

Application, Appendix, DEQ Supplement, Direct Testimony and Exhibits of Virginia Electric and Power Company

Before the State Corporation Commission of Virginia

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project

Application No. 302

Case No. PUR-2020-00269

Filed: November 18, 2020

Volume 3 of 3

BEFORE THE STATE CORPORATION COMMISSION OF VIRGINIA

APPLICATION OF VIRGINIA ELECTRIC AND POWER COMPANY FOR APPROVAL OF ELECTRIC FACILITIES

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project

Application No. 302

DEQ Supplement

Case No. PUR-2020-00269

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Based upon consultations with the Virginia Department of Environmental Quality ("DEQ"), Virginia Electric and Power Company ("Dominion Energy Virginia" or the "Company") has developed this DEQ Supplement to facilitate review and analysis of the Virginia Rebuild Project by DEQ and other relevant agencies.

1. Project Description

In order to maintain the structural integrity and reliability of its transmission system in compliance with mandatory North American Electric Reliability Corporation ("NERC") Reliability Standards, the Company proposes in Greensville County, Virginia, the following:

- (i) Rebuild, entirely within existing right-of-way or on Company-owned property, approximately 1.6 miles of the existing 230 kV overhead single circuit Clubhouse-Dry Bread Line #2201 on single circuit structures, which runs from Structure #2201/1A within the Company's existing Clubhouse Substation to Structure #2201/14 / #254/14 within the Company's existing Dry Bread Substation;
- (ii) Rebuild, entirely within existing right-of-way or on Company-owned property, approximately 10.9 miles of the existing 230 kV overhead single circuit Dry Bread-Lakeview Line #254 on single circuit structures, which runs from Structure #2201/14 / #254/14 within the Company's existing Dry Bread Substation to Structure #254/113 at the Virginia state line; and
- (iii) Perform system protection coordination studies and relay resets at Clubhouse and Dry Bread Substations, as well as line terminal upgrade work at Clubhouse Substation.

(collectively, the "Virginia Rebuild Project").

2. Environmental Analysis

The Company solicited comments from all relevant state and local agencies about the proposed Virginia Rebuild Project in October 2020. Copies of these letters are included as <u>Attachment 2</u>. The DEQ provided a letter in response to the Company's scoping request for the proposed Virginia Rebuild Project on October 14, 2020. A copy of this letter is included as <u>Attachment 2.1</u>.

A. Air Quality

The Company will control fugitive dust during construction in accordance with DEQ regulations. During construction, if the weather is dry for an extended period of time, there will be airborne particles from the use of vehicles and equipment within the right-of-way. Minimal earth disturbance will take place and vehicle speed, which is often a factor in airborne particulate, will be kept to a minimum. Erosion and sediment control are addressed in Section 2.G, below. Equipment and vehicles that are powered by gasoline or diesel motors will also be used during the construction of the line so there will be exhaust from those motors.

¹ While some of the letters provided in Attachment 2 were inadvertently dated August 27, 2020, they were actually sent to the identified agencies on October 8, 2020.

The existing transmission corridor currently is maintained for transmission facility operations, and no clearing is proposed. The Virginia Rebuild Project may require some trimming of tree limbs along the right-of-way edges to support construction activities. The Company does not expect to burn cleared material, but if necessary, the Company will coordinate with the responsible locality to ensure all local ordinances and DEQ requirements are met. The Company's tree clearing methods are described in Section 2.K.

B. Water Source (No water source is required for transmission lines so this discussion will focus on potential waterbodies to be crossed by the proposed transmission line rebuild.)

The Virginia Rebuild Project is located within the Meherrin watershed, Hydrologic Unit Code 03010204. According to the U.S. Geological Survey ("USGS") topographic quadrangles (Emporia [1963, rev 2019], Skippers [1963, rev 2019], and Barley [1963, rev 2019]), the existing transmission line crosses six named perennial streams and rivers including: Meherrin River, Falling Run, Fontaine Creek, Cattail Creek, Massie Branch, and Collier Branch. The Virginia Department of Conservation and Recreation's ("DCR") Natural Heritage Data Explorer provides information on streams using the National Hydrography Dataset. According to the Data Explorer mapping service, the transmission right-of-way crosses multiple tributaries.

Any clearing required in the vicinity of streams will be performed by hand within 100 feet of both sides, and vegetation less than three inches in diameter will be left undisturbed.

The Company solicited comments from the Virginia Marine Resources Commission ("VMRC") regarding the proposed Virginia Rebuild Project in October 2020. The VMRC provided comments in a letter dated October 9, 2020 noting that a subaqueous encroachment permit would be required for any encroachments channelward or ordinary high water along non-tidal, natural rivers and streams with a drainage area of five square miles or greater at the crossing location. See Attachment 2.B.1. The right-of-way crosses one VMRC jurisdictional water with drainage areas greater than five square miles, the Meherrin River. A Joint Permit Application ("JPA") will be submitted for review by the VMRC, DEQ and the U.S. Army Corps of Engineers (the "Corps") to authorize jurisdictional crossings and for any impacts to jurisdictional features. See Section 2.D below.

C. Discharge of Cooling Waters

No discharge of cooling waters is associated with the Virginia Rebuild Project.

D. Tidal and Non-tidal Wetlands

No tidal wetlands were identified within the proposed Virginia Rebuild project area.

Wetlands Impact Consultation

Within the Virginia Rebuild Project right-of-way, the Company delineated wetlands and other waters of the United States using the *Routine Determination Method* as outlined in the *1987 Corps of Engineers Wetland Delineation Manual* and methods described in the *2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region* (Version 2.0). The Company submitted the results of this delineation to the Corps on October 26, 2020 for confirmation. See Attachment 2.D.1. Total jurisdictional resources within the proposed Rebuild Project right-of-way are provided in Table 1 and detailed in Attachment 2.D.1.

Table 1. Jurisdictional Resources within Virginia Rebuild Project Right-of-Way

Resource	Area (±)
Palustrine Forested Wetland	6.3 AC
Palustrine Emergent Wetland	39.0 AC
Palustrine Scrub Shrub	1.8 AC
Open Waters (Palustrine Unconsolidated Bottom)	0.5 AC
Upper Perennial Stream	0.6 AC (3,071 LF)
Lower Perennial Stream	1.0 AC
Intermittent Stream	0.3 AC (1,919 LF)
Jurisdictional Ditch	0.003 AC (21 LF)

The Company solicited comments from the DEQ's Office of Wetland and Stream Protection (OWSP) in October 2020. The Company received a response on October 5, 2020, from the DEQ's OWSP, which recommends that impacts to wetlands and streams should be minimized to the maximum extent practicable. Temporary impacts should be restored to pre-existing conditions, and permanent impacts should be compensated for in accordance with all applicable state regulations and laws. Based on DEQ's review, the project may require a Virginia Water Protection ("VWP") individual permit or general permit coverage. A JPA may be submitted for further evaluation and final permit need determination by DEQ. See <u>Attachment 2.D.2</u>.

Prior to construction, the Company will obtain any necessary permits to impact jurisdictional resources.

E. Solid and Hazardous Waste

On behalf of the Company, C2 Environmental, Inc. ("C2E") conducted database searches for solid and hazardous wastes, and petroleum release sites within a 0.5-mile radius of the Virginia Rebuild Project. Publicly available data from the Environmental Protection Agency ("EPA") Facility Registry System ("FRS") were obtained and include *Comprehensive Environmental Response*, *Compensation and Liability Act* ("CERCLA")/Superfund; *Resource Conservation and Recovery Act* ("RCRA"); and brownfield sites. Comparison with the EPA's NEPAssist Tool resulted in identifying four registered RCRA facilities present within 0.5-mile of the project.

DEQ records were also searched for the presence of solid waste management facilities, Voluntary Remediation Program sites, petroleum releases, and registered tank facilities within 0.5-mile of the Virginia Rebuild Project. No solid waste management facilities, Voluntary Remediation Program sites, or petroleum release sites were identified, and one registered tank facility was identified. Tables listing these results are included in <u>Attachment 2.E.1</u>.

F. Natural Heritage, Threatened and Endangered Species

On behalf of the Company, C2E conducted online database searches for threatened and endangered species in the vicinity of the Virginia Rebuild Project, including the U.S. Fish and Wildlife ("USFWS") Information, Planning, and Conservation ("IPaC") system, the USFWS Critical Habitat for Threatened and Endangered Species Mapper, the USFWS Bald Eagle Concentration Area Map, the Virginia Department of Wildlife Resources ("DWR") Virginia Fish and Wildlife Information Service ("VAFWIS"), the DWR Northern Long-eared Bat ("NLEB") Winter Habitat and Roost Trees Map, the DCR, the Natural Heritage Data Explorer ("NHDE"), and the Center for Conservation Biology ("CCB") Bald Eagle Nest Locator. The results are presented in Table 2 below.

Table 2. Threatened and endangered species within the Virginia Rebuild Project vicinity

Species	Status*	Database	Results
Northern long- eared bat (Myotis septentrionalis)	FT, ST	USFWS-IPaC, DWR-NLEB Winter Habitat and Roost Tree Map	No known hibernacula or summer roosts are identified in the vicinity of the project.

Roanoke logperch (Percina rex)	FE, SE	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project. Because no instream work is proposed, no impacts are expected.
Atlantic pigtoe (Fusconaia masoni)	(P)FT, ST	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project. Because no instream work is proposed, no impacts are expected.
Yellow lance (Elliptio lanceolata)	FT	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project. Because no instream work is proposed, no impacts are expected.
Loggerhead shrike (Lanius ludovicianus)	ST	VAFWIS	Observed within the vicinity of the project.
Green floater (Lasmigona subviridis)	ST	VAFWIS	Observed within the vicinity of the project.
Reclining bulrush (Scirpus flaccidifoliius)	ST	DCR-NHDE	Noted as potentially occurring in the vicinity of the project.
Bald eagle (Haliaeetus leucocephalus)	FP	CCB Eagle Nest Locator; USFWS Eagle Concentration Areas	No bald eagle nests are located within 660 feet of the project area. No bald eagle concentration areas are present within the project vicinity.

^{*}FT: federally threatened, FE: federally endangered, FP: federally protected, ST: stated threatened, SE: state endangered, (P): proposed

A copy of the database search results can be found in <u>Attachment 2.F.1</u>. Additionally, the Company requested comments from the USFWS, DWR and DCR regarding the Virginia Rebuild Project in October 2020. A response from DCR was received via an email dated October 8, 2020 stating that there are no impacts to Planning, Parks and Recreation ("PRR") resources. See <u>Attachment 2.F.2</u>. The response from DCR, Division of Natural Heritage is included as <u>Attachment 2.F.3</u>. The response from

DWR is included as <u>Attachment 2.F.4</u>. A project review from the DCR's DNH was received on November 13, 2020, and is included herein as <u>Attachment 2.F.5</u>. The Company will also obtain all necessary permits prior to construction, including authorization from the VMRC, DEQ, and the Corps, and coordination with the DWR, DCR, USFS, and USFWS, as necessary, will take place through the respective permit processes to avoid and minimize impacts to listed species.

New and updated information is continually added to the DCR's Biotics database. Following the DCR-DNH SCC planning stage project review, the Company shall resubmit project information with completed information services order form and a map to DCR-DNH or submit the project on-line through the Natural Heritage Data Explorer. This review shall occur during the final stage of engineering and upon any major modifications of the project during construction (e.g., deviations, permanent or temporary, from the original study area and/or the relocation of a tower(s) into sensitive areas) for an update on natural heritage information and coordination of potential project modifications to avoid and minimize impacts to natural heritage resources.

G. Erosion and Sediment Control

The DEQ approved the Company's Standards & Specification for Erosion & Sediment Control and Stormwater Management for Construction of Linear Electric Transmission Facilities (TE VEP 8000). These specifications are given to the Company's contractors and require erosion and sediment control measures to be in place before construction of the line begins and specifies the requirements for rehabilitation of the right-of-way. A copy of the current DEQ approval letter dated August 13, 2019 is provided as Attachment 2.G.1. According to the approval letter, coverage was effective through August 12, 2020. The Company submitted the renewal application on August 3, 2020 and is awaiting approval.

H. Archaeological, Historic, Scenic, Cultural or Architectural Resources

Dutton + Associates was retained by the Company to conduct a Stage I Pre-Application Analysis for the proposed Virginia Rebuild Project. This analysis was completed in August 2020 and submitted to VDHR in November 2020. In addition, the Virginia Cultural Resource Information System ("VCRIS") inventory was rechecked in October 2020, which confirmed the accuracy of the data submitted in the Stage I Pre-Application Analysis. The report is included as Attachment 2.H.1. Preliminary background research was conducted pursuant to the *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (VDHR 2008) for proposed transmission line improvements. As detailed by VDHR guidance, consideration was given to: National Historic Landmark ("NHL") properties located within a 1.5-mile radius of the project centerline; National Register of Historic Places ("NRHP") listed properties, battlefields, and historic landscapes located within a 1.0-mile radius of the project centerline; NRHP-eligible sites located within a 0.5-mile radius of the project centerline; and, archaeological sites located within the project right-of-way.

Archaeological Resources

A total of 18 previously recorded archaeological sites are located within or directly adjacent to the existing right-of-way. Of these, two have been determined not eligible for listing in the NRHP. The remaining resources have not been evaluated. The table below provides the archaeological resource within the Virginia Rebuild Project right-of-way.

Table 3. Archaeological resources within the Virginia Rebuild Project Right-of-Way

Resource	Resource Name	National Register		
ID#	Resource Name	Status*		
44GV0095	Archaeological Site	Not Evaluated		
44GV0104	Archaeological Site	Not Evaluated		
44GV0106	Archaeological Site	Not Evaluated		
44GV0107	Archaeological Site	Not Evaluated		
44GV0108	Archaeological Site	Not Evaluated		
44GV0128	Archaeological Site	Not Evaluated		
44GV0153	Archaeological Site	Not Evaluated		
44GV0154	Archaeological Site	Not Evaluated		
44GV0159	Archaeological Site	Not Evaluated		
44GV0161	Archaeological Site	Not Evaluated		
44GV0162	Archaeological Site	Not Evaluated		
44GV0163	Archaeological Site	Not Evaluated		
44GV0262	Archaeological Site	Not Evaluated		
44GV0263	Archaeological Site	Not Evaluated		
44GV0264	Archaeological Site	Not Evaluated		

Resource ID#	Resource Name	National Register Status*	
44GV0265	Archaeological Site	Not Evaluated	
44GV0423	Archaeological Site	Not Eligible	
44GV0454	Archaeological Site	Not Eligible	

^{*} No archaeological field work was conducted as part of this effort, and previously recorded sites within or adjacent to the project were not assessed at this time. No impacts to any archaeological resources are anticipated at this time. Resources will be assessed for existing conditions and to confirm avoidance of impacts as project planning progresses.

Architectural Resources

No NHL-listed architectural resources are located within the 1.5-mile buffer. There are no NRHP listed resources, landscapes, or battlefields within the 1.0-mile of the project area. One property that has been determined eligible for listing on the NRHP is within 1.0-mile of the project area, and one property that has been determined eligible for listing on the NRHP is within 0.5-mile of the project area. A summary of the previously identified architectural resources are provided in Table 4 below.

Table 4. Previously recorded architectural resources within or adjacent to the Virginia Rebuild Project right-of-way

Resource ID#	Resource Name	NRHP Status	Distance to Centerline (Miles)
040-0010	Chambliss House (Historic), Woodview (Historic/Current)	NRHP Eligible	0.1
040-0047	Brink Polling House (Current), Voting House, Brink Road (Function/Location)	NRHP Eligible	1.0

I. Chesapeake Bay Preservation Areas

Construction, installation, operation, and maintenance of electric transmission lines are conditionally exempt from the Chesapeake Bay Preservation Act as stated in the exemption for public utilities, railroads, public roads, and facilities in 9 VAC 25-830-150. The proposed Virginia Rebuild Project is located outside of Chesapeake Bay Preservation Act jurisdictional counties.

J. Wildlife Resources

Agency databases were reviewed, and agency consultations were initiated with the USWFS, DWR, and DCR to determine if the proposed Virginia Rebuild Project has the potential to affect any threatened or endangered species. As discussed in Section 2.F, certain federal and state listed species were identified as confirmed and potentially occurring in the project area. The Company will coordinate with the USFWS, DWR, and DCR as appropriate to determine whether surveys are necessary and to minimize impacts on wildlife resources. The proposed Virginia Rebuild

Project is a rebuild of a transmission line within existing right-of-way and minimal clearing needed to support construction activities. As such, no loss of wildlife habitat is anticipated.

K. Recreation, Agricultural and Forest Resources

The Virginia Rebuild Project is expected to have minimal incremental impacts on recreational, agricultural, and forest resources as no additional right-of-way is required. The general character of the Virginia Rebuild Project area is characterized as predominantly agricultural and forested lands as well as woody wetlands and low intensity developed land. The Virginia Scenic Rivers Act seeks to identify, designate, and protect rivers and streams that possess outstanding scenic, recreational, historic, and natural characteristics of statewide significance for future generations. There is one designated Potential Scenic River, the Meherrin River, within the vicinity of the Virginia Rebuild Project.

There are no state or local parks located within the existing right-of-way between the Clubhouse Substation and the Virginia state line. Additionally, there are no parks located within a mile of the right-of-way.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. Land that does not meet the criteria for prime farmland can be considered "farmland of statewide importance." The criteria for defining and delineating farmland of statewide importance are determined by the Virginia Department of Agriculture and Consumer Services. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Other areas that are not identified as having national or statewide importance can be considered to be "farmland of local importance." This farmland is identified by the appropriate local agencies. Farmland of local importance may include tracts of land that have been designated for agriculture by local ordinance. A total of 94.0 acres of prime farmland and 42.7 acres of farmland of statewide importance are located within the Virginia Rebuild Project right-of-way. The project area is generally zoned A-1 Agricultural. According to the county Comprehensive Plan, the majority of the existing transmission line corridor is located within areas designated for rural residential and low density residential future land use.

Where agricultural uses are present, these activities have been occurring within the right-of-way while the existing transmission line has been in operation since 1962. The Virginia Rebuild Project may result in temporary impacts to farmland during construction but would otherwise not be expected to impact farmlands and would not alter the agricultural use.

Under the Virginia Open-Space Land Act, any public body can acquire title or rights to real property to provide means of preservation of open-space land. Such

conservation easements must be held for no less than five years in duration and can be held in perpetuity. According to the DCR's Natural Heritage Data Explorer, no conservation easements were found within 1 mile of the project.

The width of the existing transmission line right-of-way is approximately 150 feet. The proposed Virginia Rebuild Project is the rebuild of an existing transmission line, and no additional right-of-way is required. The Virginia Rebuild Project proposes to retain the existing right-of-way as currently utilized but may require additional trimming of tree limbs along the right-of-way edges and/or trimming for access roads along the corridor to support construction activities. Trees and brush located within 100 feet of streams will be cleared by hand in accordance with the Company approved Erosion and Sediment Control specifications.

Any tree along the right-of-way that is tall enough to endanger the conductors if it were to break at the stump or uproot and fall directly towards the conductors and exhibits signs or symptoms of disease or structural defect that make it an elevated risk for falling will be designated as a "danger tree" and may be removed. The Company's arborist will contact the property owner if possible before any danger trees are cut, except in emergency situations. The Company's Forestry Coordinator will field inspect the right-of-way and designate any danger trees present. Qualified contractors working in accordance with the Company's Electric Transmission specifications will perform all danger tree cutting. The Virginia Rebuild Project is expected to have minimal, if any, impact on forest resources as the proposed Virginia Rebuild Project involves rebuilding an existing line which is already cleared and maintained for existing facility operation and no additional right-of-way is required.

In October 2020, the Company solicited DCR and VOF for comments on the proposed Virginia Rebuild Project. The VOF responded via email dated October 8, 2020 that there are no existing or proposed VOF open-space easements in the immediate vicinity of the project. See attachment 2.K.1.

L. Use of Pesticides and Herbicides

Of the techniques available, selective foliar is the preferred method of herbicide application. The Company typically maintains transmission line right-of-way by means of selective, low volume applications of EPA approved, non-restricted use herbicides. The goal of this method is to exclude tall growing brush species from the right-of-way by establishing early successional plant communities of native grasses, forbs, and low growing woody vegetation. "Selective" application means the Company sprays only the undesirable plant species (as opposed to broadcast applications). "Low volume" application means the Company uses only the volume of herbicide necessary to remove the selected plant species. The mixture of herbicides used varies from one cycle to the next to avoid the development of resistance by the targeted plants. There are four means of dispersal available to the Company, including by-hand application, backpack, fixed nozzle-radiarc, and aerial. Very little right-of-way maintenance incorporates aerial equipment. The Company

uses licensed contractors to perform this work that are either certified applicators or registered technicians in the Commonwealth of Virginia.

DEQ has previously requested that only herbicides approved for aquatic use by the EPA or the USFWS be used in or around any surface water. The Company intends to comply with this request.

M. Geology and Mineral Resources

According to the Division of Geology and Mineral Resources Interactive Geologic Map, the Virginia Rebuild Project is located in the Piedmont physiographic province of Virginia and consists primarily of gravel and sand, granite and granodiorite, and metavolcanic rock. According to the USGS topographic maps and the Division of Mines, Minerals and Energy ("DMME") online mapping, there are no active mines or stone quarries within the limits of the Virginia Rebuild Project. The Virginia Rebuild Project right-of-way does transect a sand or gravel quarry site located south of Route 611 (Dry Bread Road), west of Route 627 (Brink Road) and north of Route 639 (Rock Bridge Road). The site is not listed by the DMME. The DMME mapping does identify the Brink Mine approximately 1.0 mile west of the Virginia Rebuild Project and Skippers Quarry 2.0 miles east of the Virginia Rebuild Project. The Brink Mine is listed as "Closed/Closing", and the Skippers Quarry is an active site. The Company does not anticipate that the rebuild of the existing transmission line will result in negative impacts on the geology or mineral resources in the proposed Virginia Rebuild Project area.

N. Transportation Infrastructure

The width of the existing transmission line right-of-way is approximately 150 feet and is currently maintained for operation of the existing transmission facilities. The Virginia portion of the transmission line corridor extends approximately 1.6 miles from the Clubhouse Substation to the Dry Bread Substation and continues for approximately 10.9 miles from the Dry Bread Substation to Structure #254/113 at the Virginia state line. The project includes seven road crossings all within Greensville County. The road crossings within the Virginia Rebuild Project area consist of low traffic volume county roads.

The Company will submit applications for land use permits and traffic control plans to the Virginia Department of Transportation ("VDOT") for the aerial crossings of VDOT maintained roads and construction entrances from the VDOT right-of-way as needed. These permits will be obtained prior to construction. The Company solicited VDOT for comments in October 2020.

The existing Virginia Rebuild Project right-of-way does not cross any railroad tracks.

The Company has reviewed the Federal Aviation Administration's ("FAA's") website (https://oeaaa.faa.gov/oeaaa/external/portal.jsp) to identify airports within 10.0 miles of the Virginia Rebuild Project. Based on this review, one FAA-restricted

airport was identified; Emporia-Greensville Regional Airport, approximately 5.5 miles east of the Clubhouse Substation. The Company solicited comments from the Virginia Department of Aviation ("DOAv") and the FAA regarding the Virginia Rebuild Project in October 2020. The DOAv responded via email dated October 15, 2020 that there are no public use airports within 20,000 linear feet of the project. Unless support structures or temporary cranes will reach a height of 200 feet above ground level, no airspace case would be required by the Federal Aviation Administration (the "FAA"). See Attachment 2.N.1.

The Company will coordinate with VDOT, DOAv, and the FAA as necessary to obtain all appropriate approvals.

Attachments



October 5, 2020

BY EMAIL

Mr. Troy Andersen US Fish and Wildlife Service Ecological Services Virginia Field Office 6669 Short Lane Gloucester, Virginia 23061

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Andersen,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

The Company is preparing an application for Certificate of Public Convenience and Necessity ("CPCN") from the Virginia State Corporation Commission ("SCC"). Pursuant to Va. Code §15.2-2202, the Company is writing to notify you of the proposed Rebuild Project in advance of this SCC filing. We respectfully request that you submit any comments or additional information you feel would have bearing on the Project within 30 days of the date of this letter. Enclosed is a Project Overview Map depicting the rebuild route and project location.

If you would like to receive a GIS shapefile of the rebuild route to assist in your project review or if you have any questions, please do not hesitate to contact Rachel Studebaker at (804) 217-1847 or Rachel.M.Studebaker@dominionenergy.com. We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Ms. Amy Ewing Virginia Department of Wildlife Resources PO Box 90778 Henrico, Virginia 23228

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Ewing,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Ms. Robbie Ruhr Planning Bureau Department of Conservation and Recreation 600 East Main Street, 17th Floor Richmond, Virginia 23219

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Ruhr,

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Ms. Bettina Rayfield
Manager Environmental Impact Review and Long Range Priorities Program
Office of Environmental Impact Review
Department of Environmental Quality
PO Box 1105
Richmond, Virginia 23218

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Rayfield,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

The Company is preparing an application for Certificate of Public Convenience and Necessity ("CPCN") from the Virginia State Corporation Commission ("SCC"). Pursuant to Va. Code §15.2-2202, the Company is writing to notify you of the proposed Rebuild Project in advance of this SCC filing. We respectfully request that you submit any comments or additional information you feel would have bearing on the Project within 30 days of the date of this letter. Enclosed is a Project Overview Map depicting the rebuild route and project location.

If you would like to receive a GIS shapefile of the rebuild route to assist in your project review or if you have any questions, please do not hesitate to contact Rachel Studebaker at (804) 217-1847 or Rachel.M.Studebaker@dominionenergy.com. We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Mr. Terry Lasher Assistant State Forester Virginia Department of Forestry 900 Natural Resources Drive Charlottesville, Virginia 22903

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Lasher,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Mr. Peter Kube US Army Corps of Engineers Norfolk District, Eastern Section 803 Front Street Norfolk, Virginia 23510

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Kube,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Ms. Rene Hypes Environmental Review Coordinator, Division of Natural Heritage Department of Conservation and Recreation 600 East Main Street, Suite 1400 Richmond, Virginia 23219

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Hypes,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Ms. Michelle Henicheck Office of Wetlands and Streams Department of Environmental Quality PO Box 1105 Richmond, Virginia 23218

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Henicheck,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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C2 Environmental delineated wetlands and other waters of the United States using the Routine Determination Method as outlined in the 1987 Corps of Engineers Wetland Delineation Manual and methods described in the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). The limits of these features are illustrated on the attached Delineation Map and a breakdown of features is provided below in Table 1. The limits of wetlands of other waters of the United States will be submitted to the U.S. Army Corps of Engineers for confirmation.

Clubhouse to Lakeview 10/5/2020 Page 2 of 2

Table 1. Jurisdictional Features Identified within the ROW

PFO (Acres)	PSS (Acres)	PEM (Acres)	Open Waters (Acres)	Stream Channels (R2) Acres (LF)	Stream Channels (R3) Acres (LF)	Stream Channels (R4) Acres (LF)	Jurisdictional Ditch Acres (LF)
6.3	1.8	39.0	0.5	1.0 (243)	0.6 (3,071)	0.3 (1,919)	0.003 (21)

If you would like to receive a GIS shapefile of the rebuild route to assist in your project review or if you have any questions, please do not hesitate to contact Rachel Studebaker at (804) 217-1847 or Rachel.M.Studebaker@dominionenergy.com. We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Mr. Jaime Robb Department of Environmental Quality VWP Permit Manager, Piedmont Regional Office 4949-A Cox Road Glen Allen, Virginia 23060

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Robb,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Mr. Keith Tignor Endangered Plant and Insect Species Program Virginia Department of Agriculture and Consumer Affairs 102 Governor Street Richmond, Virginia 23219

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Tignor,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services



October 5, 2020

BY EMAIL

Mr. Tony Watkinson Habitat Management Division Virginia Marine Resources Commission Building 96, 380 Fenwick Road Fort Monroe, Virginia 23651

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Watkinson,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Jason P. Ericson

Director, Environmental Services

Dominion Energy Virginia 10900 Nuckols Rd, 4th Floor Glen Allen, VA 23060 DominionEnergy.com



August 27, 2020

Mr. Robert Alexander Obstruction Evaluation Specialist Federal Aviation Administration FAA Eastern Regional Office 159-30 Rockaway Blvd Jamaica, New York 11434

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Alexander,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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If you would like to receive a GIS shapefile of the rebuild route to assist in your project review or if you have any questions, please do not hesitate to contact me directly at (434)532-7579 or Nancy.R.Reid@Dominionenergy.com. We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Regards,

Nancy Reid
Nancy R. Reid

Siting and Permitting Specialist

Dominion Energy Virginia 10900 Nuckols Rd, 4th Floor Glen Allen, VA 23060 DominionEnergy.com



August 27, 2020

BY EMAIL

Mr. Scott Denny Airport Services Division Virginia Department of Aviation 5702 Gulfstream Road Richmond, Virginia 23250 scott.denny@doav.virginia.gov

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Denny,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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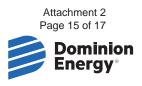
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Regards,

Nancy R. Reid

Nancy Reid

Siting and Permitting Specialist



August 27, 2020

Mr. Christopher G. Hall, P.E. District Engineer Virginia Department of Transportation Hampton Roads District Office 7511 Burbage Drive Suffolk, Virginia 23435

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Hall,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Nancy R. Reid

Nancy Reid

Siting and Permitting Specialist

Dominion Energy Virginia 10900 Nuckols Rd, 4th Floor Glen Allen, VA 23060 DominionEnergy.com



August 27, 2020

Mr. Roger Kirchen Review and Compliance Division Department of Historic Resources 2801 Kensington Avenue Richmond, Virginia 23221

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Mr. Kirchen,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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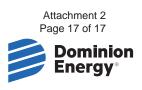
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Regards,

Nancy R. Reid

Nancy Reid

Siting and Permitting Specialist



August 27, 2020

BY EMAIL

Ms. Martha Little Virginia Outdoors Foundation 600 East Main Street, Suite 402 Richmond, Virginia 23219 ImpactReview@VOF.org

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Little,

Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

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Regards,

Nancy R. Reid

Nancy Reid

Siting and Permitting Specialist



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

David K. Paylor Director

(804) 698-4000 1-800-592-5482

Matthew J. Strickler Secretary of Natural Resources

October 14, 2020

Rachel Studebaker Environmental Specialist II Dominion Energy Services 120 Tredegar Street Richmond, VA 23219

RE: Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia

Rebuild Project; Greensville County, Virginia

Dear Ms. Studebaker:

This letter is in response to the scoping request for the above-referenced project.

