| 20 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--------------|-----------|---|
| <u>Tree Stratum</u> (Plot size:) | | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC:1 (A) |
| 2 | | | | Total Number of Dominant |
| 3 | | | | Species Across All Strata:1 (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | - | | | That Are OBL, FACW, or FAC: 100 (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | - | | | Total % Cover of: Multiply by: |
| 8 | | | | OBL species x 1 = 0 |
| 0 | | = Total Cov | | FACW species x 2 = 0 |
| 50% of total cover:0 | 20% of | total cover: | | FAC species75 |
| Sapling/Shrub Stratum (Plot size: 15) | | | | FACU species 20 x 4 = 80 |
| 1 | | | | UPL species 0 x 5 = 0 |
| 2 | | | | Column Totals: 95 (A) 305 (B) |
| 3 | | | | Column Totals (A) (B) |
| 4 | | | | Prevalence Index = B/A = 3.21 |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | ✓ 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| | 0 | = Total Cov | _ | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover:0 | 20% of | total cover: | | |
| Herb Stratum (Plot size:5) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Setaria verticillata | 70 | Yes | FAC | be present, unless disturbed or problematic. |
| 2. Trifolium pratense | 15 | No | FACU | Definitions of Four Vegetation Strata: |
| 3. Andropogon virginicus | 5 | No | FAC | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Plantago lanceolata | 5 | No | FACU | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 95 | = Total Cov | er | |
| 50% of total cover: 47.5 | 20% of | total cover: | 19 | |
| Woody Vine Stratum (Plot size: 30) | | | | |
| 1 | | | | |
| 2. | | | | |
| 3. | | | | |
| 4 | | | | |
| 5. | | | | Lludrombusio |
| | 0 | = Total Cov | er | Hydrophytic Vegetation |
| 50% of total cover: | | total cover: | | Present? Yes No No |
| Remarks: (If observed, list morphological adaptations belo | | total cover. | | |
| remarks. (II observed, list morphological adaptations being | , vv). | | | |
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SOIL Sampling Point: wsuc006_u

| | cription: (Describe t | o the deptr | | | | or confirm | the absence of i | indicators.) | |
|----------------|---|---------------|----------------------|----------------|------------------------|------------|---------------------------|---|----------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | s Type ¹ | Loc² | Texture | Remark | (S |
| 0-18 | 10 YR 3/1 | 100 | | | | | LS | | |
| 18-22 | 2.5 Y 6/3 | 97 2 | 2.5 Y 6/8 | 3 | | | SL - | | |
| | 2.0 1 0/0 | | | | | | | | |
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| | oncentration, D=Depl | | | | | ains. | | =Pore Lining, M=Ma | |
| Hydric Soil | Indicators: (Applica | able to all L | RRs, unless other | rwise not | ed.) | | Indicators for | Problematic Hydr | ric Soils³: |
| Histosol | ` ' | | Polyvalue Be | | | | | k (A9) (LRR O) | |
| | pipedon (A2) | | Thin Dark Su | | | | | k (A10) (LRR S) | |
| | istic (A3) | | Loamy Muck | - | | R O) | | Vertic (F18) (outsid | |
| | en Sulfide (A4) d Layers (A5) | | Loamy Gleye | | (F2) | | | Floodplain Soils (F's Bright Loamy Soil | |
| | Bodies (A6) (LRR P, | T II) | Depleted Mark S | | -6) | | Anomaiou (MLRA | | IS (F20) |
| | ucky Mineral (A7) (LR | | Depleted Dar | | | | | nt Material (TF2) | |
| | resence (A8) (LRR U) | | Redox Depre | | | | | low Dark Surface (T | Γ F 12) |
| | uck (A9) (LRR P, T) | , | Marl (F10) (L | | -, | | | olain in Remarks) | , |
| | d Below Dark Surface | e (A11) | Depleted Oct | | (MLRA 1 | 51) | | , | |
| Thick D | ark Surface (A12) | | Iron-Mangan | ese Mass | es (F12) (| LRR O, P, | T) ³ Indicator | rs of hydrophytic ve | egetation and |
| | rairie Redox (A16) (N | | | | | ', U) | | d hydrology must be | |
| | Mucky Mineral (S1) (L | RR O, S) | Delta Ochric | | | | unless | disturbed or proble | matic. |
| | Gleyed Matrix (S4) | | Reduced Ver | | | | > | | |
| - | Redox (S5) | | Piedmont Flo | | | | | (2D) | |
| | d Matrix (S6) Irface (S7) (LRR P, S | T 11) | Anomaious E | sright Loai | my Solls (| F20) (WILK | A 149A, 153C, 15 | (טנט) | |
| | Layer (if observed): | , 1, 0) | | | | | | | |
| Type: | | | | | | | | | |
| | ches): | | | | | | Hydric Soil Pre | cont2 Voc | No 🗸 |
| . , | cries). | | _ | | | | nyuric Son Fre | esent? Yes | |
| Remarks: | | | | | | | | | |
| No hydric soi | I indicators present. | | | | | | | | |
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Photo 1 Upland data point WSUC006_u facing south



Photo 2
Upland data point WSUC006_u facing north

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Atlantic Coast Pipeline | City/County: City of S | uffolk | Sampling Date: 11/17/2015 | | |
|---|--|---------------------------------------|---|--|--|
| Applicant/Owner: DOMINION | City/County: City of S | State: VA | Sampling Point: wsuc007e_w | | |
| | Section, Township, Ra | | | | |
| Landform (hillslope, terrace, etc.): Depression | | | | | |
| | | | | | |
| Subregion (LRR or MLRA): T | Lat: 60.070 10000 | Long: | None Datum: WGG 1004 | | |
| Soil Map Unit Name: Eunola loamy fine sand, 0 to | | | | | |
| Are climatic / hydrologic conditions on the site typi | | | | | |
| Are Vegetation, Soil, or Hydrology | significantly disturbed? Are | "Normal Circumstances" p | resent? Yes No | | |
| Are Vegetation, Soil, or Hydrology | naturally problematic? (If n | needed, explain any answer | s in Remarks.) | | |
| SUMMARY OF FINDINGS - Attach si | e map showing sampling point | locations, transects | important features, etc. | | |
| Hydrophytic Vegetation Present? Yes _ | V No Is the Sample | | | | |
| | V No | | | | |
| | No within a Wetla | and? Yes | No | | |
| Remarks: | | | | | |
| Data point within a recently harvested soybean fi | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | <u> </u> | tors (minimum of two required) | | |
| Primary Indicators (minimum of one is required; | * * * * * | Surface Soil (| | | |
| | Aquatic Fauna (B13) | | Sparsely Vegetated Concave Surface (B8) | | |
| High Water Table (A2) | Marl Deposits (B15) (LRR U) | Drainage Pat | | | |
| | Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along Living Roof | Moss Trim Li | Vater Table (C2) | | |
| | Presence of Reduced Iron (C4) | Crayfish Burr | | | |
| | Recent Iron Reduction in Tilled Soils (C6) | · · · · · · · · · · · · · · · · · · · | sible on Aerial Imagery (C9) | | |
| | Thin Muck Surface (C7) | Geomorphic | | | |
| | Other (Explain in Remarks) | Shallow Aqui | | | |
| Inundation Visible on Aerial Imagery (B7) | | FAC-Neutral | Test (D5) | | |
| Water-Stained Leaves (B9) | | Sphagnum m | oss (D8) (LRR T, U) | | |
| Field Observations: | | | | | |
| | Depth (inches): 4 | | | | |
| Water Table Present? Yes No _ | Depth (inches): 0 | | | | |
| | Depth (inches): 0 W | etland Hydrology Presen | t? Yes No | | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monito | ing well, aerial photos, previous inspection | ns), if available: | | | |
| | | | | | |
| Remarks: | | | | | |
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| 20 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--------------|-----------|---|
| <u>Tree Stratum</u> (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC:1 (A) |
| 2 | | | | Total Neverbox of Densire and |
| 3 | | | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 4. | | | | (b) |
| | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC:50 (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | |
| 8 | | | | 10 |
| | 0 | = Total Cove | er | OBL species X1 = 10 |
| 50% of total cover:0 | 20% of | total cover | 0 | FACW species x 2 = |
| | 20 /0 0. | total cover. | | FAC species0 x 3 =0 |
| | | | | FACU species0 x 4 =0 |
| 1 | | | | UPL species 0 x 5 = 0 |
| 2 | | | | 42 74 |
| 3 | | | | Column Totals: (A) (B) |
| 4 | | | | Prevalence Index = B/A =1.76 |
| 5 | | | | |
| | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | ✓ 3 - Prevalence Index is ≤3.0 ¹ |
| | 0 | = Total Cove | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover:0 | 20% of | total cover: | 0 | Troblematic Trydrophytic Vegetation (Explain) |
| F | | total cover. | | |
| Herb Stratum (Plot size:) 1 Glycine max | 30 | Yes | | ¹ Indicators of hydric soil and wetland hydrology must |
| ·- | | | | be present, unless disturbed or problematic. |
| 2. Paspalum laeve | 25 | Yes | FACW | Definitions of Four Vegetation Strata: |
| 3. Persicaria lapathifolia | 7 | No | FACW | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Eleocharis palustris | 5 | No | OBL | more in diameter at breast height (DBH), regardless of |
| Persicaria hydropiper | 5 | No | OBL | height. |
| • | | | | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Manada and a Allera and a discount of the second of the |
| 11. | | | , | Woody vine – All woody vines greater than 3.28 ft in height. |
| | | | | neight. |
| 12 | 72 | | | |
| 20 | | = Total Cove | | |
| 50% of total cover:36 | 20% of | total cover: | 14.4 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2. | | | | |
| | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 0 | = Total Cove | er | Vegetation |
| 50% of total cover:0 | 20% of | total cover: | 0 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | | | | |
| Tremarks. (II observed, list morphological adaptations belo | vv). | | | |
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SOIL Sampling Point: <u>wsuc007e_w</u>

| | cription: (Describe t | to the depth | | | | or confirm | the absence of | of indicators.) |
|------------------------|------------------------------|----------------|---------------------------|---------------|-------------------|-------------|---|--|
| Depth | Matrix Color (moint) | 0/ | | x Feature | 1 | 1 2 | Ta: 4: | Damada |
| (inches) 0-12 | Color (moist) 10 YR 3/2 | <u>%</u> 98 1 | Color (moist) 0 YR 3/6 | <u>%</u> 2 | Type' C | Loc² PL | <u>Texture</u> SL | Remarks |
| 0-12 | 10 113/2 | 90 1 | 0 TR 3/0 | | | | | |
| 12-18 | 10 YR 4/2 | 95 1 | 0 YR 3/6 | 2 | С | PL | SL | |
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| ¹ Type: C=C | concentration, D=Depl | etion, RM=R | educed Matrix, MS | S=Masked | d Sand Gr | ains. | ² Location: F | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applica | able to all Li | RRs, unless other | wise not | ed.) | | Indicators f | or Problematic Hydric Soils ³ : |
| Histoso | l (A1) | | Polyvalue Be | low Surfa | ce (S8) (L | .RR S. T. U |) 1 cm Mu | uck (A9) (LRR O) |
| · · | pipedon (A2) | | Thin Dark Su | | | | | uck (A10) (LRR S) |
| | listic (A3) | | Loamy Mucky | | | | | d Vertic (F18) (outside MLRA 150A,B) |
| | en Sulfide (A4) | | Loamy Gleye | | | -, | | nt Floodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | | ✓ Depleted Mat | | – / | | | ous Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | T, U) | Redox Dark S | | - 6) | | | A 153B) |
| _ | ucky Mineral (A7) (LR | | Depleted Dar | • | , | | | rent Material (TF2) |
| | resence (A8) (LRR U) | | Redox Depre | | . , | | | allow Dark Surface (TF12) |
| · —— | uck (A9) (LRR P, T) | , | Marl (F10) (L | • | - , | | - | Explain in Remarks) |
| · —— | ed Below Dark Surface | e (A11) | Depleted Och | | (MLRA 1 | 51) | | |
| - | ark Surface (A12) | () | Iron-Mangan | , , | | • | T) ³ Indica | itors of hydrophytic vegetation and |
| | Prairie Redox (A16) (N | ILRA 150A) | - | | | | | and hydrology must be present, |
| | Mucky Mineral (S1) (L | | Delta Ochric | | | , -, | | ss disturbed or problematic. |
| | Gleyed Matrix (S4) | 0, 0, | Reduced Ver | | | OA. 150B) | u | oo alota oo problematio |
| | Redox (S5) | | Piedmont Flo | | | | 9A) | |
| - | d Matrix (S6) | | | | | | A 149A, 153C, | 153D) |
| | urface (S7) (LRR P, S | . T. U) | | | , (| 0, (| , | , |
| | Layer (if observed): | , -, -, | | | | | | |
| Type: | | | | | | | | |
| | | | | | | | United at a Control | |
| | nches): | | | | | | Hydric Soil F | Present? Yes No |
| Remarks: | | | | | | | | |
| Hydric soil pr | resent | | | | | | | |
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Photo 1Wetland data point WSUC007e_w facing northwest



Photo 2
Wetland datta point WSUC007e_w facing southwest

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Atlantic Coast Pipeline | | City/C | County: City of Suffolk | | Sampling Date: 11/17/2015 |
|--|----------------------|--|----------------------------|---------------------------------------|---|
| Applicant/Owner: DOMINION | | | , | State: VA | Sampling Date: 11/17/2015 Sampling Point: wsuc007_u |
| Investigator(s): Team C Section, Township, Range: No PLSS in this area | | | | | |
| Landform (hillslope, terrace, etc.): Sli | | | | | |
| Subregion (LRR or MLRA): T | | 1 at: 36.67513056 |) Langu | -76.75035204 | Glope (70): |
| Soil Map Unit Name: Eunola loamy fi | ine sand 0 to 2 perc | _ Lat: | | | |
| | | | | | |
| Are climatic / hydrologic conditions or | | | | | |
| Are Vegetation, Soil, | or Hydrology | _ significantly distur | bed? Are "Norma | al Circumstances" | present? Yes No |
| Are Vegetation, Soil, | or Hydrology | _ naturally problemate | atic? (If needed, | explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS - | Attach site ma | p showing san | npling point locati | ons, transects | s, important features, etc. |
| Hydrophytic Vegetation Present? | Yes | No | | | |
| Hydric Soil Present? | Yes | | Is the Sampled Area | | • |
| Wetland Hydrology Present? | | No 🔽 | within a Wetland? | Yes | No |
| Remarks: | | | | | |
| Data point within corn field. Area has | been recently harv | rested. | | | |
| | | | | | |
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| Western Hydrology Indicators | | | | Cocondon India | ators (minimum of two required) |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one | io required; check (| all that apply) | | - | ators (minimum of two required) |
| | - | | | · · · · · · · · · · · · · · · · · · · | Cracks (B6) |
| Surface Water (A1) High Water Table (A2) | | tic Fauna (B13) Deposits (B15) (LR I | B III | | getated Concave Surface (B8) atterns (B10) |
| Saturation (A3) | | ogen Sulfide Odor (| | Moss Trim L | |
| Water Marks (B1) | | - | along Living Roots (C3) | | Water Table (C2) |
| Sediment Deposits (B2) | | ence of Reduced Iro | | Crayfish Bu | |
| Drift Deposits (B3) | | nt Iron Reduction in | | | /isible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | | Muck Surface (C7) | | | Position (D2) |
| Iron Deposits (B5) | Other | r (Explain in Remarl | (S) | Shallow Aqu | uitard (D3) |
| Inundation Visible on Aerial Ima | agery (B7) | | | FAC-Neutra | l Test (D5) |
| Water-Stained Leaves (B9) | | | | Sphagnum r | moss (D8) (LRR T, U) |
| Field Observations: | _ | | | | |
| | No [| | | | |
| | No [| | | | _ |
| | No [| Depth (inches): | Wetland | Hydrology Prese | nt? Yes No |
| (includes capillary fringe) Describe Recorded Data (stream ga | auge, monitoring we | ll, aerial photos, pre | evious inspections), if av | ailable: | |
| | | | | | |
| Remarks: | | | | | |
| No wetland hydrology indicators pres | sent | | | | |
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| 20 | Absolute | Dominant | Indicator | Dominance Test worksheet: | |
|--|----------|--------------|-----------|--|-----|
| Tree Stratum (Plot size:) | | Species? | | Number of Dominant Species That Are OBL, FACW, or FAC:2 (A) | |
| 1 | | | | That Ale OBE, I AOW, OF I AO. | |
| 3. | | | | Total Number of Dominant Species Across All Strata: 3 (B) | i |
| 4. | | | | | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 66.6666666 (A/I | B) |
| 6 | | | | Prevalence Index worksheet: | |
| 7 | | | | Total % Cover of: Multiply by: | |
| 8 | 0 | = Total Cove | or. | OBL species0 x 1 =0 | |
| 50% of total cover:0 | | | | FACW species5 | |
| Sapling/Shrub Stratum (Plot size: 15) | 20 /0 01 | total cover. | | FAC species5 | |
| | | | | FACU species5 x 4 =20 | |
| 1 | | | | UPL species0 x 5 =0 | |
| 2 | | | | Column Totals:15 (A)45 (B | 3) |
| 3 | | | | 2 | |
| 4 | | | | Prevalence Index = B/A =3 | |
| 5 | | | | Hydrophytic Vegetation Indicators: | |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7 | | | | 2 - Dominance Test is >50% | |
| 8 | ^ | - Total Cov | | 3 - Prevalence Index is ≤3.0 ¹ | |
| 50% of total cover: | | = Total Cove | | Problematic Hydrophytic Vegetation ¹ (Explain) | |
| | 20% 01 | total cover. | | | |
| 1. Paspalum laeve | 5 | Yes | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | |
| 2. Setaria verticillata | 5 | Yes | FAC | Definitions of Four Vegetation Strata: | |
| 3. Solanum carolinense | 5 | Yes | FACU | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) | or |
| 4 | | | | more in diameter at breast height (DBH), regardless of | |
| 5 | | | | height. | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less | s |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. | |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardles | 20 |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. | ,,, |
| 10 | | | | Weeds sine All woods since greater than 2.20 ft in | |
| 11. | | | | Woody vine – All woody vines greater than 3.28 ft in height. | |
| 12. | | | | , and the second | |
| | 15 | = Total Cove | er | | |
| 50% of total cover:7.5 | | total cover: | _ | | |
| Woody Vine Stratum (Plot size: 30) | | | | | |
| 1 | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | Hadaa ahadia | |
| | | = Total Cove | er | Hydrophytic Vegetation | |
| 50% of total cover:0 | | | | Present? Yes No No | |
| Remarks: (If observed, list morphological adaptations belo | | | | | |
| rtomano. (ii ososivoa, iiot morphological adaptatione solo | •• /- | | | | |
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SOIL Sampling Point: wsuc007_u

| Profile Des | cription: (Describe t | o the depth | needed to docur | nent the i | indicator | or confirm | the absence of | indicators.) | |
|------------------------|------------------------------|----------------|----------------------|--------------|-------------------|------------------|---------------------------|--------------------------|---------------|
| Depth | Matrix | | | x Feature | | | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | Type ¹ | Loc ² | <u>Texture</u> | Remarks | |
| 0-18 | 10 YR 4/4 | 100 | | | | | SL | | |
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| | | | | - | | | | | |
| ¹ Type: C=C | oncentration, D=Depl | etion, RM=Re | educed Matrix, MS | S=Masked | d Sand Gr | ains. | ² Location: Pl | L=Pore Lining, M=Matrix | ζ. |
| Hydric Soil | Indicators: (Applica | ible to all LR | Rs, unless other | rwise not | ed.) | | Indicators fo | r Problematic Hydric S | ioils³: |
| Histoso | (A1) | | Polyvalue Be | low Surfa | ce (S8) (L | .RR S, T, U |) 1 cm Muc | ck (A9) (LRR O) | |
| Histic E | pipedon (A2) | | Thin Dark Sι | ırface (S9 |) (LRR S, | T, U) | 2 cm Muc | ck (A10) (LRR S) | |
| Black H | istic (A3) | | Loamy Muck | y Mineral | (F1) (LRF | (O) | Reduced | Vertic (F18) (outside N | ILRA 150A,B) |
| Hydroge | en Sulfide (A4) | | Loamy Gleye | ed Matrix (| (F2) | | Piedmont | t Floodplain Soils (F19) | (LRR P, S, T) |
| Stratifie | d Layers (A5) | | Depleted Ma | trix (F3) | | | Anomalou | us Bright Loamy Soils (F | 20) |
| Organic | Bodies (A6) (LRR P, | T, U) | Redox Dark | Surface (F | - 6) | | (MLRA | 153B) | |
| 5 cm M | ucky Mineral (A7) (LR | R P, T, U) | Depleted Da | rk Surface | e (F7) | | | ent Material (TF2) | |
| | resence (A8) (LRR U) | | Redox Depre | | 8) | | | llow Dark Surface (TF12 | 2) |
| | uck (A9) (LRR P, T) | | Marl (F10) (L | | | | Other (Ex | plain in Remarks) | |
| - | d Below Dark Surface | e (A11) | Depleted Oc | | | | | | |
| | ark Surface (A12) | | Iron-Mangan | | | | | ors of hydrophytic veget | |
| | rairie Redox (A16) (M | | | | | , U) | | nd hydrology must be pro | |
| | Mucky Mineral (S1) (L | KK (), (S) | Delta Ochric | | | OA 450D\ | uniess | s disturbed or problemat | IC. |
| | Gleyed Matrix (S4) | , | Reduced Ver | | | | 24) | | |
| - | Redox (S5) d Matrix (S6) | | Piedmont Flo | | | | 9A) A 149A, 153C, 1 | E3D) | |
| | irface (S7) (LRR P, S | T II) | Allomaious L | origini Loai | illy Solis (| 1 20) (WILK) | 4 149A, 133C, 1 | 330) | |
| | Layer (if observed): | , 1, 0) | | | | | | | |
| _ | Layer (ii observea). | | | | | | | | |
| Type: | ah a a \. | | _ | | | | Uhadaia Cail Da | | N |
| | ches): | | _ | | | | Hydric Soil Pr | esent? Yes | No |
| Remarks: | | | | | | | | | |
| No hydric soi | I indicators present. | | | | | | | | |
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Photo 1Upland data point WSUC007_u facing southeast



Photo 2
Upland data point WSUC007_u facing northeast

| WEILAND DETERMINATION DATA FOR | RM - Atlantic and Guir Coastal Plain Region |
|--|---|
| Project/Site:City/ | County: Suffulk Sampling Date: 01/14/ |
| Applicant/Owner: DOMINION | State: VA Sampling Point WSu0027e |
| Investigator(s): L. ROPET, S. LOSEFA Section | ion, Township, Range: NA |
| Landform (hillstope, terrace, etc.): POWOY I'M ECISPYNENT Loca | al relief (concave, convex, none); NONE Slope (%) NA |
| Subregion (LRR or MLRA): LRRT Lat: 30.6 | 0004 long 10 1042 Datum: VV758 |
| Soil Map Unit Name: Levy Silty Clay loan | DC 1/1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly dist. | |
| MARIE SAN ENGREPHEN EN E | |
| Are Vegetation, Scil, or Hydrology naturally problem | |
| SUMMARY OF FINDINGS – Attach site map showing sa | mpling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Pisturbed regetation and so | MI, POWERTINE COLEMON. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) — Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LF | |
| Saturation (A3) Hydrogen Sulfide Odor | along Living Roots (C3) Dry-Season Water Table (C2) |
| ✓ Water Marks (B1) ✓ Sediment Deposits (B2) ✓ Presence of Reduced In | (mais tak) 및 문화를 들어 및 가격 등이 사용하다. 나는 사용하는 사용하는 사회에 대한 경우를 하는데 가장 사용하는데 함께 되었다. 그는 사용하는데 다른데 나를 하는데 되었다. |
| Drift Deposits (B3) Recent Iron Reduction i | n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | |
| Iron Deposits (B5) Other (Explain in Rema | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| ∠ Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes No Depth (inches): 2 | |
| [- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1 | Ô . |
| Saturation Present? Yes V No Depth (inches): | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, principles of the provided part of the provided part of the provided provid | revious inspections), if available: |
| | |
| Remarks: | |
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| DOMINEL | Absolute | Dominant | Indicator | Dominance Test worksheet: | |
|--|---|------------|-----------------|--|------|
| Tree Stratum (Plot size: 30X307+ | % Cover | Species | 2 Status | Number of Dominant Species That Are OBL FACW of FAC: (A) | 89 |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) | |
| 2. | | | | Total Number of Dominant | |
| 3. | | | | Species Across All Strata: | |
| 4. | | | | Percent of Dominant Species (27 | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |) |
| 6. | | | | | 9 |
| 7. | | | | Prevalence Index worksheet: | |
| SEAN AND HELD FOR SELECTION WHEN A LIBERT BY BY BURNEYS HELD SELECTION FOR A PROBLEM SELECTION OF THE SELECT | 3.0000000000000000000000000000000000000 | Wallet B | | Total % Cover of: Multiply by: | |
| 8. | 0 | = Total Co | 105 | OBL species x 1 = | |
| | | | | FACW species x 2 = | |
| 50% of total cover | 20% of | total cove | - | FAC species x 3 = | |
| Sapling/Shrub Stratum (Plot size: 30) | | | | FACU species x 4 = | |
| 1. None | | | | UPL species x 5 = | |
| 2 | V | | | Column Totals: (A) (B) | |
| 3. | | | | Column Totals (7) | |
| 4. | | | | Prevalence Index = B/A = | |
| 5. | | | | Hydrophytic Vegetation Indicators: | |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7. | | | | ∠ 2 - Dominance Test is >50% | |
| 8. | | | | 3 - Prevalence Index is ≤3.01 | |
| | 10: | = Total Co | ver | Problematic Hydrophytic Vegetation¹ (Explain) | |
| 50% of total cover: | 20% of | total cove | | Problematic Hydrophytic Vegetation (Explain) | |
| Herb Stratum (Pict size: 30 × 30 + 1) | 207001 | total cove | | It is a second of the second o | |
| 1 Dichanthelium acuminatum | 40 | V | FA | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | |
| 2. Typha latifolia | 16 | V | 081 | Definitions of Four Vegetation Strata: | 1963 |
| 2. Typna latitolia | _10_ | | O for Serve | | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) of | r |
| 4. | | | | more in diameter at breast height (DBH), regardless of height. | 1 |
| 5. | | | | | |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less | |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. | |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless | s |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. | |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in | |
| 11. | | | | height. | |
| 12. | | | | | |
| | 40 | = Total Co | Mer | | |
| 50% of total cover: 2 | 20% of | total cove | - 8 | | |
| Woody Vine Stratum (Plot size: 30 x 30f 1) | 20,000 | total cove | | | |
| | 5 | Y | FACU | | |
| 1. Lonicera japonica | | - | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | - | | | | |
| 5 | | | | Hydrophytic | |
| | 5 | = Total Co | ver | Vegetation Present? Yes No | |
| 50% of total cover: 2 * 1 | 5 20% of | total cove | r | Present? Yes No | |
| Remarks: (If observed, list morphological adaptations bel | ow). | 773,86833 | e de la company | | |
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| Profile Description: (Describe to the depti | needed to docum | ent the Ind | licator | or confirm | the absence o | findicators.) |
|---|---------------------------|--------------|---------|------------|---------------|--|
| Depth Matrix | | Features | Time | Loc² | Texture | Remarks |
| (inches) Color (moist) % | Color (moist) | -%- | Type' | NA. | Texture | Homani |
| 0-50 10 1K-111 010 | WYR 4 7 | | | 101 | | |
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| | - 1 111-11-11 | | | | 21 ocation: I | PL=Pore Lining, M=Matrix. |
| ¹ Type: C=Concentration, D=Depletion, RM=I Hydric Soil Indicators: (Applicable to all L | RRs unless other | wise noted | and Gra | ams. | Indicators f | or Problematic Hydric Soils ³ : |
| | Polyvalue Bel | | | RR S. T. U | | uck (A9) (LRR O) |
| Histosol (A1) Histic Epipedon (A2) | Thin Dark Sur | | | | 2 cm Mu | uck (A10) (LRR S) |
| Black Histic (A3) | Loamy Mucky | | | | Reduce | d Vertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfide (A4) | Loamy Gleye | | !) | | | nt Floodplain Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) | X Depleted Mat | | | | | ous Bright Loamy Soils (F20) A 153B) |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark S Depleted Dar | | | | | rent Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) | Redox Depre | | | | | nallow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) | Marl (F10) (L | | | | Other (E | Explain in Remarks) |
| Depleted Below Dark Surface (A11) | Depleted Och | | | | | |
| Thick Dark Surface (A12) | Iron-Mangane | | | | T) Indica | ators of hydrophytic vegetation and and hydrology must be present, |
| Coast Prairie Redox (A16) (MLRA 150A Sandy Mucky Mineral (S1) (LRR O, S) | Umbric Surfa Delta Ochric | | | , 0) | | ss disturbed or problematic. |
| Sandy Gleyed Matrix (S4) | Reduced Ver | tic (F18) (M | LRA 15 | OA, 150B) | | |
| Sandy Redox (S5) | Piedmont Flo | odplain Soil | s (F19) | (MLRA 145 | | |
| Stripped Matrix (S6) | Anomalous B | right Loamy | Soils (| F20) (MLR/ | A 149A, 153C, | 153D) |
| Dark Surface (S7) (LRR P, S, T, U) | | | | | | |
| Restrictive Layer (if observed): | | | | | | |
| Type: | | | | | Hydric Soll I | Present? Yes X No |
| Depth (inches): | | | | | Hydno com | |
| Remarks: | | | | | | |
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Wetland data point wsuo027e_w facing west.



