total Cover | | |
| | E004 of total cover: | 2004 | | | |

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

ts,)