As you may know, the Department of Environmental Quality, through its Office of Environmental Impact Review (DEQ-OEIR), is responsible for coordinating Virginia's review of environmental impacts for electric power generating projects and power line projects in conjunction with the licensing process of the State Corporation Commission.

DOCUMENT SUBMISSIONS

In order to ensure an effective coordinated review of the environmental impact analysis may be sent directly to OEIR. We request that you submit one electronic to eir@deq.virginia.gov (25 MB maximum) or make the documents available for download at a website, file transfer protocol (ftp) site or the VITA LFT file share system (Requires an "invitation" for access. An invitation request should be sent to eir@deq.virginia.gov.). The required "Wetlands Impact Consultation" can be sent directly to Michelle Henicheck at michelle.henicheck @deq.virginia.gov or at the address above.

ENVIRONMENTAL REVIEW UNDER VIRGINIA CODE 56-46.1

While this Office does not participate in scoping efforts beyond the advice given herein, other agencies are free to provide scoping comments concerning the preparation of the environmental impact analysis document. Accordingly, Dominion should coordinate with the following state agencies and those localities and Planning District Commissions, including but not limited to:

Department of Environmental Quality:

- o DEQ Regional Office
- o Air Division
- Office of Wetlands and Stream Protection

- o Office of Local Government Programs
- o Division of Land Protection and Revitalization
- o Office of Stormwater Management

Department of Conservation and Recreation

Department of Health

Department of Agriculture and Consumer Services

Department of Game and Inland Fisheries

Virginia Marine Resources Commission

Department of Historic Resources

Department of Mines, Minerals, and Energy

Department of Forestry

Department of Transportation

DATA BASE ASSISTANCE

Below is a list of databases that may assist you in the preparation of a NEPA document:

• DEQ Online Database: Virginia Environmental Geographic Information Systems

Information on Permitted Solid Waste Management Facilities, Impaired Waters, Petroleum Releases, Registered Petroleum Facilities, Permitted Discharge (Virginia Pollution Discharge Elimination System Permits) Facilities, Resource Conservation and Recovery Act (RCRA) Sites, Water Monitoring Stations, National Wetlands Inventory:

- o www.deq.virginia.gov/ConnectWithDEQ/VEGIS.aspx
- DEQ Virginia Coastal Geospatial and Educational Mapping System (GEMS)

Virginia's coastal resource data and maps; coastal laws and policies; facts on coastal resource values; and direct links to collaborating agencies responsible for current data:

- o http://128.172.160.131/gems2/
- MARCO Mid-Atlantic Ocean Data Portal

The Mid-Atlantic Ocean Data Portal is a publicly available online toolkit and resource center that consolidates available data and enables users to visualize and analyze ocean resources and human use information such as fishing grounds, recreational areas, shipping lanes, habitat areas, and energy sites, among others.

http://portal.midatlanticocean.org/visualize/#x=-73.24&y=38.93&z=7&logo=true&controls=true&basemap=Ocean&tab=data&legends=false&layers=true

• DHR Data Sharing System.

Survey records in the DHR inventory:

- o www.dhr.virginia.gov/archives/data_sharing_sys.htm
- DCR Natural Heritage Search

Produces lists of resources that occur in specific counties, watersheds or physiographic regions:

- o www.dcr.virginia.gov/natural heritage/dbsearchtool.shtml
- DGIF Fish and Wildlife Information Service

Information about Virginia's Wildlife resources:

- o http://vafwis.org/fwis/
- Total Maximum Daily Loads Approved Reports
 - https://www.deq.virginia.gov/programs/water/waterqualityinformationtmdls/tmdl/tmdldevelopment/approvedtmdlreports.aspx
- Virginia Outdoors Foundation: Identify VOF-protected land
 - o http://vof.maps.arcgis.com/home/index.html
- Environmental Protection Agency (EPA) Comprehensive Environmental Response,
 Compensation, and Liability Information System (CERCLIS) Database: Superfund Information Systems

Information on hazardous waste sites, potentially hazardous waste sites and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL:

- o <u>www.epa.gov/superfund/sites/cursites/index.htm</u>
- EPA RCRAInfo Search

Information on hazardous waste facilities:

- o www.epa.gov/enviro/facts/rcrainfo/search.html
- Total Maximum Daily Loads Approved Reports
 - o https://www.deq.virginia.gov/programs/water/waterqualityinformationtmdls/tmdl/tmdlde velopment/approvedtmdlreports.aspx
- EPA Envirofacts Database

EPA Environmental Information, including EPA-Regulated Facilities and Toxics Release Inventory Reports:

- o <u>www.epa.gov/enviro/index.html</u>
- EPA NEPAssist Database

Facilitates the environmental review process and project planning: http://nepaassisttool.epa.gov/nepaassist/entry.aspx

If you have questions about the environmental review process, please feel free to contact me (telephone (804) 698-4204 or e-mail bettina.rayfield@deq.virginia.gov).

I hope this information is helpful to you.

Sincerely,

Bettina Rayfield, Program Manager Environmental Impact Review and Long-Range Priorities



Matthew J. Strickler Secretary of Natural Resources Marine Resources Commission 380 Fenwick Road Bldg 96 Fort Monroe, VA 23651-1064

Steven G. Bowman Commissioner

October 9, 2020

Dominion Energy Services Attn: Rachel Studebaker 120 Tredegar Street Richmond, VA 23219

Re: Clubhouse to Lakeview 230kV Rebuild Project,

Greensville County, Virginia

Dear Ms. Studebaker

This will respond to the request for comments regarding the Clubhouse to Lakeview 230kV Rebuild Project, prepared by Dominion Energy Services. Specifically, Dominion Energy Services has proposed to rebuild approximately 12.5 miles of existing overhead transmission lines in Greensville County, Virginia.

We reviewed the provided documents and found that the proposed project may be within the jurisdictional areas of the Virginia Marine Resources Commission (VMRC) and may require a permit from this agency.

Please be advised that the VMRC, pursuant to §28.2-1200 et seq of the Code of Virginia, has jurisdiction over any encroachments in, on, or over the beds of the bays, ocean, rivers, streams, or creeks which are the property of the Commonwealth. Accordingly, if any portion of the subject project involves any encroachments channelward of ordinary high water along non-tidal, natural rivers and streams with a drainage area greater than 5-square miles, a permit may be required from our agency. Any jurisdictional impacts will be reviewed by the VMRC during the Joint Permit Application process and any permit issued by the VMRC will specify necessary special conditions for the project. Should the proposed project change, a new review by this agency may be required relative to these jurisdictional areas.

If you have any questions please contact me at (757) 247-8063 or by email at justin.worrell@mrc.virginia.gov. Thank you for the opportunity to comment.

Sincerely,

Justin Worrell

An Agency of the Natural Resources Secretariat
www.mrc.virginia.gov

Dominion Energy Services October 9, 2020 Page Two

Environmental Engineer, Habitat Management

JDW/tlb HM



October 21, 2020

Regulator of the Day U.S. Army Corps of Engineers 803 Front Street Norfolk, VA 23510

Via email: cenao-reg_rod@usace.army.mil

Subject: Request for Preliminary Jurisdictional Determination

TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild Start: Latitude: 36.718542 Longitude: -77.585233 End: Latitude: 36.545257 Longitude: -77.646638

Greensville County, VA

C2 Environmental Project No. 0115

Dear Sir or Madam:

C2 Environmental (C2 Env) has been retained by Virginia Electric and Power Company, doing business as Dominion Energy Virginia to conduct a field investigation of wetlands and waters of the U.S. (WOUS) on the project known as TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild. Dominion Energy Virginia is conducting an evaluation of the Virginia portion of the study area for an existing transmission line right of way (ROW) rebuild. The approximate 378.5 acre (12.5 mile) study area is located within the Meherrin River, Fountains Creek, Cattail Creek, Massie Branch, and Collier Branch drainage basins in Greensville County, Virginia (Appendix A, Sheet 1). The Virginia portion of the study area starts at the Clubhouse Substation located northeast of Brunswick Road (Route 607), southwest of Pleasant Shade Drive (Route 58), and generally runs to the southwest and ends at the Virginia / North Carolina border located west of Caret Path (Route 631). The required materials from the field investigation are enclosed.

On behalf of Dominion Energy Virginia, C2 Env is submitting this information to the Corps for their review and approval for issuance of a Preliminary Jurisdictional Determination. C2 Env staff would be pleased to meet with the Corps onsite to review the provided information if necessary. Please contact Scott Kupiec for any requests related to this matter. Thank you for your attention to this request.

Regards,

Scott Kupiec, PWD

Senior Environmental Scientist

Email: skupiec@c2environmental.com

Appendix A: Project Graphics
Appendix B: Corps Data Sheets

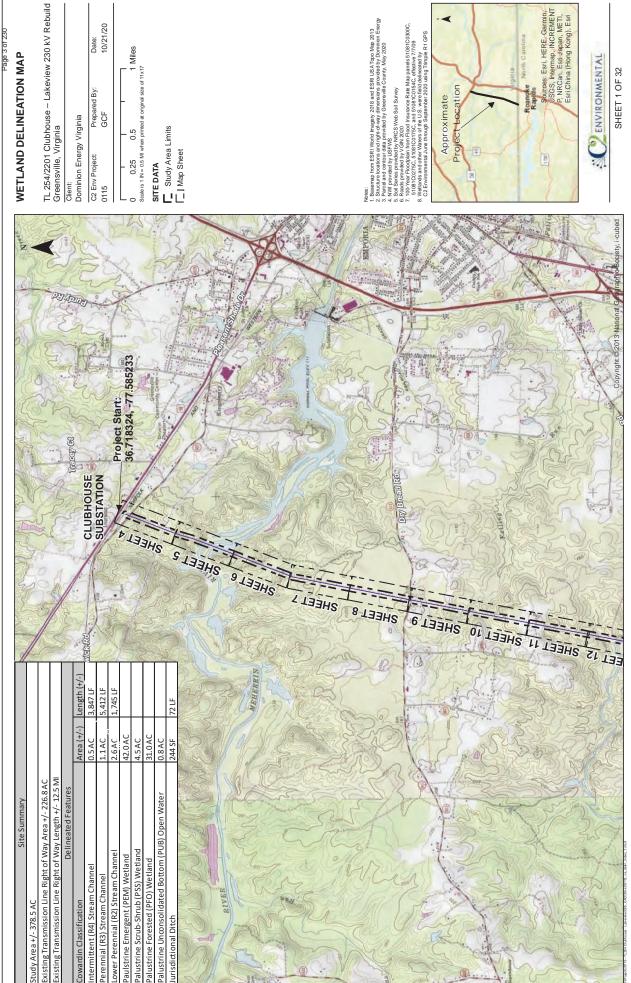
Appendix C: Jurisdictional Determination Request Form and Site Information Summary Sheet

Appendix D: Existing Condition Photographs

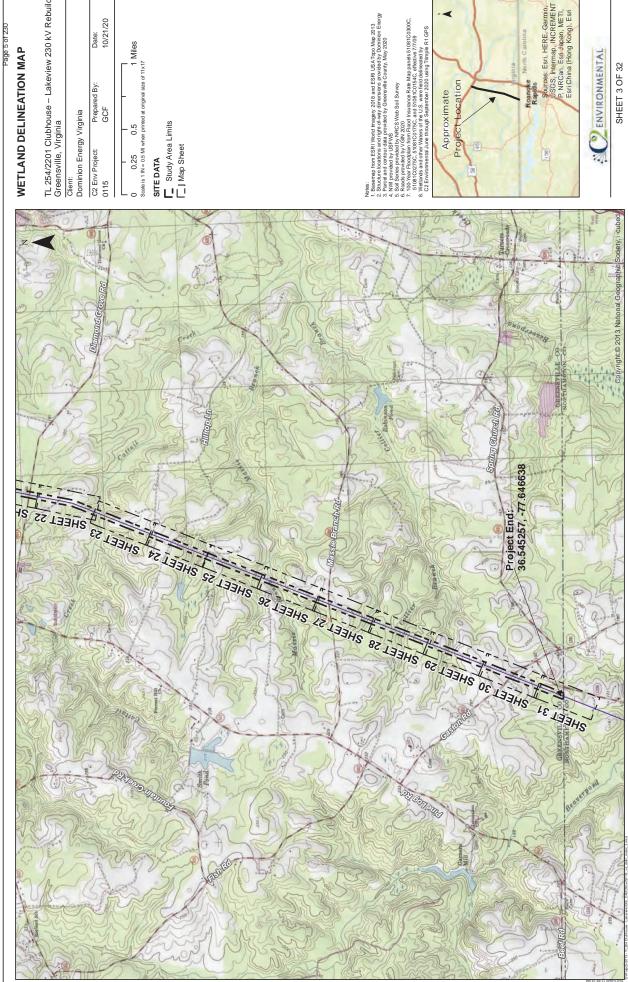
CC: Ms. Rachel Studebaker - Dominion Energy Virginia

APPENDIX A

Project Graphics







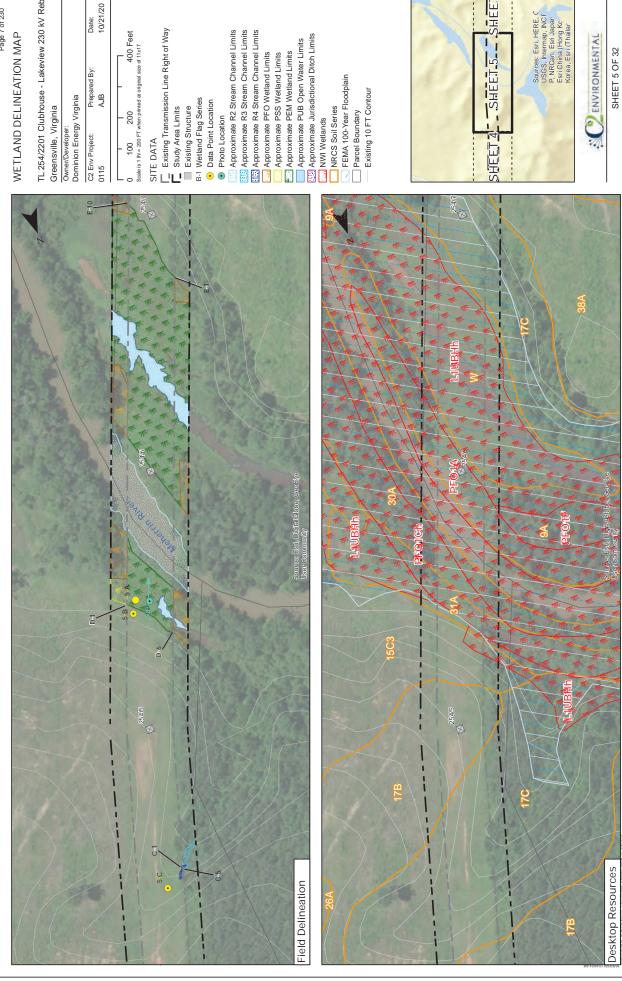
TL 254/2201 Clubhouse – Lakeview 230 kV Rebuild Greensville, Virginia Cilent: Dominion Energy Virginia Date: 10/21/20





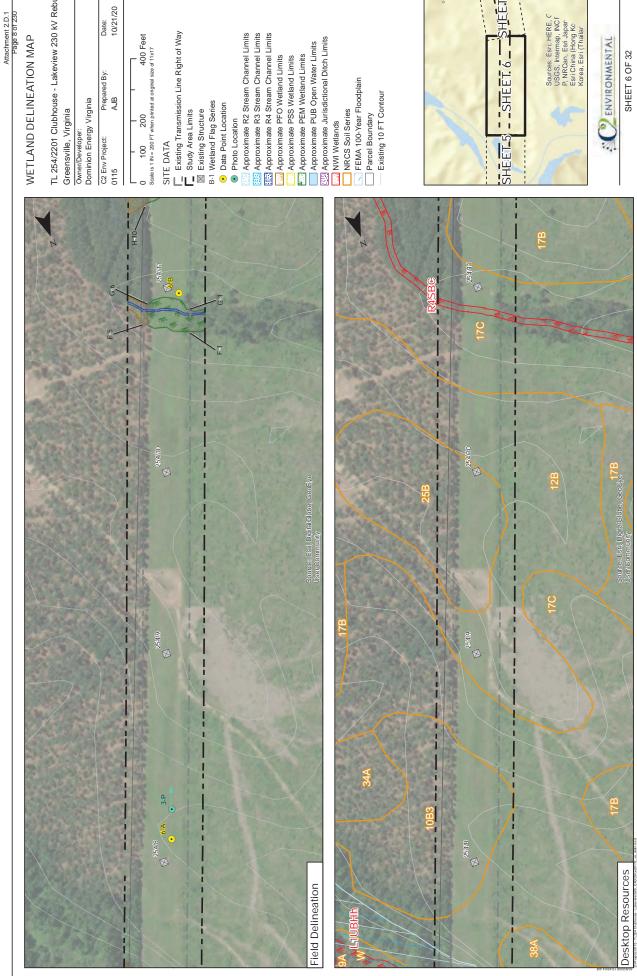
	Date:	10/21/20		_	400 Feet	
Virginia	Prepared By:	AJB		-	200	
Dominion Energy Virginia	C2 Env Project:	0115		-	0 100	
228	100	22.7	23			

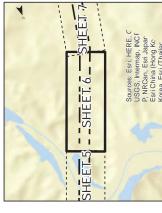


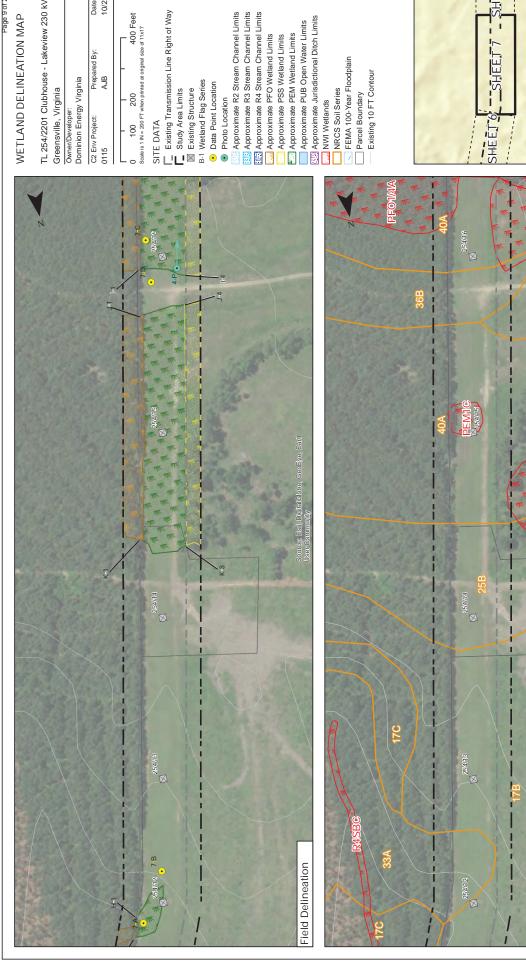


Date: 10/21/20

SHEET 6

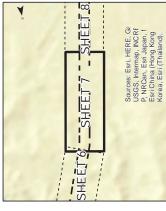






Date: 10/21/20 400 Feet Prepared By: AJB

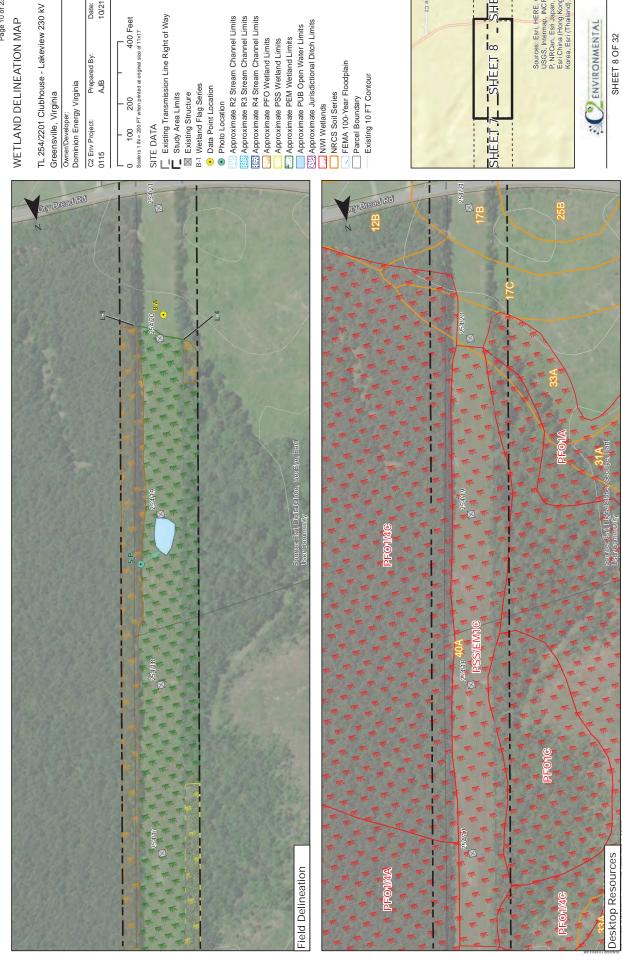
Approximate Jurisdictional Ditch Limits



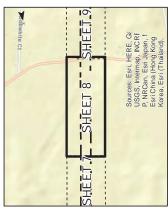


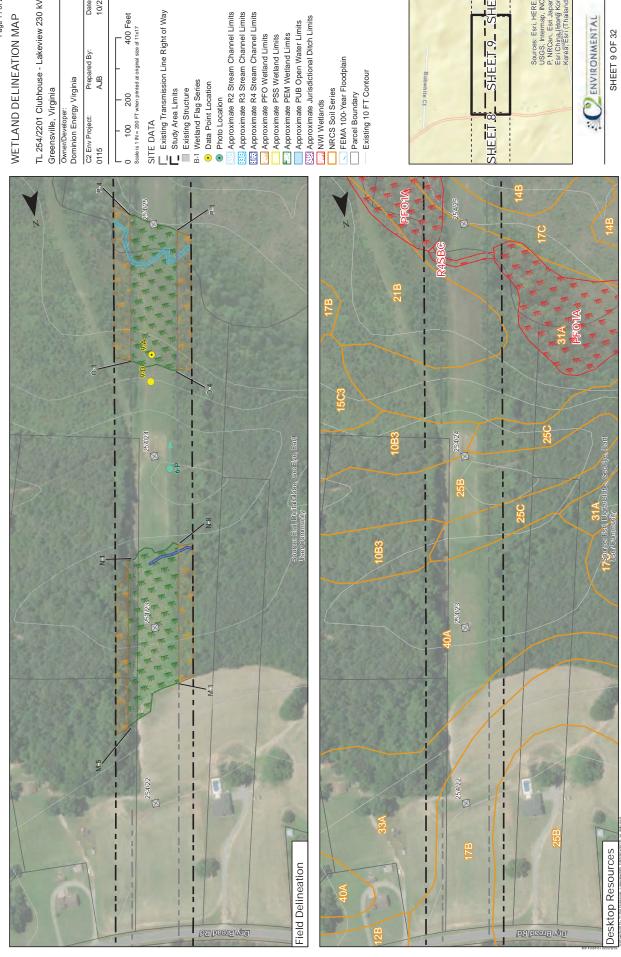
SHEET 7 OF 32

Desktop Resources



Date: 10/21/20

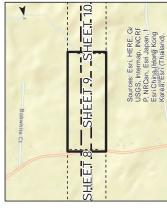


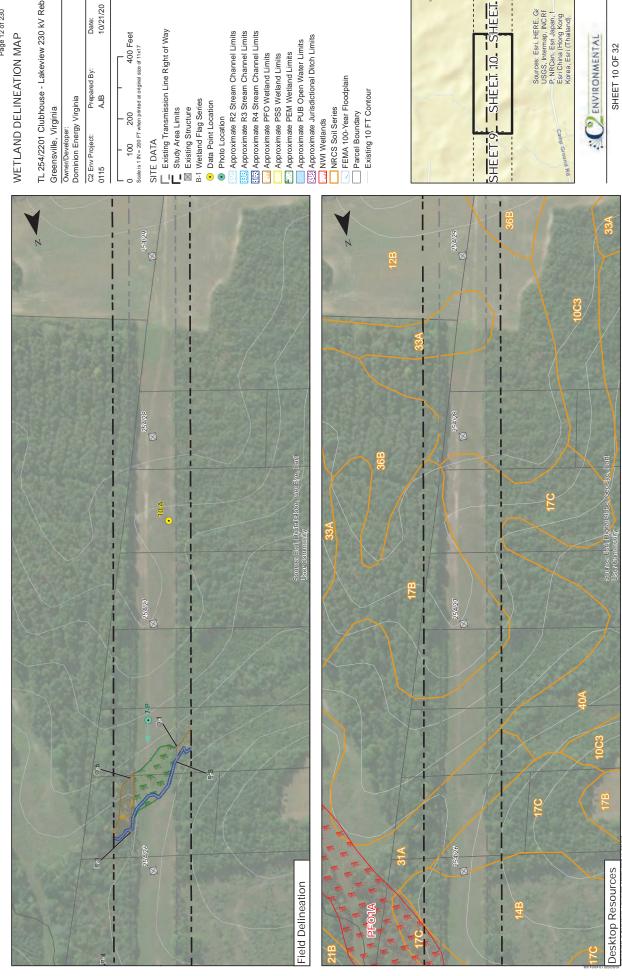


Date: 10/21/20 400 Feet

Approximate R2 Stream Channel Limits

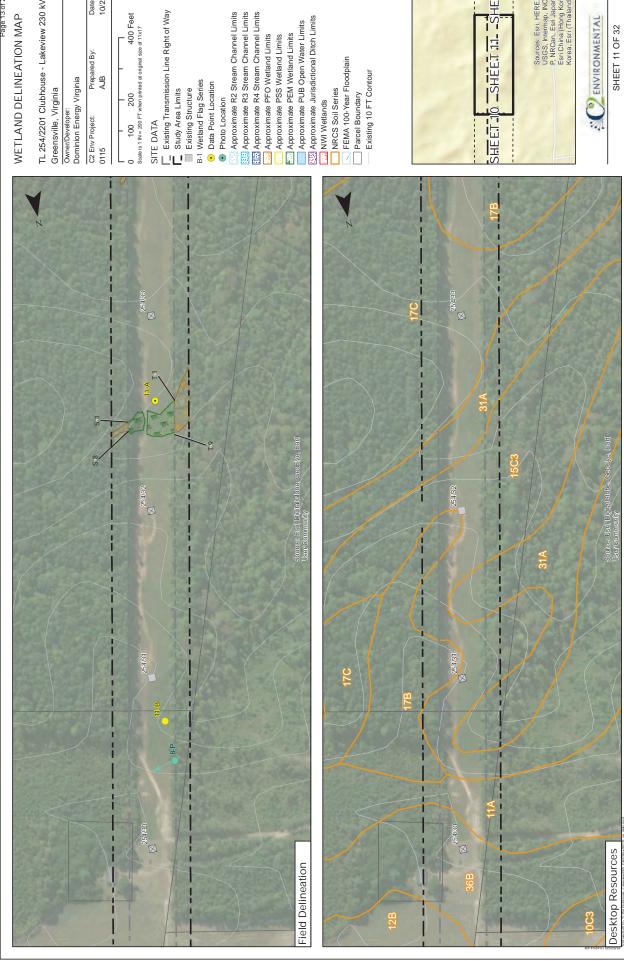
Approximate Jurisdictional Ditch Limits



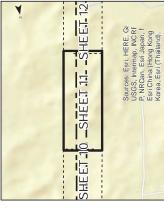


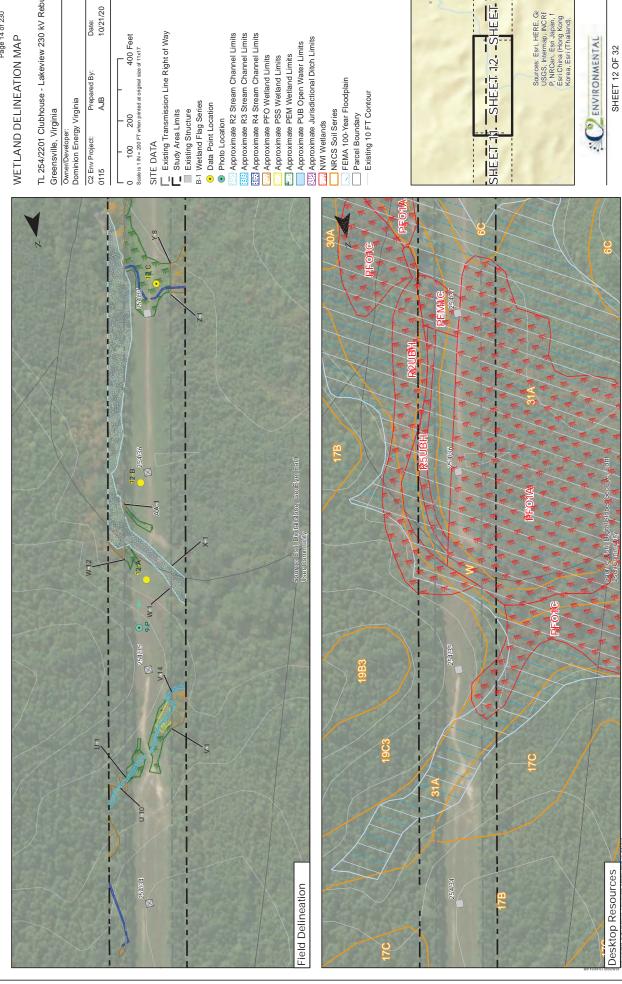
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SHEET 10 SHEET 11