Wetland data point wsuo027e_w facing east.

| WETLAND DETERMINATION DATA | FORM – Atlantic and Gulf Coastal Plain Region |
|--|---|
| ACP | City/County: SUFFOIK Sampling Date: 01 14116 |
| Project/Site: NOMINION Applicant/Owner: DOMINION | State: VA Sampling Point: WSuo027f.w |
| Investigator(s): L. ROPEN, S. TOSEFO | Section, Township, Range: |
| Landform (hillslope, terrace, etc.): T-10+W00dS | Local relief (concave, convex, none): NONE Slope (%) NIA |
| Landform (hillslope, terrace, etc.): | 6, 67970 Long: 76.73585 Datum: WOSB 4 |
| Subregion (LRR or MLRA): LRRT Lat: 30 | |
| Soil Map Unit Name: Nonsemond loamy | |
| Are climatic / hydrologic conditions on the site typical for this time of | |
| Are Vegetation, Scil, or Hydrology significant | |
| Are Vegetation, Soil, or Hydrology naturally p | oroblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| NCWAM: Riverine Swamp Forest | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required, check all that apply | 있는 사람들은 보다 보다 가장 있다면 보다는 그리고 있는 것 같아요. 그리고 있는 사람들이 보고 100mm에 가장 100mm에 가장 100mm에 되었다면 되었다면 100mm에 가장 100m |
| Surface Water (A1) Aquatic Fauna (B | 113) Sparsely Vegetated Concave Surface (B8) |
| X High Water Table (A2) Marl Deposits (B | 15) (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide | |
| | theres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | |
| - The Company of th | 가는 하나요요. 이번 Balance Comment (2015년 1915년 1915년 1915년 - 12일 대한 1915년 1915년 1915년 1915년 1915년 1915년 1915년 1915년 1 |
| Algal Mat or Crust (B4) Thin Muck Surfact Iron Deposits (B5) Other (Explain in | 50일 등 1일 시간하다 없는 보기를 받는다. 이번 보기를 보고 있는데 보고 있는데 1일 시간에 되었다면 하는데 1일 시간에 되었다. 12 일 시간에 되었다면 12 일 시간에 되었다. |
| Inundation Visible on Aerial Imagery (B7) | X FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | N) A |
| Surface Water Present? Yes No Depth (inche | 95): |
| Water Table Present? Yes No Depth (inche | as): |
| Saturation Present? Yes No Depth (inche | es): O Wetland Hydrology Present? Yes No No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial pho | otos, previous inspections), if available: |
| Remarks: | |
| portions of wetland | lavoinundatod |
| For Horis of Welland | i are managrea. |
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| | MCC 2011 (1986) 2014 - P. |

| no and | | | Indicator | Dominance Test worksheet: | |
|--|--------------------|---|--|--|---|
| 1. TUXO ALUM distichum | % Cover | Species | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: | (B) |
| 4 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 83 | (A/B) |
| 6. | | | | Prevalence Index worksheet: | 100 |
| 7 | | | | Total % Cover of: Multiply by: | |
| 8. | | | | OBL species x1 = | |
| | | = Total Co | | FACW species x 2 = | |
| 50% of total cover: | 20% of | total cove | :_ <u> </u> | FAC species x3 = | |
| Sapling/Shrub Stratum (Plot size: 30 × 30 +1) | 11 | 11 | EAC | FACU species x 4 = | |
| 1. Acer rubrum | 10 | <u> </u> | TAC | | |
| 2. | | | | UPL species x 5 = | 0.0000000000000000000000000000000000000 |
| 3. | NAME OF | | | Column Totals: (A) | (B) |
| 4. | | | STATE OF THE PARTY | Prevalence Index = B/A = | - |
| 5. | | | - | Hydrophytic Vegetation Indicators: | |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7. | - | | | ∠ 2 - Dominance Test is >50% | |
| 8. | 10 | CONTRACTOR OF THE PARTY OF THE | | 3 - Prevalence Index is ≤3.01 | |
| | | = Total Co | | Problematic Hydrophytic Vegetation¹ (Explain |) |
| 50% of total cover: | 20% of | total cove | | | |
| Herb Stratum (Plot size: 30 X 30 ft) 1. Tax odlum distichum | 10 | 4 | OBL | ¹ Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic. | ust |
| 2. Rubus argutas | 10 | 4 | FAC | Definitions of Four Vegetation Strata: | H. STEEL |
| | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 c | m) or |
| 4. | THE RESERVE OF THE | SMARONATOR | | more in diameter at breast height (DBH), regardle | ss of |
| 5 | Sent metro-service | | | height. | |
| TO BEET TO A SECURIC OF THE SECURIT PROPERTY AND ADDRESS OF THE SECURITY ADDRESS OF THE SECURITY AND ADDRESS OF THE SECURITY A | | | | Sapling/Shrub - Woody plants, excluding vines, | less |
| 6 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. | |
| 8. | | | | Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall. | dless |
| 9. | CANADON SERVICES | | | | |
| 10 | | | TWO THE THE | Woody vine - All woody vines greater than 3.28 | ft in |
| 11, | | A TABLE SAME PAR | | height. | |
| 12 | 20 | 2.3707 | Table 10 May | | |
| Lr. | | = Total Co | | | |
| 50% of total cover: | 20% of | total cove | | | |
| Woody Vine Stratum (Plot size: 30) × 30 + 1 | 20 | V | FAC | | |
| 1. Smilyx rotungi tolla | - | | FICELL | | |
| 2 Lonicera japonira | 10 | 7 | Fre | | |
| 3. | | | | | |
| 4 | | | | | |
| 5 | | | | Hydrophytic | |
| | 30 | = Total Co | ver | Vegetation Present? Yes X No | |
| 50% of total cover: \ | 20% of | total cove | r: <u>Q</u> | Present? Tes No | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | | |
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| Profile Desc | ription: (Describe to the depti | needed to docume | nt the in | dicator | or confirm | the absence | of Indicators.) |
|--|---|--|----------------|------------|-----------------|-------------------------------|--|
| Depth | Matrix - | | Features 04 | Tyme | Loc² | Texture | Remarks |
| (inches) | Color (moist) % | Color (moist) | 10 | Type | Loc | Texture | Tromains. |
| 0-10 | 104R4/290 | 10 Trend | 10 | C | | | |
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| | <u> </u> | | | | | | The state of the s |
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| ¹Type: C=C | oncentration, D=Depletion, RM=I | Reduced Matrix, MS= | Masked | Sand Gr | ains. | ² Location: | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applicable to all L | RRs, unless otherw | dse note | d.) | | Indicators | for Problematic Hydric Solis ³ : |
| Histosol | | Polyvalue Belo | | | RR S, T, U | | luck (A9) (LRR O) |
| A harder your actional and | oipedon (A2) | Thin Dark Surf | | | | 2 cm N | luck (A10) (LRR S) |
| Committee of the Commit | stic (A3) | Loamy Mucky | | | (0) | Reduce | ed Vertic (F18) (outside MLRA 150A,B) |
| 77 (000 to a section of the con- | en Sulfide (A4) | Loamy Gleyed | | 2) | | | ont Floodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | Depleted Matri | | | | | RA 153B) |
| | Bodies (A6) (LRR P, T, U) | Redox Dark St Depleted Dark | | | | CALL STEEL SECTION CONTRACTOR | arent Material (TF2) |
| The state of the s | ucky Mineral (A7) (LRR P, T, U) resence (A8) (LRR U) | Redox Depres | | | | | hallow Dark Surface (TF12) |
| | ick (A9) (LRR P, T) | Marl (F10) (LR | | | | | (Explain in Remarks) |
| | d Below Dark Surface (A11) | Depleted Ochr | ic (F11) (| MLRA 1 | 51) | | |
| A THE RESERVE AND A SECURIOR OF THE PARTY OF | ark Surface (A12) | Iron-Manganes | se Masse | s (F12) (| LRR O, P, | | ators of hydrophytic vegetation and |
| _ Coast P | rairie Redox (A16) (MLRA 150A | Umbric Surfac | | | , U) | | land hydrology must be present, |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Mucky Mineral (S1) (LRR O, S) | Delta Ochric (F | 17) (MLF | RA 151) | 0.0 45051 | unie | ess disturbed or problematic. |
| Committee of the party of the p | Gleyed Matrix (S4) | Reduced Verti | | | | 94) | |
| | Redox (S5) | Anomalous Bri | | | | | . 153D) |
| 2004040572424305000 | Matrix (S6) | Alomaious Bri | gik Loaii | ,, 00,,, (| . 20/ (2 | | |
| | Layer (if observed): | | | | THE PARTY AND A | | |
| Type: | | | | | | | |
| St. St. St. St. St. Market St. St. St. St. St. St. St. St. St. St | ches): | | | | | Hydric Soll | Present? Yes No No |
| Remarks: | uics). | A CONTRACTOR AND A STANLAR CONTRACTOR OF THE | | | | THE SHALL SHE STATE | |
| Remarks. | | | | | | | |
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Wetland data point wsuo027f_w facing north.



Wetland data point wsuo027f_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region City/County: Suffolk Sampling Date: 01 14 16 State: VA Sampling Point: W540027-4 Project/Site: ACP Applicant/Owner: DOMINION Investigator(s): L. ROPER, S. Iocefa Section, Township, Range: N/A Landform (hillslope, terrace, etc.): FIATWOODS Local relief (concave, convex, none): None Slope (%): O Lat: 36.67969 Long: -76.73592 Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Nansemon & NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.) Are Vegetation X, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 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 Hydric Soil Present? Yes _____ No ___ within a Wetland? Wetland Hydrology Present? mowed roadside shoulder **HYDROLOGY** Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) Drainage Patterns (B10) High Water Table (A2) Marl Deposits (B15) (LRR U) ☐ Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Crayfish Burrows (C8) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Thin Muck Surface (C7) Geomorphic Position (D2) Algal Mat or Crust (B4) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): _ Surface Water Present? Depth (inches): Water Table Present? No ____ Depth (inches): _ > 10 Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: * Restrictive concrete layer at 10 inches.

no evidence surface hydrology indicators

US Army Corps of Engineers

| 10.0 | Absoluto | Dominant | Indicator | Dominance Test workshoot: |
|--|------------------------|-----------------------|--|--|
| Tree Stratum (Plot size: 30 x 10 ft) | Absolute % Cover | | | Dominance Test worksheet: |
| 10000 | | | Contract the second second second second | Number of Dominant Species 2 |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Total Number of Dominant 3 |
| 3 | | | | Species Across All Strata: (B) |
| 4. | | | | |
| 100 Ph. 200 ph. 100 ph | | | | Percent of Dominant Species 67 |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | |
| 7 | | | | Prevalence Index worksheet: |
| \$1000000000000000000000000000000000000 | F7483457476 | | | Total % Cover of: Multiply by: |
| 8 | | | | OBL species x 1 = |
| | | Total Cov | er | Control to the Application College and the Col |
| 50% of total cover: | 20% of t | otal cover | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30 / 10 Ft) | | | | FAC species x 3 = |
| Saping/Shrub Stratum (Plot size: Saping/Shrub Stratum) | | | | FACU species x 4 = |
| 1. None | | | | |
| 2. | | | | UPL species x 5 = |
| Selection in the selection of the continuous content of a selection of the sel | | | | Column Totals: (A) (B) |
| 3 | | | | |
| 4. | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | |
| CAN TO MINE THE TOTAL OF BRIDGE CONTROL OF THE PROPERTY OF THE | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | = | Total Cov | er | |
| F00/ -f1-1-1 | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of t | otal cover | 0.00 | |
| Herb Stratum (Plot size: 30 × 10 Ft) | 10 | V | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Grass sp. (mowed) | 10 | 1 | UNK | be present, unless disturbed or problematic. |
| 2. Toxicodendron radicans | 30 | Y | FAC | Definitions of Four Vegetation Strata: |
| | | and the second second | Commission of the Commission o | Definitions of Four Vegetation Strata. |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| | | | | height. |
| 5 | | | | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| | | | 7 | 110.911 |
| 12. | 10 | | | |
| | 40 = | Total Cov | er a | |
| 50% of total cover: 20 | 20% of t | otal cover | | |
| Woody Vine Stratum (Plot size: 30 X 10 ft | | | | |
| Grand Grand Control of Control | 5 | V | FAC | |
| 1. Smilax notunditolia | | | 1110 | |
| 2. | | | | |
| 3 | | | | |
| | | United Seals | AND THE REAL PROPERTY. | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 9 = | Total Cov | er | Vegetation |
| 50% of total cover: 2.1 | | | | Present? Yes No |
| | the probability of the | otal cover | | |
| Remarks: (If observed, list morphological adaptations beli | ow). | | | |
| in I dinad and : 1 | | | | |
| mountained roadsid | 0 | | | |
| intolity indirection is a self of | C. | | | |
| 1001000 23 002 22 | - 1 | 1.00 | 6/0 | |
| moved of vasses are | unide | nTitio | -DIE | |
| 1.000 | | | | |
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| Profile Descrip | otion: (Describe | to the depth n | eeded to docu | ment the i | ndicator | or confirm | n the absence of indicators.) | |
|--|----------------------------------|--|---------------------------|-----------------------------|-------------|------------|--|------------------|
| Depth _ | Matrix | | | x Features | | | | |
| (inches) | Color (moist) | 100 | Color (moist) | % | Type' | _Loc² | Lodiny-Sand | narks |
| 0-10 | 10411712 | 100 | | | | | bully-sand | |
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| ELEVATION . | | | | | | | | |
| ¹Tuna: C=Can | centration, D=Dep | letion PM-Po | duced Matrix M | S-Masked | Sand Gr | | ² Location: PL=Pore Lining, M | 1=Matrix |
| | dicators: (Applic | | | | | anis. | Indicators for Problematic F | |
| Histosol (A | | ſ | Polyvalue Be | | | RR S, T, L | | |
| Histic Epip | | į | Thin Dark St | | | | 2 cm Muck (A10) (LRR S | |
| Black Histi | | Į | Loamy Muck | | | 0) | Reduced Vertic (F18) (ou | |
| | Sulfide (A4) | + | Loamy Gley | | F2) | | Piedmont Floodplain Soil: | |
| Stratified L. | ayers (A5) odies (A6) (LRR P | T III 1 | Depleted Ma Redox Dark | Charles and Alberta Control | 6) | | Anomalous Bright Loamy (MLRA 153B) | Solis (F2U) |
| The second second second second | y Mineral (A7) (LF | A SAN ASSAULT AND A SAN ASSAULT AND ASSAULT | Depleted Da | | | | Red Parent Material (TF2 |) |
| | ence (A8) (LRR U | TO THE REAL PROPERTY OF THE PARTY OF THE PAR | Redox Depre | | | | Very Shallow Dark Surface | ce (TF12) |
| | (A9) (LRR P, T) | | Marl (F10) (L | | | | Other (Explain in Remark | s) |
| The state of the s | Selow Dark Surfac | e (A11) I | Depleted Oc | | | | T) ³ Indicators of hydrophyti | a vagatation and |
| The state of the s | Surface (A12) rie Redox (A16) (N | MLRA 150A) | Iron-Mangar Umbric Surfa | | | | wetland hydrology mu | |
| The same trade of the same of the same of | cky Mineral (S1) (I | Control of the Contro | Delta Ochric | | | , | unless disturbed or pro | |
| Sandy Gle | yed Matrix (S4) | Ī | Reduced Ve | rtic (F18) (I | MLRA 15 | | | |
| Sandy Red | | + | Piedmont Flo | | | | 1800 1886 (T. 480 2018) B. Caralle La L'ISBN 1880 (B. 1800) B. Caralle L. H. Caralle L | |
| Stripped M | atrix (S6) ce (S7) (LRR P, S | T III | Anomalous E | Bright Loan | ny Soils (I | -20) (MLR | RA 149A, 153C, 153D) | |
| | yer (if observed): | | | | | | | |
| Туре: 6 | | | | | | | | 10 |
| Depth (inche | es): |) | | | | | Hydric Soil Present? Yes_ | No X |
| Remarks: | | | | | | | | |
| coul | d not | allas | or bol | MDI | 101 | nch | es, gravel | laun |
| 0000 | | 0000 | | 0 0 | | | of Oraver | 19961 |
| a+ 10 | inch | OS. | | | | | | |
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Upland data point wsuo027_u facing southeast.



| WEILAND DETERMINATION DATA | FORINI - Atlantic and Guil Coastal Flam Region |
|--|---|
| Project/Site: A CP | City/County: Suffolk Sampling Date: 01/4/14 |
| Applicant/Owner: DOMINION | State: VA Sampling Point W540026t |
| Investigator(s): U-ROPER C. +OSE+O | Section, Township, Range: N A |
| Landform (hillslope terrace etc.): Flatwood | Local relief (concave, convex, none): No Ne Slope (%) |
| Subregion (LRR or MLRA): LRRT Lat: 30 | .68259 Long: -16.13216 Datum: WGS & |
| | fine sand NWI classification: PFO |
| Are climatic / hydrologic conditions on the site typical for this time of y | |
| Are Vegetation, Soil, or Hydrology significantly | |
| Are Vegetation, Scil, or Hydrology naturally pr | |
| | |
| SUMMARY OF FINDINGS – Attach site map showing | g sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| NCWAM: Bottom land Hardwood! | Forest |
| MANAGE And Annual A | Secondary Indicators (minimum of two required) |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) | |
| Surface Water (A1) Aquatic Fauna (B) | |
| ✓ High Water Table (A2) Marl Deposits (B1 | Here, NYC (1) 2018 전 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Saturation (A3) Hydrogen Sulfide | |
| 1. | heres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | |
| Drift Deposits (B3) Recent Iron Redu Algal Mat or Crust (B4) Thin Muck Surface | and the control of t |
| Iron Deposits (B5) — Other (Explain in I | 200 교육 2000 BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| ✓ Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | NIA |
| Surface Water Present? Yes No _X Depth (inches | |
| Water Table Present? Yes X No Depth (inches | |
| Saturation Present? Yes X No Depth (inchest (includes capillary fringe) | s): Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial pho- | tos, previous inspections), if available: |
| | |
| Remarks: | currently in indated |
| Portions of westand the | currently inundated. |
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| 201125 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|-----------------------------|--------------|--------------|---|
| Tree Stratum (Plot size: 30 y b) (4) | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 Carpinus caroliniana | 10 | 4 | FACW | Total Number of Dominant Species Across All Strata: |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | Prevalence Index worksheet: |
| 7. | | | | Total % Cover of: Multiply by: |
| 8. | | | | OBL species x1 = |
| | 40 | = Total Cov | er | TO A PROPERTY OF THE PROPERTY |
| 50% of total cover: 20 | 20% of | total cover | 9 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30 X30F) | | V | | FAC species x3 = |
| 1 Carpinus caroliniana | 20 | Y | FACW | |
| 2 Maghala virginiana | 10 | Y | FACT | UPL species x 5 = |
| 3. Ilex opaca | 5 | N | FAC | Column Totals: (A) (B) |
| 4 | | | A HER STREET | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.01 |
| | 35 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 7.5 | _ 20% of | total cover | 1 | |
| Herb Stratum (Plot size: 30 x 3 U+1) | | | | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. none | | | | Definitions of Four Vegetation Strata: |
| 2. | | | | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4, | | | | more in diameter at breast height (DBH), regardless of height. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 11 | | | | Woody vine - All woody vines greater than 3.28 ft in height. |
| 12 | - ((Lo | A CONTRACTOR | V-1011 11 | |
| | NIA | = Total Cov | er | |
| 50% of total cover: | 20% of | total cover | | |
| Woody Vine Stratum (Plot size: 30 x 30 ft) | | V | ±AC. | |
| 1. Smilax rotundifolia | 10 | | THO | |
| 2. | | | | |
| 3. | | | | |
| 4. | | SALE E | | |
| 5 | | | | Hydrophytic |
| | 10 | = Total Cov | er - | Vegetation |
| 50% of total cover: | Constitution and the second | total cover | | Present? Yes / No |
| | | total cover | | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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WS40026FW
Sampling Point:

| Profile Description: (Describe to the o | lepth needed to document the Indicator or confirm | the absence of Indicators.) |
|---|--|--|
| Depth Matrix (inches) Color (moist) % | Redox Features Color (moist) % Type Loc² | Texture Remarks |
| ()-9 TOYR 3 2 100 | | Loamy-sand |
| 0 20 10 48 612 01 | FIDYRGILD 3 C M | sand |
| 20-10 10 11 11 12 201 | 1011/10/10 | |
| | | |
| | | Control of the Contro |
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| | | AND THE STATE OF T |
| ¹ Type: C=Concentration, D=Depletion, F | RM=Reduced Matrix, MS=Masked Sand Grains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable to | | Indicators for Problematic Hydric Solis ³ : |
| Histosol (A1) | Polyvalue Below Surface (S8) (LRR S, T, U | I) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) |
| Histic Epipedon (A2) Black Histic (A3) | Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) | Reduced Vertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfide (A4) | Loamy Gleyed Matrix (F2) | Piedmont Floodplain Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) | Depleted Matrix (F3) | Anomalous Bright Loamy Soils (F20) |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark Surface (F6) | (MLRA 153B) Red Parent Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T Muck Presence (A8) (LRR U) | U) Depleted Dark Surface (F7) Redox Depressions (F8) | Very Shallow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) | Mari (F10) (LRR U) | Other (Explain in Remarks) |
| Depleted Below Dark Surface (A11) | Depleted Ochric (F11) (MLRA 151) | - 3. r. t. t. t. t. t. t. u. askalian and |
| Thick Dark Surface (A12) | Iron-Manganese Masses (F12) (LRR O, P, | T) sindicators of hydrophytic vegetation and wetland hydrology must be present, |
| Coast Prairie Redox (A16) (MLRA 1 Sandy Mucky Mineral (S1) (LRR 0, | | unless disturbed or problematic. |
| Sandy Gleyed Matrix (S4) | Reduced Vertic (F18) (MLRA 150A, 150B) | [2] FOR SEA TO SEA TO SEA TO SEA TO SEA THE SEA TO SEA TO SEA TO SEA TO SEA THE SEA TO SEA TO SEA TO SEA TO SEA |
| Sandy Redox (S5) | Piedmont Floodplain Soils (F19) (MLRA 14 | (AP) |
| Stripped Matrix (S6) | Anomalous Bright Loamy Soils (F20) (MLR | A 149A, 153C, 153D) |
| Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): | NOTES CONTRACTOR AND MAINTENANCE AND | The state of the s |
| Type: | | |
| Depth (inches): | | Hydric Soil Present? Yes X No |
| Remarks: | | |
| nomana. | | |
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Wetland data point wsuo026f_w facing north.



Wetland data point wsuo026f_w facing east.

| WETLANI | DETERMINATION | | | ulf Coastal Plain Reg | ion |
|--|--|--|---------------------|---|---|
| Project/Site: ACP | | City/County: | Suffolk | Sampling | Date: 0 14 |
| Applicant/Owner: DOMIN | 101 | | | | Point: W540 026_ |
| I pop of | | Seatles Tour | rnship, Range: | A Sampling |) Politi. |
| irecongutor(s). | | | | 010100 | NII |
| andform (hillslope, terrace, etc.): | 111 | Local relief (| | none): None | _ Slope (%): |
| Subregion (LRR or MLRA): | | at: 36.6824 | | 16.73282 | Datum: W 658 |
| Soil Map Unit Name: Nanse | mond loum | y fine sa | nd | NWI classification: | UPLAND |
| 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 si | ignificantly disturbed? | Are "Normal | Circumstances" present? | Yes No |
| re Vegetation, Soil | | | | explain any answers in Rema | 1 |
| SUMMARY OF FINDINGS - | | | | | |
| Section (Section Control of Contr | Andrews Committee St. Committee Comm | | | | Control of the Control of the Control |
| Hydrophytic Vegetation Present? | Yes X No | ls the | Sampled Area | | V |
| Hydric Soil Present? Wetland Hydrology Present? | | within | a Wetland? | Yes No | |
| Remarks: | Yes No | | | | |
| remarks. | | | | | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | Aquatic F Marl Dep Hydroger Oxidized Presence Recent Ir | AND DESCRIPTION OF THE PROPERTY OF THE PROPERT | ring Roots (C3) | Secondary Indicators (minir Surface Soil Cracks (B Sparsely Vegetated Co Drainage Patterns (B10 Moss Trim Lines (B16) Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (I | 6) pricave Surface (B8) D) ple (C2) perial Imagery (C9) |
| Iron Deposits (B5) | | xplain in Remarks) | | Shallow Aquitard (D3) | 22) |
| Inundation Visible on Aerial Ir | | | | FAC-Neutral Test (D5) | |
| Water-Stained Leaves (B9) | | | | Sphagnum moss (D8) | |
| Field Observations: | | 110 | | | |
| Surface Water Present? Ye | s No_X Dep | | | | |
| Water Table Present? Ye | s No X Dept | th (inches): > 20 | | | (, |
| Saturation Present? Ye (includes capillary fringe) | | th (inches): >20 | Wetland H | ydrology Present? Yes_ | NoX_ |
| Describe Recorded Data (stream | gauge, monitoring well, a | erial photos, previous in | spections), if avai | ilable: | 100 |
| Remarks: | | | | | |
| ioma no. | | | | | |
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VEGETATION (Four Strata) - Use scientific names of plants.

| 211991154 | Absolute | Dominant | Indicator | Dominance Test worksheet: | Minute I |
|--|--|-----------------|--------------------|--|---|
| Tree Stratum (Plot size: 30 \ 30 FT) 1. PINUS + aeda | % Cover | Species? | Status FAC | Number of Dominant Species That Are OBL, FACW, or FAC: | (A) |
| 2. Carpinus caroliniana | 10 | 4 | FAC | Total Number of Dominant Species Across All Strata: | (B) |
| 4 | ASSERT THE EST. | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | (A/B) |
| · 6. | | | | A STATE OF THE STA | Marie Control |
| 7. | | L. K | and the same | Prevalence Index worksheet: | 10000 |
| 8. | | | | Total % Cover of: Multiply by: | |
| | 40 | = Total Cov | rer C. | OBL species x 1 = | CONTRACTOR OF THE PARTY OF THE |
| 50% of total cover: 20 | 20% of | total cover | :_9_ | FACW species x 2 = | |
| Sapling/Shrub Stratum (Plot size: 30 X 20f1) | | V | . 0 | FAC species x 3 = | |
| 1. Arex rubrum | 10 | 1 | FAC | FACU species x 4 = | |
| 2 Carpinus caroliniana | 10 | Y | DAC | UPL species x 5 = | |
| 3 Ilex opaca | 10 | 7 | FAC | Column Totals: (A) | _ (B) |
| 4. Fagus granditalla | 5 | N | FACU | Prevalence Index = B/A = | |
| 5 | | | | Hydrophytic Vegetation Indicators: | |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7. | -1- | | | 2 - Dominance Test is >50% | |
| 8 | | | | 3 - Prevalence Index is ≤3.01 | |
| | 35 | = Total Co | /er ¬ | Problematic Hydrophytic Vegetation¹ (Expla | in) |
| 50% of total cover: 17.5 | 20% of | total cover | :_1_ | and the second s | |
| Herb Stratum (Plot size: 30 x30 ft) | 10 | 4 | FAC | ¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic. | must |
| 2. | | | I treatment of the | Definitions of Four Vegetation Strata: | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 | cm) or |
| 4 | | And the second | | more in diameter at breast height (DBH), regard height. | |
| 5 | Pages Carrier | and the opening | | Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) tal | s, less |
| 8 | | | | Herb – All herbaceous (non-woody) plants, rega | |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. | |
| 10 | | | | Woody vine – All woody vines greater than 3.20 height. | 8 ft in |
| 12. | | | A MARKETON AND | | |
| | 10 | = Total Co | ver 2 | | 01:50 |
| 50% of total cover: | 20% 0 | f total cover | | The state of the s | |
| Woody Vine Stratum (Plot size: 30x 30++) | 16 | V | +Ar | Marie Committee of the | |
| 1. (milax rotundifolia | 10 | _ 1 | - 110 | | |
| 2. | 1000 | | | | |
| 3. | | | | | |
| 4 | | | | | |
| 5 | | | | Hydrophytlc | |
| | 10 | = Total Co | ver _ | Vegetation 🗸 | |
| 50% of total cover: | 20% 0 | f total cove | / | Present? Yes No | |
| Remarks: (If observed, list morphological adaptations beli | The state of the s | | | | 19000 |
| Remarks. (ii observed, iist ma pridografi adaptations por | , | | | | |
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| Profile Description: (Describe to the dept | h needed to document the in | ndicator or confirm | n the absence of in | dicators.) |
|--|---|---|---------------------|--|
| Depth Matrix | Redox Features | | | t |
| (inches) Color (moist) % | Color (moist) % | Type Loc2 | Texture | Remarks |
| | N 1/10 - 1 | <u> </u> | 751 | |
| 12-20 JOYR 41 96 | 10 1R5/05 | CIVI | 0 | |
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| | | | | |
| | | | 2, 1, 5, 5, 1 | |
| ¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I | Reduced Matrix, MS=Masked | Sand Grains. | | Pore Lining, M=Matrix. Problematic Hydric Soils ^a : |
| | Polyvalue Below Surface | | | |
| Histosol (A1) Histic Epipedon (A2) | Thin Dark Surface (S9) | | 2 cm Muck | THE R. P. LEWIS CO. LEWIS CO. LEWIS CO. LEWIS AND ADDRESS OF THE PROPERTY OF T |
| Black Histic (A3) | Loamy Mucky Mineral (| | | ertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfide (A4) | Loamy Gleyed Matrix (I | | | codplain Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) | Depleted Matrix (F3) | 해당이 6 (1021년) 등 1 (12) 불명 (2 (12) 등 - 12) (12) (12) | | Bright Loamy Soils (F20) |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark Surface (F | 다리 아이는 것이 그렇게 하는데 가입하는데 없다. | (MLRA 1 | Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) | Depleted Dark Surface Redox Depressions (F8) | | | w Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) | Mari (F10) (LRR U) | | | ain in Remarks) |
| Depleted Below Dark Surface (A11) | Depleted Ochric (F11) | | | |
| Thick Dark Surface (A12) | Iron-Manganese Masse | | | of hydrophytic vegetation and |
| Coast Prairie Redox (A16) (MLRA 150A | | | | hydrology must be present, isturbed or problematic. |
| Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) | Delta Ochric (F17) (ML Reduced Vertic (F18) (I | | | istarbed of problematic. |
| Sandy Redox (S5) | Piedmont Floodplain So | | | |
| Stripped Matrix (S6) | Anomalous Bright Loan | | | D) |
| Dark Surface (S7) (LRR P, S, T, U) | | | | |
| Restrictive Layer (if observed): | | | | |
| Type: | _ | | | ent? Yes X No |
| Depth (inches): | | | Hydric Soll Pres | ent? Yes // No |
| Remarks: | | | | |
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| Particular visitation of the last of the control of t | | | | |
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Upland data point wsuo026_u facing west.



Upland data point wsuo026_u facing south.

| | FORM – Atlantic and Gulf Coastal Plain Region |
|--|---|
| Project/Site: A CP | City/County Suffolk Sampling Date 1/13/16 |
| Applicant/Owner: Dominion | State VA Sampling Point WS up 025f. |
| Paner (lacote | Section Township Bango: N/A |
| Investigator(s): Drdlhddo | Legal solid (conseque sociales pope) NONE Stope (%) N/A |
| Landform (hillslope, terrace, etc.): | . 6843 Long: 70.732158 Datum: W658 |
| Subregion (LRR or MLRA): Lat: | Local relief (concave, convex, none): NONE Slope (%) N/A Local relief (concave, convex, none): NONE Slope (%) N/A Datum: W658 |
| Soil Map Unit Name: Levy 3.1.7 Clay | |
| Are climatic I hydrologic conditions on the site typical for this time of ye | ear? YesX 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 pro | oblematic? (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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| NCWAM: Bottomland Hardwood | Forest |
| HYDROLOGY | The following of two required) |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | |
| Surface Water (A1) Aquatic Fauna (B1 | 16. C. |
| High Water Table (A2) Marl Deposits (B15 X Saturation (A3) Hydrogen Sulfide 0 | |
| | neres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | ced Iron (C4) Crayfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduc | ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | |
| Iron Deposits (B5) Other (Explain in F | Remarks) Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) |
| Water-Stained Leaves (B9) | Spriagram moss (bb) (ERR 1, 5) |
| Field Observations: Surface Water Present? Yes No Depth (inches | A M |
| | |
| Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches | 3500m con tamin 4 # 4-4 1-4 25 4 25 1 2 3 4 4 1 5 2 3 1 2 3 2 4 1 5 2 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if available. |
| | |
| Portions of wetland are inunda | to d |
| Portions of Werland areinwhole | |
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| DOVANEL | Absolute | Domina | nt Indicator | Dominance Test worksheet: | | |
|--|--|---|--------------|--|---------------------------------|--|
| 1. Quercy michayxii | 10 | Species | FAC.W | Number of Dominant Species That Are OBL, FACW, or FAC: | 7 | (A) |
| 2 Acerrubyum 3 Ilex opaca | 10 | 7 | FAC | Total Number of Dominant Species Across All Strata: | 7 | (B) |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | (A/B) |
| 6. | | | | Prevalence Index worksheet: | | |
| 7 | | | | Total % Cover of: | tultinly by: | |
| 8. | | | | Company of the Compan | | The state of the s |
| | 45 | = Total C | over . | OBL species x 1 = | | THE RESERVE OF THE PARTY OF THE |
| 50% of total cover 22 | 5 20% of | total cov | er: Q | FACW species x 2 = | | A STATE OF THE PARTY OF THE PAR |
| Sapling/Shrub Stratum (Plot size: 30 X 35 1) | . 7 | 1 | | FAC species x 3 = | | |
| 1 Ilex opaca | 0 | 7 | FAC | FACU species x 4 = | | |
| 2 Acer rubrum | 710 | Y | FAC | UPL species x 5 = | | _ |
| The second state of the second of the second | CEO LOVE | | | Column Totals: (A) | | _ (B) |
| 3. | Service and the service of the servi | | | | | |
| 4. | in rations of cream for | | | Prevalence Index = B/A = | | |
| 5. | | | | Hydrophytic Vegetation Indicator | | |
| 6. | | | | 1 - Rapid Test for Hydrophytic \ | Vegetation | |
| 7 | | | | 2 - Dominance Test is >50% | | |
| B | -00 | | | 3 - Prevalence Index is ≤3.01 | | |
| 16 | 30 | = Total C | over U | Problematic Hydrophytic Veget | ation¹ (Expla | ain) |
| 50% of total cover: | _ 20% of | total cove | er: | | | |
| Herb Stratum (Plot size: 30 X30ft) 1. Arundinana giganteo | 20 | Y | FACW | ¹ Indicators of hydric soil and wetland be present, unless disturbed or prot | d hydrology olematic. | must |
| 1. ATMINITED STORY | | | | Definitions of Four Vegetation St | | Telephonia a |
| 2 | | | | | | |
| 3 | | | | Tree - Woody plants, excluding vin | es, 3 in. (7.6 | cm) or |
| 4, | | | | more in diameter at breast height (I height. | JBH), Tegare | 11633 01 |
| 6. | THE STATE OF | | | Sapling/Shrub – Woody plants, ex than 3 in. DBH and greater than 3.2 | cluding vine | s, less |
| 7. | | | | | | |
| 9. | | | | Herb - All herbaceous (non-woody) of size, and woody plants less than |) plants, regi 3.28 ft tall. | ardless |
| 10 | | | | Woody vine - All woody vines grea | ter than 3.2 | 8 ft in |
| 11. | | | | height. | | To Alexander |
| 12 | | | | | | |
| | 20 | = Total C | OVEC | personal and the second second second | | |
| 50% of total cover: | and the second second second second | total cove | | | | |
| Woody Vine Stratum (Plot size: 30 X30E) | | total covi | | | | |
| 1 Smilax rotundifolia | 15 | Y | TAC | | | |
| 1. Juliax Miaria Tolia | 20 ST 15 ST 15 ST | C Fig. 4923 | 1110 | | | |
| 2. | _ | | | | | |
| 3. | 100000000000000000000000000000000000000 | | | | | |
| 4. | 2014 125 | | | | | |
| 5. | | | | Hydrophytic | | |
| | 19 | = Total C | over | Vegetation Present? Yes | | |
| 50% of total cover: 1.5 | 20% of | total cove | er: 3_ | Present? Yes | No | |
| Remarks: (If observed, list morphological adaptations belo | A STANSON AND A STAN ASSESSMENT OF THE STAN A | esetektedini velo (15. Viljoed S.E. V. | | And the second s | | |
| inamiana. (ii aaaa, raa) iia jiia kiia aagaa aaakaaata bata | | | | | | |
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Sampling Point: ____

| Profile Desi | cription: (Describe to | o the deoth r | needed to docum | ent the indicato | r or confirm | n the absence | Di midicator | 3.1 | |
|--|--|-----------------|------------------|--|--------------|------------------------|------------------|-----------------------------------|----------|
| | Matrix | 4- Pii// | | Features | | | | | |
| Depth (inches) | Color (moist) | | Color (moist) | % Type | Loc2 | Texture | | Remarks | |
| 0-15 | TINP OIL | 100 | | | | LFS | | | |
| 0 10 | 10117 11 | | | | | | | | |
| | | | | | | | | | STATE OF |
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| | | | | palificación para esta | | | | | _ |
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| IT may C=C | oncentration, D=Deple | etion RM=Re | duced Matrix MS | =Masked Sand (| Grains. | ² Location: | PL=Pore Lin | ning. M=Matrix. | |
| Hydric Soil | Indicators: (Applica | ble to all LRI | Rs. unless other | wise noted.) | | Indicators | for Problem | natic Hydric Solls ³ : | |
| | | | Polyvalue Bel | | LRR S. T. | U) 1 cm | Muck (A9) (L | RR O) | |
| Histosol | pipedon (A2) | | Thin Dark Sur | | | 2 cm | Muck (A10) (| LRR S) | |
| The state of the s | istic (A3) | | | Mineral (F1) (LF | | Reduc | ced Vertic (F | 18) (outside MLRA 150 | DA,B) |
| | en Sulfide (A4) | | Loamy Gleyer | | | Piedm | nont Floodpla | in Soils (F19) (LRR P, | s, T) |
| | d Layers (A5) | | Depleted Mate | | | | | Loamy Soils (F20) | |
| | Bodies (A6) (LRR P, | T, U) | Redox Dark S | | | | RA 153B) | | |
| | ucky Mineral (A7) (LR | RP, T, U) | | k Surface (F7) | | | Parent Materia | | |
| | resence (A8) (LRR U) | | Redox Depre | | | | | Surface (TF12) | |
| 1. Comment | uck (A9) (LRR P, T) | | Marl (F10) (LI | | | Other | (Explain in F | kemarks) | |
| | d Below Dark Surface | (A11) | Depleted Och | ric (F11) (MLRA | 151) | - 3 ₁₋ | and any of build | rcphytic vegetation and | |
| Thick D | ark Surface (A12) | - | Iron-Mangane | ese Masses (F12 | (LRR O, P | , T) Indi | caters of nyo | ogy must be present, | |
| | Prairie Redox (A16) (M | | Umbric Surface | ce (F13) (LRR P, | T, U) | | | d or problematic. | |
| The American Street, Lands | Mucky Mineral (S1) (L | RRO,S) | Delta Ochric (| (F17) (MLRA 151 |) | | 1622 DISTRIDE | d of problematio. | |
| Constitution of the Consti | Gleyed Matrix (S4) | • | Reduced Vert | tic (F18) (MLRA | 15UA, 15UB | 40.41 | | | |
| Commence of the State of the St | Redox (S5) | | Pleamont Flo | odplain Soils (F1 right Leamy Soils | (E20) (MIII | PA 149A 1530 | 2. 153D) | | |
| Stripped | d Matrix (S6) | | Anomalous B | right Leamy Soil: | | | | | |
| | | | | | (, | | | | |
| | rface (S7) (LRR P, S, | , T, U) | | | | | | | |
| | urface (S7) (LRR P, S, Layer (if observed): | , T, U) | | | / | | | | |
| | | , T, U) | _ | | / () - / | | | Vas X No | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | Yes No | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |
| Restrictive Type: Depth (in | Layer (if observed): | | _ | | | Hydric So | II Present? | | |



Wetland data point wsuo025f_w facing southwest.



Wetland data point wsuo025f_w facing southeast.

| WETLA | AND DETERMINATION DATA | | | |
|--|--|-------------------------|--|--|
| Project/Site: A CF |) | City/County: | suffolk | Sampling Date: 01/13/16 |
| Applicant/Owner: DOM | IMION | | State: V | A Sampling Point: WSN 025- |
| | r, S. Iosefa | Section Townshi | p, Range: NA | |
| | 11111616160 | Local relief (conc | ave, convex, none): | ione slope (%) N/A |
| Landform (hillslope, terrace, etc Subregion (LRR or MLRA): | · | 68850 | Long: -16.7 | 3226 Datum: WGS8 |
| Soil Man Unit Name: LOU | y silty clay 1 | | NWI c | lassification: UPLAND |
| | ions on the site typical for this time of | | | |
| | , or Hydrology significan | | | nces" present? Yes X No |
| | , or Hydrology naturally | | (If needed, explain any | |
| SUMMARY OF FINDING | S - Attach site map showi | ng sampling po | int locations, tran | sects, important features, etc. |
| Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? Remarks: | Yes No X | | npled Area Vetland? Ye | s NoX |
| HYDROLOGY | | | | |
| Wetland Hydrology Indicate | nre* | | Secondan | y Indicators (minimum of two required) |
| ** ** ** ** ** ** ** ** ** ** ** ** ** | of one is required; check all that appl | \v) | A PROBLEM TO THE RESIDENCE OF THE PROPERTY OF THE PERSON NAMED TO SERVICE OF THE PERSON NAMED | ce Soil Cracks (B6) |
| The transferring to strong adjust the company of th | Aquatic Fauna (| | | ely Vegetated Concave Surface (B8) |
| Surface Water (A1) High Water Table (A2) | Marl Deposits (E | | | age Patterns (B10) |
| | Hydrogen Sulfid | | | Trim Lines (B16) |
| Saturation (A3) Water Marks (B1) | | pheres along Living | | eason Water Table (C2) |
| | Presence of Rec | | | ish Burrows (C8) |
| Sediment Deposits (B2) Drift Deposits (B3) | | luction in Tilled Soils | | ation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | Thin Muck Surfa | | | norphic Position (D2) |
| | Other (Explain in | | | ow Aquitard (D3) |
| Iron Deposits (B5) | | Tremarks | EVEN TO BE A CONTROL OF THE PROPERTY OF | Neutral Test (D5) |
| Inundation Visible on Aer Water-Stained Leaves (E | | | | gnum moss (D8) (LRR T, U) |
| Field Observations: | 13) | | | |
| Surface Water Present? | Yes NoX Depth (inch | A/N | | |
| Water Table Present? | Yes No Depth (inch | | | V |
| Saturation Present? | - 10 Pt. Mat. Aut. 10 - 10 - 10 Pt. Mat. 1 | nes): >20 | Wetland Hydrology | Present? Yes No |
| (includes capillary fringe) Describe Recorded Data (stre | eam gauge, monitoring well, aerial ph | notos, previous inspe | ctions), if available: | |
| Describe recorded bara for | | | | |
| Domarka | | | | |
| Remarks: | | | | |
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| 01/2001 | | | Indicator | Dominance Test worksheet: |
|---|--|--------------------------|-------------|--|
| Tree Stratum (Plot size: 20430P4) 1. Liviogendron tulipifera | %.Cover | Species' | FAC | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2. QUERCUS rubta 3. Acer rubrum | 50 | 4 | FACU | Total Number of Dominant Species Across All Strata: (B) |
| 4. Ilex opaca | 110 | Y | FAC | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8. | 60 | | | OBL species x 1 = |
| 25 | | = Total Co | | FACW species x 2 = |
| 50% of total cover: 25 | 2 20% of | total cove | r. 10 | FAC species x3 = |
| Sapling/Shrub Stratum (Plot size: 30 x 30ff) | 5 | V | FAC | FACU species x 4 = |
| 1. Ilex opera | - | - | 1.1.4 | UPL species x 5 = |
| 2. Acer rubrum 3. Lirio dendron tulipi ford | 5 | 1 | FAC | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6. | | 1.00 | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 12 - Dominance Test is >50% |
| B | | | | 3 - Prevalence Index is ≤3.01 |
| | 15 | = Total Co | ver A | Problematic Hydrophytic Vegetation¹ (Explain) |
| Herb Stratum (Plot size: 30 x 30 total cover: 7. | 20% of | total cove | r. <u>3</u> | |
| 1. Ligustrum sinense | 10 | 4 | FAC | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 Arundinaria gigantea | 10 | Y | FACIN | Definitions of Four Vegetation Strata: |
| 3. Chasmanthium latifolium | 10 | Ÿ | FAC | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5. | District the base of the | | | height. |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9 | | | | |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 11. | | | | neight. |
| 12 | 30 | - Total Co | | |
| 50% of total cover: | A Tomat or Chiese the Business for E | = Total Co total cove | n | |
| | 20% 01 | total cove | i mana | |
| Woody Vine Stratum (Plot size: 30 x 30ft) | 15 | Y | FAC | |
| - Vitil Intingi Falia | = | V | FAC | |
| 2. 41113 PORTIGITA | | TATALOG & LINE | IAC | |
| | | | | |
| 4. | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | OF STANFA | | |
| 5 | 20 | THE RESERVE OF THE | | Hydrophytic |
| 10 | NUMBER OF STREET | = Total Co | 4 | Vegetation Present? Yes No |
| 50% of total cover: 10 | AND THE PERSON OF THE PERSON O | total cove | | ANTHER TOTAL OF PROPERTY AND ADDRESS OF THE PARTY. |
| Remarks: (If observed, list morphological adaptations below | ow). | | | |
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Sampling Point:

| Light Bosenbriett /Bosenberg and make | th needed to document the Indicator or confirm | | |
|--|--|---|--|
| Depth Matrix | Redox Features Color (moist) % Type Loc² | Texture | Remarks |
| (inches) Color (moist) % | Color (moist) % Type Loc | | 60% uncoated rand grain |
| 0-10 10 YR 3/2 100 | | 10 | 4 |
| 10-20 104R 5/6 100 | | SCL | |
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| | AND THE RESIDENCE OF THE PROPERTY OF THE PROPE | | |
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| The state of the s | | | |
| | | 2 11 51 1 | D. II-I Mandalais |
| ¹ Type: C=Concentration, D=Depletion, RM= | Reduced Matrix, MS=Masked Sand Grains. | *Location: PL=I | Pore Lining, M=Matrix. Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all | | | |
| Histosol (A1) | Polyvalue Below Surface (S8) (LRR S, T, U |) 1 cm Muck | |
| Histic Epipedon (A2) | Thin Dark Surface (S9) (LRR S, T, U) | 2 cm Muck | ertic (F18) (outside MLRA 150A,B) |
| Black Histic (A3) | Loamy Mucky Mineral (F1) (LRR O) | Reduced Vi | codplain Soils (F19) (LRR P, S, T) |
| Hydrogen Sulfide (A4) | Loamy Gleyed Matrix (F2) | Pleumont P | Bright Loamy Soils (F20) |
| Stratified Layers (A5) | Depleted Matrix (F3) | (MLRA1 | |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark Surface (F6) | THE REPORT OF THE PARTY OF THE | Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) | Depleted Dark Surface (F7) Redox Depressions (F8) | | w Dark Surface (TF12) |
| Muck Presence (A8) (LRR U) | Mari (F10) (LRR U) | | ain in Remarks) |
| 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) | Depleted Ochric (F11) (MLRA 151) | | |
| Thick Dark Surface (A12) | Iron-Manganese Masses (F12) (LRR O, P, | T) 3Indicators | of hydrophytic vegetation and |
| Coast Prairie Redoy (A16) (MLRA 150) | Umbric Surface (F13) (LRR P, T, U) | wetland | hydrology must be present, |
| Sandy Mucky Mineral (S1) (LRR O, S) | Delta Ochric (F17) (MLRA 151) | unless d | isturbed or problematic. |
| Sandy Gleyed Matrix (S4) | Reduced Vertic (F18) (MLRA 150A, 150B) | | |
| Sandy Redox (S5) | Piedmont Floodplain Soils (F19) (MLRA 14 | 9A) | |
| Stripped Matrix (S6) | Anomalous Bright Learny Soils (F20) (MLR. | A 149A, 153C, 153 | D) |
| Dark Surface (S7) (LRR P, S, T, U) | | | |
| Restrictive Layer (if observed): | | | |
| Туре: | | | \/ |
| Depth (inches): | | Hydric Soll Pres | sent? Yes NoX |
| Remarks: | | CALL DESCRIPTION OF THE | |
| Remarks. | | | |
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Upland data point wsuo025_u facing northeast.

| | Charles a secret year state | ND DETER | MINATIO | N DATA FO | | | | astaiP | | | 11 - 1 - 1 |
|--|--|--|--|------------------|---------------|--------------------------------|--|-------------|-----------------------------|-------------|--------------|
| Project/Site: | ACP | | | City | /County: _ | SUFFO | IK | | Sampling | Date: | 1/13/16 |
| Applicant/Owner: | Domi | nion | | | | | State: | VA | Sampling | Point W | sud 024f-1 |
| Investigator(s): | - RUDJ | er. 5. I | 05000 | A Sec | tion. Town | ship, Range: | | | | | |
| Landform (hillslope, t | larrana ata | Drai | nage | Loc | al relief (cr | ncave, conve | x none): | Non | e | Slope | (%) N/A |
| Subregion (LRR or M | errace, etc. | RRT | 1 100 9 | at:36.60 | 4193 | Long | -710 | 735 | 27 | Datur | m:W6584 |
| Soil Map Unit Name: | E - | 1. 100 | | | | Long. | | | cation: | DE | |
| Soil Map Unit Name: | LUND | 100 | | 110 30 | V V | properties and the contraction | NET CONTRACTOR | | | | |
| Are climatic / hydrolo | | | | | | No | (11 110, 6 | xpiaii ii i | Terriarks.) | van V | No |
| Are Vegetation | | | | | | | | | | | _ '' |
| Are Vegetation | | | | | | (if needed | | | | | |
| SUMMARY OF F | FINDINGS | S - Attach | site map | showing sa | mpling | point locat | ions, tr | ansect | s, impor | tant fea | tures, etc. |
| Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology | ? | Yes | | lo lo | | Sampled Area a Wetland? | | Yes_X | No. | | |
| Remarks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| NCWAI | M: H. | eadwate | ir Fore | st | | | | | | | |
| HYDROLOGY | | | | | | | | | | | |
| Wetland Hydrolog | v Indicator | s: | | | | | Secon | dary Indic | ators (mini | mum of ty | wo required) |
| Primary Indicators (| | | ed; check all | that apply) | | | | | Cracks (E | | |
| Surface Water | SERVICE STATE OF THE SERVICE S | | | Fauna (B13) | | | | | | | urface (B8) |
| High Water Tal | \$Q\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | posits (B15) (L | | | Control of the Contro | | atterns (B1 | | |
| Saturation (A3) |) | | Hydrog | en Sulfide Odor | (C1) | | 00000 | | Lines (B16 | | |
| X Water Marks (E | B1) | | | d Rhizospheres | | ng Roots (C3) | | | Water Ta | | |
| Sediment Depo | | | | ce of Reduced I | | | | | rrows (C8) | | (CO) |
| Drift Deposits (| | | | Iron Reduction | | oils (C6) | Library Transport | | Visible on A | | gery (Ca) |
| Algal Mat or Cr | | | | ick Surface (C7 | | | the Company of the Company | | c Position (uitard (D3) | | |
| Iron Deposits (| | | | Explain in Rema | arks) | | | | al Test (D5) | | |
| Inundation Visi | | |) | | | | | | moss (D8) | | U) |
| | Nov-Briandard Law Francis | 1 | | | | | 4 | phagham | | ohiya yaasa | |
| Surface Water Pres | | Ves A | o X De | pth (inches): _ | NA | | | | | | |
| Water Table Prese | | Yes X N | lo De | pth (inches): | 15 | | | | | | |
| Saturation Present | | A STATE OF THE PARTY OF THE PAR | The state of the s | pth (inches): | 6 | Wetland | Hydrold | gy Prese | ent? Yes | X | No |
| (includes capillary f | fringe) | | | | savious in | | | | | | |
| Describe Recorded | 1 Data (strea | ım gauge, mcı | nitoning well, | aenai priotos, p | ile vious iii | spectoris), ii a | valiable. | | | | |
| Remarks: | | • | | | | | | | | | |
| portions | -t | wetto | nd i | nunda | ted | | | | | | |
| Portione | , 0, | | | | | | | | | | |
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| 0 -0 -0 -0 -0 | Absolute | Dominant | Indicator | Dominance Test worksheet: | |
|--|---|-------------------------------------|---|--|--------|
| Tree Stratum (Plot size: 30 X30F+) | China Street Street Control Street Street | Waster Countries and Property Visit | Status | Number of Dominant Species | |
| 1. Liquidambar styraciflum | 5 | Y | FAC | That Are OBL, FACW, or FAC: | (A) |
| 2. Litiodendron tulipitera | 10 | 4 | FAC | Total Number of Dominant | |
| 3. Ilex opner | 5 | Y | FAC | Total Number of Dominant Species Across All Strata: | (B) |
| 4. | | | | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | (A/B) |
| 6. | | | | Illat Me OBL, FACW, a TAG. | (,,,,, |
| 7 | | | | Prevalence Index worksheet: | |
| STATE OF BUILDING A PROPERTY OF A PROPERTY OF A PUBLIC AND A PROPERTY OF | | | | Total % Cover of: Multiply by: | _ |
| 8. | 20 | = Total Co | | OBL species x 1 = | _ |
| 50% of total cover: | 1 | = Total Co | ver 4 | FACW species x 2 = | |
| 50% of total cover: | 20% of | total cove | - | FAC species x3 = | |
| Sapling/Shrub Stratum (Plot size: 30X30F+) | | 1 | EA O | FACU species x 4 = | 1.50 |
| 1. Ilex opaca | | 7 | FAC | UPL species x 5 = | |
| 2. Aur rubrum | _5_ | ٦ | FAC | Column Totals: (A) | |
| 3. Liquidambar styraciflua | 5 | 1 | FAC | Column Totals (^) | _ (5) |
| 4 | | | | Prevalence Index = B/A = | |
| 5. | | | | Hydrophytic Vegetation Indicators: | |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation | |
| 7. | | | | Z - Dominance Test is >50% | |
| A PROGRAMMA TO MENT THE PROGRAMMA AND AND AND AND A CHARGE TO AND AND A PERSONAL OF THE SECURIT. | | | | 3 - Prevalence Index is ≤3.01 | |
| 8. | 20 | = Total Co | | | -\ |
| 50% of total cover: | 200/ - | - Total Co | . A | Problematic Hydrophytic Vegetation¹ (Explai | m) |
| 20 V 3 OF total cover: 10 | 20% of | total cove | | | |
| Herb Stratum (Plot size: 30 X 3 OFY) | | V | FAC | Indicators of hydric soil and wetland hydrology n | nust |
| 1. Liquistrum sinense | 3 | - | | be present, unless disturbed or problematic. | |
| 2. Atundinaria gigantea | 15 | 7 | FACW | Definitions of Four Vegetation Strata: | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 | cm) or |
| 4. | | | | more in diameter at breast height (DBH), regard | ess of |
| 5. | | | | height. | |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines | less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall | |
| CONTRACTOR AND A SECURITION OF THE PROPERTY OF | | | | | edlasa |
| 8 | | | | Herb – All herbaceous (non-woody) plants, rega of size, and woody plants less than 3.28 ft tall. | raiess |
| 9. | | | | | |
| 10 | | | | Woody vine - All woody vines greater than 3.28 | ft in |
| 11. | | | A CONTRACTOR OF STATE | height. | |
| 12 | | | | | |
| | 10 | = Total Co | ver | Magnetic control of the Manager Control of the Cont | 100000 |
| 50% of total cover: | 20% of | total cove | r. <u>4</u> | | |
| Woody Vine Stratum (Plot size: 71 x 20ff) | | ~/ | | | |
| 1. Lunicera japonica | 10 | 1 | FACY | | |
| 2. Smilax rotundifolia | 15 | Y | FAC | | |
| THE STORE STORES SERVICE STORES TO AN ADVISOR STORES OF THE STORES OF TH | | | | | |
| 3. | | | | | |
| 4. | | 1013224 | | | |
| 5. | 150 | THE PERSON NAMED IN | CONTRACTOR OF THE PARTY OF THE | Hydrophytic | |
| 10.6 | 20 | = Total Co | wer 6 | Vegetation Present? Yes No | |
| 50% of total cover: \2.0 | 2 20% of | total cove | r | Trosente de la companya de la compan | |
| Remarks: (If observed, list morphological adaptations belo | ow). | | APRIL DE | | |
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| Profile Desc | ription: (Describe | to the dep | th needed to docum | | | or confirm | the absence o | findicators.) |
|--|--|----------------|--|---------------|------------|------------|--|--|
| Depth | Matrix Color (moist) | % | Color (moist) | Features % | Type | Loc² | Texture | Remarks |
| (inches) | 10 YR 3/2 | 97 | 10 YR 4/6 | 3 | C | PL | L | |
| 8-20 | 104831 | 97 | 10 YR4/6 | 3 | C | PL | 6 | |
| 0-60 | 1011011 | -1/- | 10 16 10 | | | | | |
| | | | | | 1000 | | | |
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| | | | | | | 1000 | 2 | Di Dona Linia a Maddateix |
| ¹Type: C=C | oncentration, D=Dep | oletion, RM= | Reduced Matrix, MS LRRs, unless other | S=Masked | Sand Gra | ains. | Indicators f | PL=Pore Lining. M=Matrix. or Problematic Hydric Solis ³ : |
| | | able to all | Polyvalue Be | | | RRS T. U) | | uck (A9) (LRR O) |
| Histosol | oipedon (A2) | | Thin Dark Su | | | | 2 cm M | uck (A10) (LRR S) |
| Victorial designation of the con- | stic (A3) | | Loamy Mucky | | | | Reduce | d Vertic (F18) (outside MLRA 150A,B) |
| Hydroge | n Sulfide (A4) | | Loamy Gleye | | F2) | | | nt Floodplain Soils (F19) (LRR P, S, T) |
| | Layers (A5) | | Depleted Mat | | C) | | and the state of t | ous Bright Loamy Soils (F20) A 153B) |
| | Bodies (A6) (LRR Facky Mineral (A7) (L | | Redox Dark S Depleted Dar | | | | | rent Material (TF2) |
| | esence (A8) (LRR L | | Redox Depre | | | | | nallow Dark Surface (TF12) |
| A PROPERTY OF STREET STREET, S | ick (A9) (LRR P, T) | | Marl (F10) (L | RR U) | | | Other (E | Explain in Remarks) |
| | d Below Dark Surface | ce (A11) | Depleted Oct | | | | . 3 ₁₋₄ | tors of hydrophytic vegetation and |
| | ark Surface (A12) | | Iron-Mangano | | | | | ators of hydrophytic vegetation and and and hydrology must be present, |
| Visionista, in telephonic | rairie Redox (A16) (Jucky Mineral (S1) (| | Umbric Surfa Delta Ochric | | | , 0, | | ss disturbed or problematic. |
| Comment of the Commen | Gleyed Matrix (S4) | LILIN 0, 0, | Reduced Ver | | | OA, 150B) | | |
| Committee of the Commit | Redox (S5) | | _ Piedmont Flo | odplain S | oils (F19) | (MLRA 149 | A) | |
| 12 0 000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Matrix (S6) | | Anomalous B | right Loan | ny Soils (| F20) (MLRA | A 149A, 153C, | 153D) |
| | rface (S7) (LRR P, | | | | | | | |
| | Layer (if observed) | | | | | | | |
| Type: | ches): | | | | | | Hydric Soll I | Present? Yes X No |
| Remarks: | cires) | 20045031010000 | | r september | | | Maria Periodo Maria | |
| Remarks. | | | | | | | | |
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Wetland data point wsuo024f_w facing north.