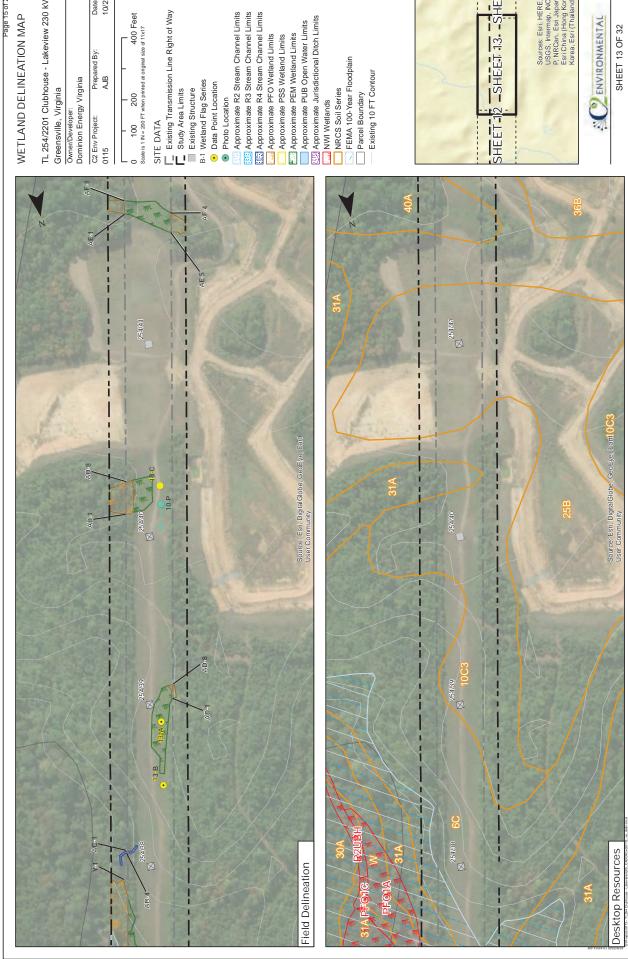
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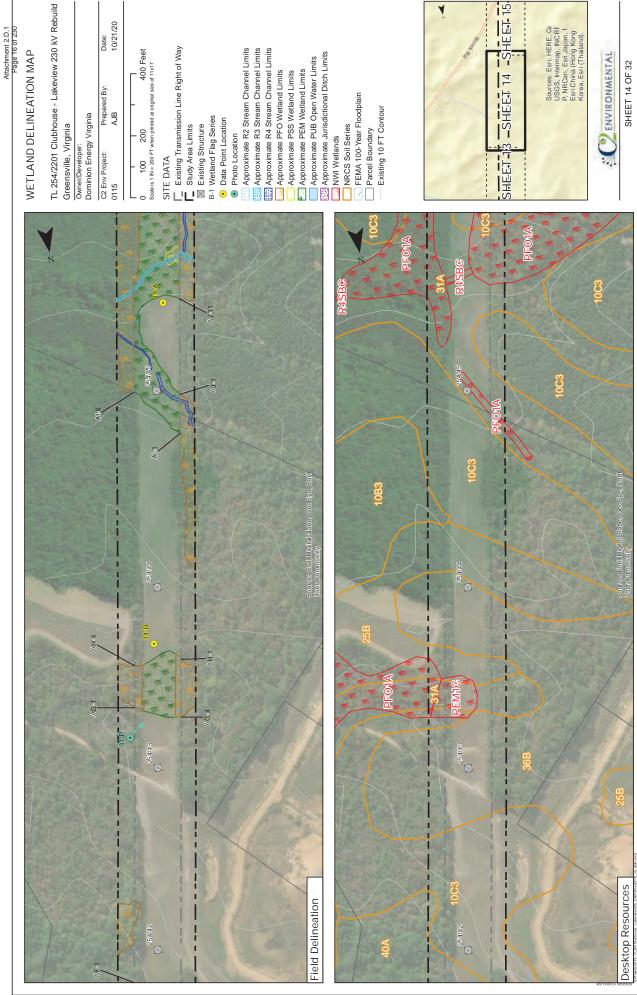
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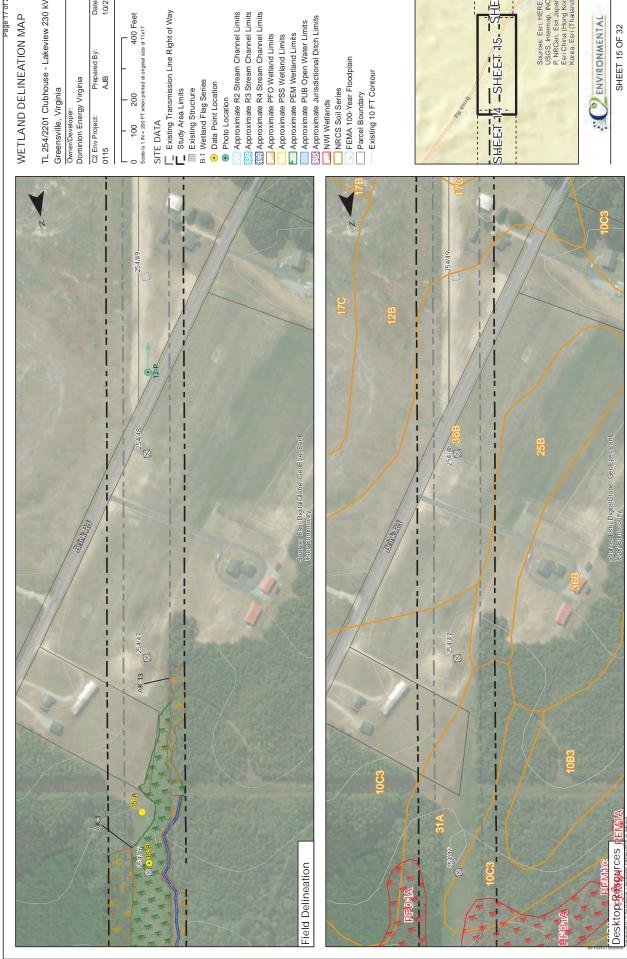
SHEET 12. SHEET 13.



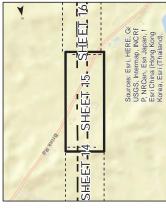
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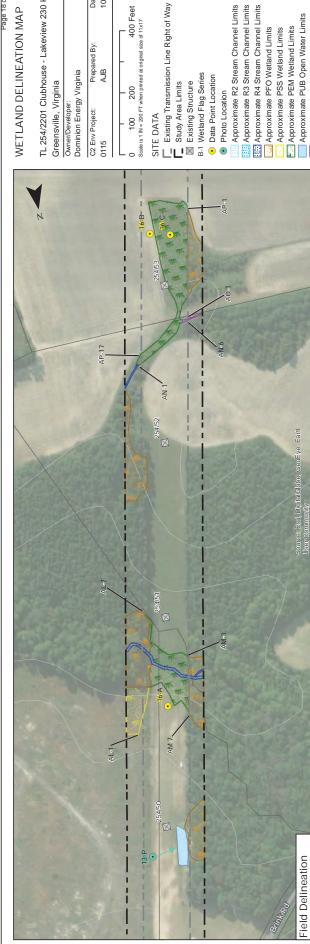
2 _SHEET 13. _SHEET 14 Sources: Esri, HERE, GEUSGS, Intermap, INCRFP, NRCan, Esri Japan, IEsri China (Hong Kong Korea, Esri (Thailand),

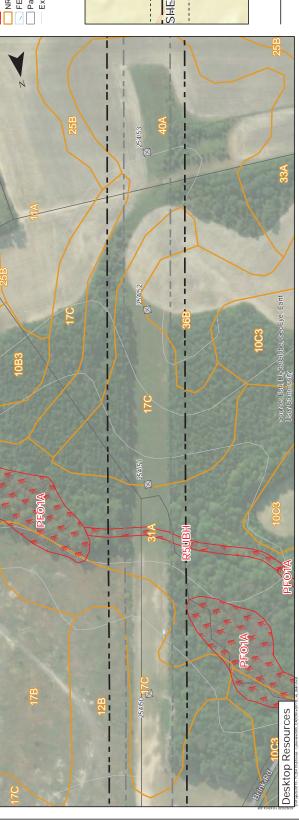




Date: 10/21/20 400 Feet







WETLAND DELINEATION MAP

TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild

,	Prepared By: Date:	AJB 10/21/20		200 400 Feet
Z	C2 Env Project:	0115	_	0 100
			ı	

Data Point Location
 Photo Location

Approximate R2 Stream Channel Limits

R3 Approximate R3 Stream Channel Limits

R3 Approximate R4 Stream Channel Limits

Approximate PFO Wetland Limits

R4 Approximate PEM Wetland Limits

R5 Approximate PBO Open Water Limits

R5 Approximate PUBO Open Water Limits

R5 Approximate Duson Open Water Limits

R5 Approximate Duson Open Water Limits

R5 Approximate Duson Open Water Limits

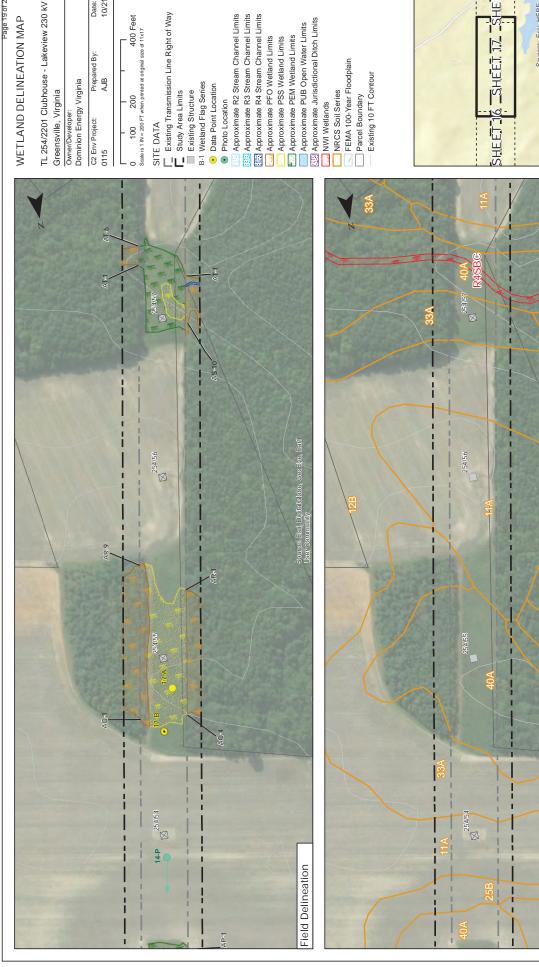
FEMA 100-Year Floodplain NRCS Soil Series

Parcel Boundary
Existing 10 FT Contour

SHEET 16 SHEET 17 Sources: Esri, HERE, GE USGS, Intermap, INCRF P, NRCan, Esri Japan, I Esri China (Hong Kong Korea, Esri (Thailand), SHEET



SHEET 16 OF 32



WETLAND DELINEATION MAP

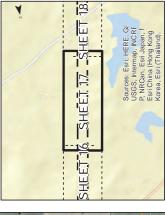
TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild

Date: 10/21/20 400 Feet Prepared By: AJB

Approximate R2 Stream Channel Limits

Approximate PUB Open water Limits

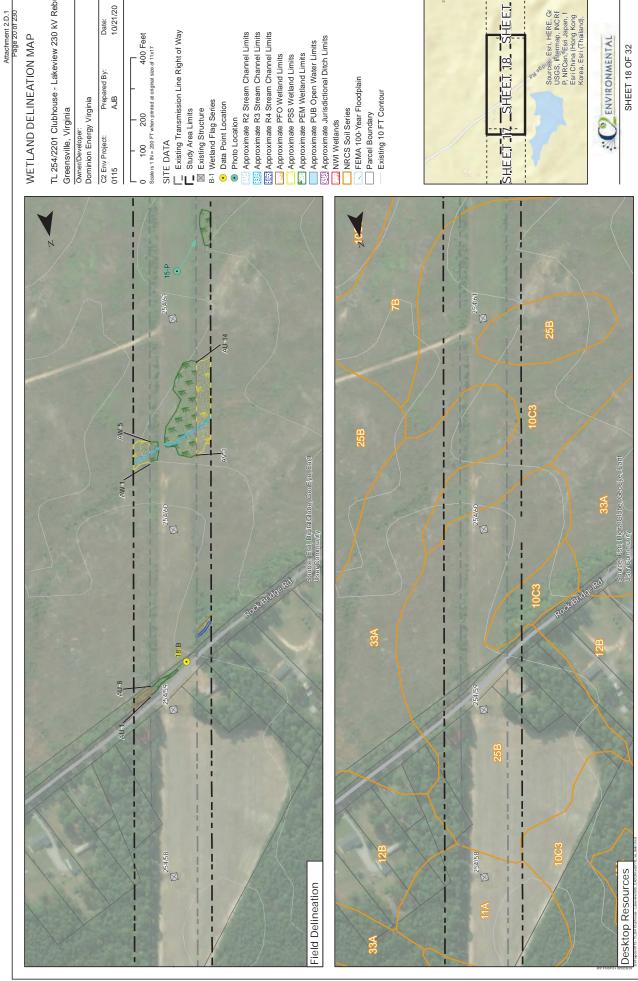
Approximate Jurisdictional Ditch Limits





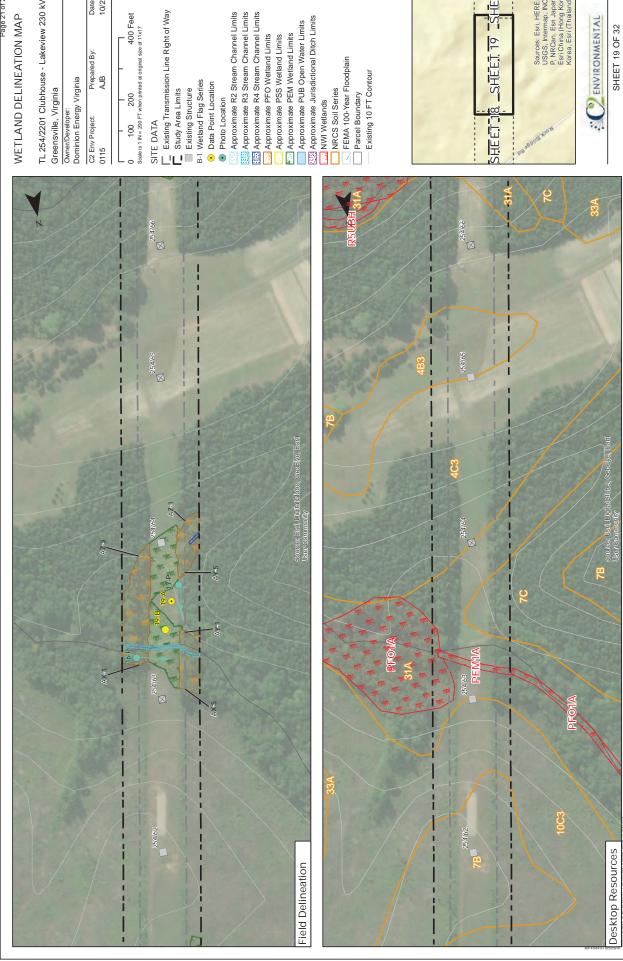
SHEET 17 OF 32

Desktop Resources

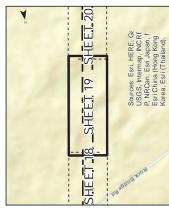


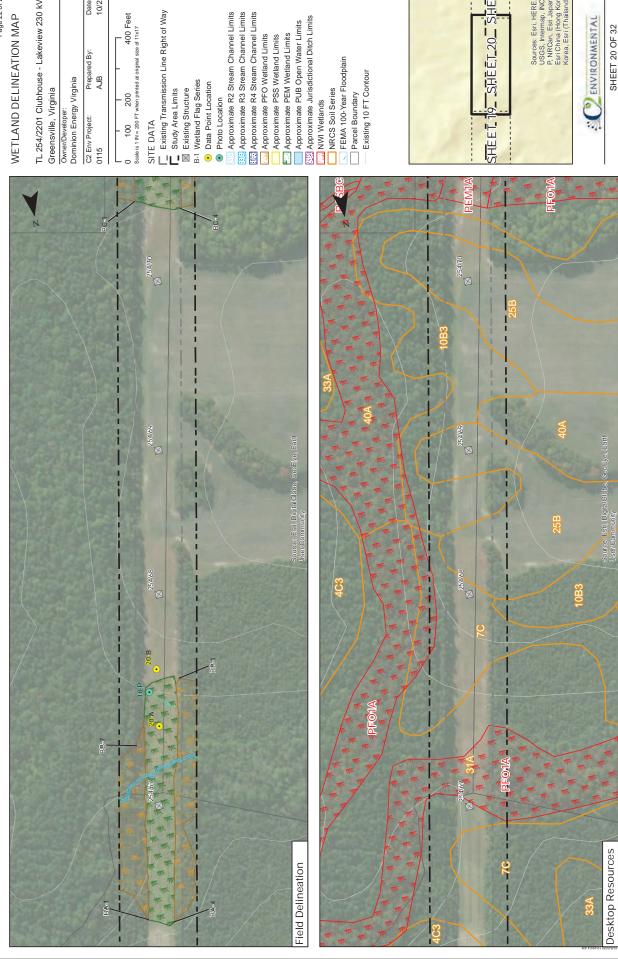
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7 SHEET 18 SHEET 19

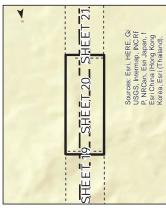


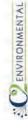
Date: 10/21/20





Date: 10/21/20 400 Feet Prepared By: AJB





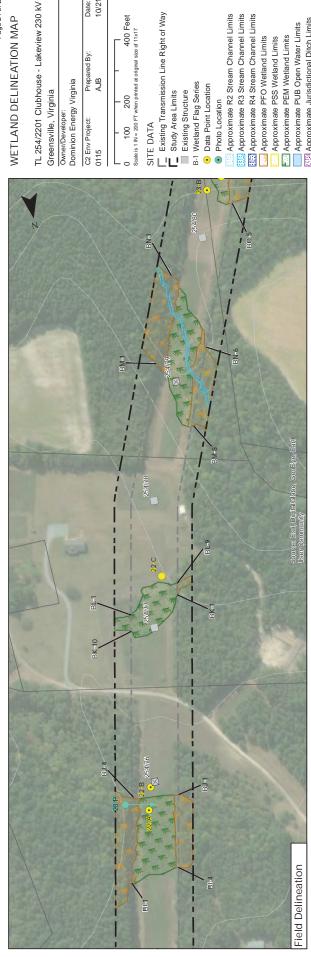
SHEET 20 OF 32



TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild SHEET 21 SHEET 22 Date: 10/21/20 Sources: Esri, HERE. GRUSGS, Intermap, INCRF. P. NRCan, Esri Japan, I Esri China (Hong Kong Korea, Esri (Thailand), Approximate R2 Stream Channel Limits R Approximate R3 Stream Channel Limits R Approximate R4 Stream Channel Limits Approximate PFO Wetland Limits Approximate PSS Wetland Limits Approximate PSS Wetland Limits Existing Transmission Line Right of Way Study Area Limits Existing Structure B-1 Wetland Flag Series 400 Feet Approximate PUB Open Water Limits Res Approximate Jurisdictional Ditch Limits MI Wetlands Prepared By: AJB FEMA 100-Year Floodplain SHEET 2

S ENVIRONMENTAL SHEET 21 OF 32

Desktop Resources





WETLAND DELINEATION MAP

TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild

22 Env Project: Prepared By: Date: 0115 AJB 10/21/20 0 100 200 400 Feet

Approximate R2 Stream Channel Limits

R3 Approximate R3 Stream Channel Limits
R3 Approximate R4 Stream Channel Limits
C3 Approximate PFO Wetland Limits
C4 Approximate PFM Wetland Limits
C5 Approximate PFM Wetland Limits
C5 Approximate PFM Wetland Limits
C5 Approximate PM Wetland Limits
C5 Approximate PUB Open Water Limits
C5 Approximate Junisdictional Ditch Limits

NWI Wetlands

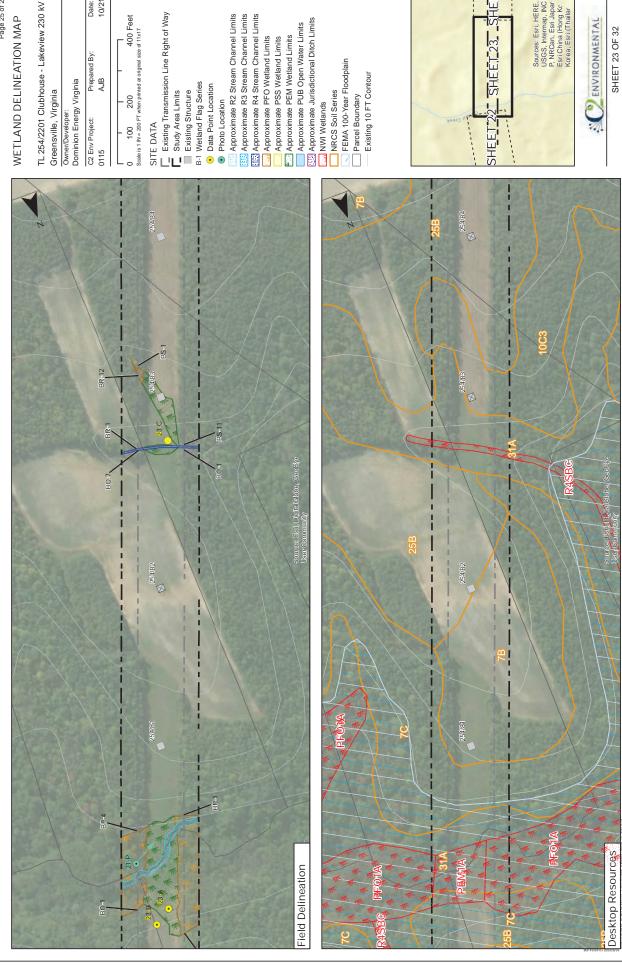
FEMA 100-Year Floodplain NRCS Soil Series

Parcel Boundary
Existing 10 FT Contour

Sources: Esri, HERE. G? USGS, Intermap, INCRF P, NRCan, Esri Japan, I Esri China (Hong Kong Korea, Esri (Thailand), SHEET

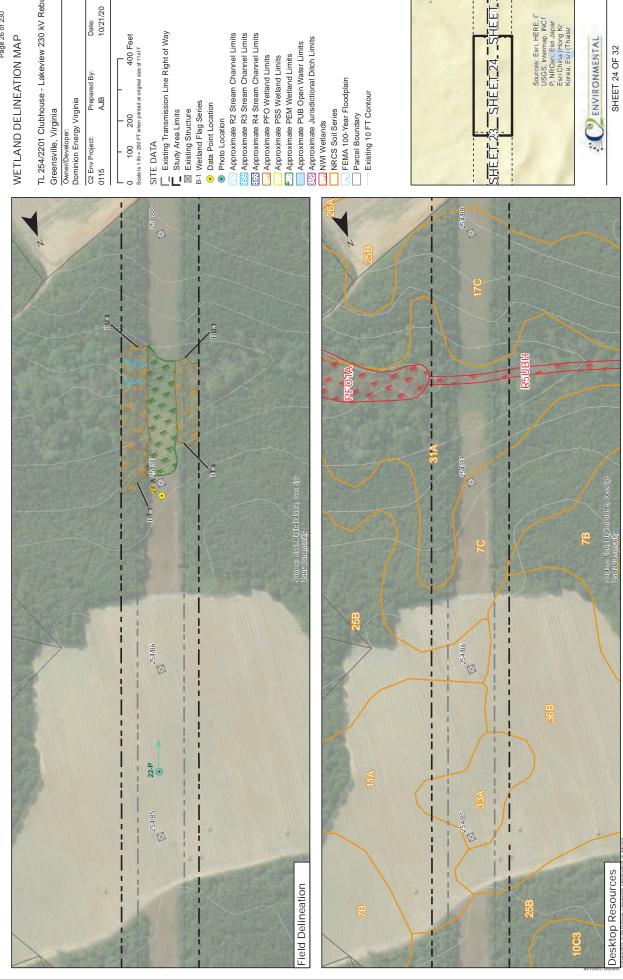


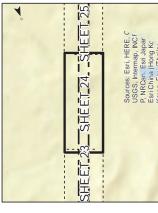
SHEET 22 OF 32

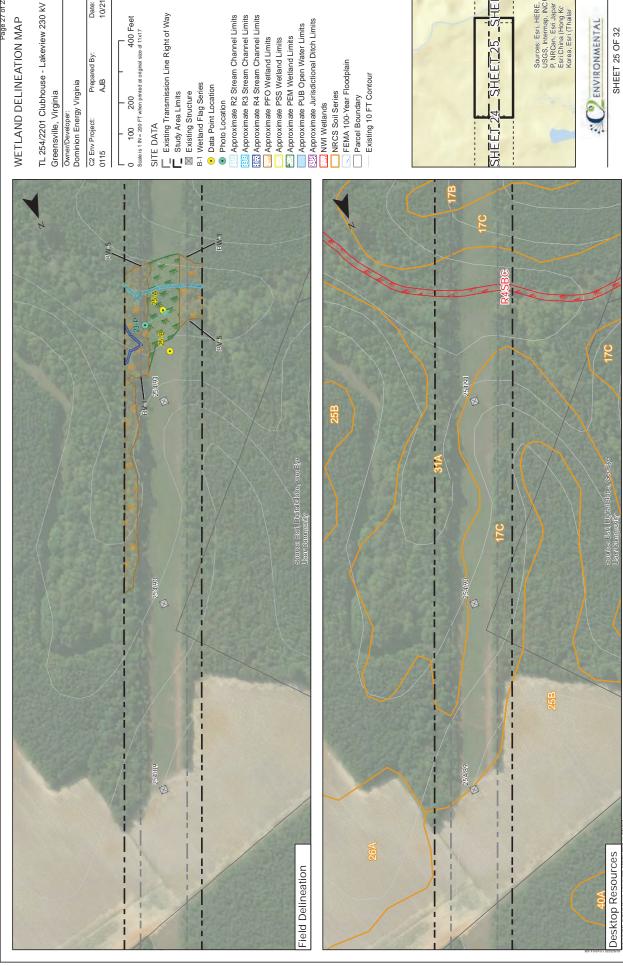


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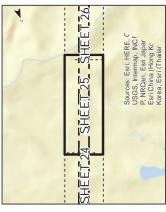
SHEET 23 SHEET 24 Sources: Esri, HERE, C USGS, Intermap, INCf P, NRCan, Esri Japar Esri China (Hong Kc Korea, Esri (Thailar