Wetland data point wsuo024f_w facing east.

| | AND DETERMINATION | ON DATA FOR | M – Atlanti | ic and Gu | III Coas | | | |
|--|--|---|---|----------------|--|--|---|-----------|
| Project/Site: | | City/0 | County: | HOI | 1 | Samp | oling Date 0 (/ | 13/16 |
| Applicant/Owner: DIN | MOIMI | | | 5 | State: | Samp | oling Point: WSL | 10 024-1 |
| Investigator(s): L-Rope | r c. Tarofa | Sacti | on Townshin | | | | | |
| Landform (hillslope, terrace, et | Hillcland | Local | rollof (concau | in convey ! | none): \ | none | Slope (% | , NIA |
| Landform (hillslope, terrace, et | | Lat: 30. 60 | 1 0 2 | e, convex, i | 6 720 | 27 | Datum: | MGCB- |
| Subregion (LRR or MLRA): | CKKI | Lat: 50.00 | 11 10 | _ Long: _I | 0.100 | 120 | | |
| Soil Map Unit Name: EUN | | | | | | | | 410 |
| Are climatic / hydrologic condit | ions on the site typical for | this time of year? Y | res_X N | 0(| if no, expla | ain in Remark | s.) V | |
| Are Vegetation, Soil | , or Hydrology | significantly distur | bed? A | re "Normal | Circumsta | nces" presen | 17 Yes | No |
| Are Vegetation, Scil | , or Hydrology | _ naturally problem | atic? (I | If needed, e | xplain any | answers in R | lemarks.) | |
| SUMMARY OF FINDING | 3S – Attach site ma | p showing san | npling poir | nt locatio | ns, tran | sects, imp | ortant featu | res, etc. |
| Hydrophytic Vegetation Pres | ent? Yes X | No | Is the Samp | | | | | |
| Hydric Soil Present? | Yes Yes | | within a We | tland? | Ye | s | No | |
| Wetland Hydrology Present? Remarks: | Yes | NO X | | | | | | |
| HYDROLOGY Wetland Hydrology Indicat Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on As Water-Stained Leaves (I | of one is required; check a Aqua Mari Hydro Oxidi Prese Rece Thin to Other | all that apply) tic Fauna (B13) Deposits (B15) (LR ogen Sulfide Odor (zed Rhizospheres a ence of Reduced Iro nt Iron Reduction in Muck Surface (C7) r (Explain in Remark | C1) along Living R on (C4) Tilled Soils (C | cots (C3) | Surfa Spars Drain Moss Dry-S Crayf Satur Geon Shalld | ce Soil Crack sely Vegetate age Patterns Trim Lines (E eason Water ish Burrows (ation Visible of norphic Positi ow Aquitard (i Neutral Test | d Concave Surfa (B10) B16) Table (C2) C8) on Aerial Imager on (D2) D3) | ace (B8) |
| Surface Water Present? | Yes No_XI | Depth (inches): | VA | | | | | |
| Water Table Present? | Yes No X | | 120 | | | | | ., |
| Saturation Present? | Yes No_X_ I | | 720 | Wetland H | lydrology | Present? | Yes No | ·X |
| (includes capillary fringe) Describe Recorded Data (str | eam gauge, monitoring we | II. aerial photos, pre | evious inspect | ions), if avai | ilable: | | | |
| Remarks: | | | | | | | | |

| Sampling Point: | Wsuo | Ozr | 1- | U |
|-----------------|------|-----|----|---|
|-----------------|------|-----|----|---|

| 20120ft | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|--|-------------------|---|---|
| Tree Stratum (Plot size: 30 X 30 ft) | | Species | | Number of Dominant Species 5 |
| 1. tagus granditolia | 16 | <u> </u> | FACU | That Are OBL, FACW, or FAC: (A) |
| 2. Ilex opaca | 10 | 7 | FAC | Total Number of Dominant |
| 3. Liriodendron tulipifera | 10 | 4 | FACU | Total Number of Dominant Species Across All Strata: (B) |
| 4. | | | | |
| | | | | Percent of Dominant Species That Are OBL FACW or FAC: 63% (A/B) |
| 5. | | | | That Are OBL, FACW, or FAC: |
| 6. | | | | Prevalence Index worksheet: |
| 7. | | | | Total % Cover of: Multiply by: |
| 8. | 70 | | | OBL species x1 = |
| | 30 | = Total Co | ver . | |
| 50% of total cover:\S | 20% of | total cover | r. Q | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30 x 30ft) | | | | FAC species x 3 = |
| 1. Acer rubrum | 5 | Y | FAC | FACU species x 4 = |
| The Tier | - 5 | Y | FAC | UPL species x 5 = |
| 2. Ilex ppaca | | | 11.0 | Column Totals: (A) (B) |
| 3. | | | | |
| 4. | THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW | | THE STREET | Prevalence Index = B/A = |
| 5. | MICHAEL | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | 2 - Dominance Test is >50% |
| в. | | | | 3 - Prevalence Index is ≤3.0¹ |
| | 10 | = Total Co | vor | |
| 50% of total cover: | 2 2004 -4 | - Idai Co | 2 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% 01 | total cove | - | |
| Herb Stratum (Plot size: 30 X 30 FF) | - | . [| TACO | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 5 | - | FACW | be present, unless disturbed or problematic. |
| 2. | | M. Halinest | | Definitions of Four Vegetation Strata: |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | STREET, STATE | | | more in diameter at breast height (DBH), regardless of |
| 125 November 1914 and the contract of the cont | | | THE PARTY | height. |
| 5 | | | | |
| 6. | | | A THE RESERVE OF STREET | Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. | | | | than 3 iii. DBH and greater than 3.20 it (1 m) tail. |
| B | | and the second | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 100 N. Comparison of the season of the seaso | | | | |
| 12 | | T-1-1 C- | STATE OF STREET | |
| 2 (| of Wart and Garage Continues and July 2 | = Total Co | | |
| 50% of total cover: 2.9 | 20% of | total cove | - | |
| Woody Vine Stratum (Plot size: 30x30ft) | | N | -AA | |
| 1. Smilax rotundifolia | 10 | _ \ | FAC | |
| 2 Lonicera japonica | 10 | Y | FACU | |
| 3 | | | | |
| | TRAME. | A CONTRACTOR | | |
| | | | THE ROLL OF | |
| 5, | 20 | Control States of | A TOP TO STATE OF THE STATE OF | Hydrophytic |
| 1.7 | | = Total Co | SOUTH SERVICE | Vegetation Present? Yes No No |
| 50% of total cover: | 20% of | total cove | r: | Present res 747 ns |
| Remarks: (If observed, list morphological adaptations belo | ow). | | | |
| A STATE OF THE STA | | | | |
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| Profile Description: (Describe to the depth needed to document the indicator or confirm | the absence of indicators.) |
|--|--|
| Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc² | Texture Remarks |
| (inclies) Coda (inclies) | Fine SL |
| The state of the s | Fine Sand |
| 6-20 10 /R 6/6 100 | 10.0 |
| | |
| | The second secon |
| | |
| | |
| | The state of the s |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) — Polyvalue Below Surface (S8) (LRR S, T, U Histic Epipedon (A2) — Thin Dark Surface (S9) (LRR S, T, U) | I) 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) |
| Histic Epipedon (A2) — Hin Dark Surface (S9) (LRR S, T, U) — Loamy Mucky Mineral (F1) (LRR O) | Reduced Vertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) | Piedmont Floodplain Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) Depleted Matrix (F3) | Anomalous Bright Loamy Soils (F20) |
| Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) | (MLRA 153B) Red Parent Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Redox Depressions (F8) | Very Shallow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) | Other (Explain in Remarks) |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) | T) ³ Indicators of hydrophytic vegetation and |
| Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) | wetland hydrology must be present, |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) | unless disturbed or problematic. |
| Sandy Gleved Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) | |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 14 | (9A) |
| Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLR | A 149A, 153C, 153D) |
| Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): | |
| Type: | \1 |
| Depth (inches): | Hydric Soll Present? Yes NoX |
| Remarks: | |
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| ** The state of th | |



Upland data point wsuo024_u facing west.



Upland data point wsuo024_u facing south.

| Project/Site: ACP | City/County: 5 of for K Sampling Date: 11015 |
|--|--|
| Applicant/Owner: Dominion | State: V A Sampling Point: W5 wb DZZ£. |
| Investigator(s): L.Roper, R. Turnbull | |
| Investigator(s): LICOPET F. 10(MOUT | Section, Township, Range: VIDIO |
| Landform (hillslope, terrace, etc.): + 12+ | Local relief (concave, convex, none): Slope (%): |
| | 69543 Long: -76,73666 Datum: W6584 |
| Soil Map Unit Name: Rains fine sandy loar | NWI classification: PFO |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ear? 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 pro | oblematic? (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 X No | Is the Sampled Area |
| Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No | within a Wetland? Yes No |
| Remarks: | |
| NCWAM: Pine Flat | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Secondary Indicators (Hillimmin of two regalites) |
| Surface Water (A1) Aquatic Fauna (B1) | |
| High Water Table (A2) Mari Deposits (B15 | 5. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| Saturation (A3) Hydrogen Sulfide C | - 1997年 - 19 |
| 를 하는 경영화 항상 및 경영화 경기 시간 기계 등 및 기계 등 이 보고 있다. 기계 등 기계 | eres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | 그 19 20년 전에 다시 아내가 아내가 되었다. 그 나는 내가 있는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 |
| 를 보고 있는데 보고 있는데 보고 있는데 보고 있는데 보고 있는데 보고 있다. 그리고 있는데 보고 있는데 보고 있는데 보고 있는데 보고 있는데 보고 있는데 없는데 없는데 없는데 없다면 없었다. 네트 | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | (C7) Geomorphic Position (D2) |
| ☐ Iron Deposits (B5) ☐ Other (Explain in R | Remarks) Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: |): NA |
| Surface Water Present? Yes No _X Depth (inches) | /· |
| Water Table Present? Yes X No Depth (inches) | |
| Saturation Present? Yes X No Depth (inches) (includes capillary fringe) |): Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if available: |
| | |
| Remarks: | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| 2.0. 2-1. | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|-------------|-----------|---|
| Tree Stratum (Plot size: 30fl x 30fl) | | Species? | | Number of Dominant Species |
| 1. Pinus taeda | 20 | | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Ilex opala | 10 | | FAL | Total Number of Dominant |
| 3. Quercus falcata | 15 | <u>y</u> | FACU | Species Across All Strata: (B) |
| 4 | | | | Persont of Deminant Species |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | |
| 7. | | | | Prevalence Index worksheet: |
| 8. | # 16 mm | | | Total % Cover of: Multiply by: |
| | 45 | = Total Co | ver . | OBL species x 1 = |
| 50% of total cover: 22 | | | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30f+ x 30f+) | 2070 01 | total cover | | FAC species x 3 = |
| | | | | FACU species x 4 = |
| 1. none | | | | UPL species x 5 = |
| 2 | | | | Column Totals: (A) (B) |
| 3 | | | | |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | | = Total Co | ver | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of | total cover | : | |
| Herb Stratum (Plot size: 30ff x 30ff) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 40 | Y | FACW | be present, unless disturbed or problematic. |
| 2. | | | | Definitions of Four Vegetation Strata: |
| 3 | | | | |
| | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of height. |
| 5 | | | | noight. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | | <u> </u> | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | | | | |
| | 40 | = Total Co | ver | |
| 50% of total cover: 20 | | total cover | fin. | |
| Woody Vine Stratum (Plot size: 30ff x 30ff) | | 10101 00101 | | |
| 1. Smilax rotundifolia | 15 | V | FAC | 5 11 11 11 11 11 |
| | | - | 17.0 | |
| 2 | | | | |
| 3 | | | | x1 x1 |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | | = Total Co | ver | Vegetation Present? Yes X No |
| 50% of total cover: 7.5 | 20% of | total cover | :_3 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations below | w). | 20 × 1 = 1 | | Will be a second with the second second |
| | | | | |
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| Depth | cription: (Describe Matrix | | Redo | x Feature | S | | | | | |
|---|--|---|--|---|--|---|--|---|--|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | _Loc ² | Texture | | Remarks | h 1 |
| 0-4 | 101K2/1 | 100 | | | | | <u>5L</u> | higho | rganil | content |
| 4-8 | 2.54412 | 100 | | - | | | SL | | , | |
| 8-20 | 2.5142 | 60 | 104K 6/4 | 30 | - | M | SL | | | |
| | | | 7.5 YR4/6 | 5 | C | M | | | | |
| | | | 2.544/1 | .5 | D | M | | | | |
| | | | | 1 10 | | | | | | |
| | oncentration, D=Dep | | | | | ains. | | | ining, M=Matri | |
| Histosol Histic E Black Hi Hydroge Stratified Organic 5 cm Mi Muck Pi 1 cm Mi Depleted Thick Di | Indicators: (Applications) (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P. ucky Mineral (A7) (LF resence (A8) (LRR U uck (A9) (LRR P, T) d Below Dark Surface ark Surface (A12) rairie Redox (A16) (Mucky Mineral (S1) (LR) | , T, U) RR P, T, U)) e (A11) MLRA 150/ | Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan A) Umbric Surfa Delta Ochric | elow Surfa urface (S9) by Mineral ed Matrix (F3) Surface (F rk Surface essions (F- LRR U) hric (F11) lese Massace (F13) ((F17) (ML | ce (S8) (L) (LRR S, (F1) (LRR F2) (6) (F7) 8) (MLRA 15 es (F12) (I (LRR P, T, | T, U) O) S1) LRR O, P, T U) | 1 cm l 2 cm l Reduct Piedm Anom (ML Red F Very S Other | Muck (A9) (I Muck (A10) (ced Vertic (Footh Floodpla alous Bright RA 153B) Parent Mater Shallow Dark (Explain in I cators of hydrol | (LRR S) (18) (outside Main Soils (F19) Loamy Soils (F19) (ial (TF2) k Surface (TF1 | MLRA 150A,E (LRR P, S, T F20) 2) ation and resent, |
| Sandy M Sandy G Sandy F Stripped Dark Su | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S | | Reduced Ve | oodplain S | oils (F19) | (MLRA 149 | 9A) A 149A, 1530 | C, 153D) | | V Was |
| Sandy M Sandy G Sandy F Stripped Dark Su | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy G Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy G Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy G Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy C Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Su estrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |
| Sandy M Sandy F Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Flo | oodplain S | oils (F19) | (MLRA 149 | A 149A, 153C | | Yes X | No |



Wetland data point wsuo022f_w facing north.



Wetland data point wsuo022f_w facing west.

| Project/Site: ACP | City/County: Soffolk Sampling Date: 1/6/16 |
|---|--|
| Applicant/Owner: Pominion | State: V A Sampling Point: wsus 0222_ |
| Investigator(s): L. Roper, R. Turnbull | Section, Township, Range: NDNC |
| Landform (hillslope, terrace, etc.): flat | Local relief (concave, convex, none): None Slope (%): 0-2 |
| Subregion (LRR or MLRA): LRRT Lat: | 36.69538 Long: -76.73662 Datum: W658 |
| Soil Map Unit Name: Rains Sandy los | AND THE RESERVE OF THE PROPERTY OF THE PROPERT |
| | |
| 장마이 아이를 하고 있다. 이번 집에 가는 아이들이 나는 사람이 없는 사람들이 살아 있다. | ne of year? Yes No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology signif | |
| Are Vegetation, Soil, or Hydrology natur | rally problematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map sho | owing sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? YesX No | |
| Hydric Soil Present? Yes No | y is the sampled Area |
| Wetland Hydrology Present? Yes X No | within a Wetland? Yes No |
| Remarks: | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that | |
| Surface Water (A1) | HANG NATURE (1985) [1985] [19 |
| [1] | its (B15) (LRR U) Drainage Patterns (B10) Mana Trim Lines (B10) |
| | sulfide Odor (C1) |
| | f Reduced Iron (C4) Crayfish Burrows (C8) |
| [1] | Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | Surface (C7) Geomorphic Position (D2) |
| [Hands of the control of the contro | ain in Remarks) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) Field Observations: | Sphagnum moss (D8) (LRR T, U) |
| | (inches): NA |
| Surface Water Present? Yes No X Depth (Water Table Present? Yes X No Depth (| (inches): 14 |
| Saturation Present? Yes X No Depth (| (inches): 500 Face Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aeria | al photos, previous inspections), if available: |
| Remarks: | |
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VEGETATION (Four Strata) - Use scientific names of plants.

| 12:5 12:5 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|---------------|-------------|-----------|--|
| Tree Stratum (Plot size: 30ff x 30ff) | | Species? | | Number of Dominant Species |
| 1. Pinus taeda | 20 | <u>Y</u> | FAC | That Are OBL, FACW, or FAC:(A) |
| 2. Ilex opaca | 10 | <u> </u> | FAC | Total Number of Dominant |
| 3. Liquidambar styraciflua | 10 | | FAC | Species Across All Strata: (B) |
| 4. | | | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | That Ale OBL, FACVY, OF FAC. |
| 7. | | | | Prevalence Index worksheet: |
| | | | | Total % Cover of: Multiply by: |
| 8. | TID | | - | OBL species x 1 = |
| 7.0 | | = Total Cov | | FACW species x 2 = |
| 50% of total cover: 20 | 20% of | total cover | -0 | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | | -10.113 | FACU species x 4 = |
| 1. Fagus grandifolia | _5_ | <u> </u> | FACU | |
| 2. Valcinium corymbosum | 5 | <u> </u> | FACW | UPL species x 5 = |
| 3. | | | | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | |
| | | 7 30 10 | | |
| 8 | ID | = Total Cov | OF F E 2 | 3 - Prevalence Index is ≤3.01 |
| | 10 | | 4079 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 5 | 20% of | total cover | | |
| Herb Stratum (Plot size: 30ft x30ft) | 11. | V | chell. | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 40 | 1_ | FACW | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3. | | | 325 | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| 6. | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | |
| | | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9 | | | | of size, and woody plants less than 6.20 it tall. |
| 10 | | - | | Woody vine – All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12 | 110 | | | |
| | | = Total Cov | ver | |
| 50% of total cover: 20 | 20% of | total cover | -8_ | |
| Woody Vine Stratum (Plot size: 30ft x30ft) | | | -10.0 | 7 (0 <u>10 2 ii</u> ii |
| 1. Smilax rotundifolia | 10 | | FAC | |
| 2. | 313 | | THE OTHER | |
| 3 | E District No | | | |
| 4. | 100000 | | | |
| | - | 21 5 30 1 3 | | |
| 5 | 10 | = Total Cov | | Hydrophytic Vegetation |
| G | | | 7 | Present? Yes X No |
| 50% of total cover: | | total cover | | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | W 0.51 II |
| | | | | |
| | | | | |
| | | | | |

| Matrix Redox Features Texture Remark Texture Remark Texture Texture Texture Texture Remark Texture | Matrix. dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, Toils (F20) |
|--|--|
| C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Stosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Indicators for Problematic Hydrology (LRR S, T, U) Indicators for Problematic Hydrology (LRR S, T, U) Indicators for Problematic Hydrology (LRR S, T, U) I cm Muck (A9) (LRR O) I cm Muck (A9) (LRR P, T, U) I cm Muck (A9) (LRR O) I cm Muck (A9) (LRR P, T, U) I cm Muck (A9) (LRR P, T) I cm Muck (A9) (LRR O) I cm Muck (A9) (LRR P, T) I cm Muck (A9) (LRR P, T) I cm Muck (A9) (LRR O) I cm Muck (A9) (LRR P, T) I cm M | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydistosol (A1) Stic Epipedon (A2) Indicators for Problematic Hydistosol (LRR S, T, U) Indicators for Problematic Hydistosol (LRR S) Indicators for Problemati | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrosol (A1) Indicators for Problematic Hydrosol (A2) Indicators for Problematic Hydrosol (A3) Indi | dric Solls ³ : ide MLRA 150A, F19) (LRR P, S, T pils (F20) |
| Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Ganic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be | F19) (LRR P, S, 1 pils (F20) |
| Loamy Mucky Mineral (F1) (LRR O) drogen Sulfide (A4) attified Layers (A5) ganic Bodies (A6) (LRR P, T, U) m Mucky Mineral (A7) (LRR P, T, U) pack Presence (A8) (LRR U) m Muck (A9) (LRR P, T) pleted Below Dark Surface (A12) ast Prairie Redox (A16) (MLRA 150A) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Depleted Matrix (F2) Piedmont Floodplain Soils (F Anomalous Bright Loamy So (MLRA 153B) Red Ox Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (Other (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) ast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be | F19) (LRR P, S, 1 pils (F20) |
| drogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) ganic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Im Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Redox Depressions (F8) Im Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) ast Prairie Redox (A16) (MLRA 150A) Depleted Matrix (F2) Redox Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (Other (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be | F19) (LRR P, S, 1 pils (F20) |
| Depleted Matrix (F3) Ganic Bodies (A6) (LRR P, T, U) Ganic Bodies (A6) (MLRA 153B) Gani | oils (F20) |
| ganic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Redox Dark Surface (F6) Redox Dark Surface (F7) Very Shallow Dark Surface (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) ast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be | |
| Em Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (Were Shallow Dark Surface (Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) ast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be | (TF12) |
| Ick Presence (A8) (LRR U) Redox Depressions (F8) Wery Shallow Dark Surface (On the respect to | (TF12) |
| m Muck (A9) (LRR P, T) | (TF12) |
| pleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) ick Dark Surface (A12) ast Prairie Redox (A16) (MLRA 150A) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) "Indicators of hydrophytic v wetland hydrology must be approximately a surface (F13) (LRR P, T, U) | |
| ick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR P, T, U) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese (F12) (LRR O, P, T) Iron-Ma | |
| ast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be | |
| | CAL THE STREET, STREET |
| ndy Mucky Mineral (S1) (LRR 0, S) Delta Ochric (F17) (MLRA 151) unless disturbed of proble | A CONTRACTOR OF THE PARTY OF TH |
| 성당 (Self) : [1] [1] [1] [1] [1] [1] [1] [1] [1] [1] | emanc. |
| ndy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Reduced Vertic (F18) (MLRA 150A, 150B) | |
| ndy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) | |
| ipped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) | |
| rk Surface (S7) (LRR P, S, T, U) tive Layer (if observed): | |
| | |
| e: | No X |
| th (inches): Hydric Soil Present? Yes | No |
| ks: | |
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Upland data point wsuo022_u facing south.



Upland data point wsuo0022_u facing east.

| Project/Site: ACP Applicant/Owner: Dominion Investigator(s): Likoper, R. Turnbull Section Landform (hillslope, terrace, etc.): flood plain Local Subregion (LRR or MLRA): Left Lat: 36.70. Soil Map Unit Name: Levy 5 if Clay loam Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation, Soil, or Hydrology significantly disturb Are Vegetation, Soil, or Hydrology naturally problems | State: V H Sampling Point: W540023F Don, Township, Range: ND NE relief (concave, convex, none): CD ncove Slope (%): D-3 1/1 3 2 5 Long: 7 6 7 3 2 4 5 Datum: W63 84 NVI classification: PFO es X No (If no, explain in Remarks.) bed? Are "Normal Circumstances" present? Yes X No bed? No Sampling Point: W540023F Done Slope (%): D-3 1/1 Datum: W63 84 NO Section PFO |
|---|--|
| SUMMARY OF FINDINGS – Attach site map showing sam | ppling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes X No Yes X No No | Is the Sampled Area within a Wetland? YesX No |
| NCWAM: Riverine Swamp Forest | |
| Beaver activity | |
| HYDROLOGY Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Field Observations: Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Marl Deposits (B15) (LRF Hydrogen Sulfide Odor (C Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark | C1) |
| Surface Water Present? Yes No Depth (inches): Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, present) | Wetland Hydrology Present? Yes X No |
| Portions of wetland inundat | red |

| Absolute | | | Dominance Test worksheet: | THE PARTY | 376 |
|----------|---|---------------|--|---|---|
| 10 | Species? | | Number of Dominant Species | 7 | (A) |
| | | | That Are OBL, FACVV, or FAC. | - | _ (^) |
| | - / | | Total Number of Dominant | 7 | (D) |
| 10 | | | Species Across All Strata: | - | _ (B) |
| | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | _ (A/B) |
| | | | Prevalence Index worksheet: | | |
| | | | | Multiply by: | |
| LID | | | | | 7 000 |
| | | | | | |
| 20% of | total cover | | The Birth Children Christian III and the second of the sec | 100000000000000000000000000000000000000 | |
| , | V | rn/ | | | |
| | | | | | |
| | | | | | |
| | | | Column rotals (v) | | (5) |
| | | | Prevalence Index = B/A = _ | | |
| | | | | | N. L. |
| | | | | Vegetation | |
| | | | 2 - Dominance Test is >50% | | |
| _ | | | ☐ 3 - Prevalence Index is ≤3.01 | | |
| | | | Problematic Hydrophytic Vege | etation1 (Expl | ain) |
| 20% of | total cover | | | | |
| 1 4 | V | -11.1.1 | ¹ Indicators of hydric soil and wetla | nd hydrology | must |
| 10 | | FHUN | TOTAL CAMBRICATION OF CONTRACTOR OF A 167 | | |
| | | | Definitions of Four Vegetation S | trata: | |
| | | | Tree - Woody plants, excluding vi | nes, 3 in. (7. | 6 cm) or |
| | | | more in diameter at breast height height. | (DBH), regar | dless of |
| | | | Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than 3 | xcluding vine 28 ft (1 m) ta | es, less all. |
| | | | Herb – All herbaceous (non-wood | y) plants, reg | ardless |
| | | | of size, and woody plants less that | n 3.28 it tail. | |
| | | | | eater than 3.2 | 28 ft in |
| | | - | height. | | |
| 15 | | | = | | |
| | | -49 | | | |
| 20% of | total cover | 600 | | | |
| 10 | V | EA | | | |
| 10 | | FILE | | | |
| | | | | | |
| 40 | | | | | |
| | | | | | |
| | | | | | |
| 10 | V-12- 1 | | Hydrophytic | | |
| | = Total Cov | 100 | Vegetation | No | |
| | Cover O O O O O O O O O | Species? O | Cover Species? Status FAC | Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: I DD |

| rofile Desc Depth | Matrix | | Red | lox Feature | S | | | | | |
|---|--|------------------------|--|---|---|---|--|--|--|--|
| inches) | Color (moist) | % | Color (moist) | % | Type ¹ | _Loc ² | Texture | | Remarks | eradin'i kran |
| 0-6 | 2.5 4 2.5/ | 100 | | | | | mocky | loam | - 72 4.0 | |
| 6-20 | 2.543/1 | 100 | | | | | 5L' | - | | |
| | | | | | | | | <u> </u> | | |
| ydric Soil I Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pri 1 cm Mu Depleted Thick Da Coast Pr Sandy M | oipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) Bodies (A6) (LRR P, locky Mineral (A7) (LR esence (A8) (LRR U lock (A9) (LRR P, T) I Below Dark Surface lark Surface (A12) rairie Redox (A16) (M lucky Mineral (S1) (L | T, U) R P, T, U) (A11) | RRs, unless oth Polyvalue E Thin Dark S Loamy Muc Loamy Gle Depleted M Redox Darl Depleted D Redox Dep Marl (F10) Depleted O Iron-Manga Umbric Sur Delta Ochri | erwise note Below Surfa Surface (S9) Sky Mineral yed Matrix (F3) & Surface (F ark Surface ressions (F- (LRR U) chric (F11) inese Massiface (F13) (c (F17) (ML | ed.) ce (S8) (L) (LRR S, (F1) (LRR F2) (6) (F7) 8) (MLRA 19 es (F12) ((LRR P, T. | RR S, T, U T, U) O) 51) LRR O, P, | Indicators 1) 1 cm 2 cm Reduction Anom (ML Red F Very S Other T) 3Indi | for Proble Muck (A9) (I Muck (A10) Ced Vertic (F nont Floodpl alous Bright RA 153B) Parent Mater Shallow Darl (Explain in l cators of hydrol | (LRR S) F18) (outside M ain Soils (F19) Loamy Soils (F19) ital (TF2) k Surface (TF1 | MLRA 150A, (LRR P, S, 7) F20) 2) tation and resent, |
| Sandy R Stripped | sleyed Matrix (S4) redox (S5) Matrix (S6) | | Piedmont F | loodplain S | oils (F19) | | 9A) A 149A, 1530 | C, 153D) | | |
| Sandy R Stripped Dark Sur estrictive L Type: | edox (S5) | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes_X_ | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes_X_ | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes_X_ | No |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Sur Strictive L Type: | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |
| Sandy R Stripped Dark Surestrictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (if observed): | | Piedmont F | loodplain S | oils (F19) | | A 149A, 1530 | | Yes X | No |



Wetland data point wsuo023f_w facing southeast.



Wetland data point wsuo023f_w facing northeast.

| Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Nansemo Are climatic / hydrologic conditions on the Are Vegetation, Soil, or H Are Vegetation, Soil, or H | Turnbull second local second lo | tion, Township, Range: al relief (concave, convex 0330 | none : CONVEX Slope (%): 3-5 -76, 732,540 Datum: W65.89 |
|---|--|---|--|
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | Yes No Yes No Yes No | Is the Sampled Area within a Wetland? | Yes NoX |
| HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | Aquatic Fauna (B13) Marl Deposits (B15) (Lf Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced li Recent Iron Reduction | (C1) along Living Roots (C3) ron (C4) in Tilled Soils (C6) | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) |
| Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagen Water-Stained Leaves (B9) | Thin Muck Surface (C7, Other (Explain in Rema y (B7) | | Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) |
| Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge | No X Depth (inches): | >20 >20 Wetland | Hydrology Present? Yes No |
| Remarks: | | | |

| 0.01.00.01 | Absolute | Dominan | Indicator | Dominance Test worksheet: |
|--|------------------------|-----------------------------|-----------|--|
| Tree Stratum (Plot size: 30ft x30ft) 1. Pinus tacda | 10 | Species' | Status | Number of Dominant Species That Are OBL, FACW, or FAC: |
| 2. Liquidambar styraciflua 3. avercus alba | 10 | <u>y</u> | FACU | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 711/ (A/B) |
| 6. | | | | |
| 7. | | | | Prevalence Index worksheet: |
| 8. | | | | Total % Cover of: Multiply by: |
| | 30 | = Total Co | ver | OBL species x1 = |
| 50% of total cover: 15 | 20% of | total cove | r. 6 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30f4 x 30f4) | | | | FAC species x 3 = |
| 1. Fugus grunditolia | 10 | <u> </u> | FACU | FACU species x 4 = |
| 2. Ilex opara | 10 | Y | FAC | UPL species x5 = |
| 3. | THE NAME OF | | | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| 6. | 110 - 10 15 1 1 0 | MANAGEMENT TO STATE OF | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | ≥ 2 - Dominance Test is >50% |
| 8. | 20 | Statement State | - | 3 - Prevalence Index is ≤3.0¹ |
| | | = Total Co | | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 10 | 20% of | total cove | | |
| Herb Stratum (Plot size: 30ff x 30ff) | | V | Engl | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | _5_ | | THOW | be present, unless disturbed or problematic. |
| 2. | | | - 100 | Definitions of Four Vegetation Strata: |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | Commence of the commence of | | height. |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | | Taple Was | | |
| | CHARLEST SEATON IN THE | = Total Co | ver | |
| 50% of total cover: 2 . 5 | | | | |
| Woody Vine Stratum (Plot size: 30 Ft. x 30ft.) | | | | |
| 1. Smilax rotundifolia | 5 | Y | FAL | |
| 2 | | TEMPS NA | | |
| The form that the property of the second country Appropriately appropriate transfer to the property of the pro | THE PERSON NAMED IN | STATISTICS. | | |
| 3. | 44.50.77 | 77977 | | |
| 4. | | Carlotte St. | - HERE | |
| | 5 | = Total Co | 40.5 | Hydrophytic Vegetation |
| 50% of total cover: 2.5 | | | | Present? Yes No No |
| Participation of the committee of the participation of the committee of th | | total cove | | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
| | | | | |
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| | | | | |
| [18] [18] [18] [18] [18] [18] [18] [18] | | | | |

| 5 2575/2 100 LS 8 257/6/3 100 S | | Matrix | | Redox Feature | T | Taytura | Remarks |
|--|---|---|---|---|--|---|---|
| C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Stosol (A1) | es) | Color (moist) | - % - | Color (moist) % | Type Loc2 | Texture | Kelliaika |
| C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Soli Indicators: (Applicable to all LRRs, unless otherwise noted.) Stics Epipedon (A2) ack Histic (A3) ydrogen Sulfide (A4) ratified Layers (A5) cm Mucky Mineral (A7) (LRR P, T, U) cm Muck (A9) (LRR P, T, U) midicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, E) Piedmont Floodplain Soils (F19) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Pindicators of Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR P) Reduced Vertic (F18) (outside MLRA 150A, E) Piedmont Floodplain Soils (F19) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Pindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. | - | / | | | | 1 | |
| C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. 2 Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) stosol (A1) | 8 | | | | | | |
| Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Stosol (A1) Stosol (A2) Stosol (A2) Stosol (A3) Stosol (A2) Stosol (A2) Stosol (A2) Stosol (A3) Stosol (A2) Stosol (A3) Stosol (A2) Stosol (A2) Stosol (A3) Stosol (A2) Stosol (A3) Stosol (A4) Stosol (A40) Stosol (A4 | 05 | 2.5/ 94 | 100 | | | | |
| | e: C=C lc Soll distoso distic E Black H dydrog Stratifie Organic o cm M Muck P I cm M Deplete Thick D Coast F Sandy | Concentration, D=Dep Indicators: (Applied I (A1) Spipedon (A2) Sistic (A3) En Sulfide (A4) Ed Layers (A5) E Bodies (A6) (LRR Foucky Mineral (A7) (Linesence (A8) (LRR P, T) Ed Below Dark Surface (A12) Prairie Redox (A16) (Mucky Mineral (S1) (| oletion, RM=l able to all L P, T, U) RR P, T, U) J) | RRs, unless otherwise no Polyvalue Below Surfi Thin Dark Surface (St Loamy Mucky Mineral Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface Redox Depressions (i Marl (F10) (LRR U) Depleted Ochric (F11 Iron-Manganese Mas Umbric Surface (F13) Delta Ochric (F17) (M | ted.) ace (S8) (LRR S, T, U) (F1) (LRR S, T, U) (F1) (LRR O) (F2) F6) e (F7) F8) (MLRA 151) ses (F12) (LRR O, P, (LRR P, T, U) LRA 151) | Indicators for P 1 cm Muck 2 cm Muck Reduced Ve Piedmont F Anomalous (MLRA 15 Red Parent Very Shallo Other (Expl | roblematic Hydric Solls ³ : (A9) (LRR O) (A10) (LRR S) Pric (F18) (outside MLRA 150A, E codplain Soils (F19) (LRR P, S, T Bright Loamy Soils (F20) (B18) Material (TF2) W Dark Surface (TF12) ain in Remarks) of hydrophytic vegetation and hydrology must be present, |
| ANY DESCRIPTION OF THE PROPERTY AND ADDRESS OF THE STATE | ype: | THE RESERVE OF THE PROPERTY OF THE PARTY OF | terrestore by their | | | Hydric Soll Pres | ent? Yes No X |
| Undel Sall Bracent2 Vec No X | | ncnes): | | | | Trydite Con 1763 | |
| pth (inches): No rks: Hydric Soil Present? Yes No | aiks. | | | | | | |
| pth (inches): Hydric Soil Present? Yes No | dirs. | | | | | | |



Upland data point wsuo023_u facing northwest.



| 1007 | N. Murphrey Section of Sandy Journ e typical for this time of year? Yology significantly disturbed ology naturally problem | ion, Township, Range: I relief (concave, convex, Long: Yes No rbed? Are "Norma | none): |
|--|---|--|---|
| Applicant Owner: Investigator(s): EST - M. S mith Landform (hillslope, terrace etc.): Subregion (LRR or MLRA): LRR T Soil Map Unit Name: Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic Summary OF FINDINGS - Attace | N. Murphrey Section of Sandy Journ e typical for this time of year? Yology significantly disturbed ology naturally problem | ion, Township, Range: I relief (concave, convex, Long: Yes No rbed? Are "Norma | State VA Sampling Point: WSupus A- NA none): Concave Slope (%) / -76. 723 O Datum: WGS S NWI classification: PFO 1/4 C (If no, explain in Remarks.) al Circumstances' present? Yes No |
| Investigator(s): EST - M. S mith Landform (hillslope, terrace, etc.): Head Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Pains Fine Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS - Attace | Lat: 36.710 Lat: 36.710 Sandy Dam e typical for this time of year? Yology significantly disturbled to the problem. | ion, Township, Range: I relief (concave, convex, Long: Yes No rbed? Are "Norma | N A , none): _concave Slope (%) _ / |
| Landform (hillslope, terrace, etc.): Head Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Pains Fine Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions On the sit Are Vegetation, or Hydrologic Conditions On the sit Are Vegetation, Soil, or Hydrologic Conditions On the Sit Are Vegetation, or Hydrologic Conditions On the Sit Are Vegetation, or Hydrologic Conditions On the Sit Are Vegetation, | Lat: 36.710 Lat: 36.710 Sandy Dam e typical for this time of year? Yology significantly disturbled to the problem. | relief (concave, convex, Long: | NWI classification: PFO 1/4 C (If no, explain in Remarks.) al Circumstances* present? Yes No |
| Subregion (LRR or MLRA): LRRT Soil Map Unit Name: Lains Fine Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS — Attac | Lat: 36.719 Sundy Journ e typical for this time of year? Yology significantly disturbled in the problem. | Yes No rbed? Are "Norma | NWI classification: PFO 1/4 C (If no, explain in Remarks.) al Circumstances* present? Yes No |
| Soil Map Unit Name: Rains Fine Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, or Hydrologic Conditions on the sit Are Vegetation | e typical for this time of year? Yology significantly distu | Yes No rbed? Are "Norma | (If no, explain in Remarks.) al Circumstances* present? Yes No |
| Soil Map Unit Name: Rains Fine Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, Soil, or Hydrologic Conditions on the sit Are Vegetation, or Hydrologic Conditions on the sit Are Vegetation | e typical for this time of year? Yology significantly distu | Yes No rbed? Are "Norma | (If no, explain in Remarks.) al Circumstances* present? Yes No |
| Are climatic / hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit Are Vegetation, Soil, or Hydrologic conditions on the sit are the sit and the sit are the sit and the sit are th | e typical for this time of year? Notice ology significantly distuicted ology naturally problem | Yes No rbed? Are "Norma | (If no, explain in Remarks.) I Circumstances* present? Yes No |
| Are Vegetation, Soil, or Hydro Are Vegetation, Soil, or Hydro SUMMARY OF FINDINGS — Attac | ology significantly distu ology naturally problem | rbed? Are "Norma | Circumstances" present? Yes No |
| Are Vegetation, Scil, or Hydro SUMMARY OF FINDINGS - Attac | ology naturally problem | | |
| SUMMARY OF FINDINGS – Attac | | auc? (ii needed, d | evoluin any answers in Remarks.) |
| | h cita man chawing car | | |
| Hydrochytic Vegetation Present? Y | it site map showing sai | npling point location | ons, transects, important features, etc. |
| | es No | to the Country Asses | |
| Hydric Soil Present? Y | es No | Is the Sampled Area | Yes No |
| | es No | within a Wetland? | Tes |
| Remarks: | | | |
| | | | |
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| 1/ 1 | 1 F+ | | |
| NewAm: Headu | vater tores! | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is requ | ired; check all that apply) | | Surface Soil Cracks (B6) |
| ✓ Surface Water (A1) | Aquatic Fauna (B13) | | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) | Marl Deposits (B15) (LR | | Drainage Patterns (B10) |
| Saturation (A3) | Hydrogen Sulfide Odor (| | Moss Trim Lines (B16) |
| Water Marks (B1) | Oxidized Rhizospheres : | along Living Roots (C3) | Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | Presence of Reduced In | on (C4) | Crayfish Burrows (C8) |
| Drift Deposits (B3) | Recent Iron Reduction in | | Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7) | | Geomorphic Position (D2) |
| Iron Deposits (B5) | Other (Explain in Remar | rks) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (E | 37) | | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | | | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | | 2 | |
| Surface Water Present? Yes | | 0 | |
| The man design and the control of th | No Depth (inches): | | Hydrology Present? Yes No |
| Saturation Present? Yes (includes capillary fringe) | No Depth (inches): | Wetland | Hydrology Present? Tes No |
| Describe Recorded Data (stream gauge, m | cnitoring well, aerial photos, pr | evious inspections), if av | ailable: |
| | | | |
| Remarks: | | | |
| . 이 1915년 10일 2017년 1일 12일 12일 12일 - 12일 | | | |

| 17.05 17.05 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|---|--|--|---|
| Tree Stratum (Plot size 30ff > 30ff) | % Cover | Species? | | Number of Dominant Species 7 |
| 1. Liquidambar styracitina | | 7 | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Pinus taeda | 15 | | FAC | Total Number of Dominant |
| 3. Acerrubrum | 25 | <u>y</u> | FAC | Species Across All Strata: (B) |
| 4. | | | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) |
| | | | | mat Ae OBE, 1 AGW, a 1 AG |
| 6 | | | | Prevalence Index worksheet: |
| 7. | | | The second second | Total % Cover of: Multiply by: |
| 8. | 65 | - P. C. (1980a) | | OBL species x 1 = |
| 21 | 62 | = Total Co | /er 12 | FACW species x 2 = |
| 50% of total cover; 32. | 3 20% of | total cover | : | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 3044 > 3044) | | 1 | 00 | FACU species x 4 = |
| 1. Pinus Tarda | 20 | <u> </u> | FAC | UPL species x5 = |
| 2. Acer rubrum | 40 | <u> </u> | FAC | 4 - [102](101)(104)(104)(104)(104)(104)(104)(104) |
| 3. Ilex opaca | 5 | N | FAC | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| AND AND AND PROPERTY OF THE PR | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 6. | | | | |
| 7 | | | | ✓ 2 - Dominance Test is >50% |
| 8. | 1= | THE RESIDENCE OF | | 3 - Prevalence Index is ≤3.01 |
| 22 | - 05 | = Total Co | /er | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 32. | <u>></u> 20% of | total cover | :_/3_ | |
| Herb Stratum (Pict size: 30H x 30H) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1 Arundinaria gigantea | 90 | <u>Y</u> | FACW | be present, unless disturbed or problematic. |
| 2. Morella cerifera | 5 | N | FAC | Definitions of Four Vegetation Strata: |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| | | | | more in diameter at breast height (DBH), regardless of |
| 4. | | | | height. |
| 5. | | | | - u and to the state avaluding vines less |
| | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. | | | | |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | and the second | | Section of the control | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | <u> </u> | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | 1.0000000000000000000000000000000000000 | | | |
| | 95 | = Total Co | /er | |
| 50% of total cover: 47. | 5 20% 0 | total cover | . 19 | |
| Woody Vine Stratum (Plot size: 3011 × 3011) | | | | |
| 1. Smilex cotunditalia | 5 | 4 | FAC | |
| 1. 3m1/2× 181 and 17 8112 | | | 1110 | |
| 2. | | 200 | ************************************** | |
| 3 | | | | |
| 4. | | A STATE OF THE STA | | |
| 5. | | | | Hydrophytic |
| | 5 | = Total Co | ver | Vegetation |
| 50% of total cover: 2.5 | 20% 0 | f total cover | . / | Present? Yes V No |
| | | | | Company and the second of the |
| Remarks: (If observed, list morphological adaptations belo | J | | | |
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| Profile Description: (Describe to the depth | | | or confirm | the absence of | Indicators.) |
|--|--|---------------------|--|--|--|
| Depth Matrix (inches) Color (moist) % | Redox Fe | % Type | Loc ² | Texture | Remarks |
| (inches) Color (moist) % - 0-10 10 YR 4/1 90 | | 10 C | PL | SCL | |
| | 10 40 016 | 10 C | M | SCL | |
| 10-50 10 JR 811 do | 10 14 610 | 10 | 77277 | | |
| TOTAL STATE OF THE | | | 100000 | | |
| | | Acres of the second | - | | |
| | - Alberta Company | | The second secon | | THE RESERVE OF THE PROPERTY OF |
| | | | | | |
| | | | 12.000 | | 7000 CO |
| ¹ Type: C=Concentration, D=Depletion, RM=F | Reduced Matrix, MS=M | lasked Sand Gra | ins. | ² Location: Pl | =Pore Lining. M=Matrix. r Problematic Hydric Solls³: |
| Hydric Soil Indicators: (Applicable to all L | RRs, unless otherwis | se noted.) | | | k (A9) (LRR O) |
| Histosol (A1) | — Polyvalue Below Thin Dark Surface | | | | k (A10) (LRR S) |
| Histic Epipedon (A2) Black Histic (A3) | Loamy Mucky M | | | Reduced | Vertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfide (A4) | Loamy Gleyed M | Matrix (F2) | | Piedmont | Floodplain Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) | ✓ Depleted Matrix | | | | us Bright Loamy Soils (F20) |
| Organic Bodies (A6) (LRR P, T, U) | — Redox Dark Surf Depleted Dark S | | | (MLRA Red Pare | nt Material (TF2) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) | Redox Depression | | | | llow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) | Marl (F10) (LRR | | | Other (Ex | rplain in Remarks) |
| Depleted Below Dark Surface (A11) | Depleted Ochric | | | 3 | - the death tip vagetation and |
| Thick Dark Surface (A12) | Iron-Manganese | | | T) Indicate | ors of hydrophytic vegetation and hydrology must be present, |
| Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) | Umbric Surface Delta Ochric (F1 | | , 0) | unless | disturbed or problematic. |
| Sandy Mucky Milleral (S1) (ERR 6, 5) Sandy Gleyed Matrix (S4) | Reduced Vertic | | OA, 150B) | | |
| Sandy Redox (S5) | Piedmont Flood | plain Soils (F19) | (MLRA 14 | 9A) | |
| Stripped Matrix (S6) | Anomalous Brigh | ht Leamy Soils (| F20) (MLR | A 149A, 153C, 1 | 53D) |
| Dark Surface (S7) (LRR P, S, T, U) | | | | EN THE PER PER PER PER PER PER PER PER PER PE | PER HER TENERS AND THE STREET |
| Restrictive Layer (if observed): | | | | | , |
| Type: | | | | Hydric Soll Pa | resent? Yes No |
| Remarks: | usen sugariste mere te ett samme. | | | THE PROPERTY OF THE PARTY OF TH | |
| Kemars. | | | | | |
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| | | | Maria es | wasted as the Sand | |



Wetland data point wsup037f_w facing southeast.



Wetland data point wsup037f_w facing northeast.

| WETL | AND DETERMINATION | ON DATA FORM | 1 – Atlantic and C | Bulf Coastal P | lain Region |
|---|--------------------------|-----------------------|---------------------------------------|--|--|
| Project/Site: ACP | | City/Co | ounty: Suffel | k | Sampling Date: 1/8/16 |
| Applicant/Owner: Do/ | ninion | | | State VA | Sampling Point Wsup 037 |
| Investigatoris) ESI-/ | n. Smith N.M. | urphreySection | n, Township, Range:_ | NA | |
| Landform (hillslope, terrace el | Hill slape | Locali | elief (concave, convex | none): Conc | ave Slope (%) |
| Subregion (LRR or MLRA): | PAT | 1 36.710 | 6 Long | -76.7233 | Datum: WGS 8 |
| Subregion (LRR or MLRA): | 214 1- | Lat: 30 | Long. | 1010 1 | NA |
| Soil Map Unit Name: 50Ff | | sand | | NVII classif | ication: NA |
| Are climatic / hydrologic condit | | | | (If no, explain in | Remarks.) |
| Are Vegetation, Soil _ | , or Hydrology | significantly disturb | | | present? Yes No |
| Are Vegetation, Soil _ | | | | explain any answ | |
| SUMMARY OF FINDING | 3S - Attach site ma | p showing sam | pling point locati | ons, transect | s, important features, etc. |
| Hydrophytic Vegetation Pres Hydric Soil Present? Wetland Hydrology Present? | Yes | No I | Is the Sampled Area within a Wetland? | Yes | No |
| | | | | | |
| HYDROLOGY | | | | | - (- in inverse of two required) |
| Wetland Hydrology Indicat | | | | CONTRACTOR CONTRACTOR STATE AND CONTRACTOR OF CONTRACTOR O | cators (minimum of two required) |
| Primary Indicators (minimum | | | | Surface So | |
| Surface Water (A1) | | tic Fauna (B13) | | | egetated Concave Surface (B8) |
| High Water Table (A2) | | Deposits (B15) (LRR | | | Patterns (B10) |
| Saturation (A3) | | gen Sulfide Odor (C | | | Lines (B16) |
| Water Marks (B1) | | | ong Living Roots (C3) | | n Water Table (C2) |
| Sediment Deposits (B2) | | nce of Reduced Iron | | | urrows (C8) Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | | nt Iron Reduction in | filled Soils (C6) | | ic Position (D2) |
| Algal Mat or Crust (B4) | | Muck Surface (C7) | , | Shallow Ac | |
| Iron Deposits (B5) | | (Explain in Remarks | 5) | FAC-Neutr | |
| Inundation Visible on As | | | | | moss (D8) (LRR T, U) |
| Water-Stained Leaves (| 59) | | | | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Field Observations: Surface Water Present? | Yes No [| Depth (inches): | IA | | |
| | Yes No [| Depth (inches): | 120 | | |
| Water Table Present? | Yes No L | Depth (inches): | 20 Wetland | Hydrology Pres | ent? Yes No |
| Saturation Present? (includes capillary fringe) Describe Recorded Data (str | | | | | |
| Describe Recorded Data (su | eam gauge, monitoring we | a, achai photoc, pro- | | | |
| Remarks: | • | | | | |
| NAME OF TAXABLE PARTY. | | | | | |
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Sampling Point: WSUP 037_4

| 200 - 01 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|--|--|--|--|
| Tree Stratum (Plot size: 30ff × 30ff) | | Species? | | Number of Dominant Species That Are OBL, FACW, or FAC:3(A) |
| 1. Pinus taeda | | | | Inat Are OBL, FACW, O FAC (A) |
| 2. Quercus nigra | 10 | N | FAC | Total Number of Dominant |
| 3. Liquidambar styraciflua | 10 | N | FAC | Species Across All Strata: (B) |
| 4. | | | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: |
| The state of the s | | | | Inat Are OBL, FACW, O FAC. |
| 6. | | | | Prevalence Index worksheet: |
| 7, | | | | Total % Cover of: Multiply by: |
| 8. | | | | OBL species x1 = |
| | 95 | = Total Cov | /er | |
| 50% of total cover: 47. | 5 20% of | total cover | . 19 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: | 10 | N | FAC | FACU species x 4 = |
| 1. Morella cerifera | THE THURSDAY | N | - | UPL species x 5 = |
| 2. Aralia spinosa | 10 | - 14 | FAC | Column Totals: (A) (B) |
| 3. Pinus taeda | 40 | | FAC | Countil Totals (7) |
| 4. Acer rubrum | 10 | N | FAC | Prevalence Index = B/A = |
| The second secon | | | | Hydrophytic Vegetation Indicators: |
| AND INCOMES AND ADDRESS OF THE RESIDENCE | | | | |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | A SAR THE SAR | - | ∠ 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.01 |
| | 70 | = Total Cov | er | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 35 | 20% of | total cover | 14 | |
| Herb Stratum (Plot size: 304 x 304) | | | THE RESERVE | 1 |
| Herb Stratum (Pict Size: | 50 | y | FAC | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. Rubus argutus | | DESCRIPTION OF THE PARTY OF THE | TO CHEMINATE STATE | TO SEE AND SECURITIES AND ADDRESS AND ADDR |
| 2. | | 20 82 835 2000 | | Definitions of Four Vegetation Strata: |
| 3. | | 2004 20010 | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| THE SECOND CONTRACTOR OF THE PARTY OF THE PA | | | | a transport to the death and disprise less |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. | | | | |
| 8. | | 1.50 | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 2.1. Distribution of the second contract of the contract of the second contract of the seco | | | | height. |
| | 100000000000000000000000000000000000000 | | THE REST OF THE REST | neight. |
| 12. | 26 V A 98 27 37 87 8 | The plant of the same of | ATTENDED TO STATE OF | |
| | The state of the s | = Total Cov | 1 1 | |
| 50% of total cover: 25 | 20% of | total cover | : 10 | |
| Woody Vine Stratum (Plot size: 30ff × 30ff) | | | | |
| 1. Lonicera japonica | 50 | γ. | FACU | |
| | A CONTRACTOR | | | |
| 2 | | And the Parking | AND THE RESERVE TO SERVE TO S | |
| 3. Salar La Caracter Constitution Constituti | | | | |
| 4. | | | | |
| 5 | | | | Hydrophytic |
| | 50 | = Total Co | /or | Vegetation |
| 7.5 | 10 200 000 | - Idai Co | 10 | Present? Yes No No |
| 50% of total cover: 25 | | total cover | 0.00 | |
| Remarks: (If observed, list morphological adaptations belo | w). | - | | |
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| Deptite | Profile Desc | ription: (Describe | to the depth | needed to docur | nent the Ir | ndicator o | r confirm t | he absence of Indicato | rs.) | |
|--|--|---|----------------|--|-------------|--|---|--|--|----------------------|
| Color (most) % Color (most) % Type Los Texture Tex | | Matrix | | Redo | x Features | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. | (inches) | | | Color (moist) | % | Type' | Loc* | | Remarks | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains F5 L | | The second section of the second section is a second section of the second section of the second section is a second section of the section of | | | | STATE OF | # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | NOTE THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN TO SE | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | 3-6 | | - | MATERIAL SERVICE | 50 | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | W - 13 | 2.54 6/4 | 50 | | | | | FS L | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Type: Depletion, Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Type: Depletion, Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Type: Depletion, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains, RM=Reduced Matrix, MS=Reduced Matrix, RS, T, U) Type: Depletion, D=Depletion Matrix, MS=Masked Sand Grains, RM=Reduced Matr | 10-15 | 2.54 6/4 | 100 | | | | | FSL | August manerile | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | | | | | 10000 | | | SCL | | |
| Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Ecdies (A5) (LRR P, T, U) Mark (F10) (LRR U) 1 cm Muck (A9) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Mark (F2) Muck Presence (A3) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A3) (LRR U) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Obric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Depleta Obric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150B) Sandy Redox (S5) Sandy Redox (S5) Sardy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (ifobserved): Type: Depth (inches): Hydric Soil Present? Yes No | 12 00 | 213119 | - 100 - | | | - | | | | |
| Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | | | | | | The state of the s | | | | |
| Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Ecdies (A5) (LRR P, T, U) Mark (F10) (LRR U) 1 cm Muck (A9) (LRR O) Reduced Vertic (F18) (outside MLRA 150A, B) Piedmont Floodplain Soils (F19) (LRR P, S, T) Mark (F2) Muck Presence (A3) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A3) (LRR U) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Obric (F11) (MLRA 151) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Depleta Obric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 150B) Sandy Redox (S5) Sandy Redox (S5) Sardy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (ifobserved): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | <u> </u> | 2 00 000 | -1 11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | |
| Histosol (A1) | ¹Type: C=C | oncentration, D=Dep | oletion, RM=R | Reduced Matrix, M. | S=Masked | Sand Gra | ins. | Location: PL=Pore L | ning. M=Mairi | Solls ³ : |
| Histic Epipedon (A2) Histic Epipedon (A2) Loamy Mucky Mineral (F1) (LRR O) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A6) (LRR P, T, U) Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR U) Are Mari (F10) (LRR U) Depleted Dark Surface (F7) Depleted Dark Surface (A10) Thick Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (iffobserved): Type: Depth (inches): Hydric Soil Present? Yes No | Hydric Soll | Indicators: (Applic | able to all Li | | | | | | | |
| Histic Epidedi (Hz) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Dark Surface (F6) Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes | The second section of the sect | | | | | | | 2 cm Muck (A3) (L | LRR S) | |
| Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bedies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bedies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F6) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S5) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) Depleted Obdric (F13) (MLRA 150A) Depleted Obdric (F13) (MLRA 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes | THE PARTY OF THE P | | | | | | | Reduced Vertic (F | 18) (outside N | ILRA 150A,B) |
| Stratified Layers (A5) Stratified Layers (A5) Organic Bodies (A5) (LRR P, T, U) Bedox Dark Surface (F6) Muck Presence (A3) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A3) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Redox Depressions (F8) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sundy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | The state of the s | | | | | | Ο, | Piedmont Floodpla | in Soils (F19) | (LRR P, S, T) |
| Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Min eral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151D) Unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | CONTRACTOR STATE OF THE STATE O | | -/ | | | | |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) Depleted Dorkric (F13) (MLRA 150A) Depleted Dorkric (F13) (MLRA 150A) Depleted Ochric (F13) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | P. T. U) | | | 6) | | | * | |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Leamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | | | |
| | | | | L. Polit Jacobski William Land | | 3) | | | | 2) |
| Thick Dark Surface (A12) | 1 cm Mt | uck (A9) (LRR P, T) | | | | | | Other (Explain in I | remarks) | |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Leamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | e (A11) | | | | | 3 Indicators of him | trophytic veget | ation and |
| Coast Prame Redox (A16) (ILRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soll Present? Yes No | | | | | | | | wetland hydrol | ony must be pr | esent. |
| Sandy Mileta (S1) (Eff. 6, 6) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soll Present? Yes No | | | | | | | ۵, | | | |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Leamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | LKK U, S) | | | | A. 150B) | | | |
| Stripped Matrix (S6) Anomalous Bright Leamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | Piedmont Fl | odplain S | oils (F19) | MLRA 149 | A) | | |
| Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | Anomalous I | Bright Loan | ny Soils (F | 20) (MLRA | (149A, 153C, 153D) | | |
| Restrictive Layer (If observed): Type: Depth (inches): Hydric Soli Present? Yes No | | | S, T, U) | | | | | | | |
| Depth (inches): Hydric Soll Present? Yes No | | | | a stage with the stage. | | or a solice when a | | | | |
| Depth (inches): | Type: | | | _ | | | | | | |
| 1、2008年1月20日 - 11、11、11、11、11、11、11、11、11、11、11、11、11、 | A STANDARD TO STAND TO | ches): | | | | | | Hydric Soll Present? | Yes | No |
| | 10/20/06/99/14/99 | 中的新原则是1000年 中国新原则是1000年 | | THE RESIDENCE OF STREET | | 14.044.65 | | Marie Commission Commi | | |
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Upland data point wsup037_u facing northwest.