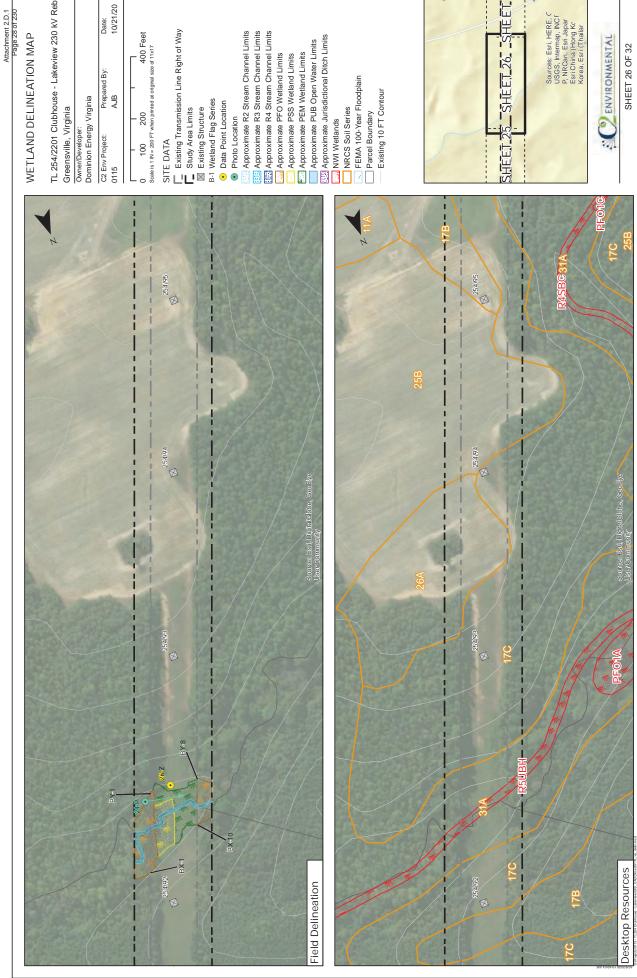






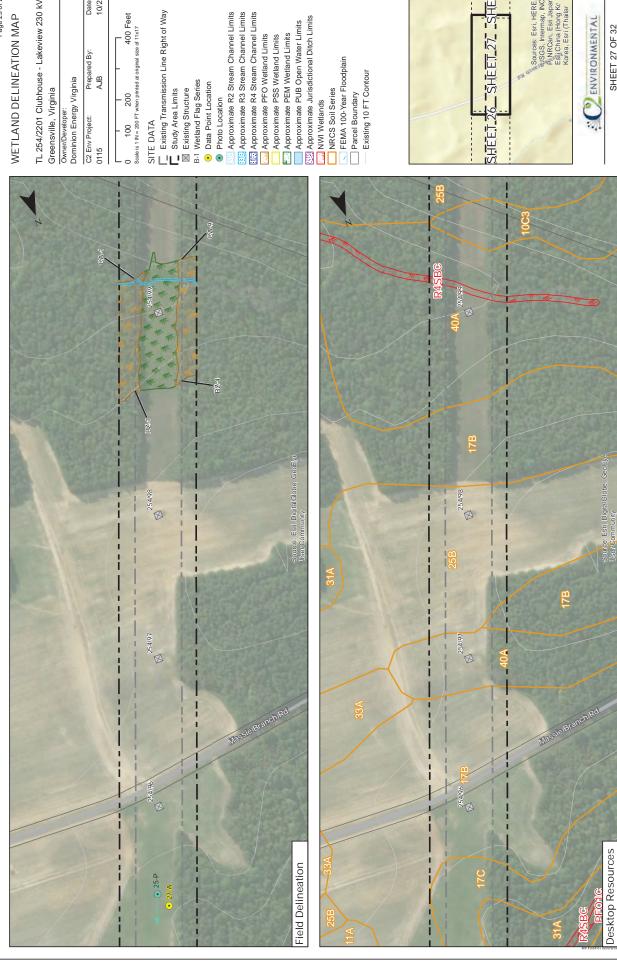
Date: 10/21/20



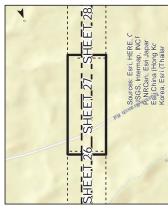


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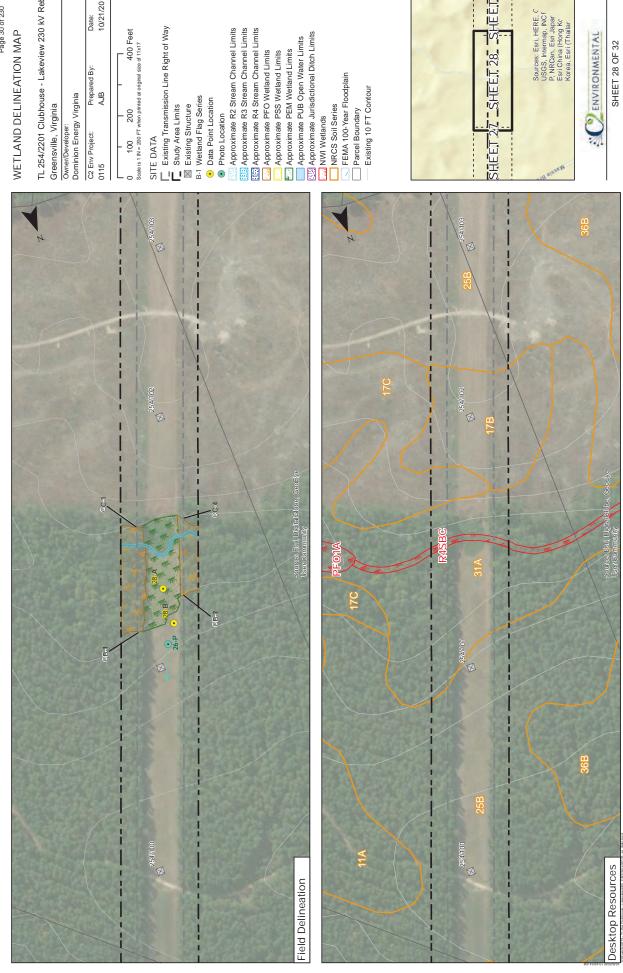
SHEET 26 SHEET 27



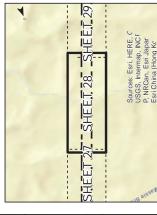
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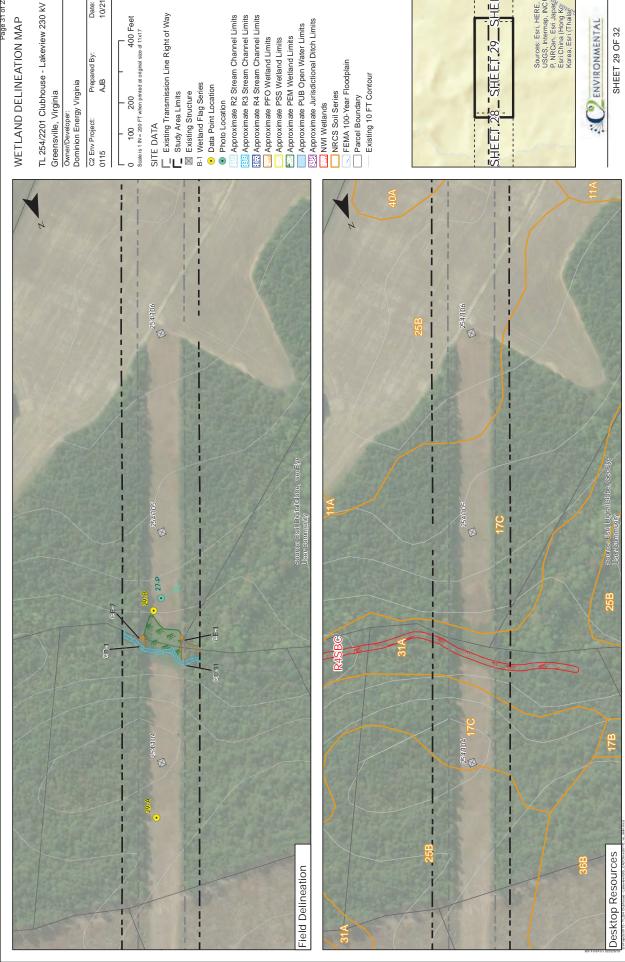


SHEET 27 OF 32

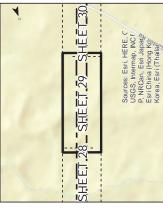


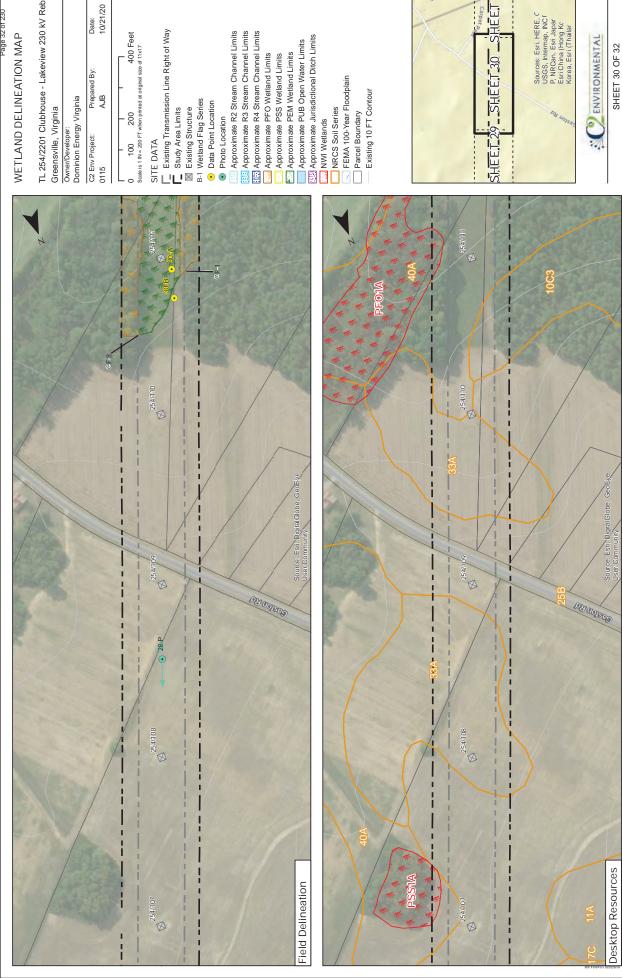
Date: 10/21/20





Date: 10/21/20





Date: 10/21/20

HEET 31



Desktop Resources

WETLAND DELINEATION MAP

TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild

Date: 10/21/20 Prepared By: AJB Greensville, Virginia Owner/Developer: Dominion Energy Virginia C2 Env Project: 0115

400 Feet 200 SITE DATA 100

Existing Transmission Line Right of Way

Study Area Limits

Existing Structure

B-1 Wetland Flag Series

 Data Point Location Photo Location

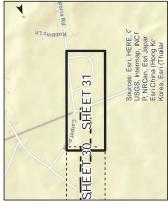
Approximate R2 Stream Channel Limits

REA Approximate RS Stream Channel Limits
REA Approximate R4 Stream Channel Limits
LEA Approximate PFO Wetland Limits
LEA Approximate PSS Wetland Limits
LEA Approximate PEM Wetland Limits
Approximate PUB Open Water Limits

Approximate FOB Open water Limits

FEMA 100-Year Floodplain NRCS Soil Series

Parcel Boundary
Existing 10 FT Contour





SHEET 31 OF 32

10B3	Craven clay loam, 2 to 6 percent slopes, severely eroded	Yes
10C3	Craven clay loam, 6 to 12 percent slopes, severely eroded	Yes
11A	Dothan loamy sand, 0 to 2 percent slopes	No
12B	Emporia loamy fine sand, 2 to 6 percent slopes	No
14B	Fluvanna loam, 2 to 7 percent slopes	No
15B3	Fluvanna clay loam, 2 to 7 percent slopes, severely eroded	No
15C3	Fluvanna clay loam, 7 to 15 percent slopes, severely eroded	No
17B	Fluvanna-Mattaponi complex, 2 to 7 percent slopes	No
17C	Fluvanna-Mattaponi complex, 7 to 15 percent slopes	No
19C3	Georgeville clay loam, 7 to 15 percent slopes, severely eroded	No
20B	Helena gravelly coarse sandy loam, 2 to 7 percent slopes	No
21B	Iredell loam, 2 to 7 percent slopes	Yes
25B	Mattaponi sandy loam, 2 to 6 percent slopes	No
25C	Mattaponi gravelly sandy loam, 6 to 15 percent slopes	No
26A	Orangeburg loamy sand, 0 to 2 percent slopes	No
30A	Riverview silt loam, 0 to 2 percent slopes, frequently flooded	No
31A	Roanoke loam, 0 to 2 percent slopes, frequently flooded	Yes
33A	Slagle fine sandy loam, 0 to 3 percent slopes	Yes
36B	Uchee loamy sand, 0 to 6 percent slopes	No
37	Udorthents, smoothed, 0 to 25 percent slopes	No

Wickham fine sandy loam, 0 to 3 percent slopes Woodington fine sandy loam, 0 to 2 percent slopes

Appling sandy clay loam, 2 to 7 percent slopes, severely eroded

Appling sandy clay loam, 7 to 15 percent slopes, severely eroded

Appling-Louisburg complex, 7 to 15 percent slopes

Appling-Mattaponi complex, 2 to 7 percent slopes

Appling-Mattaponi complex, 7 to 15 percent slopes

Chenneby silt loam, 0 to 2 percent slopes, frequently flooded

Water

Series Name

WETLAND DELINEATION MAP

TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild Greensville, Virginia

Client

Hydric Rating

Yes

Yes

No

No

No

No

No

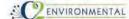
No

Unranked

Dominion Energy Virginia

C2 Env Project:	Prepared By:	Date:
0115	GCF	10/21/20





SHEET 32 OF 32

rojectsl0115 - TL254 Clubhouse - Lakeview/GIS_CADD/mxd/0115_delin_soils.ms

Soil Map Unit

38A

40A

4B3

4C3

6C

7B

7C

9A

W

APPENDIX B

Corps Data Sheets

Attachment 2.D.1
Page 36 of 230

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region

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

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 06/30/20		
Applicant/Owner: Dominion Energy Virgin			State: VA	Sampling Point: 4-A		
Investigator(s): S. Kupiec	Sect	ion, Township, Range:				
Landform (hillside, terrace, etc.): Drainagew	/ayLocal re	elief (concave, convex, none	e): Concave	Slope (%):4-6		
Subregion (LRR or MLRA): LRR P, MLRA 13	33A Lat: 36.715083	Long: -77.5	86775	Datum:		
Soil Map Unit Name: Fluvanna-Mattaponi coi			NWI classifica	tion: N/A		
Are climatic / hydrologic conditions on the site		Yes X I	— No (If no, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrol	,,		mstances" present			
Are Vegetation, Soil, or Hydrol			n any answers in Re			
SUMMARY OF FINDINGS – Attach			•	•		
Hydrophytic Vegetation Present?	YesNo_XI	Is the Sampled Area				
		within a Wetland?	Yes	No X		
	Yes No X		<u> </u>			
Upland above Flag A-16.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>Se</u>	condary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)		_	ed Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRF		Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C					
Water Marks (B1)	Oxidized Rhizospheres or		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction 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 Remark	.s)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test			
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR 1, U)		
Field Observations:	N					
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes Yes	No X Depth (inches):		rology Present?	Vos No Y		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):		rology Fresent:	Yes No_X_		
Describe Recorded Data (stream gauge, mo			ahle.			
	, , , , , , , , , , , , , , , , , , ,	711000 map 20110.1.2, 1. 21.2.2	abio.			
Remarks:						

Sampling Point: 4-A

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

Troo Stratum (Plat size: 20)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet
<u>Tree Stratum</u> (Plot size:30) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata:4 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)
·		=Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0
Liriodendron tulipifera	15	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species 40 x 3 = 120
3.				FACU species 55 x 4 = 220
4.				UPL species 35 x 5 = 175
5.				Column Totals: 130 (A) 515 (B)
6.				Prevalence Index = $B/A = 3.96$
0	15	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:		of total cover:	3	1 - Rapid Test for Hydrophytic Vegetation
	8 2070	0) lulai covei.	<u> </u>	2 - Dominance Test is >50%
Shrub Stratum (Plot size: 30)	25	V	1101	
1. Rhus copallinum	35	Yes	UPL	3 - Prevalence Index is ≤3.0¹
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3				1
4				
5				¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
-		=Total Cover		Definitions of Five Vegetation Strata:
	18 20%	of total cover:	7	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:30)				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Solidago altissima	40	Yes	FACU	(7.0 cm) or larger in diameter at broast holynt (DDI).
2. Rubus argutus	25	Yes	FAC	Sapling – Woody plants, excluding woody vines,
3. Verbesina alternifolia	15	No	FAC	approximately 20 ft (6 m) or more in height and less
4. Sedge spp.	15	No		than 3 in. (7.6 cm) DBH.
5.	<u> </u>			Shrub - Woody Plants, excluding woody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in height.
7.				Herb – All herbaceous (non-woody) plants, including
0				herbaceous vines, regardless of size, and woody
<u> </u>				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
				Woody Vine – All woody vines, regardless of height.
11.		Tatal Cover		, , , , , , , , , , , , , , , , , , ,
500/ of total account		=Total Cover	4.0	
	48 20%	of total cover:	19	
Woody Vine Stratum (Plot size:30)				
1				
2				
3				
4				
5.				Undraphysia
		=Total Cover		Hydrophytic Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptatio	ons below.)			
rtemarks. (ii observed, list morphological adaptatio				

SOIL Sampling Point: 4-A

		to the dept				ator or co	onfirm the absence of i	ndicators.)		
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	Featur %	res Type ¹	Loc ²	Toyturo	Por	narks	
(inches) 0-6	7.5YR 4/4	100	Color (moist)	70	туре	LOC	Texture Loamy/Clayey	Kei	ildik5	
0-0	7.511(4/4									
6-20	7.5YR 4/6	100					Loamy/Clayey			
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Mas	ked Sand	Grains.	² Location: PL=	Pore Lining, M=	:Matrix.	
	ndicators: (Applica							Problematic Hy		
Histosol	(A1)		Thin Dark Su	rface (S	39) (LRR	S, T, U)	1 cm Muck	(A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm Muck	(A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	SD)		Coast Prai	rie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outside	MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	d Matri	x (F2)			ertic (F18)		
	Bodies (A6) (LRR P,		Depleted Mar				`	MLRA 150A, 1	,	
	cky Mineral (A7) (LR		Redox Dark S		` '				(F19) (LRR P, T)	
	esence (A8) (LRR U))	Depleted Dar					Bright Floodpla	ain Soils (F20)	
	ck (A9) (LRR P, T)	. (Redox Depre		(F8)		(MLRA 153B) Red Parent Material (F21)			
	Below Dark Surface rk Surface (A12)	; (A11)	Marl (F10) (L Depleted Ocl		1) /MI D /	\ 151\	Very Shallow Dark Surface (F22)			
	airie Redox (A16) (M	II RΔ 150Δ								
	ucky Mineral (S1) (L		Umbric Surfa		,	, .	Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	0, 0,	Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ver					lain in Remarks)	
	Matrix (S6)		Piedmont Flo	odplair	Soils (F	19) (MLR			,	
	face (S7) (LRR P, S ,	, T, U)	Anomalous E	Bright Fl	loodplain	Soils (F2	(0)			
Polyvalue	e Below Surface (S8))	(MLRA 149	A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,			
			(MLRA 138	3, 152A	in FL, 1	54)	unless disturbed or problematic.			
Restrictive L	.ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Present?	Yes	NoX	
Remarks:										

Attachment 2.D.1

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	e	Sampling Date: 06/30/20)		
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 4-B			
Investigator(s): S. Kupiec	Sec	ction, Township, Range:					
Landform (hillside, terrace, etc.): Drainage	way Local	relief (concave, convex,	none): Concave	Slope (%): 2-3			
Subregion (LRR or MLRA): LRR P, MLRA 1			77.586757	Datum:	_		
Soil Map Unit Name: Fluvanna-Mattaponi co			NWI classifica				
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)			
Are Vegetation, Soil, or Hydro			ircumstances" present		_		
Are Vegetation, Soil, or Hydro			olain any answers in Re				
SUMMARY OF FINDINGS – Attach	າ site map showing san	mpling point location	ons, transects, in	nportant features, etc	Э.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No			
Wetland Hydrology Present?	Yes X No			<u> </u>			
Remarks:							
Wetland at Flag A-13.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	ks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LR						
Saturation (A3)	Hydrogen Sulfide Odor (
Water Marks (B1)		heres on Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced Iro						
Drift Deposits (B3)	Thin Muck Surface (C7)	ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Comparable Resition (D2)					
Algal Mat or Crust (B4) Iron Deposits (B5)	Other (Explain in Remar						
Inundation Visible on Aerial Imagery (B		X FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)	'')		Sphagnum Moss				
Field Observations:			<u> </u>	(, (, -,			
	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		Hydrology Present?	Yes X No			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, me	onitoring well, aerial photos, pr	revious inspections), if a	vailable:				
Remarks:							

Absolute Dominant Indicator <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status	Dominance Test worksheet:	
	Dominance rest worksneet.	
1.	Number of Dominant Species That Are OBL, FACW, or FAC: 3	(A)
3. 4.	Total Number of Dominant Species Across All Strata: 4	(B)
5.	Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0%	(A/B)
=Total Cover	Prevalence Index worksheet:	
50% of total cover: 20% of total cover:	Total % Cover of: Multiply b	oy:
Sapling Stratum (Plot size: 30)	OBL species 80 x 1 = 8	0
1	FACW species 5 x 2 = 1	0
2.	FAC species 10 x 3 = 3	0
3.	FACU species 30 x 4 = 12	20
4.	UPL species 0 x 5 =)
5.	Column Totals: 125 (A) 24	40 (B)
6.	Prevalence Index = B/A = 1.9	2
=Total Cover	Hydrophytic Vegetation Indicators:	
50% of total cover: 20% of total cover:	1 - Rapid Test for Hydrophytic Vegetatio	n
Shrub Stratum (Plot size: 30)	X 2 - Dominance Test is >50%	
1. Salix nigra 15 Yes OBL	X 3 - Prevalence Index is ≤3.0 ¹	
2	Problematic Hydrophytic Vegetation ¹ (E:	vnlain)
	Troblematic riyarophytic vegetation (E.	хрішіі)
4		
5	¹ Indicators of hydric soil and wetland hydrolo	gy must be
	present, unless disturbed or problematic.	
	Definitions of Five Vegetation Strata:	
50% of total cover: 8 20% of total cover: 3	Tree – Woody plants, excluding woody vines	
Herb Stratum (Plot size: 30)	approximately 20 ft (6 m) or more in height a (7.6 cm) or larger in diameter at breast heigh	
1. Juncus effusus 30 Yes OBL	(7.0 cm) or larger in diameter at breast heigi	it (DBI I).
2. Solidago altissima 30 Yes FACU	Sapling – Woody plants, excluding woody v	ines,
3. Carex lupulina 25 Yes OBL	approximately 20 ft (6 m) or more in height a	ind less
4. Dichanthelium dichotomum 10 No FAC	than 3 in. (7.6 cm) DBH.	
5. Ludwigia alternifolia 10 No OBL	Shrub - Woody Plants, excluding woody vine	es,
6. Carex albolutescens 5 No FACW	approximately 3 to 20 ft (1 to 6 m) in height.	
7.	Herb – All herbaceous (non-woody) plants, i	neludina
	herbaceous vines, regardless of size, and w	
	plants, except woody vines, less than approx	
	ft (1 m) in height.	
	Woody Vine – All woody vines, regardless of	of height.
	,,	3
50% of total cover: 20% of total cover: 22		
Woody Vine Stratum (Plot size:30)		
1		
2		
3		
4		
5.	Lludrophytic	
=Total Cover	Hydrophytic Vegetation	
	Present? Yes X No	
Remarks: (If observed, list morphological adaptations below.)		

SOIL Sampling Point: 4-B

Profile Desc Depth	cription: (Describe t Matrix	to the dep		ıment tl < Featur		ator or co	onfirm the absence o	of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-8	2.5Y 4/2	95	10YR 5/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations			
8-20	2.5Y 4/1	80	10YR 5/8	15	С	М	Loamy/Clayey	Prominent redox concentrations			
			10YR 5/6	5	С	PL		Prominent redox concentrations			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applica	ble to all I	_RRs, unless othe	rwise n	oted.)		Indicators f	for Problematic Hydric Soils ³ :			
Histosol			Thin Dark Su					uck (A9) (LRR O)			
	pipedon (A2)		Barrier Island			12)		uck (A10) (LRR S)			
Black Hi	` '		(MLRA 15		•			rairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck			.RR O)	,	ide MLRA 150A)			
	d Layers (A5)		Loamy Gleye					d Vertic (F18)			
	Bodies (A6) (LRR P,		X Depleted Ma				,	ide MLRA 150A, 150B)			
5 cm Mu	icky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)			
Muck Pr	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)				
	ick (A9) (LRR P, T)		Redox Depre		(F8)		•	A 153B)			
	d Below Dark Surface	(A11)	Marl (F10) (L					rent Material (F21)			
	ark Surface (A12)		Depleted Oc					allow Dark Surface (F22)			
	rairie Redox (A16) (M							ide MLRA 138, 152A in FL, 154)			
	lucky Mineral (S1) (L	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)				
	lleyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D)				
	edox (S5)		Reduced Ver	,	, .		· — `	Explain in Remarks)			
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Sui	rface (S7) (LRR P, S,	, T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2					
	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR	S, T, U)		Very Shallow	Dark S	Surface (F	F22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive I	_ayer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No			
Remarks:											

Attachment 2.D.1

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville	е	Sampling Date: 06/30/2020	
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 5-A	
Investigator(s): S. Kupiec		tion, Township, Range:		<u> </u>	
Landform (hillside, terrace, etc.): Drainagev		elief (concave, convex, n	none): Flat	Slope (%): 0-1	
Subregion (LRR or MLRA): LRR P, MLRA 1			7.589246	Datum:	
	50A Lat. 50.100100	Long. 4			
Soil Map Unit Name: Roanoke loam				tion: PFO1Ch	
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro			rcumstances" present		
Are Vegetation, Soil, or Hydro	logynaturally problema	itic? (If needed, exp	lain any answers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach	ı site map showing san	npling point location	ons, transects, in	nportant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?		within a Wetland?	Yes_X_	No	
Wetland Hydrology Present?	Yes X No				
Remarks:					
Wetland at Flag D-2.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac		
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)	
X High Water Table (A2)	Marl Deposits (B15) (LR	-	Drainage Patterns (B10)		
X Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres of	-	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Drift Deposits (B3)	Presence of Reduced Iron Recent Iron Reduction in		Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Trilled Solis (Co)	X Geomorphic Position (D2)		
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B		-	X FAC-Neutral Test		
X Water-Stained Leaves (B9)		-	Sphagnum Moss		
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes X	No Depth (inches):	8			
Saturation Present? Yes X	No Depth (inches):	0 Wetland H	Hydrology Present?	Yes X No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if av	ailable:		
Remarks:					
Nemarks.					

VEGETATION (Five Strata) - Use scien	tific names	of plants.		Sampling Point:5-A
T. O (D	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
2				
4				Total Number of Dominant Species Across All Strata: 5 (B)
5				``
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
0		=Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 120 x 1 = 120
1. cer negundo	5	Yes	FAC	FACW species 25 x 2 = 50
2. raxinus penns I anica	5	Yes	FACW	FAC species 30 x 3 = 90
3.				FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5.				Column Totals: 185 (A) 300 (B)
6.				Prevalence Index = B/A = 1.62
	10	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	5 20%	of total cover:	2	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%
1. orella cerifera	25	Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
4				
5				¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
		=Total Cover		Definitions of Five Vegetation Strata:
	13 20%	of total cover:	5	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30)	50	V	ODI	(7.6 cm) or larger in diameter at breast height (DBH).
Leersia or oides Carex lupulina	50	Yes	OBL	
	35 15	Yes No	OBL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
3. eltandra irginica	10	No	OBL FACU	than 3 in. (7.6 cm) DBH.
4. alium aparine5. ersicaria sagittata	10	No	OBL	Shrub - Woody Plants, excluding woody vines,
6. pha latifolia	10	No	OBL	approximately 3 to 20 ft (1 to 6 m) in height.
7. L simachia ciliata	5	No	FACW	
8. mpatiens capensis	5	No	FACW	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
9. oehmeria c lindrica	5	No	FACW	plants, except woody vines, less than approximately 3
10. Carex albolutescens	5	No	FACW	ft (1 m) in height.
11.				Woody Vine – All woody vines, regardless of height.
	150	=Total Cover		
50% of total cover:		of total cover:	30	
Woody Vine Stratum (Plot size: 30)				
1.				
2.				
3.				
4.				
5.				Lludraphytic
-		=Total Cover		Hydrophytic Vegetation
50% of total cover:	20%	of total cover:		Present? Yes X No
Remarks: (If observed, list morphological adaptati	ons below.)			<u> </u>

SOIL Sampling Point: 5-A

(inches) 0-8	Matrix		Redo	x Featur	es					
0-8	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
	2.5Y 4/2	65	7.5YR 5/8	25	С	M	Loamy/Clayey	Prominent redox concentrations		
			7.5YR 4/6	10	С	PL		Prominent redox concentrations		
8-20	2.5Y 4/1	90	7.5YR 4/6	10	C	M	Loamy/Clayey	Prominent redox concentrations		
					<u> </u>	_				
Type: C=Co	oncentration, D=Deple	etion, RM	=Reduced Matrix, N	MS=Mas	ked Sand	Grains.	²Location: F	PL=Pore Lining, M=Matrix.		
lydric Soil I	Indicators: (Applicat	ble to all	LRRs, unless othe	rwise n	oted.)		Indicators f	or Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su	urface (S	89) (LRR	S, T, U)	1 cm Mu	ıck (A9) (LRR O)		
Histic Ep	pipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outsi	de MLRA 150A)		
Stratified	l Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	de MLRA 150A, 150B)		
5 cm Mu	icky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmoi	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)			
	ick (A9) (LRR P, T)		Redox Depre		(F8)		(MLRA 153B)			
Depleted	d Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Par	rent Material (F21)		
	ark Surface (A12)		Depleted Oc					allow Dark Surface (F22)		
	rairie Redox (A16) (M							de MLRA 138, 152A in FL, 154)		
Sandy Mucky Mineral (S1) (LRR O, S)			Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	lleyed Matrix (S4)		Delta Ochric				•	4 153B, 153D)		
	edox (S5)		Reduced Ve	,	, .			Explain in Remarks)		
	Matrix (S6)		Piedmont Flo							
	rface (S7) (LRR P, S,		Anomalous I	-						
	e Below Surface (S8))	(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallov (MLRA 13				wetland hydrology must be present, unless disturbed or problematic.			
Restrictive L	_ayer (if observed):		(WERCA 13	0, 132A		J-1)	unics	3 disturbed of problematic.		
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 45 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 06/30/20		
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point: 5-B		
Investigator(s): S. Kupiec	Sect	ion, Township, Range:		<u>-</u>		
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, nor	ne): Convex	Slope (%): 2-4		
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.5		Datum:		
· · · · · · · · · · · · · · · · · · ·	30.7 TOOTT	Long. 17.				
Soil Map Unit Name: Fluvanna clay loam			NWI classificat			
Are climatic / hydrologic conditions on the site				explain in Remarks.)		
Are Vegetation, Soil, or Hydro			umstances" present			
Are Vegetation, Soil, or Hydro	logynaturally problemate	tic? (If needed, explai	n any answers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point location	s, transects, im	portant features, etc.		
Lhydraphytia Vagatatian Pragant?	Vec V No	le the Compled Area				
Hydrophytic Vegetation Present? Hydric Soil Present?		Is the Sampled Area within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X	within a wettand:	163	NO X		
Remarks:	100 //					
Upland at Flag D-2.						
-1 -1 -1 -1						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	econdary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres o		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark		Shallow Aquitard	` '		
Inundation Visible on Aerial Imagery (B			FAC-Neutral Test			
Water-Stained Leaves (B9)		_	Sphagnum Moss			
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hyd	drology Present?	Yes No X		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	evious inspections), if avail	lable:			
Domorko						
Remarks:						

VEGETATION (Five Strata) – Use scient	ific names o	of plants.		Sampling Point:	5-B
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	6 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)
	=	Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	fultiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	0
1				FACW species 0 x 2 =	0
2.				FAC species 70 x 3 =	210
3.				FACU species 85 x 4 =	340
4				UPL species 0 x 5 =	0
5.				Column Totals: 155 (A)	550 (B)
6.				Prevalence Index = B/A =	3.55
		Total Cover		Hydrophytic Vegetation Indicators	:
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic V	egetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	
1. orella cerifera	5	Yes	FAC	3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegeta	tion ¹ (Explain)
3.					
4.					
5				1 a disease of budgie only and western	
6.				¹ Indicators of hydric soil and wetland present, unless disturbed or problem	
	5 =	Total Cover		Definitions of Five Vegetation Stra	
50% of total cover:		of total cover:	1	Tree – Woody plants, excluding woo	
Herb Stratum (Plot size: 30)		or total oover.		approximately 20 ft (6 m) or more in	
1. erbesina alternifolia	45	Yes	FAC	(7.6 cm) or larger in diameter at brea	
chillea millefolium	35	Yes	FACU	Conline Woody plants evaluating	woody vinos
Solidago altissima	25	No	FACU	Sapling – Woody plants, excluding vapproximately 20 ft (6 m) or more in	•
4. Lespede a cuneata	20	No	FACU	than 3 in. (7.6 cm) DBH.	noight and 1000
5. ubus argutus	5	No	FAC	Shrub - Woody Plants, excluding wo	ody vines
6.		110	170	approximately 3 to 20 ft (1 to 6 m) in	
7.					•
				Herb – All herbaceous (non-woody) herbaceous vines, regardless of size	
9.				plants, except woody vines, less than	
				ft (1 m) in height.	.,,
10.				Woody Vine – All woody vines, rega	urdless of height
11	400	T-1-1-0		woody vine 7 iii woody vines, rega	raicos of ficigiti.
500/ // /		=Total Cover	00		
	65 20%	of total cover:	26		
Woody Vine Stratum (Plot size: 30)		.,	=		
1. Smilax bona nox	10	Yes	FAC		
2. itis rotundifolia	5	Yes	FAC		
3. arthenocissus uin uefolia	5	Yes	FACU		
4					
5				Hydrophytic	
		Total Cover		Vegetation	
50% of total cover:	10 20%	of total cover:	4	Present? Yes X No)
Remarks: (If observed, list morphological adaptation	ons below.)				

SOIL Sampling Point: 5-B

	•	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Ra	marks		
			Color (moist)	70	Турс	LOC		- Ne	IIIaiks		
0-6	7.5YR 5/6	100					Loamy/Clayey				
4											
	oncentration, D=Deple					d Grains.		PL=Pore Lining, M			
=	ndicators: (Applical	ole to all L				C T II)		for Problematic H	lyaric Soils":		
Histosol	` '		Thin Dark Su					/luck (A9) (LRR O)			
Black His	ipedon (A2)		Barrier Island (MLRA 153			12)		/luck (A10) (LRR S) Prairie Redox (A16			
	n Sulfide (A4)		Loamy Muck			RR (I)		side MLRA 150A))		
	Layers (A5)		Loamy Gleye				•	ed Vertic (F18)			
	Bodies (A6) (LRR P,	T, U)	Depleted Mat					side MLRA 150A, 1	50B)		
	cky Mineral (A7) (LR		Redox Dark S				Piedmo	ont Floodplain Soils	(F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anoma	alous Bright Floodpl	ain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLF	RA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	arent Material (F21))		
Thick Da	rk Surface (A12)		Depleted Och	nric (F1	1) (MLRA	4 151)	Very S	hallow Dark Surfac	e (F22)		
	airie Redox (A16) (M				,	, .		side MLRA 138, 15			
	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa					Islands Low Chron	na Matrix (TS7)		
	leyed Matrix (S4)		Delta Ochric					RA 153B, 153D)	- \		
	edox (S5) Matrix (S6)		Reduced Ver	•	, .			Explain in Remarks	5)		
	face (S7) (LRR P, S,	T 11)	Piedmont Flo Anomalous B								
	e Below Surface (S8)		(MLRA 149	-				tors of hydrophytic	vegetation and		
	S, T, U)		Very Shallow				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,				
(=:::::	-, -, -,		(MLRA 138					ss disturbed or pro			
Restrictive L	ayer (if observed):		·			•		·			
Type:	Gravel										
Depth (in	iches):	6					Hydric Soil Prese	ent? Yes	No_X_		
Remarks:	<u> </u>										

Attachment 2.D.1 Page 48 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 06/30/20)	
Applicant/Owner: Dominion Energy Virgin	nia		State: VA	Sampling Point: 5-C		
Investigator(s): S. Kupiec	Sect	ion, Township, Range:		<u></u>		
Landform (hillside, terrace, etc.): Drainagew		elief (concave, convex, no	ne): Concave	Slope (%): 6-8		
Subregion (LRR or MLRA): LRR P, MLRA 1:		Long: -77.		Datum:		
		Long. 477.				
Soil Map Unit Name: Fluvanna-Mattaponi co	·		NWI classificat			
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			umstances" present		_	
Are Vegetation, Soil, or Hydro	logynaturally problemate	tic? (If needed, explain	in any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, im	portant features, etc	C.	
	, N V					
Hydrophytic Vegetation Present?		Is the Sampled Area	Voc	No. V		
Hydric Soil Present? Wetland Hydrology Present?	Yes No X	within a Wetland?	Yes	No X		
	resNoX					
Remarks: Upland Above Line C.						
opiana / Bovo Eme O.						
HYDROLOGY						
Wetland Hydrology Indicators:		S	econdary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	red; check all that apply)		Surface Soil Crac	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns			
Saturation (A3)	Hydrogen Sulfide Odor (0		Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres o			y-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)		Geomorphic Posit	,		
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remark		Shallow Aquitard (FAC-Neutral Test			
Water-Stained Leaves (B9)	,	_	Sphagnum Moss			
Field Observations:				(20) (2.111.17.0)	_	
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hy	drology Present?	Yes No_ X	(
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avai	lable:			
5 .						
Remarks:						

vegeration (Five Strata) – Use scientif	ic names	oi piants.		Sampling Point:5-C	
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	
3. 4.				Total Number of Dominant Species Across All Strata: 6 (B)	
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B))
		=Total Cover		Prevalence Index worksheet:	_
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0	
Li uidambar st raciflua	25	Yes	FAC	FACW species 10 x 2 = 20	
2. Cercis canadensis	10	Yes	UPL	FAC species 70 x 3 = 210	
3.				FACU species 70 x 4 = 280	
4.				UPL species 40 x 5 = 200	
5.				Column Totals: 190 (A) 710 (B))
6.				Prevalence Index = B/A = 3.74	
	35	=Total Cover		Hydrophytic Vegetation Indicators:	_
50% of total cover: 18	3 20%	of total cover:	7	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%	
1. hus copallinum	15	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetation ¹ (Explain)	
3.					
4.					
5				1	
6.				¹ Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic.	е
·	15	=Total Cover		Definitions of Five Vegetation Strata:	_
50% of total cover: 8		of total cover:	3		
		or total cover.		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.	
	55	Yes	FACU	(7.6 cm) or larger in diameter at breast height (DBH).	
	25	Yes	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less	
3. I mus h strix	15	No No	UPL	than 3 in. (7.6 cm) DBH.	
4. Lespede a cuneata	15	No No	FACU		
5. <u>ubus argutus</u>	10	No No	FAC	Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
6. <u>Dichanthelium scoparium</u>	10	No	FACW	approximately a to 20 it (1 to 0 iii) iii noight.	
7.				Herb – All herbaceous (non-woody) plants, including	
8.				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3	
9.				ft (1 m) in height.	
10				Woody Vine – All woody vines, regardless of height.	
11				Woody virie – All woody viries, regardless of fielght.	
		=Total Cover			_
50% of total cover: 65	5 20%	of total cover:	26		
Woody Vine Stratum (Plot size: 30)					
1. itis rotundifolia	10	Yes	FAC		
2					
3					
4					
5				Hydrophytic	
	10	=Total Cover		Vegetation	
50% of total cover: 5	20%	of total cover:	2	Present? Yes No X	
Remarks: (If observed, list morphological adaptation	s below.)				_

SOIL Sampling Point: 5-C

		to the depth				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix	%	Color (moist)	x Featur %	res Type ¹	Loc ²	Texture	Dom	arks		
(inches)	Color (moist)	70	Color (IIIoist)	70	туре	LUC	Texture	Keii	idiks		
0-20	2.5Y 5/6	100					Loamy/Clayey				
								-			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=R	educed Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=l	Matrix.		
	ndicators: (Applica							for Problematic Hy			
Histosol			Thin Dark Su			S, T, U)	1 cm N	Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)	-	Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)			
Black His	stic (A3)	-	(MLRA 15	3B, 153	BD)		Coast	Prairie Redox (A16)			
Hydroger	n Sulfide (A4)	_	Loamy Muck	y Miner	al (F1) (L	RR O)	(out	side MLRA 150A)			
Stratified	Layers (A5)	_	Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)			
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(out:	side MLRA 150A, 15	0B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils ((F19) (LRR P, T)		
	esence (A8) (LRR U)	_	Depleted Da	rk Surfa	ice (F7)			alous Bright Floodpla	in Soils (F20)		
	ck (A9) (LRR P, T)	-	Redox Depre		(F8)		•	RA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L					arent Material (F21)			
	rk Surface (A12)		Depleted Oc					Shallow Dark Surface			
		dox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL, 154)									
	ucky Mineral (S1) (L	KK U, S)	Umbric Surfa					r Islands Low Chroma	a Matrix (157)		
	leyed Matrix (S4) edox (S5)	-	Delta Ochric Reduced Ve				•	RA 153B, 153D) (Explain in Remarks)			
	Matrix (S6)	-	Piedmont Flo					(Explain in Remarks)			
	face (S7) (LRR P, S,	T II) -	Anomalous E								
	e Below Surface (S8)	-	(MLRA 14					ators of hydrophytic v	egetation and		
	S, T, U)	,	Very Shallow				wetland hydrology must be present,				
•	, , , ,	•	(MLRA 13				unless disturbed or problematic.				
Restrictive L	ayer (if observed):		-			-					
Type:	,										
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No X		
Remarks:											

Attachment 2.D.1 Page 51 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 06/30/20			
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point: 6-A			
Investigator(s): S. Kupiec	Sect	tion, Township, Range:					
Landform (hillside, terrace, etc.): Drainagev	_	elief (concave, convex, no	one): Concave	Slope (%): 2-4			
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77	•	Datum:			
		Long. 11					
Soil Map Unit Name: Fluvanna-Mattaponi co	•		NWI classifica				
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)			
Are Vegetation, Soil, or Hydro			cumstances" present				
Are Vegetation, Soil, or Hydro	logynaturally problema	tic? (If needed, expla	ain any answers in Re	emarks.)			
SUMMARY OF FINDINGS - Attach	ı site map showing sam	npling point location	ns, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No	Is the Sampled Area within a Wetland?	Yes	No_X			
Wetland Hydrology Present?	Yes No X						
Remarks: Upland near Structure 254/8.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	·			
Surface Water (A1)	Aquatic Fauna (B13)	_	Sparsely Vegetate	ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Patterns	s (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (0	C1)	Moss Trim Lines	m Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres o	on Living Roots (C3)	Dry-Season Wate	er Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iro	_	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in	_		on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	X Geomorphic Posi	` '			
Iron Deposits (B5)	Other (Explain in Remark	KS)	Shallow Aquitard				
Inundation Visible on Aerial Imagery (B' Water-Stained Leaves (B9)	()	_	FAC-Neutral Test Sphagnum Moss				
			Spriagrium woss	(D0) (LKK 1, 0)			
Field Observations: Surface Water Present? Yes	No. Y Donth (inches):						
Surface Water Present? Yes Water Table Present? Yes	No X Depth (inches): No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		ydrology Present?	Yes No _ X			
(includes capillary fringe)	Tro X Bopan (monoo).		yarology r rosent.	10310			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if ava	nilable:				
Remarks:							
Nomano.							

VEGETATION (Five Strata) – Use scient	ific names	of plants.		Sampling Po	oint: 6-A	
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1				Number of Dominant Species That Are OBL, FACW, or FAC:	1	_(A)
3. 4.				Total Number of Dominant Species Across All Strata:	4	_(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	25.0%	_ (A/B)
		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: 30)					1 =0	
1					2 =0	
2				FAC species 30 x	3 = 90	
3.				FACU species 55 x	4 = 220	
4				UPL species 0 x	5 = 0	
5				Column Totals: 85 (A)	310	(B)
6				Prevalence Index = B/A =	3.65	
		=Total Cover		Hydrophytic Vegetation Indicat	ors:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophyti	c Vegetation	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%		
1.				3 - Prevalence Index is ≤3.0 ¹		
2.				Problematic Hydrophytic Vec	uetation¹ (Expla	ain)
3				<u> </u>	,	,
5				1		
6.				¹ Indicators of hydric soil and wetl present, unless disturbed or prob		must be
·		=Total Cover		Definitions of Five Vegetation S		
50% of total cover		of total cover:				
50% of total cover:	20%	or total cover.		Tree – Woody plants, excluding vapproximately 20 ft (6 m) or more		3 in
Herb Stratum (Plot size: 30)	00	V	540	(7.6 cm) or larger in diameter at b		
1. Dichanthelium dichotomum	30	Yes	FAC			
2. Solidago altissima	30	Yes	FACU	Sapling – Woody plants, excludi		
3. estuca spp	25	Yes		approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.	in neight and	iess
4. <u>uthamia spp</u>	25	Yes				
5. <u>udbec ia hirta</u>	15	No	FACU	Shrub - Woody Plants, excluding		
6. <u>chillea millefolium</u>	10	No	FACU	approximately 3 to 20 ft (1 to 6 m) in neight.	
7				Herb – All herbaceous (non-wood		
8.				herbaceous vines, regardless of		
9				plants, except woody vines, less ft (1 m) in height.	tnan approxima	ately 3
10				, ,		
11				Woody Vine – All woody vines, r	egardless of he	eight.
	135 :	=Total Cover				
50% of total cover:	68 20%	of total cover:	27			
Woody Vine Stratum (Plot size:)						
1						
2.						
3.						
4.						
5.						
		=Total Cover		Hydrophytic		
50% of total cover:		of total cover:		Vegetation Present? Yes	No X	
		or total ouvel.		11030111. 103	<u> </u>	
Remarks: (If observed, list morphological adaptation	nis below.)					

SOIL Sampling Point: 6-A

		to the dep				ator or co	onfirm the absence of	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type ¹	Loc ²	Texture	Remarks			
0-4	10YR 4/3	100	Color (molot)		1900		Loamy/Clayey	romano			
4-6	10YR 4/2	90	10YR 4/6	10	С	M	Loamy/Clayey	Prominent redox concentrations			
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked San	d Grains.	² Location: I	PL=Pore Lining, M=Matrix.			
	ndicators: (Applica	ble to all I	RRs, unless othe	rwise r	noted.)		Indicators	for Problematic Hydric Soils ³ :			
Histosol	` '		Thin Dark Su					uck (A9) (LRR O)			
	ipedon (A2)		Barrier Island		•	12)		uck (A10) (LRR S)			
Black His	` '		(MLRA 15					Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck			.RR O)	•	ide MLRA 150A)			
	Layers (A5)		Loamy Gleye					d Vertic (F18)			
	Bodies (A6) (LRR P,		X Depleted Ma				•	ide MLRA 150A, 150B)			
	cky Mineral (A7) (LR	-	Redox Dark					nt Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)	Depleted Da					ous Bright Floodplain Soils (F20)				
	ck (A9) (LRR P, T)	Redox Depre		(F8)		•	A 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L		4) (MI D	۸ ۱Ε1۱		rent Material (F21)			
	rk Surface (A12) airie Redox (A16) (M	II DA 150 <i>0</i>	Depleted Oc Iron-Mangan				<u> </u>	nallow Dark Surface (F22) ide MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (L		Umbric Surfa		•			Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	KK 0, 3)	Delta Ochric					A 153B, 153D)			
	edox (S5)		Reduced Ve					Explain in Remarks)			
	Matrix (S6)		Piedmont Flo					- Aprairi III I terriarite)			
	face (S7) (LRR P, S,	, T, U)	Anomalous E								
	e Below Surface (S8)		(MLRA 14	-		,	³ Indicators of hydrophytic vegetation and				
	S, T, U)	,	Very Shallow				wetland hydrology must be present,				
			(MLRA 13					ss disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type:	Compaction										
Depth (ir	iches):	6					Hydric Soil Prese	nt? Yes X No			
Remarks:											

Attachment 2.D.1 Page 54 of 230

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 06/3	30/2020	
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point:	6-B	
Investigator(s): S. Kupiec		Section, Township, Range:				
Landform (hillside, terrace, etc.): Slope	Lo	cal relief (concave, convex, none)): Convex	Slope (%):	4-6	
Subregion (LRR or MLRA): LRR P, MLRA 1	_	Long: -77.59		Datum:		
Soil Map Unit Name: Fluvanna-Mattaponi co			NWI classifica			
· · · · · · · · · · · · · · · · · · ·	·	0 V V N				
Are climatic / hydrologic conditions on the sit	,,			explain in Remarks.)		
Are Vegetation, Soil, or Hydro	·					
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, explain a	any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locations,	transects, im	portant features	, etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X			<u>——</u>		
Remarks:						
Upland above Flag G-3.						
HYDROLOGY						
Wetland Hydrology Indicators:			-	(minimum of two requ	<u>iired)</u>	
Primary Indicators (minimum of one is requi			Surface Soil Crac			
Surface Water (A1)	True Aquatic Plants			ed Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns			
Saturation (A3)			Moss Trim Lines			
Water Marks (B1)	Presence of Reduce	` ′ —	Dry-Season Water			
Sediment Deposits (B2)			Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (· —		on Aerial Imagery (C	9)	
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress			
Iron Deposits (B5)	- /		Geomorphic Posi			
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard			
Water-Stained Leaves (B9)			Microtopographic			
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)		
Field Observations:		,				
Surface Water Present? Yes	No X Depth (inch					
Water Table Present? Yes	No X Depth (inch		. 5	.,		
Saturation Present? Yes	No X Depth (inch	es): Wetland Hydro	ology Present?	Yes No	<u>X</u>	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring well porial photo	provious inspections) if availab	lo:			
Describe Recorded Data (stream gauge, mo	mitoring well, aerial priotos	s, previous irispections), ii avallab	ile.			
Remarks:						

VEGETATION (Five Strata) - Use scien	tific names	of plants.			Sampling F	Point: _	6-B	
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	t worksheet:			
1. 2.				Number of Domii That Are OBL, F			0	(A)
3. 4.				Total Number of Species Across A			4	_(B)
5.6.				Percent of Domir That Are OBL, F	•		0.0%	_(A/B)
	:	=Total Cover		Prevalence Inde	x worksheet:			
50% of total cover:	20%	of total cover:		Total % Co	ver of:	Mu	Itiply by:	
Sapling Stratum (Plot size: 30)				OBL species	0	x 1 = _	0	
1				FACW species	0	x 2 = _	0	
2				FAC species	20	x 3 = _	60	
3.				FACU species	50	x 4 = _	200	
4.				UPL species	40	x 5 = _	200	
5.				Column Totals:	110	(A)	460	(B)
6.				Prevalenc	e Index = B/A	=	4.18	
		=Total Cover		Hydrophytic Veg	getation Indic	ators:		
50% of total cover:	20%	of total cover:		1 - Rapid Te	st for Hydrophy	ytic Veg	etation	
Shrub Stratum (Plot size: 30)				2 - Dominano	ce Test is >50°	%		
1.				3 - Prevalenc	ce Index is ≤3.	0 ¹		
2.					gical Adaptation			
4.					Hydrophytic V		. ,	
5.				¹ Indicators of hyd	dric soil and we	etland h	vdrology	must be
6.				present, unless d				
		=Total Cover		Definitions of Fi	ive Vegetation	n Strata	:	
50% of total cover:	20%	of total cover:		Tree – Woody pl	ants. excluding	woodv	vines.	
Herb Stratum (Plot size: 30)	<u> </u>			approximately 20) ft (6 m) or mo	re in he	ight and	
1. teridium a uilinum	35	Yes	FACU	(7.6 cm) or large	r in diameter a	t breast	height ([DBH).
2. estuca spp	35	Yes		Sapling – Wood	v plants, exclu	dina wo	odv vine:	S.
3. Silphium compositum	25	Yes	UPL	approximately 20				
4. upatorium rotundifolium	20	No	FAC	than 3 in. (7.6 cm	n) DBH.			
5. arthenium integrifolium	15	No	UPL	Shrub - Woody F	Plants, excludi	ng wood	dy vines,	
6. chillea millefolium	10	No	FACU	approximately 3 t				
7				Herb – All herba	ceous (non-wo	ody) pla	ants, incl	uding
8.				herbaceous vines	_	_		-
9.				plants, except wo 3 ft (1 m) in heigh		s than a	approxim	ately
10				, ,				
11				Woody Vine – A	II woody vines	, regard	less of h	eight.
	140 :	=Total Cover						
50% of total cover:	70 20%	of total cover:	28					
Woody Vine Stratum (Plot size: 30)								
1. arthenocissus uin uefolia	5	Yes	FACU					
2.								
3.								
4.				1				
5.				1				
	5 :	=Total Cover		Hydrophytic				
50% of total cover:		of total cover:	1	Vegetation Present?	Yes	No	Χ	
Remarks: (Include photo numbers here or on a se				1				
	parato orioot.)							

SOIL Sampling Point: 6-B

Profile Desc Depth	ription: (Describe Matrix	to the dep		ıment tl k Featur		ator or co	onfirm the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/3	100	(2 2)		71 -		Loamy/Clayey	
4-20	10YR 5/3	85	10YR 5/6	15	С	М	Loamy/Clayey	Distinct redox concentrations
					_	_		
					_			
¹Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	2Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I Histosol Histic Ep Black His Hydrogel Stratified 2 cm Mu Depleted Thick Da Sandy M Sandy G Sandy R Stripped	ndicators: (A1) ipedon (A2)		Polyvalue Be Thin Dark St. Loamy Muck Loamy Gleye Depleted Ma Redox Dark St. Depleted Dal Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Flo	elow Sui irface (\$ y Minera ed Matrix trix (F3) Surface rk Surfa essions esse Mas esse Mas occe (F13	face (S8) 69) (MLR al (F1) (M x (F2) (F6) ce (F7) (F8) sses (F12 8) (MLRA) (MLRA A 147, 1. ILRA 136 2) (LRR I . 122, 136	India 147, 148) 48) 5) N, 5) 3India	cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
	ayer (if observed):		RCGT GIGHT	viatoriai	(1 2 1) (111	LIVA 121	, 147, 140)	unices disturbed of problematic.
Type: Depth (in							Hydric Soil Prese	ent? Yes No X
Remarks:								

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U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensv	ille	Sampling Date: 07/01/2020
Applicant/Owner: Dominion Energy Virgi	inia	<u> </u>	State: VA	Sampling Point: 7-A
Investigator(s): S. Kupiec		Section, Township, Range	e:	
Landform (hillside, terrace, etc.): Drainagev		cal relief (concave, convex		Slope (%): 2-3
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long:	-77.594127	Datum:
Soil Map Unit Name: Slagle fine sandy loam	1		NWI classificat	tion: N/A
Are climatic / hydrologic conditions on the site	e typical for this time of yea	r? Yes X	No (If no, e	explain in Remarks.)
Are Vegetation, Soil, or Hydro	ology significantly dis	sturbed? Are "Normal	Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydro	ologynaturally proble	ematic? (If needed, e.	xplain any answers in Re	marks.)
SUMMARY OF FINDINGS – Attach	site map showing s	ampling point locat	ions, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes_X_	No
Remarks: Wetland at Flag H-8.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetate	ed Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odd	or (C1)	Drainage Patterns	s (B10)
Saturation (A3)	X Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Lines ((B16)
Water Marks (B1)	Presence of Reduced	d Iron (C4)	Dry-Season Wate	r Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Thin Muck Surface (C	27)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)	Stunted or Stresse	ed Plants (D1)
Iron Deposits (B5)			X Geomorphic Posit	ion (D2)
Inundation Visible on Aerial Imagery (B7	7)		Shallow Aquitard	(D3)
Water-Stained Leaves (B9)			Microtopographic	Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral Test	(D5)
Field Observations:				
Surface Water Present? Yes	No X Depth (inche			
Water Table Present? Yes				
Saturation Present? Yes	No X Depth (inche	es): Wetland	l Hydrology Present?	Yes X No
(includes capillary fringe)	- de de como de la			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos,	, previous inspections), if a	avallable:	
Remarks:				

VEGETATION (FIVE Strata) – Use scien	tific names	or plants.		Sampling Poin	it:
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	2 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1	= 0
1				FACW species 75 x 2	= 150
2.				FAC species 20 x 3	= 60
3.				FACU species 30 x 4	= 120
4				UPL species 0 x 5	= 0
5				Column Totals: 125 (A)	330 (B)
6.				Prevalence Index = B/A =	2.64
		=Total Cover		Hydrophytic Vegetation Indicator	rs:
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic	Vegetation
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%	
1				X 3 - Prevalence Index is ≤3.0 ¹	
2				4 - Morphological Adaptations ¹	Provide supporting
3.				data in Remarks or on a sep	parate sheet)
4.				Problematic Hydrophytic Vege	tation ¹ (Explain)
5.				¹ Indicators of hydric soil and wetlar	nd hvdrologv must be
6.				present, unless disturbed or proble	
		=Total Cover		Definitions of Five Vegetation St	rata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wo	oody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in	-
Dichanthelium scoparium	75	Yes	FACW	(7.6 cm) or larger in diameter at bre	east height (DBH).
2. Juncus tenuis	20	No	FAC	Sapling – Woody plants, excluding	g woody vines,
3. runella ulgaris	15	No	FACU	approximately 20 ft (6 m) or more i	n height and less
4. ubus argutus	5	No	FACU	than 3 in. (7.6 cm) DBH.	
5. 6.				Shrub - Woody Plants, excluding vapproximately 3 to 20 ft (1 to 6 m) is	
7.					.
8.				Herb – All herbaceous (non-woody herbaceous vines, regardless of size	
9				plants, except woody vines, less th	
10.				3 ft (1 m) in height.	
11.				Woody Vine - All woody vines, reg	gardless of height.
···	115	=Total Cover			
50% of total cover:		of total cover:	23		
Woody Vine Stratum (Plot size: 30)					
1. arthenocissus uin uefolia	10	Yes	FACU		
2.					
3.					
4					
5.					
·	10	=Total Cover		Hydrophytic	
50% of total cover:		of total cover:	2	Vegetation Present? Yes X	No
		S. IOIGI GOVGI.		163 X	<u> </u>
Remarks: (Include photo numbers here or on a se	parate sneet.)				