Upland data point wsup037_u facing south.

| Project/Site: ACP Cit | //County: SUFFULK Sampling Date: 12/10/15 |
|--|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: WSup 02(f. |
| | ction, Township, Range: NA |
| Landform (hillslope, terrace, etc.): Drainage Los | cal relief (concave, convex, none): CONCAVE Slope (%) 6-2 |
| Subregion (LRR or MLRA): LRRT Lat:36.712 | 32 Long: 76.71971 Datum: W65 8 |
| | • |
| Soliting Stite Harris. | 1111 diassinostori |
| 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 dis | turbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally proble | matic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing sa | ampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Yes No | Is the Sampled Area |
| Wetland Hydrology Present? | within a Wetland? Yes No |
| Remarks: | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (L | 1 (1) |
| Saturation (A3) Hydrogen Sulfide Odor | |
| Water Marks (B1) Oxidized Rhizospheres | |
| Sediment Deposits (B2) Presence of Reduced Drift Deposits (B3) Recent Iron Reduction | 100 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Algal Mat or Crust (B4) Thin Muck Surface (C7 | |
| Iron Deposits (B5) Other (Explain in Rema | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | . 11 |
| Surface Water Present? YesNo Depth (inches): | |
| Water Table Present? Yes No Depth (inches): | 5" |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | revious inspections), if available: |
| Remarks: | |
| nemarks. | |
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| 2 51312 5 | Absolute | Dominan | Indicator | Dominance Test worksheet: |
|--|----------|-------------|---------------------------|--|
| Tree Stratum (Plot size: 308+ X 308+ | | Species' | Status | Number of Dominant Species |
| 1. Ilex opaca | 50 | | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Liquidambar Styraci Elua | 30 | | FAC | Total Number of Dominant |
| 3. Nyssa biFlora | 5 | N | OBL | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | |
| 7 | | | | Prevalence Index worksheet: |
| 8. | | | | Total % Cover of: Multiply by: |
| | 85 | = Total Co | ver | OBL species x 1 = |
| 50% of total cover: 42. | | | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size:30 Ft X 30 Ft) | 20 /0 01 | total cove | | FAC species x 3 = |
| 1. Pinus toeda | 20 | N | FAC | FACU species x 4 = |
| 2. ILEX OPOCO | 15 | N | FAC | UPL species x 5 = |
| 3 Liviodendrum talipirera | 20 | | FACH | Column Totals: (A) (B) |
| 4. Liquidambar Staraciella | 15 | 1 | FAC | |
| | 15 | - 17 | FACW | Prevalence Index = B/A = |
| 5. Magnulia Virginiana 6. Clethra alnifolia | 70 | -0 | | Hydrophytic Vegetation Indicators: |
| | 30 | 7 | FACE | 1-Rapid Test for Hydrophytic Vegetation |
| 7. Queveus pigra | _5_ | N | FAC | 2 - Dominance Test is >50% |
| B. VARCINIUM COREMDOSUM | 5 | _/\/ | FACW | 3 - Prevalence Index is ≤3.01 |
| 10 | 125 | = Total Co | ver | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 62. | 5 20% of | total cover | 25 | |
| Herb Stratum (Plot size: 308+X308+) | 60 | \ | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Avundination gigortea | 50 | 7 | FACW | be present, unless disturbed or problematic. |
| 2. Woudwardia aredonta | 20 | 7 | OBL | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| 6. | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Hart All hartaneous (non woods) plants regardless |
| 9. | | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | • |
| 11 | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 15630 | | | | neight. |
| 12 | 70 | = Total Co | | |
| 500 -41-1- 35 | | | | |
| 50% of total cover: <u>35</u> | 20% of | total cover | : | |
| Woody Vine Stratum (Plot size: 3UF1 X3UF4 1. SMILOX VOTUNDIBULO | 20 | V | EAC | |
| | 0,0 | | 1110 | |
| 2 | | | | |
| 3 | | | | , |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 20: | = Total Cov | er . | Vegetation Present? Yes No |
| 50% of total cover: | 20% of | total cover | -4 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations below | w). | | | |
| | | | | |
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| | | | 535315750 <u>- 11</u> 4 - | |

| Profile Desc | ription: (Describe | to the dept. | h needed to docu | ment the | ndicator | or confirm | the absenc | e of mulcator | 5.7 | |
|--------------------------------|---|----------------|------------------------|------------|---------------|-------------|----------------------|----------------------------|-------------|-------------------|
| Depth | Matrix | | Red | ox Feature | s | | | | Remar | ks |
| (inches) | Color (moist) | - % | Color (moist) | % | Type | _Loc*_ | M L | muc | | KS |
| 0-6 | 104R3/1 | 100 | | | | | 7416 | muc | 7 | |
| 6-10 | 104R5/1 | 100 | | | | | PSL | | | |
| 10-20 | 104R5/1 | 100 | | | | | 5 | | | |
| - | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | - | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| ¹Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, M | 1S=Masked | Sand Gra | ains. | | : PL=Pore Li | | |
| Hydric Soil | Indicators: (Appli | cable to all L | RRs, unless othe | erwise not | ed.) | | Indicator | s for Probler | natic Hyd | ric Solis³: |
| Histosol | | | Polyvalue B | | | RR S, T, U | J) 1 cm | Muck (A9) (L | RR O) | |
| | pipedon (A2) | | Thin Dark S | | | | | Muck (A10) (| | |
| Black H | stic (A3) | | Loamy Muc | | | (O) | | | | de MLRA 150A,B) |
| | en Sulfide (A4) | | Loamy Gley | | F2) | | | | | 19) (LRR P, S, T) |
| | Layers (A5) | | Depleted M | | -61 | | | nalous Bright LRA 153B) | Loamy Sc | nis (F20) |
| | Bodies (A6) (LRR | | Redox Dark | | 100 | | | Parent Materia | al (TF2) | |
| | icky Mineral (A7) (L resence (A8) (LRR | | Depleted Da Redox Depr | | | | | Shallow Dark | | TF12) |
| | ick (A9) (LRR P, T) | | Marl (F10) (| | 0, | | | r (Explain in F | | 2 23 |
| | d Below Dark Surfa | | Depleted O | | (MLRA 1 | 51) | | | | |
| | ark Surface (A12) | | Iron-Manga | nese Mass | es (F12) (| LRR O, P, | | | | egetation and |
| _ | rairie Redox (A16) | | | | | , U) | | etland hydrolo | | |
| | Mucky Mineral (S1) | (LRR O, S) | Delta Ochric | | | 0.0 4505) | | nless disturbe | d or proble | ematic. |
| | Sleyed Matrix (S4) | | Reduced Ve | | | | | | | |
| | Redox (S5) | | Piedmont F | | | | 19A) RA 149A, 153 | C. 153D) | | |
| | l Matrix (S6) rface (S7) (LRR P, | STIN | _ Alomaicus | Bright Loa | illy don's (i | 20) (111211 | 140/1, 100 | o,, | | |
| Dain Su | Hace to Hitelini | 0, 1, 0, | | | | | | | | |
| Restrictive | | | | | | | T | | | |
| | Layer (if observed | | | | | | | | | / |
| Туре: | Layer (if observed | | _ | | | | Hydric So | oll Present? | Yes | |
| Type: Depth (in | | | | | | | | | | |
| Туре: | Layer (if observed |)): | | 0.6 | | | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | W | | | | No |
| Type: Depth (in | Layer (if observed |)): | laterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | pre | sent | · W | | | | |
| Type: Depth (in Remarks: | Layer (if observed |)): | aterial | Pre | sent | · W | | | | |



Wetland data point wsup021f_w facing south.



Wetland data point wsup021f_w facing west.

| Project/Site: A CP City/County: | SUFFOIK Sampling Date: 12/10/15 |
|---|--|
| Project/Site: A CP City/County: Applicant/Owner: DOMINION | Sampling Date: Wsup 021-L |
| Applicantiowner: 100 Mills 16 Mur Platter | |
| Investigator(s): EST-M. SMHLK. MurPhres Section, Towns | |
| Landform (hillslope, terrace, etc.): hillslope Local relief (cor | |
| Subregion (LRR or MLRA): LRRT Lat: 36.71243 | Lcng:-76.71946 Datum:W65.84 |
| Soil Map Unit Name: Rains Fine Sandy Idam | 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 Vegetation, Scil, or Hydrology naturally problematic? | (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sampling p | |
| | |
| Hydrophytic Vegetation Present? Yes No Is the S. | ampled Area |
| Hydric Soil Present? Yes No within a No | Wetland? Yes No |
| Remarks: | |
| Tromana. | |
| 94 | |
| | |
| | |
| HYDROLOGY | Material Science Control Contr |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRR U) | Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide Odor (C1) | Moss Trim Lines (B16) |
| Water Marks (B1) Oxidized Rhizospheres along Living | |
| Sediment Deposits (B2) Presence of Reduced Iron (C4) | Crayfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduction in Tilled Soil | |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remarks) | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No Depth (inches): NA | - |
| Water Table Present? Yes No Depth (inches): >2011 | - |
| Saturation Present? Yes No Depth (inches): >2011 | _ Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous insp | ections), if available: |
| | |
| Remarks: | |
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| 2011/251 | Absolute | Dominan | t Indicator | Dominance Test worksheet: |
|---|----------------|-------------|-------------|--|
| Tree Stratum (Plot size 3084 X 3084) | | Species | ? Status | Number of Dominant Species |
| 1. Acer rubrum | 5 | 7 | FAC | That Are OBL, FACW, or FAC:(A) |
| 2. Quercus coccinea | _5_ | | UPL | Total Number of Demineral |
| 3. Liviodendrun talipisero | 5 | Y | FACU | Total Number of Dominant Species Across All Strata: (B) |
| 4. QUETCUS VELUTION | 5 | Y | UPL | Operios / to oss / to otrata. |
| | | -/- | 01.0 | Percent of Dominant Species That Are ORL FACILY or FAC: 5070 (A/R) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | | | | |
| | 20 | = Total Co | wer | OBL species x1 = FACW species |
| 50% of total cover: | 20% of | total cove | r. 4 | TACTO Species AZ |
| Sapling/Shrub Stratum (Plot size 305+ X305+) | | | A | FAC species 95 x3 = 265 |
| 1. I IPX OPOCO | 20 | N | FAC | FACU species 35 x 4 = 140 |
| 2. Symplocus tincturia | 20 | N | FAC | UPL species 10 x 5 = 50 |
| 3. Liviodendron fuli pisera | 30 | | - | Column Totals: 180 (A) 555 (B) |
| 4 Quercus nigra | 10 | 7 | FACU | |
| | 15 | 14 | FAC | Prevalence Index = B/A =3,08 |
| 5. Liquidambar Styraciflua | | | FAC | Hydrophytic Vegetation Indicators: |
| 6. Vaccinium corymbosum | 10 | N | FACW | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | 105 | = Total Co | ver | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: <u>52.5</u> | 20% of | total cove | r. 21 | |
| Herb Stratum (Plot size: 308+X308+) | | | | 1. 5. 6. 51. 12. 3 |
| 1. Arundinaria gigantea | 30 | Y | FACW | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. Rubus Argutus | ~ | \sim | FAC | Definitions of Four Vegetation Strata: |
| | | | | Demilitions of Four Vegetation Strata. |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of height. |
| 5 | | | 6.7 | neight. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12. | | | | |
| | 35 | = Total Co | Var | |
| 50% of total cover: 17. | _ | total cove | 7 | |
| 2 | 20% 01 | total cove | | |
| Woody Vine Stratum (Plot size: 50 HX 30 H) | 5 | Y | FAC | |
| | | 1/ | FAC | |
| 2. Smilax rutundisolia | 15 | 7 | FAC | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 20: | = Total Co | ver , | Vegetation |
| 50% of total cover: 10 | 20% of | total cover | . 4 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations below | | | | |
| , | (.55) (.60) | | | |
| 2 | | | | |
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| Profile Des | cription: (Describe | to the depti | | | | or confir | m the absence | of Indicators | s.) | |
|---|----------------------------------|----------------|---|------------------------------|----------|-----------|---------------|--|----------------------------------|-------------|
| Depth (inches) | Color (moist) | % | Color (moist) | dox Feature % | | Loc² | Texture | 19241 - 1794 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 - 1844 | Remarks | |
| ()-3 | 104R3/1 | 100 | Caa (masi) | | 1750 | | FSL | | | |
| 3-14 | 2.545/4 | 100 | | | | | FSL | | | |
| <u> </u> | 2.595/4 | | 0-1- | | - | | | | | |
| 14-20 | 2,545/3 | 98 | 104R5/8 | 2 | C | W | FSL | | | |
| | , | | , | | | | | | | |
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| | | | | | | | | | | |
| ¹ Type: C=C | oncentration, D=De | pletion, RM= | Reduced Matrix, | MS=Maske | d Sand G | ains. | | | ing, M=Matrix. atlc Hydrlc Sc | |
| Hydric Soil | Indicators: (Applic | cable to all L | | | | | | | | nis . |
| Histoso | | | Polyvalue | | | | | Auck (A9) (LF | | |
| | pipedon (A2) | | Thin Dark | | | | | Auck (A10) (L | .KK 3) 8) (outside ML | RA 150A.B) |
| | istic (A3) | | | icky Mineral | 50.5 | (0) | Reduc | ont Floodolai | n Soils (F19) (I | RR P. S. T) |
| | en Sulfide (A4) d Layers (A5) | | 1 To | eyed Matrix Matrix (F3) | (1.2) | | | | oamy Soils (F2 | |
| | : Bodies (A6) (LRR I | P. T. U) | | rk Surface (| F6) | | | RA 153B) | • | (6) |
| | ucky Mineral (A7) (L | | | Dark Surface | | | Red P | arent Materia | I (TF2) | |
| | resence (A8) (LRR | | | pressions (F | | | | | Surface (TF12) |) |
| 1 cm M | uck (A9) (LRR P, T) | | Marl (F10) | | | | Other | (Explain in R | emarks) | |
| Deplete | d Below Dark Surfa | ce (A11) | | Ochric (F11) | | | g | | | Man and |
| | ark Surface (A12) | | | anese Mass | | | | | ophytic vegeta | |
| | Prairie Redox (A16) (| | | rface (F13) | | | | | gy must be pre- | |
| | Mucky Mineral (S1) | (LRR O, S) | | ric (F17) (M | | | | ess distalled | o probleman | • |
| | Gleyed Matrix (S4) | | | Vertic (F18) Floodplain S | | | | | | |
| | Redox (S5) d Matrix (S6) | | Anomalou | s Bright Loa | my Soils | (F20) (ML | RA 149A, 153C | , 153D) | | |
| | urface (S7) (LRR P, | S. T. U) | | | | , . | | | | |
| | Layer (If observed | | | | | | | | | |
| Туре: | | | | | | | | | | 1/ |
| | nches): | | | | | | Hydric Soll | Present? | Yes | No |
| Remarks: | | | | | | | | | | |
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Upland data point wsup021_u facing east.



Upland data point wsup021_u facing south.

| Project/Site: ACP City/Co | unty: Saffork Sampling Date: 12/10/15 |
|--|--|
| Applicant/Owner: DOMINION | State: VA Sampling Point: WSUP 0245_ |
| Investigator(s): EST-M. Smith, K. Murphrey Section | Township Pance: NA |
| | elief (concave, convex, none): £(0+ Slope (%): 0-2 |
| Landform (hillslope, terrace, etc.): Flot Local re | 8 Long: 76.71584 Datum: W6584 |
| | Datum: VOD 3 2 0 |
| Soil Map Unit Name: Rains Fine Sordy 1000 | NWI classification: P 5 5 |
| Are climatic / hydrologic conditions on the site typical for this time of year? Ye | |
| Are Vegetation, Soil, or Hydrology significantly disturbed | ed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally problemat | |
| SUMMARY OF FINDINGS - Attach site map showing same | |
| Hydrophytic Vegetation Present? YesNo | Is the Sampled Area |
| Undrie Soil Present? | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRR | 1.500 |
| Saturation (A3) Hydrogen Sulfide Odor (C | |
| Water Marks (B1) Oxidized Rhizospheres alo | |
| Sediment Deposits (B2) Presence of Reduced Iron | |
| Drift Deposits (B3) Recent Iron Reduction In T | Geomorphic Position (D2) |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) Iron Deposits (B5) Other (Explain in Remarks | |
| Iron Deposits (B5) Other (Explain in Remarks Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? YesNo Depth (inches): | |
| Water Table Present? Yes No Depth (inches): 16 | |
| Saturation Present? Yes V No Depth (inches): 6 | Wetland Hydrology Present? Yes No |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous | ous inspections), if available. |
| Remarks: | |
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| 2 (| Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--|-----------|---|
| Tree Stratum (Plot size: 308+X 308+) | | Species? | | Number of Dominant Species 5 |
| 1. Pinus taeda | 10 | | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Table based Benjami |
| 3 | | | | Total Number of Dominant Species Across All Strata: (B) |
| | | | | |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | |
| 8. | | | | Total % Cover of:Multiply by: |
| | () | = Total Cove | er | OBL species x 1 = |
| 50% of total cover: | | | | FACW species x 2 = |
| | 20 70 01 | total cover. | _ | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 308+ X305+) | 20 | 01 | FAC | FACU species x 4 = |
| 1. Pinus taeda | 01- | -17 | | UPL species x 5 = |
| 2. QUERCUS nigro | 10 | N | FAC | Column Totals: (A) (B) |
| 3. IIRX OPACA | 10 | N | FAC | Column Totals (A) (B) |
| 4. ACEY YUDGUM | S | N | FAC | Prevalence Index = B/A = |
| 5. Clethra ainifolia | 50 | 7 | FACW | Hydrophytic Vegetation Indicators: |
| 6. Liquidambor Sturaciflua | 5 | N | FAC | |
| 7. Aralia spinosa | - | N | FAC | Rapid Test for Hydrophytic Vegetation |
| | 5 | N | CIPL | 2 - Dominance Test is >50% |
| 8. Rhus copallinum | | | | 3 - Prevalence Index is ≤3.01 |
| | 101 | = Total Cove | er . // | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: <u>63</u> , | 5 20% of | total cover: | 21.4 | |
| Herh Stratum (Plot size: 50 8 1 30 6 1) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| . Arundinavia ainanta | 80 | Y | FACW | be present, unless disturbed or problematic. |
| 2 Rubus argutus | 20 | 1 | | Definitions of Four Vegetation Strata: |
| | | The state of the s | | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| | | | | of size, and woody plants less than 3.28 ft tall. |
| 9 | | | | or size, and woody plants less than else it tall |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 100 | = Total Cove | er | |
| 50% of total cover: 50 | | total cover: | | |
| Woody Vine Stratum (Plot size 30 54 X30 54) | | | | |
| 1. Smilex glanca | 10 | Y | FAC | |
| 1. Junior Since | | | (//- | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5. | | | | Hydrophytic |
| | 10 | = Total Cove | er | Vegetation |
| 50% of total cover: | | f total cover: | - | Present? Yes No |
| | | total cover. | - 200 | |
| Remarks: (If observed, list morphological adaptations below | ow). | | | |
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| Depth (inches) | |
|---|------------|
| 0 6 104R3/1 100 FSL 6-15 104R5/1 90 104R5/6 10 CM SCL | |
| 6-15 104R5/1 90 104R5/6 10 (M SCL | |
| | |
| 15-20 104R5/1 80 104R5/6 20 C M SC | |
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| | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix. | . 3 |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric So | ls": |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) | |
| Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) | DA 4504 D) |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside ML Hydrogen Sulfide (A4) Loamy Gleved Matrix (F2) Piedmont Floodplain Soils (F19) (L | |
| | |
| | -1 |
| Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) | |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) | |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) | |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) | |
| Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) 3Indicators of hydrophytic vegetat | |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be pres | |
| _ Candy Macky Miller (C) / (21th C) / | |
| Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) | |
| Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) — Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) | |
| Dark Surface (S7) (LRR P, S, T, U) | |
| Restrictive Layer (if observed): | _ |
| Type: | |
| Depth (inches): Hydric Soil Present? Yes | No |
| Remarks: | |
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Wetland data point wsup024s_w facing east.



Photo Sheet 1 of 3

| Project/Site: ACP | City/County: SUFF01 | 1< | Sampling Date: 12/8/15 |
|--|---------------------------------------|----------------------|---------------------------------|
| Applicant/Owner: Oominion | , | State: VA | Sampling Point: WSup 024f-W |
| Investigator(s): ESI-M. Smith, K. MURPHREY | Section Township Range: | NA | |
| | Local relief (concave, conve | | Slope (%): 0-2 |
| Landrorm (missippe, terrace, etc.). | 1450 Long: | -76.7155 | 5 Datum: W6584 |
| 3 | | | ation: PFO |
| Soil Map Unit Name: Rains fine sondy loan | | | |
| Are climatic / hydrologic conditions on the site typical for this time of ye | | (If no, explain in R | 1/ |
| Are Vegetation, Soil, or Hydrology significantly | disturbed? Are "Norm | nal Circumstances" p | present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally pro | oblematic? (If needed | , explain any answe | rs in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | sampling point locat | ions, transects | , important features, etc. |
| Hydrophytic Vegetation Present? Yes | Is the Sampled Area within a Wetland? | Yes | |
| Remarks: | | | |
| | | | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | | ators (minimum of two required) |
| Primary Indicators (minimum of one is required, check all that apply) | | Surface Soil | |
| Surface Water (A1) Aquatic Fauna (B1 | • | Sparsely Veg | getated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15 | | Moss Trim Li | |
| Saturation (A3) Hydrogen Sulfide (| eres along Living Roots (C3) | | Water Table (C2) |
| Water Marks (B1) Oxidized Rhizosph Sediment Deposits (B2) Presence of Reduc | | Crayfish Bur | 1 |
| [1] | tion in Tilled Soils (C6) | | isible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | | | Position (D2) |
| Iron Deposits (B5) Other (Explain in R | | Shallow Aqu | itard (D3) |
| Inundation Visible on Aerial Imagery (B7) | | FAC-Neutral | Test (D5) |
| Water-Stained Leaves (B9) | | Sphagnum n | noss (D8) (LRR T, U) |
| Field Observations: | | | |
| Surface Water Present? YesNo Depth (inches |): <u>N</u> A | | |
| Water Table Present? YesNo Depth (inches | | | |
| Saturation Present? Yes No Depth (inches (includes capillary fringe) | | Hydrology Preser | nt? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if a | vailable: | |
| Remarks: | | | |
| Nemarks. | | | |
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| 7.6.6 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|----------|---------------|-----------|---|
| Tree Stratum (Plot size: 3084 × 3084) | | Species? | | Number of Dominant Species |
| 1. Pinus taeda | 30 | λ | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Symplocus tinctoria | 10 | N | FAC | Total Number of Dominant |
| 3. Liquidambar Styracifica | 40 | Y | FAC | Total Number of Dominant Species Across All Strata: (B) |
| 4. QUEVEUS DIGVA | 10 | N | FAC | |
| | | | | Percent of Dominant Species That Are OBL FACW or FAC: (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | 00 | | | OBL species x 1 = |
| 1 | 40 | = Total Cov | | FACW species x 2 = |
| 50% of total cover: 45 | 20% of | total cover | 18 | |
| Sapling/Shrub Stratum (Plot size: 3084 X3064) | 0. | | | FAC species x 3 = |
| 1. QUECCUS nigron | 20 | Y | FAC | FACU species x 4 = |
| 2. ITEX OPACO | 30 | 4 | FAC | UPL species x 5 = |
| 3. Symplocos tinctoria | 20 | 1/ | FAC | Column Totals: (A) (B) |
| 4. VOICCINIUM CORUMBOSUM | 20 | V | FACW | |
| | -00.17 | - | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | 40 | = Total Cov | er | Problematic Hydrophytic Vegetation1 (Explain) |
| 50% of total cover: 45 | 20% of | total cover | 18 | |
| Herb Stratum (Plot size: 308+ X308+) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Mitchella repens | 2 | N | FACU | be present, unless disturbed or problematic. |
| 2. Arundinaria gigantea | 20 | $\overline{}$ | FACW | Definitions of Four Vegetation Strata: |
| 3. Symplocos tinctoria | 5 | N | FAC | |
| · · | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of height. |
| 5 | | | | norgin. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| | | | | 110,5.11 |
| 12 | 27 | | | |
| 3 5 | | = Total Cov | | |
| 50% of total cover: 3.5 | 20% of | total cover | | |
| Woody Vine Stratum (Plot size 30 F+ X3087) | 21 | V | FA/ | |
| 1. Smilax rutundifolia | 30 | | FAC | 9 9 |
| 2 | | | | |
| 3. | | | | |
| 4. | | | | |
| 5 | | | | Hydrophytic |
| 0. | 31) | = Total Co | /er | Vegetation |
| 50% of total cover: 15 | | total cover | | Present? Yes No |
| | | total cover | · | |
| Remarks: (If observed, list morphological adaptations belo | ₩). | | | |
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| | ription: (Describe | to the dep | | | | or confirm | n the absence of In | dicators.) | |
|-------------------|--|--------------|--------------------|---------------------------|---------------------------|------------|----------------------------|-----------------------------------|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Features | Type Type | Loc² | Texture | Rema | rks |
| 17-5 | 104R2/1 | 100 | Color (III) or sty | | | | FSL | | |
| 5 14 | 104011 | 95 | 104R5/6 | 5 | | | FSL | | |
| 7-13 | 100/24/1 | | | | | | SCL | | |
| 12-40 | 104K3/1 | 90 | 104R6/8 | 10 | | | | | |
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| | | | | | | | | | |
| ¹Type: C=C | oncentration, D=Dep | oletion, RM | Reduced Matrix, M | S=Masked | Sand Gr | ains. | | Pore Lining, M= | |
| Hydric Soil | Indicators: (Applic | cable to all | LRRs, unless othe | rwise note | ed.) | | Indicators for F | | dric Soils ³ : |
| Histosol | (A1) | | Polyvalue Be | elow Surfa | ce (S8) (L | RR S, T, | | | |
| | pipedon (A2) | | Thin Dark S | | | | | (A10) (LRR S) | 14- MI DA 450A B\ |
| | istic (A3) | | Loamy Much | - | | (0) | Reduced V | loodolain Soils (| ide MLRA 150A,B) F19) (LRR P, S, T) |
| | en Sulfide (A4) d Layers (A5) | | Depleted Ma | | (Г2) | | | Bright Loamy S | |
| | Bodies (A6) (LRR F | P, T, U) | Redox Dark | | -6) | | (MLRA 1 | 0.00 | |
| | ucky Mineral (A7) (L | | | | | | | Material (TF2) | (7510) |
| | resence (A8) (LRR I | | Redox Depr | | 8) | | | w Dark Surface ain in Remarks) | |
| | ick (A9) (LRR P, T) | | Marl (F10) (I | | (MI DA 1 | 541 | Other (Expi | ain in Remarks) | |
| | d Below Dark Surfac ark Surface (A12) | ce (ATT) | Iron-Mangar | | | | T) 3Indicators | of hydrophytic | vegetation and |
| _ | rairie Redox (A16) (| MLRA 150 | | | | | wetland | hydrology must | be present, |
| | Mucky Mineral (S1) | | Delta Ochrid | | | | | isturbed or prob | lematic. |
| | Gleyed Matrix (S4) | | Reduced Ve | | | | | | |
| | Redox (S5) | | Piedmont FI | oodplain S Bright Loar | iolis (F19) my Soils (| (MLKA 1 | 49A) RA 149A, 153C, 153 | (D) | |
| | Matrix (S6) Inface (S7) (LRR P, | S. T. U) | Allollalous | Drigin Loai | illy cons (| 20) (11121 | 177 17071, 1000, 100 | -, | |
| | Layer (if observed) | | | | | | T | | |
| Type: | | | | | | | | \ | |
| Depth (in | ches): | | | | | | Hydric Soll Pres | sent? Yes | No |
| Remarks: | | | | | | | | | |
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Wetland data point wsup024f_w facing north.



Wetland data point wsup024f_w facing west.