SOIL Sampling Point: 7-A

	•	to the dep				ator or c	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
0-6	5YR 5/2	80	5YR 5/8	15	С	M	Loamy/Clayey	Prominent redox concentrations
			5YR 4/6	5	С	PL		Prominent redox concentrations
6-20	2.5Y 6/1	80	5YR 5/8	20	С	М	Loamy/Clayey	Prominent redox concentrations
				_				
				_				
	oncentration, D=Depl	letion, RM	=Reduced Matrix, M	 IS=Mas	ked Sand	d Grains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils ³ :
Histosol			Polyvalue Be				· —	2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Thin Dark Su					Coast Prairie Redox (A16)
Black Hi	, ,		Loamy Muck			ILRA 13		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) (LRR N)		X Depleted Ma					(MLRA 136, 147) Red Parent Material (F21)
		. (111)	Redox Dark					` '
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Da Redox Depre				,	(outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22)
	lucky Mineral (S1)		Iron-Mangan			o) (I DD I		Other (Explain in Remarks)
	sleyed Matrix (S4)		MLRA 136		5565 (1.12	2) (LKK I		Other (Explain in Nemarks)
	edox (S5)		Umbric Surfa	,	R) (MI PA	122 13	5) ³ Indi	cators of hydrophytic vegetation and
	Matrix (S6)		Piedmont Flo					wetland hydrology must be present,
	rface (S7)		Red Parent I					unless disturbed or problematic.
	_ayer (if observed):		ROUT GIOTE	viatoriai	(1 2 1) (111	LIGITIZA	, 147, 140)	aniess distarbed of problematic.
Type:	Layer (II observed).							
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:							1 2	<u> </u>
Nemains.								
ı								
ı								
ı								
ı								

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U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/1/202	20
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 7-B	3
Investigator(s): S. Kupiec		Section, Township, Range:			
Landform (hillside, terrace, etc.): Slope	Lo	cal relief (concave, convex, none)	: Convex	Slope (%): 2-4	4
Subregion (LRR or MLRA): LRR P, MLRA 1	_	Long: -77.59		Datum:	
		Long			
Soil Map Unit Name: Slagle fine sandy loam			_ NWI classifica		
Are climatic / hydrologic conditions on the site	,,			explain in Remarks.)	
Are Vegetation, Soil, or Hydro			stances" present?	? Yes X No	
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, explain a	any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locations,	transects, im	portant features, et	tc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X				
Remarks:					
Upland above Flag H-6.					
HYDROLOGY					
Wetland Hydrology Indicators:		Sec	ondary Indicators	(minimum of two required	<u>d)</u>
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surface (B8))
High Water Table (A2)	Hydrogen Sulfide Oc	dor (C1)	Drainage Patterns	s (B10)	
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)	Moss Trim Lines	(B16)	
Water Marks (B1)	Presence of Reduce	ed Iron (C4)	Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)			Crayfish Burrows		
Drift Deposits (B3)	Thin Muck Surface (· —		on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stress		
Iron Deposits (B5)	- /		Geomorphic Posi		
Inundation Visible on Aerial Imagery (B)	()		Shallow Aquitard		
Water-Stained Leaves (B9) Aquatic Fauna (B13)			Microtopographic FAC-Neutral Test		
		_	FAC-Neutral Test	(D3)	
Field Observations:	No. V. Double Cook				
Surface Water Present? Yes	No X Depth (inch				
Water Table Present? Yes Saturation Present? Yes	No X Depth (inch		ology Present?	Yes No 2	V
(includes capillary fringe)	No X Deptil (ilicii	es) welland riyurd	nogy Fresent:	165 NO/	^_
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos	s, previous inspections), if availab	le:		
	, , , , , , , , , , , , , , , , , , ,	-, p , ,			
Remarks:					

VEGETATION (Five Strata) – Use scier	ntific names	of plants.		Sampling Point: _	7-B
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	6 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 5	60.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	```
50% of total cover:	20%	of total cover:		Total % Cover of: Mul	tiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	0
4				FACW species 70 x 2 =	140
				FAC species 15 x 3 =	45
				FACU species 55 x 4 =	220
4				UPL species 0 x 5 =	0
				Column Totals: 140 (A)	405 (B
6				Prevalence Index = B/A =	2.89
o		=Total Cover		Hydrophytic Vegetation Indicators:	2.00
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic Veg	etation
Shrub Stratum (Plot size: 30)		or total cover.		2 - Dominance Test is >50%	etation
1				3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Pro	ovido ovopomio
2				data in Remarks or on a separat	
3.		-		· ·	
4				Problematic Hydrophytic Vegetatio	n (Explain)
5 6.				¹ Indicators of hydric soil and wetland hy present, unless disturbed or problemati	
		=Total Cover		Definitions of Five Vegetation Strata	:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody	vines.
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in he	
Dichanthelium scoparium	45	Yes	FACW	(7.6 cm) or larger in diameter at breast	height (DBH).
2. cnanthemum tenuifolium	25	Yes	FACW	Sapling – Woody plants, excluding wo	odv vines.
3. udbec ia hirta	25	Yes	FACU	approximately 20 ft (6 m) or more in he	
4. estuca spp	25	Yes		than 3 in. (7.6 cm) DBH.	
5. ubus argutus	15	No	FACU	Shrub - Woody Plants, excluding wood	dy vines,
6. chillea millefolium	10	No	FACU	approximately 3 to 20 ft (1 to 6 m) in he	•
7. upatorium rotundifolium	5	No	FAC	Horb All borboscous (non woody) pla	nto including
8.				Herb – All herbaceous (non-woody) pla herbaceous vines, regardless of size, a	
9.				plants, except woody vines, less than a	
10.				3 ft (1 m) in height.	
11.				Woody Vine - All woody vines, regard	less of height.
	150	=Total Cover			
50% of total cover:		of total cover:	30		
	75 2070	or total cover.			
Woody Vine Stratum (Plot size: 30)	10	Voo	EAC		
Campsis radicans Smiley have never.		Yes	FAC		
2. Smilax bona nox	5	Yes	FACU		
3.					
4	_				
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	8 20%	of total cover:	3	Present? Yes No	Χ

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

SOIL Sampling Point: 7-B

Depth	: (Describe that Matrix	to the dep		ıment tl x Featur		ator or c	onfirm the absence o	of indicators.)
	lor (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 1	0YR 4/3	95	10YR 4/6	5	С	М	Loamy/Clayey	Distinct redox concentrations
4-20 1	0YR 4/4	95	10YR 4/6	5		M	Loamy/Clayey	Distinct redox concentrations
		·				<u></u>		
¹ Type: C=Concentra	ation, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil Indicate Histosol (A1) Histic Epipedon Black Histic (A3 Hydrogen Sulfid Stratified Layers 2 cm Muck (A10 Depleted Below Thick Dark Surfa Sandy Mucky M Sandy Gleyed M Sandy Redox (S Stripped Matrix Dark Surface (S	(A2)) le (A4) s (A5))) (LRR N) Dark Surface ace (A12) lineral (S1) Matrix (S4) (S5) (S6)	e (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark S Depleted Dan Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Flo	rface (\$ y Miner. ed Matri: trix (F3) Surface ek Surfa essions esse Mat) uce (F13)	S9) (MLR al (F1) (M x (F2) (F6) (F6) (F8) (F8) (MLRA) (MLRA) (Soils (F12))	A 147, 1 ILRA 13 (LRR I 122, 13 19) (MLF	147, 148) 2 48) 6 5) F V N, 6 RA 148) v	ators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) cators of hydrophytic vegetation and vetland hydrology must be present, inless disturbed or problematic.
Restrictive Layer (i			Red r drene is	natoriai	(1 2 1) (111	LIV/ 12/	, 147, 140)	micos distarsed of prosicinatio.
Type: Depth (inches):	. 0200. 100/.						Hydric Soil Prese	nt? Yes No X
Remarks:								

Attachment 2.D.1 Page 63 of 230

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lak	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/1/2020
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 7-C
Investigator(s): S. Kupiec		Section, Township, Range:		
Landform (hillside, terrace, etc.): Flat	lc	cal relief (concave, convex, no	one): None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77	· ·	Datum:
		Long71		
Soil Map Unit Name: Woodington fine sand	•		NWI classifica	
Are climatic / hydrologic conditions on the sit				explain in Remarks.)
Are Vegetation, Soil, or Hydro			cumstances" present	? Yes X No
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, expla	ain any answers in Re	emarks.)
SUMMARY OF FINDINGS – Attach	ı site map showing s	sampling point location	ns, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area		
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No
Wetland Hydrology Present?	Yes X No			
Remarks:				
Wetland at Flag I-2.				
LIVEROLOGY				
HYDROLOGY				
Wetland Hydrology Indicators:		<u> </u>	•	(minimum of two required)
Primary Indicators (minimum of one is requ		(D. 4)	Surface Soil Crac	
Surface Water (A1)	True Aquatic Plants			ed Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od	_	Drainage Patterns	
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines	
Water Marks (B1)	Presence of Reduce	-	Dry-Season Wate	
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows	
Drift Deposits (B3)	Thin Muck Surface (_		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	X Geomorphic Posi	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B	7)	-	Shallow Aquitard	` '
Water-Stained Leaves (B9)	1)	-	Microtopographic	
Aquatic Fauna (B13)		-	X FAC-Neutral Test	
		<u> </u>	A I AC-Neutral Test	, (D3)
Field Observations: Surface Water Present? Yes	No. V Donth (inch	00/:		
Surface Water Present? Yes Water Table Present? Yes	No X Depth (inch	· · · · · · · · · · · · · · · · · · ·		
Saturation Present? Yes	No X Depth (inch		ydrology Present?	Yes X No
(includes capillary fringe)	No X Deptil (illeli	es) Wettand H	yarology r resent:	163 <u>X</u> NO
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photo:	s, previous inspections), if ava	nilable:	
		-, p		
Remarks:				

					age 64 of 230	
/EGETATION (Five Strata) – Use scientif			La d'a atan	Sampling Po	oint: 7-C	
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1				Number of Dominant Species		
2				That Are OBL, FACW, or FAC:	2	_ (A)
3				Total Number of Dominant		
4				Species Across All Strata:	2	_ (B)
5				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC:	100.0%	_(A/B)
		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: 30)					1 = 5	
1.				· —	22 = 210	
2.					3 = 0	
3.				· —	4 = 40	
4					(5 = 0	
5.					A) <u>255</u>	(B)
6				Prevalence Index = B/A =		
		=Total Cover		Hydrophytic Vegetation Indica		
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophyt	_	
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%		
1.				X 3 - Prevalence Index is ≤3.0		
2.				4 - Morphological Adaptation data in Remarks or on a s		
3.						
4				Problematic Hydrophytic Ve	getation (Expla	ain)
5 6.				¹ Indicators of hydric soil and wet		must be
		=Total Cover		Definitions of Five Vegetation	Strata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding	woody vines,	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more		
1. Dichanthelium scoparium	60	Yes	FACW	(7.6 cm) or larger in diameter at	breast height ([DBH).
2. cnanthemum tenuifolium	25	Yes	FACW	Sapling – Woody plants, excludi	ing woody vine	S,
3. Juncus effusus	20	No	FACW	approximately 20 ft (6 m) or more		
4. udbec ia hirta	10	No	FACU	than 3 in. (7.6 cm) DBH.		
5. hexia mariana	5	No	OBL	Shrub - Woody Plants, excluding	g woody vines,	
6.				approximately 3 to 20 ft (1 to 6 m	າ) in height.	
7.				Herb – All herbaceous (non-woo	ndv) plants inclu	ıdina
8.				herbaceous vines, regardless of	size, and wood	ly
9.				plants, except woody vines, less	than approxima	ately
10.				3 ft (1 m) in height.		
11.				Woody Vine – All woody vines,	regardless of he	eight.
	120	=Total Cover				
50% of total cover: 6	0 20%	of total cover:	24			
Woody Vine Stratum (Plot size: 30)						
1.						
2.						
3.						
4.						
5.				Lludrophytic		
		=Total Cover		Hydrophytic Vegetation		
50% of total cover:	20%	of total cover:		Present? Yes X	No	

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

SOIL Sampling Point: 7-C

	=	to the dep		ument th x Featur		ator or co	onfirm the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
0-6	10YR 4/2	70	10YR 5/8	25	C	 M	Loamy/Clayey	Prominent redox concentrations
			10YR 4/6	5	С	М		Prominent redox concentrations
6-20	2.5Y 5/1	85	10YR 5/8	15	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
¹ Type: C=Co	ncentration, D=Depl	etion, RM:	=Reduced Matrix, M	/IS=Masl	ked Sand	d Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Black His Hydroger Stratified 2 cm Mu Depleted Thick Da Sandy M Sandy Gl Sandy Re	(A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6)	e (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye X Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Flo	urface (S xy Minera ed Matrix ttrix (F3) Surface rk Surface erk Surface essions (esse Mas 5) acce (F13 podplain	s9) (MLR al (F1) (N c (F2) (F6) ce (F7) (F8) sses (F12 c) (MLRA Soils (F*	A 147, 1. ILRA 136 2) (LRR I 122, 136 19) (MLR	147, 148)2 48)6 b)F	cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:								

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/1	/2020
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point:	7-D
Investigator(s): S. Kupiec		Section, Township, Range:	<u> </u>		
Landform (hillside, terrace, etc.): Slope	Lo	cal relief (concave, convex, none): Convex	Slope (%):	2-4
Subregion (LRR or MLRA): LRR P, MLRA 1	_	Long: -77.59		Datum:	
	Lat. 00:00+000	Long			
Soil Map Unit Name: Uchee loamy sand			NWI classifica		
Are climatic / hydrologic conditions on the site	,,			explain in Remarks.)	
Are Vegetation, Soil, or Hydro					² ——
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, explain	any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locations,	transects, im	portant features	s, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No_X_	
Wetland Hydrology Present?	Yes No X				
Remarks:					
Upland at Flag I-2.					
HYDROLOGY					
Wetland Hydrology Indicators:		Sec	ondary Indicators	(minimum of two requ	uired)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetate	ed Concave Surface ((B8)
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patterns	s (B10)	
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines		
— Water Marks (B1)	Presence of Reduce	` ′	Dry-Season Water		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		201
Drift Deposits (B3)	Thin Muck Surface (· ·		on Aerial Imagery (C	.9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B)	7\		Geomorphic Posi Shallow Aquitard		
Water-Stained Leaves (B9)	!)		Microtopographic		
Aquatic Fauna (B13)			FAC-Neutral Test		
Field Observations:					
Surface Water Present? Yes	No X Depth (inch	es).			
Water Table Present? Yes	No X Depth (inch				
Saturation Present? Yes	No X Depth (inch		ology Present?	Yes No	οХ
(includes capillary fringe)		·			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if availab	ole:		
Remarks:					

3.	
1. Number of Dominant Species 2. That Are OBL, FACW, or FAC: 3. Total Number of Dominant Species Across All Strata: 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 25 That Are OBL, FACW, or FAC: 50% of total cover: 20% of total cover: 50% of total cover: Total % Cover of: Multing Multing Multing Multing Multing Cover of: 50% of total cover: Multing Cover of: Multing Cover of: Multing Cover of: 50% of total cover: FAC species 0 x2 = FAC species 0 x2 = FAC species 5 x3 = FACU species 55 x4 = UPL species 25 x5 = Column Totals: Secolumn Totals: 85 (A) 6. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1. 2 - Dominanct Species 25 x5 = Column Totals: 3 - Prevalence Index is \$\leq 3.0^1 1. 3 - Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1. 3 - Prevalence Index = Test is > Solotal cover: 2 - Dominanct Species 25 x3 = Column Totals: 3 - Prevalence Index is \$\leq 3.0^1 3 - Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 -	
Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: 25	
3.	4 (4)
4. Species Across All Strata: 5. Percent of Dominant Species 1	1 (A)
5. Percent of Dominant Species That Are OBL, FACW, or FAC: 25	
6.	4 (B)
=Total Cover Prevalence Index worksheet: Total % Cover of: Multiple	
Sapling Stratum (Plot size: 30) 20% of total cover: Total % Cover of: Multiple Cover of	.0% (A/B)
Sapling Stratum (Plot size: 30) X 1 = 1 1. FACW species 0 x 2 = 1 2. FAC species 5 x 3 = 1 3. FACU species 55 x 4 = 1 4. UPL species 25 x 5 = 1 5. Column Totals: 85 (A) 6. Prevalence Index = B/A = 1 =Total Cover 50% of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Veget Shrub Stratum (Plot size: 30) 2 - Dominance Test is >50% (A) 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Providata in Remarks or on a separate	
1.	ply by:
2.	0
2.	0
3. FACU species 55 x 4 = 4. UPL species 25 x 5 = 5. Column Totals: 85 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Veget Shrub Stratum (Plot size: 30 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provalence Index is separate 2 - Morphological Adaptations¹ (Provalence Index is separate 3 - Prevalence Index is separate	15
4. UPL species $25 \times 5 = 100$ 5. Column Totals: 85×6 6. Prevalence Index = B/A = 100 =Total Cover	220
5. Column Totals: 85 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 50% of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Veget 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provalence Index is ≤3.0¹	125
6. Prevalence Index = B/A = =Total Cover Hydrophytic Vegetation Indicators: 50% of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Veget Shrub Stratum (Plot size: 30) 2 - Dominance Test is >50% 1. 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provalence Index is separate in Remarks or on a separate	360 (B)
=Total Cover 50% of total cover: 20% of total cover: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provalence Index in Remarks or on a separate	4.24
50% of total cover: Shrub Stratum (Plot size: 30) 1.	7.27
Shrub Stratum (Plot size: 30) 1. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provalence Index in Remarks or on a separate	tation
1. 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations¹ (Provalence Index in Remarks or on a separate	lation
2. 4 - Morphological Adaptations ¹ (Providata in Remarks or on a separate	
data in Remarks or on a separate	dalar a como a sultar
uala ili Nelliaiks vi vii a separale	
· ————————————————————————————————————	
4 Problematic Hydrophytic Vegetation	' (Explain)
5 Indicators of hydric soil and wetland hydric	
6 present, unless disturbed or problematic.	
=Total Cover Definitions of Five Vegetation Strata:	
50% of total cover: 20% of total cover: Tree – Woody plants, excluding woody v	
Herb Stratum (Plot size: 30) approximately 20 ft (6 m) or more in heig	
1. estuca spp 45 Yes (7.6 cm) or larger in diameter at breast h	eight (DBH).
2. Centaurea stoebe 25 Yes UPL Sapling – Woody plants, excluding wood	dy vines,
3. Lespede a cuneata 25 Yes FACU approximately 20 ft (6 m) or more in height	
4. udbec ia hirta 20 No FACU than 3 in. (7.6 cm) DBH.	
5. chillea millefolium 10 No FACU Shrub - Woody Plants, excluding woody	vines,
6. approximately 3 to 20 ft (1 to 6 m) in height	
	ta Parabudhan
8. Herb – All herbaceous (non-woody) plan herbaceous vines, regardless of size, <u>an</u>	,
plants, except woody vines, less than ap	
3 ft (1 m) in height.	
10 Woody Vine – All woody vines, regardle	es of height
	- Trongina
125 =Total Cover	
50% of total cover:63 20% of total cover:25	
Woody Vine Stratum (Plot size:30)	
1. Campsis radicans 5 Yes FAC	
2	
3	
4	
5. Llydrophytic	
5 =Total Cover Hydrophytic Vegetation	
50% of total cover: 3 20% of total cover: 1 Present? Yes No 2	

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

SOIL Sampling Point: 7-D

Profile Desc	ription: (Describe t	to the dep	th needed to docu	ıment tl	he indica	ntor or co	onfirm the abs	sence of indic	ators.)	
Depth	Matrix			c Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	arks
0-2	10YR 4/3	100					Loamy/Clay	/ey		
										_
¹ Type: C=Cc	ncentration, D=Depl	etion RM-	Reduced Matrix M	 SeM_2I	ked Sand		21.0	ocation: PL=P	ore Lining M	1–Matriy
Hydric Soil I		otion, rtivi-	rtoddodd Watrix, W	10-11100	Roa Garie	oranio.				tic Hydric Soils ³ :
Histosol			Polyvalue Be	low Sur	face (S8	(MLRA	147, 148)		uck (A10) (MI	-
	ipedon (A2)		Thin Dark Su						rairie Redox	
Black His			Loamy Muck						A 147, 148)	(- /
	Sulfide (A4)		Loamy Gleye				,		nt Floodplain	Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLR	A 136, 147)	
2 cm Mu	ck (A10) (LRR N)		Redox Dark	Surface	(F6)			Red Par	ent Material	(F21)
Depleted	Below Dark Surface	(A11)	Depleted Da	rk Surfa	ce (F7)			(outsi	de MLRA 12	7, 147, 148)
Thick Da	rk Surface (A12)		Redox Depre	essions	(F8)			Very Sh	allow Dark S	urface (F22)
	ucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR 1	٧,	Other (E	xplain in Rer	marks)
	leyed Matrix (S4)		MLRA 136					2		
	edox (S5)		Umbric Surfa							vegetation and
	Matrix (S6)		Piedmont Flo							ust be present,
	face (S7)		Red Parent I	/laterial	(F21) (M	LRA 127	, 147, 148)	unless d	listurbed or p	roblematic.
	ayer (if observed):									
Type:	Gravel Con						Lludria Cail	Dracant?	Voc	No. V
Depth (in	cnes).	2					Hydric Soil	Present?	Yes	No_X
Remarks:										

Attachment 2.D.1 Page 69 of 230

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Gre	ensville	Sampling Date: 7/1/2020				
Applicant/Owner: Dominion Energy Virgi	inia		State: V	A Sampling Point: 8-A				
Investigator(s): S. Kupiec		Section, Township, I						
Landform (hillside, terrace, etc.): Slope			onvex, none): Convex	Slope (%): 1-3				
Subregion (LRR or MLRA): LRR P, MLRA 1	•		Long: -77.597120					
,								
Soil Map Unit Name: Slagle fine sandy loam				ification: N/A				
Are climatic / hydrologic conditions on the site	•	-	X No (If r	no, explain in Remarks.)				
Are Vegetation, Soil, or Hydro	ology significantly dis	sturbed? Are "No	ormal Circumstances" pres	sent? Yes X No				
Are Vegetation, Soil, or Hydro	ologynaturally probl-	ematic? (If need	led, explain any answers ir	n Remarks.)				
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point l	ocations, transects,	important features, etc.				
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Ar	rea					
Hydric Soil Present?	Yes No X	within a Wetland?		No X				
Wetland Hydrology Present?	Yes No X							
Remarks: Upland at Flag L-3.								
HYDROLOGY								
Wetland Hydrology Indicators:			-	tors (minimum of two required)				
Primary Indicators (minimum of one is requi			Surface Soil C	, ,				
Surface Water (A1)	True Aquatic Plants			etated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Od			Drainage Patterns (B10)				
Saturation (A3) Water Marks (B1)	Presence of Reduce	res on Living Roots (0		Moss Trim Lines (B16)				
Sediment Deposits (B2)		on in Tilled Soils (C6)		Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Rei			Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		,	Geomorphic F	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)			Microtopograp	ohic Relief (D4)				
Aquatic Fauna (B13)			FAC-Neutral 7	Test (D5)				
Field Observations:								
Surface Water Present? Yes	No X Depth (inch							
Water Table Present? Yes	No X Depth (inch							
Saturation Present? Yes	No X Depth (inch	es): We	etland Hydrology Present	t? Yes No X				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			a) if a vallable.					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspection	s), ii avaliable.					
Remarks:								

VEGETATION (Five Strata) – Use scient	ific names	of plants.		Sampling Po	int: 8-A	_
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1				Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)	
3. 4.				Total Number of Dominant Species Across All Strata:	5(B)	
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	20.0%(A/E	3)
	:	=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 0 x	1 =0	
1. Li uidambar st raciflua	25	Yes	FAC	FACW species 15 x	2 = 30	
2				<u> </u>	3 = 75	
3.				FACU species 45 x	4 = 180	
4				UPL species 20 x	5 = 100	
5				Column Totals: 105 (A	A) <u>385</u> (E	B)
6				Prevalence Index = B/A =	3.67	
	25 :	=Total Cover		Hydrophytic Vegetation Indicat	ors:	
50% of total cover:	13 20%	of total cover:	5	1 - Rapid Test for Hydrophyti	c Vegetation	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%		
1. hus copallinum	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹		
2. 3.				4 - Morphological Adaptations data in Remarks or on a se		ng
4				Problematic Hydrophytic Veg	etation ¹ (Explain)	
				1 		h -
6.				¹ Indicators of hydric soil and wetla present, unless disturbed or prob		be
	15 :	=Total Cover		Definitions of Five Vegetation S		
50% of total cover:		of total cover:	3	Tree – Woody plants, excluding v		
Herb Stratum (Plot size: 30)		0. 1010. 0010		approximately 20 ft (6 m) or more	•	
1. estuca spp	35	Yes		(7.6 cm) or larger in diameter at b		
2. I mus h strix	20	Yes	UPL	Continue Manda planta avaludi		
3. ubus argutus	20	Yes	FACU	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more		
Dichanthelium scoparium	15	No	FACW	than 3 in. (7.6 cm) DBH.	g	
5. chillea millefolium	5	No	FACU	Shrub - Woody Plants, excluding	woody vines	
6. Lespede a cuneata	5	No	FACU	approximately 3 to 20 ft (1 to 6 m		
7				Herb – All herbaceous (non-wood	dv) plants, including	
8.				herbaceous vines, regardless of		
9.				plants, except woody vines, less	than approximately	
10.				3 ft (1 m) in height.		
11.				Woody Vine - All woody vines, r	egardless of height.	
	100 :	=Total Cover				
50% of total cover:	50 20%	of total cover:	20			
Woody Vine Stratum (Plot size: 30)						
4						
3						
3.						
4						
5				Hydrophytic		
		=Total Cover		Vegetation		
50% of total cover:	20%	of total cover:		Present? Yes	No X	
Remarks: (Include photo numbers here or on a sep	arate sheet.)					

SOIL Sampling Point: 8-A

	ription: (Describe t Matrix	to the dep		ıment tl x Featur		ator or c	onfirm the absence	of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	7.5YR 5/6	100	Coron (moron)		- 7/		Loamy/Clayey	
12-20	2.5Y 5/3	75	7.5YR 4/6	25	С	М	Loamy/Clayey	Prominent redox concentrations
¹Type: C=Co	ncentration, D=Depl	letion, RM	=Reduced Matrix, M	S=Mas	ked Sand	Grains.	2Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil II Histosol (Histic Epi Black His Hydroger Stratified 2 cm Muc Depleted Thick Dai Sandy Mi	ndicators: (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface rk Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6)		Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark S Depleted Dal Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Flo	low Surface (\$\footnote{1}{3}\) Mineral Matrix (F3) Surface & Surface & Surface ex Surface exe Matrix (F13)	face (S8) S9) (MLR al (F1) (M x (F2) (F6) (ce (F7) (F8) sses (F12) (MLRA A 147, 1 ILRA 13(2) (LRR I . 122, 13(Indi 147, 148) 48) 5) 	cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
	ayer (if observed):		Red Paletil i	nateriai	(FZI) (IVI	LKA 127	, 147, 140)	unless disturbed of problematic.
Type: Depth (in							Hydric Soil Pres	ent? Yes No X
Remarks:								

Attachment 2.D.1 Page 72 of 230

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/1/2020		
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 9-A		
Investigator(s): S. Kupiec		Section, Township, Range:		<u> </u>		
Landform (hillside, terrace, etc.): Flat		cal relief (concave, convex, non-	e). None	Slope (%): 0-1		
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.5	•	Datum:		
	20 Lat. 30.002001	Long77.5				
Soil Map Unit Name: Iredell loam			NWI classifica			
Are climatic / hydrologic conditions on the sit				explain in Remarks.)		
Are Vegetation, Soil, or Hydro	ology significantly di	sturbed? Are "Normal Circu	mstances" present?	Yes X No		
Are Vegetation, Soil, or Hydro	ologynaturally probl	ematic? (If needed, explain	any answers in Re	marks.)		
SUMMARY OF FINDINGS – Attach	site map showing s	sampling point locations	s, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present?	Yes X No					
Remarks:						
Wetland at Flag O-2.						
-						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	condary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)		
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc	dor (C1)	Drainage Patterns	s (B10)		
X Saturation (A3)	X Oxidized Rhizospher	res on Living Roots (C3)	_Moss Trim Lines ((B16)		
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		on in Tilled Soils (C6)	_Crayfish Burrows			
Drift Deposits (B3)	Thin Muck Surface (· ·	_	on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	7\	<u> X</u>	X Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B: Water-Stained Leaves (B9)	()	_	Shallow Aquitard Microtopographic			
Aquatic Fauna (B13)		X	FAC-Neutral Test			
Field Observations:						
	No Y Depth (inch	es):				
Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes X	No X Depth (inch					
Saturation Present? Yes X	No Depth (inch	es): 0 Wetland Hydi	rology Present?	Yes X No		
(includes capillary fringe)			3,5	· · · · · · · · · · · · · · · · · · ·		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if availa	ble:			
Remarks:						

VEGETATION (Five Strata) – Use scien	tific names	of plants.		Sampling Poi	nt: 9-A
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.		Ореспез :	Otatus	Number of Dominant Species That Are OBL, FACW, or FAC:	6 (A)
3.				Total Number of Dominant Species Across All Strata:	7 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	85.7% (A/B)
-		=Total Cover		Prevalence Index worksheet:	(, (,)
50% of total cover:		of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)		0. 1010. 0010.1			1 = 30
1. cer rubrum	15	Yes	FAC	· —	2 = 120
Li uidambar st raciflua	5	Yes	FAC		3 = 135
Liriodendron tulipifera	5	Yes	FACU		4 = 20
4.		103	TAGO		5 = 0
		-		Column Totals: 140 (A	
6.				Prevalence Index = B/A =	,` · ,
0.	25 :	=Total Cover		Hydrophytic Vegetation Indicate	
50% of total cover:		of total cover:	5		
	13 20%	or total cover.		1 - Rapid Test for Hydrophytic X 2 - Dominance Test is >50%	vegetation
Shrub Stratum (Plot size: 30)	_	V	ODI		
1. Salix nigra	5	Yes	OBL	X 3 - Prevalence Index is ≤3.01	ol (Dravida augmentina
2.				4 - Morphological Adaptations data in Remarks or on a se	
3. 4.				Problematic Hydrophytic Vege	
5.				1.	` ' '
6.			-	¹ Indicators of hydric soil and wetla present, unless disturbed or proble	
0.	5 :	=Total Cover		Definitions of Five Vegetation S	
50% of total cover:		of total cover:	1		
	3 20%	or total cover.	1	Tree – Woody plants, excluding water approximately 20 ft (6 m) or more	
Herb Stratum (Plot size: 30) 1. h nchospora inexpansa	40	Yes	FACW	(7.6 cm) or larger in diameter at b	
upatorium rotundifolium	25	Yes	FAC	Sanling Woody plants evaluding	a woody vinos
3. leocharis obtusa	25	Yes	OBL	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more	
4. hel pteris palustris	15	No	FACW	than 3 in. (7.6 cm) DBH.	g
5. Dichanthelium scoparium	5	No	FACW	Shrub - Woody Plants, excluding	woody vines
6		140	TAOW	approximately 3 to 20 ft (1 to 6 m)	
7					
8.				Herb – All herbaceous (non-wood herbaceous vines, regardless of s	, ,
9.	-			plants, except woody vines, less t	
10				3 ft (1 m) in height.	
11.				Woody Vine – All woody vines, re	egardless of height.
	110	=Total Cover			
50% of total cover:		of total cover:	22		
Woody Vine Stratum (Plot size: 30)		or total cover.			
· · · · · · · · · · · · · · · · · · ·					
1. 2.					
3.					
4					
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	20%	of total cover:		Present? Yes X	No
Remarks: (Include photo numbers here or on a se	parate sheet.)				

SOIL Sampling Point: 9-A

Depth	ption: (Describe t	to the dep		ıment tl		ator or c	onfirm the absence	of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	2.5Y 4/1	85	10YR 3/6	15	С	PL	Loamy/Clayey	Prominent redox concentrations
5-20	2.5Y 6/1	85	10YR 5/6	15	C	M	Sandy	Prominent redox concentrations
				<u> </u>		<u> </u>		
¹Type: C=Con	centration, D=Depl	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Black Hist Hydrogen Stratified L 2 cm Mucl Depleted I Thick Dark	A1) Dedon (A2) Dic (A3) Sulfide (A4) Layers (A5) C (A10) (LRR N) Below Dark Surface C Surface (A12) Deky Mineral (S1) Deyed Matrix (S4) Dedox (S5) Matrix (S6)	: (A11)	Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye X Depleted Ma Redox Dark S Depleted Dar Redox Depre Iron-Mangan MLRA 136 Umbric Surfa Piedmont Flo	urface (\$ y Minera ed Matrix trix (F3) Surface ek Surfa essions esse Mas) ace (F13 podplain	S9) (MLR al (F1) (M x (F2) (F6) ce (F7) (F8) sses (F12 8) (MLRA Soils (F12	A 147, 1 A 147, 1 A 147, 1 A 122, 13 A 122, 13 A 19) (MLF	147, 148)	cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16) (MLRA 147, 148) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Red Parent Material (F21) (outside MLRA 127, 147, 148) Very Shallow Dark Surface (F22) Other (Explain in Remarks) cators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
	yer (if observed):		RCGT GIGHT	viatoriai	(1 2 1) (101	LIVA 127	, 147, 140,	unicas disturbed of problematic.
Type: Depth (inc							Hydric Soil Prese	ent? Yes X No
Remarks:								

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U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Eastern Mountains and Piedmont Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7	/1/2020	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	9-B	
Investigator(s): S. Kupiec		Section, Township, Range:				
Landform (hillside, terrace, etc.): Slope	Lo	cal relief (concave, convex, no	one): Convex	Slope (%):	2-4	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77	•	Datum:		
	30 Lat. 30.002220	Long				
Soil Map Unit Name: Roanoke loam			NWI classifica			
Are climatic / hydrologic conditions on the site				explain in Remarks.)	i .	
Are Vegetation, Soil, or Hydro	logysignificantly di	sturbed? Are "Normal Circ	cumstances" present?	? Yes X N	10	
Are Vegetation, Soil, or Hydro	logynaturally probl	ematic? (If needed, expla	ain any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing	sampling point location	ns, transects, im	portant feature	s, etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No_X_		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland at Flag O-2.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators	(minimum of two red	quired)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	:ks (B6)		
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetate	ed Concave Surface	(B8)	
High Water Table (A2)	Hydrogen Sulfide Od	_	Drainage Patterns	s (B10)		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Lines			
Water Marks (B1)	Presence of Reduce	_	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burrows		00)	
Drift Deposits (B3)	Thin Muck Surface (e on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Stress			
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	7)	-	Geomorphic Position (D2) Shallow Aquitard (D3)			
Water-Stained Leaves (B9))	_	Microtopographic			
Aquatic Fauna (B13)		-	FAC-Neutral Test			
Field Observations:		<u> </u>		- (= 5)		
Surface Water Present? Yes	No X Depth (inch	es):				
Water Table Present? Yes	No X Depth (inch					
Saturation Present? Yes	No X Depth (inch		ydrology Present?	Yes N	10 X	
(includes capillary fringe)	<u> </u>					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos	s, previous inspections), if ava	ilable:			
Remarks:						

3. Total Number of Dominant Species Across All Strata: 5 (Percent of Dominant Species	A/B)
1.	A/B)
4.	A/B)
Factor F	- - - -
Sapling Stratum (Plot size: 30) 20% of total cover: Total % Cover of: Multiply by: Sapling Stratum (Plot size: 30) Yes FACU FACW species 0 x 2 = 0 x 1 = 0 1. Liriodendron tulipifera 5 Yes FACU FACW species 0 x 3 = 0 x 3 = 0 3. FACU species 130 x 4 = 520 Yes FACU species 130 x 4 = 520 4. UPL species 0 x 5 = 0 Column Totals: 130 (A) 520 Fevalence Index = B/A = 4.00 Prevalence Index = B/A = 4.00 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 1. 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet) 4. Problematic Hydrophytic Vegetation 1 (Explain) 5. Tindicators of hydric soil and wetland hydrology method in the present, unless disturbed or problematic. Definitions of Five Vegetation Strata: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height (DB approximately 20 ft (6 m) or more in height (DB approximately 20 ft (6 m) or more in height (DB approximately 20 ft (6 m) or more in height (DB approximately 20 ft (6 m) or more in height (DB approximately 20 ft (6 m) or more in height (- - - - - (B)
Sapling Stratum (Plot size: 30) 30) Yes FACU FACU FACU FACW species 0 x 2 = 0 x1 = 0 Column FACW species 0 x 2 = 0 FACW species 0 x 3 = 0 FACU FACW species 0 x 3 = 0 FACU FACW species 0 x 3 = 0 FACU species 130 x 4 = 520 FACU Species 130 x 4 = 520 FACU Species 0 x 5 = 0 FACU Spe	- - - - - _(B)
1. Liriodendron tulipifera 20 Yes FACU FACW species 0 x 2 = 0 2. runus serotina 5 Yes FACU FAC species 0 x 3 = 0 3. 4. UPL species 0 x 5 = 0 5. UPL species 0 x 5 = 0 6. 25 =Total Cover Hydrophytic Vegetation Indicators: 50% of total cover: 13 20% of total cover: 5 1 - Rapid Test for Hydrophytic Vegetation 9 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide suppor data in Remarks or on a separate sheet) 9 Problematic Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Rapid Test for Hydrophytic Vegetation - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting the Hydrophytic Vegetation Strates) - Problematic Hydrophytic Vegetation Strates 5. - Total Cover - Problematic Hydrophytic Vegetation Strates - Prevalence Index is ≤ 3.0¹ - Prevalence Index is ≤ 3.0¹ - Prevalence Index is ≤ 3.0¹ - Prevalence Index	- - - (B)
2. runus serotina 5 Yes FACU FACU species 0 x 3 = 0 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 5. 4. 4. 4. 5. 6. 4. 4. 4. 5. 6. 4. <td>- - - (B)</td>	- - - (B)
3.	(B)
4. UPL species 0 x 5 = 0 Column Totals: 130 (A) 520 Prevalence Index = B/A = 4.00 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) 4 - Morphological Adaptations¹ (Explain) 5	- (B)
Shrub Stratum (Plot size: 30) 1. 25 — Total Cover 50% of total cover: 50 — Total Cover 50% of total cover: 50% of total cov	(B)
Prevalence Index = B/A = 4.00 Shrub Stratum (Plot size: 30) 1. 2. 3. 2. 3. 4. 4. 4. 4. 4. 4. 4	(B)
25	
50% of total cover: 13 20% of total cover: 5 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide suppodata in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 2 - Dominance Test is >50% of total cover: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover: 2 - Dominance Test is >50% of total c	
Shrub Stratum (Plot size: 30) 1.	
1	
1	
2	
4. Problematic Hydrophytic Vegetation¹ (Explain) 5.	rting
5	
6	
50% of total cover: 20% of total cover: Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DB)	st be
Herb Stratum (Plot size: 30) 1. ubus argutus 50 Yes FACU The Weedy plants, shotding weedy finds, approximately 20 ft (6 m) or more in height and 3 in (7.6 cm) or larger in diameter at breast height (DB)	
1. ubus argutus 50 Yes FACU (7.6 cm) or larger in diameter at breast height (DB	
2. <u>ndropogon irginicus</u> 25 Yes <u>FACU</u> Sapling – Woody plants, excluding woody vines.	
3. upatorium capillifolium 20 No FACU approximately 20 ft (6 m) or more in height and les	s
4. <i>uthamia spp</i> 15 No than 3 in. (7.6 cm) DBH.	
5. <i>chillea millefolium</i> 5 No FACU Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
7 Herb – All herbaceous (non-woody) plants, includi	ng
8. herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximate	lv.
3 ft (1 m) in height.	ıy
10 Woody Vine – All woody vines, regardless of height	hŧ
	п.
115=Total Cover	
50% of total cover:58 20% of total cover:23	
Woody Vine Stratum (Plot size:30)	
1. Lonicera aponica 5 Yes FACU	
2	
3	
4	
5. Hydrophytic	
5 =Total Cover Vegetation	
50% of total cover: 20% of total cover: 1	
Remarks: (Include photo numbers here or on a separate sheet.)	

SOIL Sampling Point: 9-B

Profile Des	cription: (Describe	to the dep	th needed to doc	ument t	he indica	ator or co	onfirm the abs	sence of indic	cators.)	
Depth	Matrix			x Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Rem	arks
0-2	10YR 4/3	100					Loamy/Clay	vev		
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
			-							
	oncentration, D=Dep	letion, RM=	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Lo	ocation: PL=P		
Hydric Soil			<u> </u>							tic Hydric Soils ³ :
Histosol			Polyvalue Be						uck (A10) (MI	•
	pipedon (A2)		Thin Dark Su						rairie Redox	(A16)
	istic (A3)		Loamy Muck	-		1LRA 130	5)		A 147, 148)	6 II (F:=)
	en Sulfide (A4)		Loamy Gleye		, ,				nt Floodplain	Soils (F19)
	d Layers (A5)		Depleted Ma						A 136, 147)	(50.1)
	uck (A10) (LRR N)	- / ^ 4 4 1	Redox Dark						rent Material	
	d Below Dark Surface	e (A11)	Depleted Da						de MLRA 12	
	ark Surface (A12)		Redox Depre			a) (I DD I	d.		allow Dark S	
	Mucky Mineral (S1)		Iron-Mangan		sses (F12	2) (LRR I	V,	Other (E	Explain in Rer	narks)
	Gleyed Matrix (S4) Redox (S5)		MLRA 136 Umbric Surfa		2) /MI D A	100 104	٤)	3Indicators o	of budranbutia	vegetation and
	Matrix (S6)		Piedmont Flo							ust be present,
	irface (S7)		Red Parent I						disturbed or p	
	Layer (if observed):			viatoriai	(1 2 1) (101	LIVA 121	, 147, 140)	dilicos c	alstarbed or p	TODICITIANO.
Type:	Grav									
Depth (i		2					Hydric Soil	Present?	Yes	No X
Remarks:							1,			
Remarks.										
i										
1										

Attachment 2.D.1 Page 78 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	le	Sampling Date: 7/	1/2020		
Applicant/Owner: Dominion Energy Virgin	inia		State: VA	Sampling Point:	10-A		
Investigator(s): S. Kupiec	Se	ection, Township, Range:					
Landform (hillside, terrace, etc.): Drainagev	way Loca	I relief (concave, convex,	none): Concave	Slope (%):	4-6		
Subregion (LRR or MLRA): LRR P, MLRA 1			77.600149	Datum:			
Soil Map Unit Name: Fluvanna-Mattaponi co			NWI classifica	tion: N/A			
Are climatic / hydrologic conditions on the sit		? Yes X		explain in Remarks.)			
Are Vegetation, Soil, or Hydro			circumstances" present		lo		
Are Vegetation, Soil, or Hydro			plain any answers in Re				
SUMMARY OF FINDINGS – Attach	ı site map showing sa	mpling point location	ons, transects, im	nportant feature	s, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Upland south of Structure 254/27.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two rea	uired)		
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil Crac		<u>unou</u>		
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface	(B8)		
High Water Table (A2)	Marl Deposits (B15) (L	RR U)	Drainage Patterns		,		
Saturation (A3)	Hydrogen Sulfide Odor	(C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres	on Living Roots (C3)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced I	ron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction	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 Rema	arks)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	, ,			
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches)						
	No X Depth (inches)		Name of the Control o	Vaa N	la V		
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches)): wetland	Hydrology Present?	Yes N	0 X		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, r	orevious inspections) if a	vailable:				
Dodonisa Modorada Data (etroam gaage, mi	sintoling won, donar priotos, p	orovious inspections), ii u	valiable.				
Remarks:							
Relief too steep for geomorphic position.							

VEGETATION (Five Strata) – Use scienti	ific names	of plants.		Sampling Point:	10-A
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
3. 4.	·			Total Number of Dominant Species Across All Strata:	6 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	33.3% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	. 0
1. uercus rubra	15	Yes	FACU	FACW species 0 x 2 =	0
2.				FAC species 45 x 3 =	135
3.				FACU species 70 x 4 =	280
4.				UPL species 0 x 5 =	0
5.				Column Totals: 115 (A)	415 (B)
6.				Prevalence Index = B/A =	3.61
	15	=Total Cover		Hydrophytic Vegetation Indicators	
50% of total cover:	8 20%	of total cover:	3	1 - Rapid Test for Hydrophytic V	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%	o .
4				3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Vegeta	ation ¹ (Explain)
3.				Troblematic Hydrophytic Vogeta	(Explain)
4.					
5.				¹ Indicators of hydric soil and wetland	l bydrology must bo
6.				present, unless disturbed or problem	
		=Total Cover		Definitions of Five Vegetation Stra	
50% of total cover:		of total cover:		Tree – Woody plants, excluding woo	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in	•
1. ndropogon irginicus	35	Yes	FAC	(7.6 cm) or larger in diameter at brea	
2. ac era tomentosa	20	Yes	FACU	Sapling – Woody plants, excluding v	woody vinos
upatorium capillifolium	15	Yes	FACU	approximately 20 ft (6 m) or more in	
4.		100	17.00	than 3 in. (7.6 cm) DBH.	
5.				Shrub - Woody Plants, excluding wo	oody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in	height.
7				Herb – All herbaceous (non-woody)	plants, including
8.				herbaceous vines, regardless of size	e, and woody
9				plants, except woody vines, less that	n approximately 3
10.				ft (1 m) in height.	
11.				Woody Vine - All woody vines, rega	ardless of height.
	70	=Total Cover			
50% of total cover:	35 20%	of total cover:	14		
Woody Vine Stratum (Plot size:)					
1. Lonicera aponica	20	Yes	FACU		
2. itis rotundifolia	10	Yes	FAC		
3.					
4.					
5.				1	
	30	=Total Cover		Hydrophytic Vegetation	
50% of total cover:		of total cover:	6		o X
Remarks: (If observed, list morphological adaptation	ns below.)				

SOIL Sampling Point: 10-A

	ription: (Describe t	to the depth				itor or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix	%		x Featur		Loc ²	Toytura			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	LOC	Texture	exture Remarks		
0-20	10YR 3/3	100					Loamy/Clayey			
								-		
¹ Type: C=Co	ncentration, D=Depl	etion, RM=R	educed Matrix, M	 IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=M	latrix.	
	ndicators: (Applica							for Problematic Hyd		
Histosol			Thin Dark Su			S, T, U)		Muck (A9) (LRR O)		
	ipedon (A2)	_	Barrier Island				2 cm N	Muck (A10) (LRR S)		
Black His	stic (A3)	_	(MLRA 15				Coast	Prairie Redox (A16)		
—— Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(out:	side MLRA 150A)		
Stratified	Layers (A5)	_	Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3)	1		(out	side MLRA 150A, 150	B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (F	[:] 19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)	_	Depleted Da	rk Surfa	ce (F7)		Anoma	alous Bright Floodplair	Soils (F20)	
1 cm Mu	ck (A9) (LRR P, T)	_	Redox Depre	essions	(F8)		(MLI	RA 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red P	arent Material (F21)		
	rk Surface (A12)	_	Depleted Oc	hric (F1	1) (MLRA	151)		Shallow Dark Surface (•	
	airie Redox (A16) (M	_	Iron-Mangan		•	, .		side MLRA 138, 152A		
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa					r Islands Low Chroma	Matrix (TS7)	
	leyed Matrix (S4)	_	Delta Ochric				•	RA 153B, 153D)		
	edox (S5)	_	Reduced Ve					(Explain in Remarks)		
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S	_	Anomalous E	_						
	e Below Surface (S8))	(MLRA 14				Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)	_	Very Shallow				wetland hydrology must be present, unless disturbed or problematic.			
5	(16.1		(MLRA 13	o, 132A	, III FL, 13	04)	uriie I	ess disturbed of proble	matic.	
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	ent? Yes	No X	
Remarks:										

Attachment 2.D.1 Page 81 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/2/2	2020		
Applicant/Owner: Dominion Energy Virgir	nia		State: VA	Sampling Point: 1	1-A		
Investigator(s): S. Kupiec	Secti	ion, Township, Range:					
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, nor	ne): Convex	Slope (%): 2	2-4		
Subregion (LRR or MLRA): LRR P, MLRA 13	·	Long: -77.6		Datum:			
		Long. 17.0					
Soil Map Unit Name: Fluvanna-Mattaponi co	·		NWI classificat				
Are climatic / hydrologic conditions on the site				explain in Remarks.)			
Are Vegetation, Soil, or Hydrol			umstances" present				
Are Vegetation, Soil, or Hydrol	ogynaturally problemat	tic? (If needed, explai	n any answers in Re	emarks.)			
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point location	s, transects, im	portant features,	etc.		
Hadronkoffa Vanatatian Barango	Var. No. V	Is the Court of Aug					
, , , ,		Is the Sampled Area within a Wetland?	Voc	No. V			
	Yes No X Yes No X	wittiiii a wetianu?	Yes	No <u>X</u>			
	163 NO X						
Remarks: Upland at Flag T-2.							
opialia at i lag i 2.							
HYDROLOGY							
Wetland Hydrology Indicators:		Se	econdary Indicators	minimum of two require	ed)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crac	ks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (Ba	8)		
High Water Table (A2)	Marl Deposits (B15) (LRF	_	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres or		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark		Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7			FAC-Neutral Test				
Water-Stained Leaves (B9)	,	_	Sphagnum Moss				
Field Observations:							
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):	Wetland Hyd	drology Present?	Yes No	Χ		
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:				
Remarks:							
Remarks.							

				raye o	62 OT 23U
EGETATION (Five Strata) – Use scier		•		Sampling Point:	11-A
ree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
·	_			Number of Dominant Species	
· -	_			That Are OBL, FACW, or FAC:	1 (A)
	_			Total Number of Dominant	
·	_			Species Across All Strata:	6 (B)
·	_			Percent of Dominant Species	
·	_				16.7% (A/E
500/ (1.1.)		=Total Cover		Prevalence Index worksheet:	18. 1 . 1
50% of total cover:	209	% of total cover:			ultiply by:
(apling Stratum (Plot size: 30)	45	V	FAC	OBL species 0 x 1 =	0
. Li uidambar st raciflua	15	Yes	FAC	FACW species 5 x 2 =	10
·	_			FAC species 30 x 3 =	90
·				FACU species 70 x 4 = UPL species 15 x 5 =	280 75
·					
	_			Column Totals: 120 (A) Prevalence Index = B/A =	455 (E
·	15	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:		of total cover:	3	1 - Rapid Test for Hydrophytic Ve	
Shrub Stratum (Plot size: 30)		o or total cover.		2 - Dominance Test is >50%	getation
. accinium stamineum	15	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹	
. hus copallinum	15	Yes	UPL	Problematic Hydrophytic Vegetati	ion ¹ (Explain)
. Has copaiinain		163	01 L	1 Toblematic Hydrophytic Vegetati	OII (Explain)
·	_				
·				1	
).	_			¹ Indicators of hydric soil and wetland he present, unless disturbed or problema	, ,,
·	30	=Total Cover		Definitions of Five Vegetation Strat	
50% of total cover:		6 of total cover:	6	Tree – Woody plants, excluding wood	
Herb Stratum (Plot size: 30)		o or total cover.		approximately 20 ft (6 m) or more in h	•
. teridium a uilinum	35	Yes	FACU	(7.6 cm) or larger in diameter at breas	
. Ilium ineale	15	Yes	FACU	Sapling – Woody plants, excluding w	roody vines
. ubus argutus	10	No	FAC	approximately 20 ft (6 m) or more in h	•
. Saccharum giganteum	5	No	FACW	than 3 in. (7.6 cm) DBH.	
. Dichanthelium dichotomum	5	No	FAC	Shrub - Woody Plants, excluding woo	ody vines,
i.				approximately 3 to 20 ft (1 to 6 m) in h	
				Herb – All herbaceous (non-woody) p	lanta including
				herbaceous vines, regardless of size,	
				plants, except woody vines, less than	
0.				ft (1 m) in height.	
1.				Woody Vine - All woody vines, regard	dless of height.
	70	=Total Cover			
50% of total cover:	35 20%	- % of total cover:	14		
Noody Vine Stratum (Plot size: 30)					
. Lonicera aponica	5	Yes	FACU		
3.					
·				l	
		=Total Cover		Hydrophytic Vegetation	
50% of total cover:		6 of total cover:	1	_	Χ

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 11-A

	•	o the dep				ator or c	onfirm the absence	of indicators.)		
Depth	Matrix	0/		Featur		1.22	Tautuma	Damada		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 4/4	100					Loamy/Clayey			
6-20	10YR 5/6	85	10YR 6/2	15	D	М	Loamy/Clayey			
¹Type: C=Cc	oncentration, D=Depl	etion PM-	-Reduced Matrix M	 2cM_2l	ked Sand		² l ocation:	PL=Pore Lining, M=Matrix.		
	ndicators: (Applica					d Grains.		for Problematic Hydric Soils ³ :		
Histosol		bio to an i	Thin Dark Su			S, T, U)		fluck (A9) (LRR O)		
	pipedon (A2)		Barrier Island					Muck (A10) (LRR S)		
Black His			(MLRA 15	3B, 153	D)	,		Prairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
	Bodies (A6) (LRR P,		Depleted Ma				,	side MLRA 150A, 150B)		
	cky Mineral (A7) (LR		Redox Dark					ont Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Da					alous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)	(//11)	Redox Depre		(F8)		•	RA 153B) arent Material (F21)		
	l Below Dark Surface irk Surface (A12)	(A11)	Marl (F10) (L Depleted Oc		1) (MI RA	۱51) ۱		hallow Dark Surface (F22)		
	rairie Redox (A16) (M	LRA 150A					<u> </u>	side MLRA 138, 152A in FL, 154)		
l 						Islands Low Chroma Matrix (TS7)				
	leyed Matrix (S4)	,	Delta Ochric					RA 153B, 153D)		
Sandy R	edox (S5)		Reduced Ver	tic (F18	B) (MLRA	150A, 1	50B)Other ((Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLF	RA 149A)			
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous E	-						
	e Below Surface (S8))	(MLRA 14				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unle	ss disturbed or problematic.		
	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	ent? Yes No X		
Remarks:										

Attachment 2.D.1

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/2	2/2020	
Applicant/Owner: Dominion Energy Virgin	nia		State: VA	Sampling Point:	11-B	
Investigator(s): S. Kupiec		on, Township, Range:				
Landform (hillside, terrace, etc.): Drainagew		elief (concave, convex, no	ne): Concave	Slope (%):	4-6	
Subregion (LRR or MLRA): LRR P, MLRA 1:		Long: -77.		Datum:		
	55A Lat. 50.072020	Long. <u>-77.</u>				
Soil Map Unit Name: Roanoke loam			NWI classifica			
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			umstances" present	? Yes X N	10	
Are Vegetation, Soil, or Hydro	logynaturally problemat	ic? (If needed, expla	in any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, im	nportant feature	s, etc.	
Lhydraphytic Vagatation Dragant?	Vac V No	is the Compled Area				
Hydrophytic Vegetation Present? Hydric Soil Present?		s the Sampled Area within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X	within a wetland:	163	NO X		
Remarks:	100 NO X					
Upland near Structure 254/31.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>S</u>	econdary Indicators	(minimum of two req	uired)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface	(B8)	
High Water Table (A2)	Marl Deposits (B15) (LRF	_	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres or	_	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows (C8)			
Drift Deposits (B3) Algal Mat or Crust (B4)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solls (Cb)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Remark	s)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7			X FAC-Neutral Test			
Water-Stained Leaves (B9)	,	<u> </u>	Sphagnum Moss	, ,		
Field Observations:		_				
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hy	drology Present?	YesN	lo X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avai	lable:			
Remarks:						
Nemarks.						