Photo Sheet 2 of 3

| Project/Site: ACP C | ity/County: SUFFOIK Sampling Date: 12/8/15 |
|---|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: W54p 024-4 |
| Investigator(s): EST-M. Smith, K. MUTPhrey s | |
| Landform (hillslope, terrace, etc.): | ocal relief (concave, convex, none): \$10+ Slope (%): 2-4 |
| Subregion (LRR or MLRA): LRRT Lat: 36.71 | 454 Long:-76.71535 Datum: W65 84 |
| | |
| Soil Map Unit Name: Rains Fine Sonly Worn | 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 di | isturbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally prob | lematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing s | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No No No | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | |
| High Water Table (A2) — Marl Deposits (B15) | |
| Saturation (A3) Hydrogen Sulfide Od | · · · · · · · · · · · · · · · · · · · |
| | res along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduced | d Iron (C4) Crayfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduction | on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface (C | |
| Iron Deposits (B5) Other (Explain in Ref | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | ALA |
| Surface Water Present? Yes No Depth (inches): | |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos | , previous inspections), if available: |
| Remarks: | |
| Trial no. | |
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| 2 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|---------------|---------------|---------------|--|
| Tree Stratum (Plot size: 305+X306+) 1. Pinus taeda | % Cover 45 | Species? | Status FAC | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 Acer rubrum | 10 | N | FAC | |
| 3. Liquidombar Styracifica | | N | FAC | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | That We Obl., FACW, of FAC. |
| | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | 75 | = Total Co | | OBL species x 1 = |
| 50% of total cover: <u>37.</u> | 5 2001 | = Total Co | 22.5 | FACW species x 2 = |
| 50% of total cover: 377 | 20% 0 | total cover | 001 | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 308+ x 308+) | 20 | 1 | FAC | FACU species x 4 = |
| 1. TIEX OPACA | 15 | N | FAC | UPL species x 5 = |
| 2. Liquidambar Styrocifica | 20 | -14 | | Column Totals: (A) (B) |
| 3. QUETTUS Nigra | 20 | -21 | FAC | () |
| 4. Oxydendrum arboreum | | -14 | FACU | Prevalence Index = B/A = |
| 5. Symplocos tinctoria | 20 | ' | FAC | Hydrophytic Vegetation Indicators: |
| 6. Vaccinium corymbosum | _2 | N | FACW | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | 79 | = Total Co | ver | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 39, 4 | 5 20% of | total cover | : 15.8 | |
| Herb Stratum (Plot size: 3064 x 3064) | < | . / | -0.01-1 | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 2 | 7 | FACW | be present, unless disturbed or problematic. |
| 2. MI+Chella repens | 5 | 7 | FACU | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | and the state of t |
| 11. | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| | - | | | noigh. |
| 12 | 5 | = Total Co | /85 | A STATE OF THE STA |
| 50% of total cover: 2.5 | | f total cover | | |
| 30% of total cover. A 3 | 20 70 0 | total cover | - | |
| Woody Vine Stratum (Plot size: 3UF+ X30F+) | 5 | V | FAC | |
| 1. Smilax rotundifolia | | | PAC | 1 |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | _ 5 | = Total Co | ver | Vegetation Present? Yes No |
| 50% of total cover: 2.5 | 20% o | f total cover | -1_ | Present? Yes No No |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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| Profile Des | cription: (Describe | to the depth | | | icator o | rconfirm | the absence o | of Indicators.) | |
|-------------|--|---------------|-------------------|-------------------------------|------------|----------|------------------------|-------------------|--|
| Depth | Matrix_ | | | x Features | n m n | I no2 | Texture | R | emarks |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | | ype | Loc² | FSL. | K | V11146111 W |
| 0-12 | 104R3/2 | 100 | | | | | | | |
| 12-20 | 2.545/3 | 90 3 | 1.546/4 | 10 | <u>C</u> . | 2 | SCL | | |
| | | | / | | | | | | |
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| | | | | | | | 2, ,, | DI Dona Linia a | A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A.A. |
| ¹Type: C=C | oncentration, D=Dep | oletion, RM=R | Reduced Matrix, M | S=Masked Sa | and Gra | ins. | | PL=Pore Lining | : Hydric Solls ³ : |
| Hydric Soil | Indicators: (Applic | able to all L | | | | | | | |
| Histoso | | | Polyvalue Bo | | | | | uck (A9) (LRR (| |
| _ | pipedon (A2) | | Thin Dark S | | | | | uck (A10) (LRR | outside MLRA 150A,B) |
| | istic (A3) | | | y Mineral (F1 | | 0) | Reduce | ed Vertic (F10) (| oils (F19) (LRR P, S, T) |
| | en Sulfide (A4) | | | ed Matrix (F2) |) | | | lous Bright Loar | |
| | d Layers (A5) | T 10 | Depleted Ma | | | | | A 153B) | ., 3013 (1 20) |
| | Bodies (A6) (LRR F | | | Surface (F6) rk Surface (F | 7) | | • | rent Material (T | F2) |
| | ucky Mineral (A7) (L | | Redox Depr | | () | | | nallow Dark Sur | |
| | resence (A8) (LRR l uck (A9) (LRR P, T) | | Marl (F10) (I | | | | | Explain in Rema | |
| - | d Below Dark Surface | | | hric (F11) (M | LRA 15 | 1) | | | 2014 • |
| | ark Surface (A12) | ,c (A11) | | ese Masses | | | T) ³ Indica | ators of hydroph | ytic vegetation and |
| | Prairie Redox (A16) (| MLRA 150A) | | ace (F13) (LF | | | | and hydrology r | nust be present, |
| | Mucky Mineral (S1) (| | | (F17) (MLRA | | | unle | ss disturbed or | problematic. |
| | Gleyed Matrix (S4) | 3/10/1 1 .5/ | Reduced Ve | rtic (F18) (ML | RA 150 | A, 150B) | i | | |
| | Redox (S5) | | | oodplain Soils | | | | | |
| | d Matrix (S6) | | Anomalous | Bright Loamy | Soils (F | 20) (MLF | A 149A, 153C, | 153D) | |
| Dark St | urface (S7) (LRR P, | S, T, U) | | | | | | | |
| Restrictive | Layer (if observed) | : | | | | | | | |
| Type: | (7) | | | | | | | | |
| Depth (in | nches): | | | | | | Hydric Soll | Present? Ye | s No |
| Remarks: | 1100000 | | | | | | | | |
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Upland data point wsup024_u facing east.



Upland data point wsup024_u facing south.

Photo Sheet 3 of 3

| Project/Site: A C P | City/County: SUFFOIK Sampling Date: 12/8/15 |
|---|---|
| Applicant/Owner: DOMINION | State: VA Sampling Point: WSup023f- |
| Investigator(s): ESI-M. Smith, K. Murphrey | Section, Township, Range: NA |
| Landform (hillslope, terrace, etc.): Interstream flat | Local relief (concave, convex, none): Con Cave Slope (%): U-2 |
| Landrorm (nillslope, terrace, etc.). | |
| Subregion (LRR or MLRA): LRK T Lat: 36. | |
| Soil Map Unit Name: Rouns Fine Sondy wor | |
| Are climatic / hydrologic conditions on the site typical for this time of y | /ear? Yes No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly | ly disturbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally pr | roblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point locations, transects, important features, etc. |
| | |
| Hydrophytic Vegetation Present? Yes No | - Is the Sampled Area |
| Hydric Soil Present? Yes No | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | |
| Surface Water (A1) Aquatic Fauna (B: | |
| ✓ High Water Table (A2) Marl Deposits (B1) | 15) (LRR U) Drainage Patterns (B10) |
| ✓ Saturation (A3) Hydrogen Sulfide | |
| | heres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | |
| | uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | 7.1 (1) |
| Iron Deposits (B5) Other (Explain in I | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | . A(A |
| Surface Water Present? YesNo Depth (inches | s): |
| Water Table Present? Yes No Depth (inches | s): Surface Wetland Hydrology Present? Yes No |
| Saturation Present? Yes No Depth (inche: (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial pho- | tos, previous inspections), if available: |
| Remarks: | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| 2241.72.6 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|-------------|-----------|--|
| Tree Stratum (Plot size: 30 F+ X 30 F4) 1. Pinus + neco | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| | 40 | | FAC | |
| 3. | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: 1009 (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | 7> | | | OBL species x 1 = |
| | | = Total Cov | | FACW species x 2 = |
| 50% of total cover: 35 | 20% of | total cover | : _ [] | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 3064 X 3064) | 110 | . / | -1- | FACU species x 4 = |
| 1. I IPX OPACO | 40 | | FAC | UPL species x 5 = |
| 2. MACCINIUM COYGMOOSUM | 60 | -/- | FACW | Column Totals: (A) (B) |
| 3. Symplocos tinctoria | 20 | N | FAC | Countri Totals (A) (B) |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | 120 | | | 3 - Prevalence Index is ≤3.01 |
| | 120 | = Total Cov | er Old | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: | 20% of | total cover | 27 | |
| Herb Stratum (Plot size: 30+ X 30+) 1. Arundinaria gigantea | 10 | 4 | FACW | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3. | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 10 | = Total Cov | rer | |
| 50% of total cover: | 20% of | total cover | 7 | |
| Woody Vine Stratum (Plot size 30+1X30+1) | | ١., | | |
| 1. Smilax rollundifolion | 5 | | FAC | |
| 2. | | | | |
| 3. | | | | |
| 4. | | 1 | | |
| 5. | | | | Hydrophytic |
| | 5 | = Total Cov | rer | Vegetation |
| 50% of total cover: 2 - 5 | 20% of | total cover | | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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| Depth | ription: (Describe t Matrix | | | x Features | | | | | | |
|---|--|--|--|--|---|--|---|---|---|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type | Loc² | Texture | | Remarks | |
| 0-10 | 101/R4/1 | 100 | 101 <u>101 101 101 101 101 101 101 101 101</u> | | | | FSL | | | |
| 0-20 | 104R4/1 | 90 10 | yR3/6 | 10 | C | | SCL | | | |
| Type: C=Co ydric Soil I Histosol Histic Ep Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pro 1 cm Mu Depleted Thick Da Coast Pro Sandy M | concentration, D=Deplindicators: (Applications) (A1) sipedon (A2) stic (A3) in Sulfide (A4) I Layers (A5) Bodies (A6) (LRR P, Cky Mineral (A7) (LR P, Cky Mineral (A7)) desence (A8) (LRR Uck (A9) (LRR P, T) desence (A12) desence (A12) desence (A13) desence (A14) desence (A16) (New Surface (A16) (New Surface (A16)) desence (A16) (New Surface (A16)) | etion, RM=Reable to all LR T, U) RR P, T, U) e (A11) | educed Matrix, M. Rs, unless othe Polyvalue Book Thin Dark Sook Loamy Muck Loamy Gley Depleted Makedox Dark Depleted Dakedox Depr Marl (F10) (Income Mangar Umbric Surfored Reduced Ve | erwise note elow Surface (S9) xy Mineral (eed Matrix (F3) Surface (Fark Surface (F11) chric (F11) nese Masse ace (F13) (c: (F17) (ML ertic (F18) (| ed.) ce (S8) (L (LRR S, (F1) (LRF F2) c) (F7) d) (MLRA 1 es (F12) (LRR P, T RA 151) MLRA 15 | ains. RR S, T, U T, U) O) 51) LRR O, P T, U) GOA, 150B | 2Location: Indicators U) 1 cm M 2 cm M Reduce Piedme Anoma (MLF Red Pa Very S Other (T) 3Indic wett unle | for Problet luck (A9) (L luck (A10) (ed Vertic (F ont Floodplat lous Bright (A 153B) arent Materi hallow Dark Explain in I ators of hydiand hydrol | LRR S) 18) (outside N ain Soils (F19) Loamy Soils (F al (TF2) s Surface (TF1) | ILRA 150A,E (LRR P, S, T F20) ation and resent, |
| Sandy R Stripped Dark Sui Restrictive I | edox (S5) Matrix (S6) rface (S7) (LRR P, S Layer (If observed): | | Piedmont Fi Anomalous | oodplain S | oils (F19) | (MLRA 1 | 49A) | , 153D) | | |
| Type: Depth (inc | ches): | | _ | | | | Hydric Soll | Present? | Yes | No |
| Remarks: | | | | | | | | | | |
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Wetland data point wsup023f_w facing east.



Wetland data point wsup023f_w facing south.

Photo Sheet 1 of 2

| Project/Site: ACP | | City/County: SUFFOIK | Samplin | g Date: 12/8/15 |
|---|--|---|------------------------------|---|
| Applicant/Owner: Dominic | 00 | | State: VA Samplin | g Point: WSup 023-u |
| Investigatorial FST-M. SC | nith, K. MUrphrey | Section Township Pange: | NA | |
| investigator(s): 202 111101 | :): WILSTOPE | _ Section, Township, Nange | COOVE X | Slone (%) 0-2 |
| Landform (hillslope, terrace, etc | 2RT Lat:36 | Local relief (concave, conve. | 7671307 | 310pe (10) |
| | | | | |
| | > Fine Sandy luon | | NWI classification: | |
| Are climatic / hydrologic condition | ons on the site typical for this time of | year? Yes V No No | (If no, explain in Remarks.) | |
| | , or Hydrology significant | | al Circumstances" present? | Yes No |
| | , or Hydrology naturally p | | , explain any answers in Ren | narks.) |
| SUMMARY OF FINDING | S – Attach site map showin | ig sampling point locat | ions, transects, impo | rtant features, etc. |
| Hydrophytic Vegetation Prese | ent? Yes No | | | |
| Hydric Soil Present? | Yes No | Is the Sampled Area | | |
| Wetland Hydrology Present? | Yes No | within a Wetland? | Yes No | |
| Remarks: | | | | |
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| HYDROLOGY | | | | |
| | | | Secondary Indicators (min | imum of two required) |
| Wetland Hydrology Indicato | of one is required; check all that apply | Λ. | Surface Soil Cracks (| |
| | | | Sparsely Vegetated C | 0 |
| Surface Water (A1) | Aquatic Fauna (B Marl Deposits (B1 | | Drainage Patterns (B | |
| High Water Table (A2) | Hydrogen Sulfide | | Moss Trim Lines (B16 | |
| Saturation (A3) | | pheres along Living Roots (C3) | | AB. |
| Water Marks (B1) Sediment Deposits (B2) | Presence of Redu | | Crayfish Burrows (C8 | |
| Drift Deposits (B3) | | action in Tilled Soils (C6) | Saturation Visible on | |
| Algal Mat or Crust (B4) | Thin Muck Surface | | Geomorphic Position | Tage 100 100 100 100 100 100 100 100 100 10 |
| Iron Deposits (B5) | Other (Explain in | | Shallow Aquitard (D3) | |
| Inundation Visible on Aeri | The state of the s | 100000000000000000000000000000000000000 | FAC-Neutral Test (D5 | |
| Water-Stained Leaves (B | | | Sphagnum moss (D8) | (LRR T, U) |
| Field Observations: | | | | |
| Surface Water Present? | Yes No Depth (inche | es): NA | | |
| Water Table Present? | Yes No Depth (inche | es): >20 | | ./ |
| Saturation Present? | Yes No Depth (inche | es): 720 Wetland | Hydrology Present? Yes | No |
| (includes capillary fringe) | | 350 | | |
| Describe Recorded Data (stre | eam gauge, monitoring well, aerial pho | otos, previous inspections), if a | vailable: | |
| Remarks: | * | | | |
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| C.C. Vond | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|-------------|---------------|-----------|---|
| Tree Stratum (Plot size: 3064 X 3064) | | Species? | | Number of Dominant Species 3 |
| 1. Pinus toeda | 10 | -/- | FACU | That Are OBL, FACW, or FAC: (A) |
| 2. Que (cus falcata | 10 | <u>N</u> | FAC | Total Number of Dominant |
| 3. Acel runry | 10 | $\frac{N}{N}$ | FACU | Species Across All Strata: (B) |
| 4. Liriodendron tulipifera | 10 | | THEOL | Percent of Dominant Species 75 |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | 80 | = Total Co | | OBL species x 1 = |
| 50% of total cover: 40 | 200/ - | total cover | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30 + X 30 + 1) | 20% 01 | total cover | | FAC species x 3 = |
| 1. TICK OPOCO | 30 | 4 | FAC | FACU species x 4 = |
| 2. Oxydendrum arboreum | 15 | | FACU | UPL species x 5 = |
| 3. Samplocus tinctoria | 30 | | FAC | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1_Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.0¹ |
| | 75 | = Total Cov | ver | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 37. 5 | 5 20% of | total cover | : 15_ | |
| Herb Stratum (Plot size: 3054 X 3054) | ~ | .10 | / | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Avundinavia gigontea | 2 | -AH | FACW | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | | = Total Cover | | |
| 50% of total cover: | 20% 01 | total cover | | |
| 1. Smilax (Otgodifica) | 2 | AU | FAC | |
| | | 14.1 | | |
| 2 | | | | |
| 3 | | - | - | |
| 5. | | | | H. L. Starter |
| J | 2 | = Total Co | /er | Hydrophytic Vegetation |
| 50% of total cover: | | total cover | | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | | 10101 00701 | | |
| Transaction of the property of | /- | | | |
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| Inches Color (moist) | Profile Description: (Describe to the dep | | | dicator | or confirm | the absence of Inc | ilcators.) | |
|--|--|-------------------|--|-----------|------------|--|-------------------------------|-------|
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, D=Scale Scale Sca | | | | Type | Loc² | Texture | Remarks | |
| Type: C=Concentration. D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Cocation: PL=Pore Lining, M=Matrix. | THIGHTON - | 000 (1110.01) | | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A1) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Torm Muck (A9) (LRR P, T, U) Redox Dark Surface (F6) Torm Muck (A9) (LRR P, T, U) Depleted Bolow Dark Surface (F7) Torm Muck (A9) (LRR P, T, U) Depleted Bolow Dark Surface (F1) Thick Dark Surface (A11) Thick Dark Surface (A11) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (F1) (LRR O) Depleted Othric (F11) (MLRA 151) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR P, S, Delta Ochric (F17) (MLRA 150B) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S9) Dark Surface (F7) Pledmont Floodplain Soils (F19) (LRR P, T, U) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Very Shallow Dark Surface (F12) Very Shallow Dark Surface (F13) (LRR P, T, U) Sendy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S9) Dark Surface (F13) (LRR P, S, T, U) Reduced Vertic (F18) (MLRA 150A) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S9) Anomalous Bright Loamy Soils (F20) (MLRA 149A) FS Layer (If observed): Type: Depth (inches): Depth (inches): | | | | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Following Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soils Figure Hydric Hydric Soil Figure Hydric Soil Figure Hydric Soil Figure Hydric Hydric Soil Figure Hydric Soil Figure Hydric Soil Figure Hydric Hydric Hydric Soil Figure Hydric | | | | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Pydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | (A) will be | | | | | | | |
| Histosol (A1) | 14-20 2.545/4 100 | | | | | SCL _ | | |
| Histosol (A1) | | | | | | | | |
| Histosol (A1) | | | | | | | | |
| Histosol (A1) | ¹ Type: C=Concentration, D=Depletion, RM: | Reduced Matrix, M | IS=Masked S | Sand Gra | ins. | | | |
| Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F6) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Depleted Matrix (F2) Depleted Dark Surface (F6) Marl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Define (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Sois (F19) (MLRA 150A) Depleted Matrix (S6) Dark Surface (F10) No Sestrictive Layer (If observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): | The Company of the Co | | | | DD C T II | | | |
| Black Histic (A3) | | | | | | . — | | |
| Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Muck Presence (A8) (LRR V) Redox Depressions (F8) Norganic Bodies (A6) (LRR V) Redox Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | JA,B) |
| Stratified Layers (A5) | | | | | -, | | | |
| Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (TF2) Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface (TF12) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F18) (MLRA 150A, 150B) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A, 153C, 153D) RestrictIve Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | Anomalous | Bright Loamy Soils (F20) | |
| | | | | | | The state of the s | | |
| 1 cm Muck (A9) (LRR P, T) | | | | | | | | |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Thick Dark Surface (A12) | | | 10 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m | | 41 | Other (Expla | iin in Remarks) | |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Sandy Redox (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | T) 3Indicators | of hydrophytic vegetation and | 1 |
| Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No | | | | | | | | |
| Sandy Gleyed Matrix (S4) | | | | | , , | | | |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | Reduced Ve | ertic (F18) (M | LRA 15 | 0A, 150B) | | | |
| Stripped Matrix (S6) Anomalous Bright Learny Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No | | Piedmont Fl | loodplain Soi | ls (F19) | (MLRA 14 | 9A) | | |
| Restrictive Layer (if observed): Type: | | Anomalous | Bright Loamy | y Soils (| 720) (MLR | A 149A, 153C, 153 | D) | |
| Type: | Dark Surface (S7) (LRR P, S, T, U) | | | | | | | |
| Depth (inches): No | Restrictive Layer (if observed): | | | | | | | |
| Depth (inches). | Туре: | | | | | | | |
| Remarks: | Depth (inches): | | | | | Hydric Soil Pres | ent? Yes No | |
| | Remarks: | | | | | | | |
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Upland data point wsup023_u facing south.



Upland data point wsup023_u facing west.

Photo Sheet 2 of 2

| Project/Site: ACP | City/County: SUFFOL | √⊂ Sa | ampling Date: 12/3/15 |
|--|---|------------------------|--|
| Applicant/Owner: Dominion | Suj/Stally | State: VA Sa | ampling Point Wsup 0225_1 |
| Applicant/Owner: Dot/11/10/1 | | | ampang rome. |
| Investigator(s): FSI-M. SMith, K. Murphrey | Section, Township, Range: _ | SIB4 | |
| Landform (hillslope, terrace, etc.): Interstream flat | Local relief (concave, convex | , none): | Slope (%): 0-2 |
| Subregion (LRR or MLRA): LRRT Lat: 36. | /1858 Long: | -16.10197 | Datum: W65 8 |
| Soil Map Unit Name: Rains Fine sondy 1000 | 7 | NWI classification | on: <u>\$55</u> |
| Are climatic / hydrologic conditions on the site typical for this time of y | rear? Yes No | (If no, explain in Rem | arks.) |
| Are Vegetation, Soil, or Hydrology significant | | al Circumstances" pres | |
| Are Vegetation, Soil, or Hydrology naturally p | | explain any answers in | n Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point locati | ons, transects, ir | mportant features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | is the Sampled Area | Yes | . No |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicator | s (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply |) | Surface Soil Cra | |
| Surface Water (A1) Aquatic Fauna (B | | | ated Concave Surface (B8) |
| High-Water Table (A2) Mari Deposits (B | [8] (15] [15] [15] [15] [15] [15] [15] [15] [| Drainage Patter | 1일 10 전 10 |
| Saturation (A3) Hydrogen Sulfide | | Moss Trim Line: | MNG 1945 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1 |
| | heres along Living Roots (C3) | Dry-Season Wa | ter Table (C2) |
| Sediment Deposits (B2) Presence of Rede | | Crayfish Burrow | |
| Drift Deposits (B3) Recent Iron Redu | action in Tilled Soils (C6) | | le on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | e (C7) | Geomorphic Po | |
| Iron Deposits (B5) Other (Explain in | Remarks) | Shallow Aquitar | |
| Inundation Visible on Aerial Imagery (B7) | | FAC-Neutral Te | |
| Water-Stained Leaves (B9) | | Sphagnum mos | S (D8) (LRR 1, U) |
| Field Observations: | , NA | | |
| Surface Water Present? YesNo Depth (inche | s): //// | | |
| Water Table Present? Yes No Depth (inche | s): 17 | U.d.alami Bassant? | Yes No |
| Saturation Present? Yes No Depth (inche (includes capillary fringe) | s): Jaraact Wetland | Hydrology Present? | resNo |
| Describe Recorded Data (stream gauge, monitoring well, aerial pho | tos, previous inspections), if av | railable: | mental and miles and |
| | | | |
| Remarks: | -0104-10 0 | 10155 Pre | Sent. |
| Portions have standing water, | Spragnari | 10-0 | 3 |
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Sampling Point: Wsup0225-W

| Total Covers | FAC FAC FACW FACW OBL | Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species | 1 = | (B) (B) (ain) must |
|---------------------------------------|--|---|--|-------------------------|
| Total Covers | FAC FACW OBL | Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: | Multiply by: 1 = 2 = 3 = 4 = 5 = ators: tic Vegetation 6 11 getation¹ (Explaitle of the complete o | (A/B) (A/B) (B) must |
| Total Covers | FAC FACW FACW FACW OBL | That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species | Multiply by: 1 = 2 = 3 = 4 = 5 = ators: tic Vegetation 6 11 getation¹ (Explaitle of the complete o | (B) must |
| Total Covers | FAC FACW OBL | Total % Cover of: OBL species | 1 = | (B) (B) (ain) must |
| Total Covers | FAC FAC FACW FACW OBL | Total % Cover of: OBL species | 1 = | (B) (B) (ain) must |
| Total Covers | FAC FAC FACW FACW OBL | OBL species | 1 = | (B) (B) (B) (B) |
| Total Covers | FAC FAC FACW FACW OBL | FACW species | 2 = | (B) ain) must |
| N N N N N N N N N N N N N N N N N N N | FAC FACW FAC FACW OBL | FAC species | 3 = | (B) |
| Total Covers | FAC FAC FAC OBL | FACU species | 4 = | ain) must |
| Total Covers | FAC FAC FAC OBL | UPL species | ators: tic Vegetation getation¹ (Explait and hydrology problematic. Strata: vines, 3 in. (7.6 | (B)ain) must |
| Total Covers | FAC FACW OBL | Prevalence Index = B/A = Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophyt 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Veg Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | ators: tic Vegetation 6 pl egetation 1 (Explaitland hydrology problematic. 1 Strata: vines, 3 in. (7.6 | ain) must |
| Total Covers | FAC FACW OBL | Prevalence Index = E/A = Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophytic2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or problemations of Four Vegetation Tree – Woody plants, excluding more in diameter at breast height height. | ators: tic Vegetation 6 plant (Explantion) tland hydrology (problematic.) Strata: vines, 3 in. (7.6 | ain) must |
| Total Covers | FAC FACW OBL | Hydrophytic Vegetation Indica 1 - Rapid Test for Hydrophyt 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Veg ¹Indicators of hydric soil and wetl be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | ators: tic Vegetation 6 pt egetation 1 (Explait tland hydrology problematic. 1 Strata: vines, 3 in. (7.6 | ain) must |
| Total Covers | FAC FACW OBL | 1 - Rapid Test for Hydrophytic 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Vegetation 1 Indicators of hydric soil and weth be present, unless disturbed or problemations of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | tic Vegetation 6 pl getation (Explait that the following problematic. strata: vines, 3 in. (7.6) | must |
| Total Covotal covers | FAC FACW OBL | 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Veg ¹Indicators of hydric soil and wett be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | getation ¹ (Explait tland hydrology problematic. Strata: vines, 3 in. (7.6 | must |
| Total Coverion | FAC FACW OBL | 3 - Prevalence Index is ≤3.0 Problematic Hydrophytic Vegetation ¹Indicators of hydric soil and weth be present, unless disturbed or properties of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | getation ¹ (Explait tland hydrology problematic. Strata: vines, 3 in. (7.6 | must |
| otal cover | FAC FACW OBL | Problematic Hydrophytic Verifications of hydric soil and wet be present, unless disturbed or problematic Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | getation ¹ (Explaitland hydrology problematic. Strata: vines, 3 in. (7.6 | must |
| otal cover | FAC FACW OBL | ¹ Indicators of hydric soil and weth be present, unless disturbed or p Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | tland hydrology problematic. Strata: vines, 3 in. (7.6 | must |
| 7 7 7 | FAC FACW OBL | Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | problematic. Strata: vines, 3 in. (7.6 | i cm) c |
| У | FACW OBL | Definitions of Four Vegetation Tree – Woody plants, excluding more in diameter at breast heigh height. | Strata: vines, 3 in. (7.6 | |
| У | OBL | Tree – Woody plants, excluding more in diameter at breast heigh height. | vines, 3 in. (7.6 | |
| | | more in diameter at breast heigh height. | | |
| | | height. | it (DBH), regard | |
| | | - 11 101 1 101 | | liess o |
| | ARCH SERVE ST | Sapling/Shrub - Woody plants, than 3 in. DBH and greater than | excluding vines 3.28 ft (1 m) tal | s, less II. |
| 1 / 2 hz 146 | | Herb – All herbaceous (non-wood of size, and woody plants less the | | ardless |
| | Land Bridge And Address of the Control of the Contr | | | 0.01- |
| | | Woody vine - All woody vines g height. | reater than 3.2 | B II III |
| | | | | |
| Total Cov | /er | 1 (1) | ALCOHOLOGY STATES | |
| otal cover | 26 | | | |
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| | FIRE STATES | | | |
| | | Hydrophytic | / | |
| Total Cov | /er | | | |
| | | Present? Yes | _ No | |
| WIGHT LUVET | | | | 40.00 |
| | | | | |
| | | otal Cover | Present? Yes | otal Cover Vegetation |

| | cription: (Describe | to the de | | | | or confir | n the absence of | mulcators.) | |
|--|---|------------|------------------------|-------------|-------------|-----------|--|--|--------------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | ox Feature: | Type' | Loc² | Texture | Remarks | |
| 0-8 | 2.542.5/1 | 100 | | | | | MSL | mucky | |
| 0-14 | 2565/1 | 70 | 2.542/1 | 30 | | | SCL | | |
| 16- 20 | 1010/1 | 00 | 12605110 | 10 | - | ~^ | SCL | | 7 30 34 |
| 17-40 | 109K3/1 | 70 | 109K 216 | 10 | | -// | 300 | | |
| | | | | | | | 1 | | |
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| ¹Type: C=C | concentration, D=Dep | letion RM | =Reduced Matrix, M | S=Masked | Sand Gr | ains. | ² Location: P | L=Pore Lining, M=Matrix. | |
| Hydric Soil | Indicators: (Applic | able to al | LRRs, unless other | rwise not | ed.) | | Indicators fo | r Problematic Hydric Soils ³ : | |
| Histoso | | | Polyvalue B | | | RR S, T, | U) 1 cm Mu | ck (A9) (LRR O) | |
| Histic E | pipedon (A2) | | Thin Dark S | | | | | ck (A10) (LRR S) | |
| Tenanopolistica (Chile | istic (A3) | | Loamy Muci | | | (0) | | Vertic (F18) (outside MLRA 1 | |
| | en Sulfide (A4) | | Loamy Gley Depleted Ma | | F2) | | ALC: YELL AND THE STREET STREET, STREE | t Floodplain Soils (F19) (LRR F us Bright Loamy Soils (F20) | , 5, 1, |
| Charles of the College | d Layers (A5) : Bodies (A6) (LRR P | T. U) | Redox Dark | | 6) | | | (153B) | |
| | ucky Mineral (A7) (LI | | | | | | The state of the s | ent Material (TF2) | |
| The second second second second | resence (A8) (LRR L | | Redox Depr | essions (F | | | The second secon | allow Dark Surface (TF12) | |
| | uck (A9) (LRR P, T) | | Marl (F10) (| | | -1. | Other (E | xplain in Remarks) | |
| The state of the state of the state of | d Below Dark Surfac | e (A11) | Depleted Oc | | | | T) ³ Indical | ors of hydrophytic vegetation as | nd |
| John Library Constitution | ark Surface (A12) Prairie Redox (A16) (I | MI PA 150 | Iron-Mangar | | | | | nd hydrology must be present, | |
| 100 to 10 | Mucky Mineral (S1) (| | | | | , 0, | | s disturbed or problematic. | |
| The state of the s | Gleyed Matrix (S4) | | Reduced Ve | | | OA, 150B | 1) | | |
| 100 Hebrit 1000 Land | Redox (S5) | | Piedmont FI | loodplain S | ioils (F19) | (MLRA 1 | 49A) | | |
| Company Company | d Matrix (S6) | | Anomalous | Bright Loar | my Soils (| F20) (MLI | RA 149A, 153C, 1 | 53D) | |
| | urface (S7) (LRR P, S | | | | | | | | tor new part |
| | Layer (if observed) | | | | | | | | |
| Type: | ab a a V | NT TOTAL | | | | | Hydric Soll P | resent? Yes No_ | |
| 201 1100 120 120 X 2.5 | iches): | | | | | | Hydric Con 1 | | |
| Remarks: | | | | | | | | | |
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Wetland data point wsup022s_w facing south.



Wetland data point wsup022s_w facing north.

Photo Sheet 1 of 3

| 1.0 | County: Suffork Sampling Date: 3/30/16 |
|--|---|
| | State: VA Sampling Point: WSup 0225 W |
| Applicant/Owner: Dominion | State: VII Sampling Point: 436 Po |
| Investigator(s): S. Bryan, L. Roper Secti | on, Township, Range: NDN E |
| Landform (hillslope, terrace, etc.): flat Local | relief (concave, convex, none): <u>None</u> Slope (%): <u>D-2</u> |
| Subregion (LRR or MLRA): LPRT Lat: 36.77 | 2431 Long: -76,70698 Datum: W6589 |
| Soil Map Unit Name: Rains fine sundy loam | |
| I FERRICA DE SE ESTADO DE LA PROPERTO DE LA PROPERTO DE LA PROPERTO DE LA PROPERTO DE LA PERTO DEL PERTO DE LA PERTO DEL PERTO DE LA PERTO DEL PERTO DEL PERTO DE LA PERTO DE LA PERTO DE LA PERTO DEL | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | es V No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly disturbed. | |
| Are Vegetation, Soil, or Hydrology naturally problem | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing san | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | |
| Hydric Soil Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Wetland Hydrology Present? | within a Wetland? Yes No |
| Remarks: | |
| silviculture area | |
| Silviculture area | |
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| HYDROLOGY | Secondary Indicators (minimum of two required) |
| Wetland Hydrology Indicators: | 为是是自己的,我们就是是不是一个人,我们就是是自己的,我们就是有一种的人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是一个 |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LR | |
| Saturation (A3) Hydrogen Sulfide Odor (| : 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| Water Marks (B1) Oxidized Rhizospheres a | |
| Sediment Deposits (B2) Presence of Reduced Iro | 1822년 1일 |
| Drift Deposits (B3) Recent Iron Reduction in | n Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | 2007년 (1882년) 전 1982년 (1882년 - 1882년) 전 1882년 - 1 2일 4일 대한민국 (1882년 - 1882년 - 1882년) 전 1882년 - 1882년 - 1882년 (1882년 - 1882년) 전 1882년 - 1882년 |
| Iron Deposits (B5) Other (Explain in Remark | FAC-Neutral Test (D5) |
| Inundation Visible on Aerial Imagery (B7) | Sphagnum moss (D8) (LRR T, U) |
| Water-Stained Leaves (B9) | Spriagrium moss (bb) (ERR 1, 0) |
| Field Observations: | NA |
| | |
| Water Table Present? Yes No Depth (inches): | Control William Brown 12 Very Ma |
| Saturation Present? Yes No Depth (inches): <u>\$\sqrt{\sq}}}}}}}}}}}}}} \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}\sqrt{\sqrt{\sq}\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{</u> | V-face Wetland Hydrology Present? Yes V No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | evious inspections), if available: |
| | |
| Remarks: | |
| Actual for the control of the contro | |
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VEGETATION (Four Strata) - Use scientific names of plants

| VEGETATION (Four Strata) - Ose scientific har | Absolute Dominan | t Indicator | Dominance Test worksheet: |
|--|--|-------------|--|
| Tree Stratum (Plot size: 30ff x 30ff) 1. none | % Cover Species | ? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2. 3. | TABLE TO SERVICE TO SE | | Total Number of Dominant Species Across All Strata: (B) |
| 4. | | | |
| 5. | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | |
| 7. | | | Prevalence Index worksheet: |
| 8. | | | |
| | = Total Co | ver | I PARTICULAR SERVICE AND |
| 50% of total cover: | 20% of total cove | r: | FACW species x 2 = FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30f4 x 30f4) | 1 - V | | FACU species x 4 = |
| 1. Pinus tueda | 60 Y | FAC | UPL species x 5 = |
| 2 | | | Column Totals: (A) (B) |
| 3. | | | Coldinii Totals (A) (5) |
| 4. | | | Prevalence Index = B/A = |
| 5. | | | Hydrophytic Vegetation Indicators: |
| 6 | | | |
| 7 | | | 2 - Dominance Test is >50% |
| 8. | | | 3 - Prevalence Index is ≤3.01 |
| | 60 = Total Co | ver | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 30 | 20% of total cove | r: 12 | |
| Herb Stratum (Plot size: 30ft x 30ft) | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 30 Y | FACW | be present, unless disturbed or problematic. |
| 2. Andropogon alomeratus | 10 4 | FACW | Definitions of Four Vegetation Strata: |
| 3. | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | height. |
| 6 | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11. | | | height. |
| 12. | | | |
| | 4D = Total Co | over | |
| 50% of total cover: 2D | 20% of total cove | r: 8_ | |
| Woody Vine Stratum (Plot size: 30 f4 x 30 f4) | | | |
| 1. none | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | Hydrophytic |
| | = Total Co | over | Vacatation |
| 50% of total cover: | 20% of total cove | er: | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | AND RESIDENCE OF THE PROPERTY OF THE PERSON OF THE PROPERTY OF THE PERSON OF THE PERSO | | The Property of the Control of the C |
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| Destis Dess | ription: (Describe t | a the death | needed to door | mont the i | Indicator | or confirm | the absence of | findicators) |
|--|--|----------------|-------------------|----------------|-------------|------------|--|--|
| | | to the depth | | | | or commi | the absence of | i indicators.) |
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | | Loc² | Texture | Remarks |
| 0-5 | 2.542.5/1 | 100 | Gold, Amoldy | | | | L | |
| | 000 1 11 | | EY lol. | 20 | | M | 11 | |
| 5-20 | 2.5 / 6/2 | 80 | 2.57 6/6 | | | 11 | SL | |
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| 200 km (140 km) | TOTAL CONTRACTOR OF THE STATE | | | | | | | |
| | | | | | | | | A THE SECRET AND PARTY OF THE SECRET AND A SECRET |
| ¹Type: C=Co | oncentration, D=Depl | etion, RM=R | Reduced Matrix, M | S=Masked | Sand Gra | ains. | ² Location: P | L=Pore Lining, M=Matrix. |
| Hydric Soil | ndicators: (Applica | able to all Li | | | | | | or Problematic Hydric Soils ³ : |
| Histosol | | | Polyvalue Be | | | | LONG THE RESERVE OF THE PERSON | ck (A9) (LRR O) |
| Transaction of the Control of the Co | pipedon (A2) | | Thin Dark St | | | | | ck (A10) (LRR S) I Vertic (F18) (outside MLRA 150A,B) |
| Black Hi | stic (A3) n Sulfide (A4) | | Loamy Muck | | | 0) | | t Floodplain Soils (F19) (LRR P, S, T) |
| | Layers (A5) | | Depleted Ma | | / | | | ous Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | T, U) | Redox Dark | | 6) | | THE RESERVE THE PROPERTY OF TH | A 153B) |
| Programme and the second programme and the sec | cky Mineral (A7) (LR | | Depleted Da | | | | | ent Material (TF2) |
| Muck Pr | esence (A8) (LRR U) |) | Redox Depr | | 8) | | and the second s | allow Dark Surface (TF12) |
| 5-3-4-3-4-3000 SEAK VILLOUGHESS V | ck (A9) (LRR P, T) | | Marl (F10) (I | | | | Other (E | xplain in Remarks) |
| | Below Dark Surface | e (A11) | Depleted Oc | | | | T) ³ Indicat | ors of hydrophytic vegetation and |
| | ark Surface (A12) rairie Redox (A16) (N | 11 DA 150A) | Iron-Mangar | | | | | nd hydrology must be present, |
| Commence of the Commence of th | lucky Mineral (S1) (L | | Delta Ochric | | | , 0, | | s disturbed or problematic. |
| Charles and Charle | leyed Matrix (S4) | | Reduced Ve | | | OA, 150B) | | |
| Contract Con | edox (S5) | | Piedmont Fl | | | | 9A) | |
| | Matrix (S6) | | Anomalous I | Bright Loan | my Soils (F | 20) (MLRA | A 149A, 153C, 1 | 153D) |
| | face (S7) (LRR P, S | | | | | | | |
| Restrictive I | ayer (if observed): | | | | | | | |
| Type: | | | <u> </u> | | | | | |
| Depth (inc | ches): | | | | | | Hydric Soil P | resent? Yes No No No |
| Remarks: | | | | | | | | |
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Wetland data point wsup022s_w2 facing north.



Wetland data point wsup022s_w2 facing west.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region ___ Sampling Date: 12/8/15 City/County: 54FOIK Project/Site: ACP State: VA Sampling Point: WSup 022f-w Applicant/Owner: Dominion Investigator(s): ESJ-M. SMITH, K. MUYPhrey Section, Township, Range: NA Landform (hillslope, terrace, etc.): Interstream flat Local relief (concave, convex, none): CONCAVE Subregion (LRR or MLRA): LRR T Lat: 36.71584 Long: -76.71257 Soil Map Unit Name: Rain & Fine NWI classification: PFO 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 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. Yes Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Secondary Indicators (minimum of two required) Wetland Hydrology Indicators: Surface Soil Cracks (B6) Primary Indicators (minimum of one is required; check all that apply) Sparsely Vegetated Concave Surface (B8) __ Aquatic Fauna (B13) Surface Water (A1) __ Drainage Patterns (B10) ___ Marl Deposits (B15) (LRR U) High Water Table (A2) __ Moss Trim Lines (B16) ___ Hydrogen Sulfide Odor (C1) Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) ___ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Cravfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) __ Thin Muck Surface (C7) Geomorphic Position (D2) _ Algal Mat or Crust (B4) Shallow Aguitard (D3) __ Other (Explain in Remarks) Iron Deposits (B5) ✓ FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) Sphagnum moss (D8) (LRR T, U) Water-Stained Leaves (B9) Field Observations: Depth (inches): NA Surface Water Present? Depth (inches): >201 Water Table Present? No ___ Depth (inches): 12 Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|--|-----------------------------------|---------------|--|
| Tree Stratum (Plot size: 308+ X 308+) | The Property of the State of th | Species? | | Number of Dominant Species |
| 1. Pinus taeda | 60 | Y | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Acer lubrum | 20 | 4 | FAC | |
| | - | 1 | FAC | Total Number of Dominant |
| 3. Liquidambar Styraci 8140 | | | 1110 | Species Across All Strata:(B) |
| 4. | | | | Percent of Dominant Species |
| 5. | | | | That Are OBL, FACW, or FAC: |
| 6. | | | | |
| 7. | THE PROPERTY OF | A Paris of the State of the Paris | | Prevalence Index worksheet: |
| THE CONTRACTOR OF A LITTLE AND ADDRESS OF A LITTLE AND | | | | Total % Cover of: Multiply by: |
| 8 | 45 | | | OBL species x 1 = |
| 112 | | = Total Cov | | FACW species x 2 = |
| 50% of total cover: 42. | 20% of | total cover | : 1/ | |
| Sapling/Shrub Stratum (Plot size: 3051X30 64) | | 11 | | FAC species x 3 = |
| 1. Vaccinium corymbosum | 40 | 7 | FACW | FACU species x 4 = |
| 2. Acer rubram | 10 | N | FAC | UPL species x 5 = |
| 3. Liquidambar Styraciflua | 5 | N | FAC | Column Totals: (A) (B) |
| | - | -01 | FAC | |
| 4. Ilex oraca | _ | ~ | Inc | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1_Rapid Test for Hydrophytic Vegetation |
| 7. | 000000000000000000000000000000000000000 | | | 2 - Dominance Test is >50% |
| | 28.675 | 31111111111 | | 2 - Dominance Test is >50% |
| 8. | = | AND STREET | Later Control | 3 - Prevalence Index is ≤3.01 |
| 20 | 51 | = Total Co | er II L | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: <u>28</u> , | 20% of | total cover | : 11.7 | |
| Hash Stratum (Plot size: 5) (1 X 5) (1) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinario gigantea | | NA | FACW | be present, unless disturbed or problematic. |
| | | | | Definitions of Four Vegetation Strata: |
| 2. | | | | Transfer and the second |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | Minima 5 | height. |
| 6. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| A SECURITY OF THE PROPERTY OF | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. Carlos de la carlo de la carlos del carlos de la carlos del la carlos de la carlos del la carlos de la carlos de la carlos de la carlos del la carlos de la carlos de la carlos de la carlos de la carlos del la carlos de la carlos del la carlos de la carlos de la carlos de la carlos de la | | | | |
| B. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | 21.00 F.U.S. I | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | A. K. J. Halle | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11, | | | | height. |
| COLORS SERVICE DE LA COLOR DE MARCO AL DESARRO DE LA COLOR DEL COLOR DE LA COLOR DE LA COLOR DEL COLOR DE LA COLOR | | | | |
| 12 | 100 | = Total Co | 0176.276.916 | grand the state of |
| 0.0 | | | - parting | |
| 50% of total cover: | 20% of | total cover | | |
| Woody Vine Stratum (Plot size: 304 x 304+) | | | FA- | |
| 1. Smilax volundifulia | 10 | 1 | FAC | |
| 2 | XIII-MIZI | -/ | | |
| | | THE STATE OF THE | | |
| 3. | 100000000000000000000000000000000000000 | EG YET TO | | |
| 4. | | | | |
| 5. | | | | Hydrophytic |
| | 10 | = Total Co | /er | Vegetation |
| 50% of total cover: 5 | STREET AND PROPERTY AND ADDRESS OF THE | total cover | 2 | Present? Yes No |
| | and Application | total cover | | |
| Remarks: (If observed, list morphological adaptations belo | W). | | | |
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| | cription: (Describe t | o the dep | | | | or confirm | the absence of inc | licators.) |
|--|--|----------------|---------------------------------|----------------|---------------------|------------------|--|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | Type' | Loc ² | Texture | Remarks |
| 0-4 | 101/R3/1 | 80 | 104R6/2 | 20 | | | SL | |
| 4-17 | 2.545/2 | 95 | 104R5/8 | 5 | C | PL | SCL | |
| 12-20 | 25/5/2 | 40 | 104RS/8 | 20 | C | ~ | 5/1- | |
| 10 00 | 21 24012 | 00 | 1091310 | - | | 70000 | | |
| - | | | | | - | - | The second section is a second | exceptional control of the control o |
| | | 11000 000 | | | | and the second | | |
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| | | | | U dell'ann | | | | |
| | oncentration, D=Depl | | | | | ains. | | ore Lining, M=Matrix. roblematic Hydric Solis ³ : |
| | Indicators: (Applica | able to all | | | | | | |
| Histosol | (A1) pipedon (A2) | | Polyvalue Be | | | | | A10) (LRR S) |
| and the state of t | istic (A3) | | Loamy Muck | | | | | rtic (F18) (outside MLRA 150A,B) |
| SAME AND ADDRESS OF THE PARTY O | en Sulfide (A4) | | Loamy Gleye | | | | | codplain Soils (F19) (LRR P, S, T) |
| A CONTRACTOR OF THE PARTY OF TH | d Layers (A5) | | Depleted Ma | | | | | Bright Loamy Soils (F20) |
| 2 1-20 to 2000 STORY | Bodies (A6) (LRR P, | | Redox Dark Depleted Da | | | | (MLRA 15 Red Parent | ЗВ) Material (TF2) |
| The state of the s | ucky Mineral (A7) (LR resence (A8) (LRR U | | Redox Depre | | | | | v Dark Surface (TF12) |
| The state of the state of the state of | ick (A9) (LRR P, T) | | Marl (F10) (L | | | | | in in Remarks) |
| Deplete | d Below Dark Surface | e (A11) | Depleted Oc | | | | _, 9, | _# bdb. 4i b - bi d |
| The second secon | ark Surface (A12) | | Iron-Mangan | | | | P. C. Stranger, S. S. Stranger, | of hydrophytic vegetation and hydrology must be present, |
| Charles the constitution of | rairie Redox (A16) (N Jucky Mineral (S1) (L | | A) Umbric Surfa Delta Ochric | | 프라스레이트의 회원들은 12 설명인 | , 0, | | sturbed or problematic. |
| 5200 HDROW BLLDWWW | Gleyed Matrix (S4) | 0, 0, | Reduced Ve | | | OA, 150B) | | |
| CONTRACTOR OF STREET | Redox (S5) | | Piedmont Flo | odplain S | oils (F19) | (MLRA 14 | | |
| | Matrix (S6) | | Anomalous E | Bright Loa | my Soils (| F20) (MLR. | A 149A, 153C, 153 | 0) |
| | rface (S7) (LRR P, S | | | | | | Market Control (1988) | |
| | Layer (if observed): | | | | | | | |
| Type: Depth (in | chae): | (6.1.77.74) | | | | | Hydric Soll Pres | ent? Yes No |
| Remarks: | ches). | PART INSURANCE | | | | B. District Ship | | |
| Kemarks. | | | | | | | | |
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Wetland data point wsup022f_w facing east.



Wetland data point wsup022f_w facing north.

Photo Sheet 2 of 3

| Project/Site: ACP | City/O | County: SUFFUK | | Sampling Date: 12/6/15 | | | |
|--|--|---------------------------------|--|--|--|--|--|
| Applicant/Owner: Dominion | | | State: VA | Sampling Point: Wsup 022- | | | |
| Investigator(s): EST-M. Sm. Hu, K.M. Hv | PLVOU Conti | on, Township, Range: | CALCULATION NAMED AND ADDRESS OF THE PARTY. | | | | |
| Investigator(s): CJI-MITSING Train Property | va Clat | | | 2× Slope (%): 0-2 | | | |
| Landform (hillslope, terrace, etc.): Tinterstrea | Local | relief (concave, convex, | , none): [1073 | Slope (%): | | | |
| Subregion (LRR or MLRA): LRRT | Lat: 50.1151 | Long: | 16,1101) | Datum: W 6 5 8 | | | |
| Soil Map Unit Name: Rain 5 Fine So | ondy loam | | NWI classific | cation: | | | |
| Are climatic / hydrologic conditions on the site typical | al for this time of year? Y | 'es No | (If no, explain in F | Remarks.) | | | |
| Are Vegetation, Soil, or Hydrology _ | | bed? Are "Norma | l Circumstances" | present? Yes No | | | |
| Are Vegetation, Soil, or Hydrology _ | | | explain any answe | | | | |
| SUMMARY OF FINDINGS - Attach site | | | ons, transects | s, important features, etc. | | | |
| Hydrophytic Vegetation Present? Yes | No | Is the Sampled Area | | | | | |
| Hydric Soil Present? Yes | No | | Voc | No | | | |
| Wetland Hydrology Present? Yes | Contract Con | within a Wetland? | res | NO CONTRACTOR OF THE CONTRACTO | | | |
| Remarks: | | VII NEED TO THE TOTAL PROPERTY. | | | | | |
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| LINE CO. | | | | | | | |
| HYDROLOGY | | and the second | Secondary Indica | ators (minimum of two required) | | | |
| Wetland Hydrology Indicators: | seek all that apply) | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) | | | | |
| Primary Indicators (minimum of one is required; ch | | | | | | | |
| Charles of the control of the contro | Aquatic Fauna (B13) | | Sparsely ve | getated Concave Surface (B8) | | | |
| | Marl Deposits (B15) (LRI | | Drainage Pa | [[[[[[[[]]]]]]] [[[[[]]]]] [[[]] [[]] | | | |
| | Hydrogen Sulfide Odor (C | | | Water Table (C2) | | | |
| Total The Company The C | Oxidized Rhizospheres a | | | 얼마 (100kg) 100kg | | | |
| The state of the s | Presence of Reduced Iro | | The second control of the second seco | 중 : 1. 4명 : 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 1. 1 | | | |
| The state of the s | Recent Iron Reduction in | Tilled Soils (Co) | Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) | | | | |
| The second state of the second | Thin Muck Surface (C7) | | Shallow Aqu | [2] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2 | | | |
| 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | Other (Explain in Remark | (5) | FAC-Neutral Test (D5) | | | | |
| Inundation Visible on Aerial Imagery (B7) | | | The state of the s | noss (D8) (LRR T, U) | | | |
| Water-Stained Leaves (B9) | | | Opnagnam | 1035 (20) (2111 1) 0) | | | |
| Field Observations: | Depth (inches): N | A | | | | | |
| Surface Water Present? Yes No | | 00 | | | | | |
| Water Table Present? Yes No | | | | nt? Yes No | | | |
| Saturation Present? Yes No (includes capillary fringe) | Depth (inches): | Wetland | Hydrology Prese | ntr res No | | | |
| Describe Recorded Data (stream gauge, monitoring | ng well, aerial photos, pre | vious inspections), if av | ailable: | | | | |
| | | | | | | | |
| Remarks: | Programme Co. Marchael | Topical Commencer (Audio 1984) | | | | | |
| Remarks: | | | | | | | |
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Sampling Point: Wsup 022 -u

| 7 1426 | Absolute | Dominant | Indicator | Dominance Test worksheet: | Tree 8 |
|--|----------------------------|---------------|-----------------|--|-----------|
| Tree Stratum (Plot size: 30ff X 30ff) 1. PINGS + aeda | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: | A) |
| 2. ACEY rubrum | 15 | N | FAC | | |
| 3. Liquidambar Styracifina | 5 | ~ | FAC | Total Number of Dominant Species Across All Strata: | В) |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | A/B) |
| 6. | A PERMITTED TO SELECT | | - | Prevalence Index worksheet: | |
| 7. | | 4.00 | | Total % Cover of: Multiply by: | |
| 8. | 60 | | | OBL species x1 = | |
| | | = Total Co | | FACW species x 2 = | |
| 50% of total cover: 40 | 20% of | total cover | :_10_ | FAC species x 3 = | |
| Sapling/Shrub Stratum (Plot size: 3084 X 3084) | 20 | V | FAC | FACU species x 4 = | |
| 1. ILEX OPACA | 20 | 7 | | UPL species x 5 = | |
| 2. ACEV VUDrum | 20 | 7 | FAC | Column Totals: (A) | (B) |
| 3. Liquidambar Styracitua | 15 | 7 | FAC | Codmin Totals (A) | (0) |
| 4. Vaccinium corymbosum | 5 | ~ | FACW | Prevalence Index = B/A = | |
| 5. Symplocos tinctoria | 2 | N | FAC | Hydrophytic Vegetation Indicators: | |
| 6. | | | | /- Rapid Test for Hydrophytic Vegetation | |
| 7. | | | | 2 - Dominance Test is >50% | |
| 8. | | | | 3 - Prevalence Index is ≤3.0¹ | |
| | 62 | = Total Cov | /er | Problematic Hydrophytic Vegetation¹ (Explain) | |
| 50% of total cover: 3 | | | | Problematic Hydrophytic Vegetation (Explain) | |
| Herb Stratum (Plot size: 304+ X 304+) | | 10121 00101 | | 1 | -1 |
| 1. AKUNDINATIA DIGAMEA | 10 | 4 | FACW | Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic. | 121 |
| | | | | Definitions of Four Vegetation Strata: | |
| 2 | | | | Definitions of Four Vogetation Circuit | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm | |
| 4. | Trema access | | | more in diameter at breast height (DBH), regardles height. | S Of |
| 5. | | | | Height. | |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, le | ess |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. | |
| 8. | | 10000 | 1000000 | Herb - All herbaceous (non-woody) plants, regard | less |
| 9. | and the second | | | of size, and woody plants less than 3.28 ft tall. | |
| 10. | | | | Woody vine - All woody vines greater than 3.28 ft | in |
| 11. | | | | height. | |
| 12. | The second | | | | |
| | 10 | = Total Co | /er | programme and the second of th | |
| 50% of total cover: | WAY THE SEA OF BUILDING FO | total cover | 1 | | |
| Woody Vine Stratum (Plot size: 30F+ X 30F+) | | | | | |
| 1. NONE PRESENT | | | | | |
| | The leading | | | | |
| 2 | CL March 194 | The Profit of | | | |
| 3 | 112 00 000 00 | Town of State | SUPPLIES SE | | |
| 4. | | | | | |
| 5. | - | | And a second of | Hydrophytic | |
| | Continue to the second | = Total Co | | Vegetation Present? Yes No | |
| 50% of total cover: | 20% o | f total cover | | 110351111 | Variable. |
| Remarks: (If observed, list morphological adaptations belo | w). | | TA ME IN | | |
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| Depth | cription: (Describe t | | | ox Feature | | | | |
|--|--|----------------|----------------------------|------------------------------|--------------------------|------------|--|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type | Loc2 | | Remarks |
| 0-4 | 104R2/1 | 100 | | | | | FSL | |
| 4-20 | 2.565/4 | 946 1 | 04R5/6 | 2 | (| M | SCL | |
| | 8.07 | | | | | | | |
| | | | | | | | | |
| | The analysis was to a | | | | | | | |
| | | | | | | 180000 | | |
| | | | | | | | | |
| | | | | | | | | |
| Type: C=C | oncentration, D=Dep | letion RM=E | Peduced Matrix M | S=Masker | Sand Gra | ains. | ² Location: PL=F | ore Lining, M=Matrix. |
| lydric Soil | Indicators: (Applica | able to all Li | RRs, unless othe | rwise not | ed.) | | | roblematic Hydric Solls ³ : |
| Histosol | | | Polyvalue B | | | RR S, T, L | U) 1 cm Muck (| A9) (LRR O) |
| and the state of t | oipedon (A2) | | Thin Dark S | | | | 2 cm Muck (| A10) (LRR S) |
| Black H | istic (A3) | | Loamy Much | | THE CASE OF THE PARTY OF | 0) | | rtic (F18) (outside MLRA 150A,B |
| Shiple Committee or | en Sulfide (A4) | | Loamy Gley | | F2) | | | oodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | - ··· | Depleted Ma | | · C\ | | Anomalous I | Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P, ucky Mineral (A7) (LF | | Redox Dark Depleted Da | Single products by the Table | September 1997 | | | Material (TF2) |
| | esence (A8) (LRR U | | Redox Depr | | | | | v Dark Surface (TF12) |
| | ick (A9) (LRR P, T) | | Marl (F10) (| | | | Charles The Company of the Company o | in in Remarks) |
| | d Below Dark Surface | e (A11) | Depleted Or | chric (F11) | (MLRA 1 | 51) | | |
| | ark Surface (A12) | | Iron-Mangar | | | | | of hydrophytic vegetation and |
| | rairie Redox (A16) (N | | Umbric Surf | | | , U) | | nydrology must be present, sturbed or problematic. |
| | Mucky Mineral (S1) (L | .RR O, S) | Delta Ochrid | | | DA 150B | | sturbed or problematic. |
| C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Gleyed Matrix (S4) Redox (S5) | | Piedmont FI | | | | | |
| THE PROPERTY AND ADDRESS. | Matrix (S6) | | | | | | RA 149A, 153C, 153I | 0) |
| | rface (S7) (LRR P, S | i, T, U) | | | | | | |
| | Layer (if observed): | | The Company of the Company | Palsin Wi | | | | |
| Type: | | | | | | | | |
| Depth (in | ches): | | <u> </u> | | | | Hydric Soll Pres | ent? Yes No |
| Remarks: | N. S. W. College (1987) 17 (1987) 17 (1987) | | | Provide Section | | | | |
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