VEGETATION (Five Strata) - Use scien	tific names of plants.		Sampling Point:11-B
<u>Tree Stratum</u> (Plot size: 30)	Absolute Dominant % Cover Species?	Indicator Status	Dominance Test worksheet:
1	70 Oover Opecies!	Jiaius	Number of Dominant Species
2.			That Are OBL, FACW, or FAC: 4 (A)
3.			Total Number of Dominant
4.			Species Across All Strata: 6 (B)
5			Percent of Dominant Species
6			That Are OBL, FACW, or FAC: 66.7% (A/B)
	=Total Cover		Prevalence Index worksheet:
50% of total cover:	20% of total cover	:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)			OBL species 0 x 1 = 0
1. Li uidambar st raciflua	10Yes	FAC	FACW species 20 x 2 = 40
2.			FAC species 70 x 3 = 210
3. 4.			FACU species 0 x 4 = 0 UPL species 0 x 5 = 0
			UPL species 0 x 5 = 0 Column Totals: 90 (A) 250 (B)
6.			Prevalence Index = $B/A = 2.78$
·	10 =Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	5 20% of total cover	: 2	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)			X 2 - Dominance Test is >50%
1			3 - Prevalence Index is ≤3.0 ¹
2.			Problematic Hydrophytic Vegetation ¹ (Explain)
3.			_ , , , , , , , , , , , , , , , , , , ,
4.			
5.			¹ Indicators of hydric soil and wetland hydrology must be
6			present, unless disturbed or problematic.
	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20% of total cover	:	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)			approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
erbesina alternifolia	30 Yes	FAC	(7.6 cm) of larger in dameter at breast height (BBH).
2. Dichanthelium scoparium	20 Yes	FACW	Sapling – Woody plants, excluding woody vines,
3. <u>upatorium spp</u>	20 Yes		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. estuca spp			, ,
5. 6.			Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
7			
0			Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9.			plants, except woody vines, less than approximately 3
10.			ft (1 m) in height.
11.			Woody Vine – All woody vines, regardless of height.
	90 =Total Cover		
50% of total cover:	45 20% of total cover	: 18	
Woody Vine Stratum (Plot size: 30)			
1. itis rotundifolia	30 Yes	FAC	
2.			
3.			
4.			
5.			Hydrophytic
	30 =Total Cover		Vegetation
50% of total cover:	15 20% of total cover	: 6	Present? Yes X No

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 11-B

	•	o the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Color (moist)	%	Color (moist)	K Featur	res Type ¹	Loc ²	Texture	Rem	arks		
0-4	10YR 3/2	100	Color (Illoist)		Туре	LUC	Loamy/Clayey	Keiii	ains		
4-6	10YR 5/4	100					Loamy/Clayey				
6-20	10YR 5/3	100					Loamy/Clayey				
1Type: C-Co	ncentration, D=Depl	etion RM-	Peduced Matrix M	 1S_Mas	ked Sand		² Location:	 PL=Pore Lining, M=N			
	ndicators: (Applica					d Grairis.		for Problematic Hy			
Histosol (Die te dii E	Thin Dark Su			S, T, U)		uck (A9) (LRR O)	3110 00113 .		
	pedon (A2)		Barrier Island					uck (A10) (LRR S)			
Black His			(MLRA 15			,		Prairie Redox (A16)			
Hydrogen	Sulfide (A4)		Loamy Muck			.RR O)		ide MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye				Reduce	ed Vertic (F18)			
Organic E	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 15	OB)		
5 cm Mud	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	sence (A8) (LRR U)		Depleted Da	rk Surfa	ace (F7)		Anoma	lous Bright Floodplai	n Soils (F20)		
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)							(MLRA 153B)				
Depleted Below Dark Surface (A11) Marl (F10) (LRR U)								rent Material (F21)			
Thick Dark Surface (A12) — Depleted Ochric (F11) (MLRA 151)							nallow Dark Surface				
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Mas				,	, .		ide MLRA 138, 152	,			
	ucky Mineral (S1) (L	RR (), S)	Umbric Surfa					Islands Low Chroma	Matrix (TS7)		
	eyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D) 50B) Other (Explain in Remarks)				
Sandy Re	Matrix (S6)		Reduced Ver					Explain in Remarks)			
	face (S7) (LRR P, S,	T 11)	Piedmont Flo								
	e Below Surface (S8)		(MLRA 14	•		,	³ Indicators of hydrophytic vegetation and				
(LRR S		,	Very Shallow				wetland hydrology must be present,				
(2	,, ,, ,,		(MLRA 13		,	,		ss disturbed or proble	•		
Restrictive L	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No X		
Remarks:											

Attachment 2.D.1 Page 87 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 7/2/	/20	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	12-A	
Investigator(s): S. Kupiec	Se	ection, Township, Range:				
Landform (hillside, terrace, etc.): Slope	Loca	al relief (concave, convex,	none): Convex	Slope (%):	1-2	
Subregion (LRR or MLRA): LRR P, MLRA 1			77.603128	Datum:		
Soil Map Unit Name: Roanoke Loam				ation: R2UBH		
Are climatic / hydrologic conditions on the sit	e typical for this time of year	? Yes X		explain in Remarks.)		
			Circumstances" present		_	
Are Vegetation, Soil, or Hydro					′——	
Are Vegetation, Soil, or Hydro	<u></u>		plain any answers in R			
SUMMARY OF FINDINGS – Attach	ı site map showing sa	ampling point locati	ons, transects, ir	nportant features	s, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland at Line W.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two requ	ired)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crad			
Surface Water (A1)	Aquatic Fauna (B13)			ted Concave Surface (I	B8)	
High Water Table (A2)	Marl Deposits (B15) (L		Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction		Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7	,		, ,		
Inundation Visible on Aerial Imagery (B	Other (Explain in Rema	aiks)	Shallow Aquitard FAC-Neutral Tes			
Water-Stained Leaves (B9)	1)		Sphagnum Moss			
			Opriagram Moss	(DO) (ERR 1, 0)		
Field Observations: Surface Water Present? Yes	No. V. Donth (inches	۸.				
	No X Depth (inches Depth (inches					
Saturation Present? Yes	No X Depth (inches		Hydrology Present?	Yes No	. Y	
(includes capillary fringe)	No X Deptil (illelies	Wettand	rrydrology Fresent:	NC	<u> X</u>	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos,	previous inspections), if a	vailable:			
(3 3 7		, , , , , , , , , , , , , , , , , , , ,				
Remarks:						

VEGETATION (Five Strata) – Use scient	tific names o	of plants.		Sampling Point	: 12-A
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	3 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7% (A/B)
	=	Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	= 0
1.				FACW species 0 x 2 =	= 0
2.					= 315
3.					= 160
4.				UPL species 0 x 5 =	= 0
5.				Column Totals: 145 (A)	475 (B)
6.				Prevalence Index = B/A =	3.28
	·	Total Cover		Hydrophytic Vegetation Indicators	
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic \	
Shrub Stratum (Plot size: 30)		o. 101a. 0010		X 2 - Dominance Test is >50%	- ogotation
4				3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Vegeta	ation ¹ (Evolain)
2				1 Toblematic Hydrophytic Veget	ation (Explain)
4					
				1.	
5.				¹ Indicators of hydric soil and wetland	
6.		T-1-1 O		present, unless disturbed or problem	
500/ // /		Total Cover		Definitions of Five Vegetation Str	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woo	•
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at bre	
1. I mus irginicus	60	Yes	FAC		
2. Dichanthelium dichotomum	30	Yes	FAC	Sapling – Woody plants, excluding	
3. Solidago altissima	25	No	FACU	approximately 20 ft (6 m) or more in than 3 in. (7.6 cm) DBH.	height and less
4. ubus argutus	15	No	FAC	· · · · ·	
5				Shrub - Woody Plants, excluding w	
6	·			approximately 3 to 20 ft (1 to 6 m) in	i neight.
7				Herb - All herbaceous (non-woody)	plants, including
8				herbaceous vines, regardless of size	·
9.				plants, except woody vines, less that ft (1 m) in height.	in approximately 3
10					
11				Woody Vine – All woody vines, reg	ardless of height.
	130 =	Total Cover			
50% of total cover:	65 20%	of total cover:	26		
Woody Vine Stratum (Plot size:30)					
1. Lonicera aponica	15	Yes	FACU		
2.					
3.					
4.					
5.				1	
	15 =	Total Cover		Hydrophytic Vegetation	
50% of total cover:		of total cover:	3		lo
Remarks: (If observed, list morphological adaptation				133	<u>- </u>

SOIL Sampling Point: 12-A

	ription: (Describe t	to the depth				itor or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%		k Featur		Loc ²	Toyturo	Pom	orko	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	LOC	Texture	Rem	arks	
0-20	10YR 5/4	100					Loamy/Clayey	-		
								-		
¹ Type: C=Co	ncentration, D=Depl	etion. RM=R	educed Matrix. N	 1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=N	 ∕latrix.	
	ndicators: (Applica							for Problematic Hyd		
Histosol			Thin Dark Su			S, T, U)		Muck (A9) (LRR O)		
	ipedon (A2)	_	Barrier Island					Muck (A10) (LRR S)		
Black His	stic (A3)	_	(MLRA 15				Coast	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(out:	side MLRA 150A)		
Stratified	Layers (A5)	_	Loamy Gleye	ed Matri	x (F2)		Reduc	ed Vertic (F18)		
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(out	side MLRA 150A, 150	OB)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soils (l	F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)	_	Depleted Da	rk Surfa	ice (F7)		Anoma	alous Bright Floodplai	n Soils (F20)	
1 cm Mu	ck (A9) (LRR P, T)	_	Redox Depre	essions	(F8)		(MLI	RA 153B)		
Depleted	Below Dark Surface	(A11) _	Marl (F10) (L	.RR U)			Red P	arent Material (F21)		
	rk Surface (A12)	_	Depleted Oc	hric (F1	1) (MLRA	151)		Shallow Dark Surface		
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR O, P, T) (outside MLRA 138, 152A in FL,						,				
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	_	Delta Ochric				•	.RA 153B, 153D)		
	edox (S5)	_	Reduced Ve							
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S,	_	Anomalous E							
	e Below Surface (S8))	(MLRA 14							
(LRR S	S, T, U)	_	Very Shallow					and hydrology must b		
5	(16.1		(MLRA 13	o, 132A	. III FL, 13	04)	urile I	ess disturbed or proble	malic.	
	.ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Pres	ent? Yes	NoX	
Remarks:										

Attachment 2.D.1 Page 90 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/	20/20		
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	12-B		
Investigator(s): S. Kupiec	Sec	ction, Township, Range:		_			
Landform (hillside, terrace, etc.): Slope		relief (concave, convex, no	one): Convex	Slope (%):	1-2		
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.	•	Datum:			
	55A Lat. 50.005242	Long. 17.					
Soil Map Unit Name: Roanoke loam			NWI classifica				
Are climatic / hydrologic conditions on the sit				explain in Remarks.)			
Are Vegetation, Soil, or Hydro			cumstances" present	? Yes X N	No		
Are Vegetation, Soil, or Hydro	logy naturally problems	atic? (If needed, expla	ain any answers in Re	emarks.)			
SUMMARY OF FINDINGS - Attach	ı site map showing sar	mpling point locatior	ns, transects, in	nportant feature	es, etc.		
Lhydraphytic Vagatation Present?	Voc. V. No.	lo the Compled Area					
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No No X	Is the Sampled Area within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X	within a wettand:	103	NO X			
Remarks:							
Upland at Structure 254/36.							
·							
HYDROLOGY							
Wetland Hydrology Indicators:		<u>S</u>	Secondary Indicators	(minimum of two red	quired)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)			
Surface Water (A1)	Aquatic Fauna (B13)	_		ed 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		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Ir		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remar		Geomorphic Posi Shallow Aquitard	` '			
Inundation Visible on Aerial Imagery (B			FAC-Neutral Test				
Water-Stained Leaves (B9)	' /	_	Sphagnum Moss	` '			
Field Observations:				(= 0) (= , =)			
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		/drology Present?	YesN	No X		
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	revious inspections), if avai	ilable:				
Remarks:							

VEGETATION (Five Strata) – Use scienti	fic names	of plants.		Sampling Point:	: 12-B
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	5 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	60.0% (A/B)
	:	=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	= 0
1				FACW species 25 x 2 =	= 50
2.				FAC species75 x 3 =	= 225
3.				FACU species60 x 4 =	= 240
4.				UPL species 0 x 5 =	= 0
5.				Column Totals: 160 (A)	515 (B)
6.				Prevalence Index = B/A =	3.22
		=Total Cover		Hydrophytic Vegetation Indicators	S:
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic V	
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	
1.				3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Vegeta	ation ¹ (Explain)
3.					() ,
4					
5				1	
6.				¹ Indicators of hydric soil and wetland present, unless disturbed or problem	
·		=Total Cover		Definitions of Five Vegetation Stra	
50% of total cover:		of total cover:			
Herb Stratum (Plot size: 30)	2070	or total cover.		Tree – Woody plants, excluding woo approximately 20 ft (6 m) or more in	
Solidago altissima	50	Yes	FACU	(7.6 cm) or larger in diameter at brea	
	25	Yes	FAC		
				Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in	
3. <u>Dichanthelium scoparium</u>	25	Yes	FACW	than 3 in. (7.6 cm) DBH.	neight and less
4. I mus irginicus	10	No	FAC		
5.				Shrub - Woody Plants, excluding we approximately 3 to 20 ft (1 to 6 m) in	
6.				approximately 3 to 20 ft (1 to 6 ff) if	r noight.
7				Herb – All herbaceous (non-woody)	, ,
8				herbaceous vines, regardless of size plants, except woody vines, less that	
9				ft (1 m) in height.	in approximately 3
10				Mandy Minn All was do vine a man	عاما عمد ملا
11				Woody Vine – All woody vines, rega	ardiess of neight.
		=Total Cover			
	55 20%	of total cover:	22		
Woody Vine Stratum (Plot size: 30)					
1. Smilax glauca	40	Yes	FAC		
2. Lonicera aponica	10	Yes	FACU		
3.					
4.					
5.				Hydrophytic	
	50 :	=Total Cover		Vegetation	
50% of total cover: 2	25 20%	of total cover:	10	_	0
Remarks: (If observed, list morphological adaptation	ns below.)				

SOIL Sampling Point: 12-B

	•	to the dept		ument t x Featu		ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	% realu	Type ¹	Loc ²	Texture	Ren	narks	
								-		
0-6	2.5Y 5/4	95	10YR 5/6	5	<u>C</u>	M	Loamy/Clayey	Distinct redox	concentrations	
-										
					·					
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=		
	ndicators: (Applica	ble to all L						for Problematic Hy	dric Soils ³ :	
Histosol			Thin Dark Su					luck (A9) (LRR O)		
	ipedon (A2)		Barrier Islan			12)		luck (A10) (LRR S)		
Black His	` ,		(MLRA 15		,	DD 0)		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	-		.RR ()	•	ide MLRA 150A)		
	Layers (A5)	T 11\	Loamy Gleye		` '			ed Vertic (F18)	(AD)	
	Bodies (A6) (LRR P, cky Mineral (A7) (LR		Depleted Ma				,	ide MLRA 150A, 15 ont Floodplain Soils	,	
	esence (A8) (LRR U)	•	Depleted Da					lous Bright Floodpla		
	ck (A9) (LRR P, T)		Redox Depre					2A 153B)	11 00113 (1 20)	
	Below Dark Surface	(A11)	Marl (F10) (I		()		•	rent Material (F21)		
	k Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Very Shallow Dark Surface (F22)						(F22)			
Coast Pr	airie Redox (A16) (M	LRA 150A								
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier	Islands Low Chroma	a Matrix (TS7)	
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (MLRA 15	51)	(MLR	A 153B, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 1	50B)Other (Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Fle	oodplair	n Soils (F	19) (MLR	RA 149A)			
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous I	Bright F	loodplain	Soils (F2				
	e Below Surface (S8))	(MLRA 14				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallov		,			and hydrology must	-	
			(MLRA 13	8, 152A	in FL, 1	54)	unles	ss disturbed or prob	ematic.	
	.ayer (if observed):									
Type: 0	Compaction									
Depth (in	ches):	6					Hydric Soil Prese	ent? Yes	NoX	
Remarks:										

Attachment 2.D.1 Page 93 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

	/20/2020		
Applicant/Owner: Dominion Energy Virginia State: VA Sampling Point:	12-C		
Investigator(s): S. Kupiec Section, Township, Range:			
Landform (hillside, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope (%):	1-2		
Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: 36.661679 Long: -77.603881 Datum:			
Soil Map Unit Name: Roanoke loam NWI classification: PFO1A			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X 1	No		
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important feature	es, etc.		
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area			
Hydric Soil Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present?			
Wetland Hydrology Present? Yes X No			
Remarks: Wetland at Flag Z-4.			
Welland at Flag 2-4.			
HYDROLOGY			
Wetland Hydrology Indicators: Secondary Indicators (minimum of two rec	quired)		
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)	<u> </u>		
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) X Oxidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)			
Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)			
Drift Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4) Thin Muck Surface (C7) X Geomorphic Position (D2)			
Iron Deposits (B5)Other (Explain in Remarks)Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)X FAC-Neutral Test (D5)			
X Water-Stained Leaves (B9) Sphagnum Moss (D8) (LRR T, U)			
Field Observations:			
Surface Water Present? Yes No X Depth (inches):			
Water Table Present? Yes No X Depth (inches):			
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No X	No		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Normano.			

				Page 9	4 01 230
/EGETATION (Five Strata) – Use scientif			la Pastan	Sampling Point:	12-C
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
				That Are OBL, I ACW, of I AC.	(A)
4				Total Number of Dominant	2 (D)
4				Species Across All Strata:	3 (B)
5.				Percent of Dominant Species	00.70/ ///D
6		Tatal Cause			66.7% (A/B)
500/ (1/1)		=Total Cover		Prevalence Index worksheet:	10. 1
50% of total cover:	20%	of total cover:			ultiply by:
Sapling Stratum (Plot size:30)				OBL species 45 x 1 =	
1				FACW species 20 x 2 =	
2				FAC species 0 x 3 =	
3				FACU species 5 x 4 =	
4.				UPL species 0 x 5 =	0
5				Column Totals: 70 (A)	105(B)
6				Prevalence Index = B/A =	1.50
		=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic Ve	getation
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%	
1				X 3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetati	on ¹ (Explain)
3.					
4.					
5.				¹ Indicators of hydric soil and wetland h	nydrology muet k
6.				present, unless disturbed or problema	
		=Total Cover		Definitions of Five Vegetation Strate	a:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wood	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in h	
1. Juncus effusus	45	Yes	OBL	(7.6 cm) or larger in diameter at breas	t height (DBH).
2. upatorium spp	25	Yes		Sapling – Woody plants, excluding we	oody vines
3. Dichanthelium scoparium	20	Yes	FACW	approximately 20 ft (6 m) or more in h	
4. mbrosia artemisiifolia	5	No	FACU	than 3 in. (7.6 cm) DBH.	o .
5.		110	17.00	Shrub - Woody Plants, excluding woo	ndy vines
6.				approximately 3 to 20 ft (1 to 6 m) in h	
7.				Herb – All herbaceous (non-woody) p	lante including
8.				herbaceous vines, regardless of size,	
9.				plants, except woody vines, less than	
10.				ft (1 m) in height.	
11.				Woody Vine – All woody vines, regard	dless of height.
· ··	95	=Total Cover			
50% of total cover: 4		of total cover:	19		
	20/0	or total cover.	19		
Woody Vine Stratum (Plot size: 30)					
1.					
2					
3					
4					
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	20%	of total cover:		Present? Yes X No	

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 12-C

Profile Descr Depth	iption: (Describe t Matrix	to the dep		ument ti x Featur		ator or c	onfirm the absence o	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	2.5Y 4/2	70	10YR 3/6	10	С	М	Loamy/Clayey	Prominent redox concentrations	
			10YR 4/6	5	С	PL		Prominent redox concentrations	
			10YR 5/8	15	С	М		Prominent redox concentrations	
4-20	2.5Y 4/2	80	10YR 5/8	20	<u>C</u>	M	Loamy/Clayey	Prominent redox concentrations	
		<u> </u>		_					
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=Matrix.	
=	ndicators: (Applica	ble to all						for Problematic Hydric Soils ³ :	
Histosol (Thin Dark Su	•	, .	-		uck (A9) (LRR O)	
	pedon (A2)		Barrier Islan			12)		uck (A10) (LRR S)	
Black His	` '		(MLRA 15			DD 0)		Prairie Redox (A16)	
	Sulfide (A4)		Loamy Muck	•	, , ,	.RR O)	•	ide MLRA 150A)	
	Layers (A5)	T	Loamy Gley					d Vertic (F18)	
	Bodies (A6) (LRR P,		X Depleted Ma				•	ide MLRA 150A, 150B)	
	cky Mineral (A7) (LR				` '			nt Floodplain Soils (F19) (LRR P, T)	
	sence (A8) (LRR U) :k (A9) (LRR P, T)		Depleted Da					ous Bright Floodplain Soils (F20) A 153B)	
	Below Dark Surface	(A11)	Marl (F10) (I		(10)		•	rent Material (F21)	
	k Surface (A12)	, (, , , , ,	Depleted Oc		1) (MI R	A 151)		nallow Dark Surface (F22)	
	airie Redox (A16) (M	ILRA 150 <i>A</i>						ide MLRA 138, 152A in FL, 154)	
	ucky Mineral (S1) (L		Umbric Surfa		•	, .		Islands Low Chroma Matrix (TS7)	
	eyed Matrix (S4)	,	Delta Ochric					A 153B, 153D)	
Sandy Re			Reduced Ve					Explain in Remarks)	
	Matrix (S6)		Piedmont Fl	,	, .			,	
	ace (S7) (LRR P, S,	, T, U)	Anomalous I						
	Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicate	ors of hydrophytic vegetation and	
(LRR S			Very Shallov				wetland hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.	
Restrictive L	ayer (if observed):								
Type:									
Depth (inc	ches):						Hydric Soil Prese	nt? Yes X No	
Remarks:	<u> </u>								

Attachment 2.D.1 Page 96 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild City	y/County: Greensville	Sampling Date: 7/20/20
Applicant/Owner: Dominion Energy Virgin	nia	State: VA	Sampling Point: 13-A
Investigator(s): S. Kupiec	Section,	, Township, Range:	
Landform (hillside, terrace, etc.): Drainagew		f (concave, convex, none): Concave	Slope (%): 4-6
Subregion (LRR or MLRA): LRR P, MLRA 1:		Long: -77.604614	Datum:
Soil Map Unit Name: Craven clay loam	<u> </u>	NWI classifica	
Are climatic / hydrologic conditions on the site	e typical for this time of year?		explain in Remarks.)
Are Vegetation, Soil, or Hydro			
Are Vegetation, Soil, or Hydro			
			,
SUMMARY OF FINDINGS – Attach	site map snowing sampii	ing point locations, transects, in	nportant reatures, etc.
Hydrophytic Vegetation Present?	Yes X No Is the	he Sampled Area	
Hydric Soil Present?		hin a Wetland? Yes X	No
Wetland Hydrology Present?	Yes X No	·	
Remarks:			
Wetland at Flag AC-5.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is required)	red; check all that apply)	Surface Soil Crac	· · · · · · · · · · · · · · · · · · ·
Surface Water (A1)	Aquatic Fauna (B13)		ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (LRR U)		
Saturation (A3)	Hydrogen Sulfide Odor (C1)		
Water Marks (B1)	X Oxidized Rhizospheres on Li		
Sediment Deposits (B2)	Presence of Reduced Iron (C		
Drift Deposits (B3)	Recent Iron Reduction in Till		e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi	• • • •
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard	
Inundation Visible on Aerial Imagery (B7		X FAC-Neutral Test	t (D5)
Water-Stained Leaves (B9)		Sphagnum Moss	(D8) (LRR T, U)
Field Observations:			
	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previo	ous inspections), if available:	
Remarks:			
Nemarks.			

VEGETATION (Five Strata) - Use scienti	fic names o	of plants.		Sampling Point: 13-A	١
Tron Stratum (Dictaire) 20	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet.	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
					_ (^)
4				Total Number of Dominant Species Across All Strata: 3	(B)
					_(D)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7%	(A/B)
		Total Cover		Prevalence Index worksheet:	_ (/
50% of total cover:		of total cover:		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 5 x 1 = 5	
1.				FACW species 65 x 2 = 130	
2.				FAC species 10 x 3 = 30	
3.				FACU species 0 x 4 = 0	
4.				UPL species 0 x 5 = 0	
5.				Column Totals: 80 (A) 165	(B)
6.				Prevalence Index = B/A = 2.06	
	=	Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%	
1				X 3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Vegetation ¹ (Expla	ain)
3					
4					
5				¹ Indicators of hydric soil and wetland hydrology	must be
6				present, unless disturbed or problematic.	
		Total Cover		Definitions of Five Vegetation Strata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,	0.15
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and (7.6 cm) or larger in diameter at breast height (I	
1. Scleria spp	50	Yes			
2. cnanthemum tenuifolium	30	Yes	FACW	Sapling – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and	
3. upatorium perfoliatum	15	No No	FACW	than 3 in. (7.6 cm) DBH.	1699
4. Dichanthelium scoparium Seterio pumilo	<u>15</u> 5	No No	FACW FAC		
 Setaria pumila hexia mariana 	5	No	FACW	Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.	
7. Ludwigia palustris	5	No	OBL		
8.		110	OBL	Herb – All herbaceous (non-woody) plants, included herbaceous vines, regardless of size, and wood	
0				plants, except woody vines, less than approxima	
10.				ft (1 m) in height.	
11.				Woody Vine - All woody vines, regardless of he	eight.
	125 =	Total Cover			
50% of total cover:		of total cover:	25		
Woody Vine Stratum (Plot size: 30)					
1. Smilax glauca	5	Yes	FAC		
2.					
3.					
4.					
5.				Lludrophytic	
	5 =	Total Cover		Hydrophytic Vegetation	
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No	
Remarks: (If observed, list morphological adaptation	ns below.)			·	

SOIL Sampling Point: 13-A

Depth	Matrix	io ine dep		ument t x Featur		atOr Of C	onfirm the absence o	or maicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 3/2	100					Loamy/Clayey			
4-8	10YR 5/2	80	10YR 4/4	15	С	М	Loamy/Clayey	Distinct redox concentrations		
			10YR 4/6	5	С	PL		Prominent redox concentrations		
8-20	10YR 5/2	80	10YR 4/6	15	С	М	Loamy/Clayey	Prominent redox concentrations		
			7.5YR 4/4	5	<u>C</u>	<u>M</u>		Distinct redox concentrations		
		·								
¹ Type: C=Co	oncentration, D=Depl	etion, RM:	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
	ndicators: (Applica	ble to all						for Problematic Hydric Soils ³ :		
Histosol			Thin Dark S					uck (A9) (LRR O)		
	pipedon (A2)		Barrier Islan	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast F	rairie Redox (A16)		
	n Sulfide (A4)		Loamy Mucl	ky Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
	I Layers (A5)		Loamy Gley				Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	atrix (F3)			(outs	ide MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U))	Depleted Da	ırk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depr	essions	(F8)		(MLR	A 153B)		
X Depleted	Below Dark Surface	(A11)	Marl (F10) (I	_RR U)			Red Pa	rent Material (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	4 151)	Very Sh	Very Shallow Dark Surface (F22)		
Coast Pr	airie Redox (A16) (M	ILRA 150 <i>A</i>	A) Iron-Mangar	nese Ma	sses (F1	2) (LRR (D, P, T) (outs	ide MLRA 138, 152A in FL, 154)		
Sandy M	lucky Mineral (S1) (L	RR O, S)	Umbric Surf	ace (F13	B) (LRR F	P, T, U)	Barrier	Barrier Islands Low Chroma Matrix (TS7)		
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLR	A 153B, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 1	50B)Other (E	Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont FI	oodplair	Soils (F	19) (MLF	2A 149A)			
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous	Bright Fl	oodplain	Soils (F2	20)			
Polyvalu	e Below Surface (S8)	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallov	v Dark S	Surface (F	⁻ 22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.		
Restrictive L	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 7/	/20/20	
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point:	13-B	
Investigator(s): S. Kupiec	Sec	tion, Township, Range:		_		
Landform (hillside, terrace, etc.): Drainage	way Local r	relief (concave, convex,	none): Concave	Slope (%):	4-6	
Subregion (LRR or MLRA): LRR P, MLRA			7.604487	Datum:		
Soil Map Unit Name: Appling-Louisburg cor			NWI classifica			
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)	١	
			ircumstances" present			
Are Vegetation, Soil, or Hydro						
Are Vegetation, Soil, or Hydro			olain any answers in Re			
SUMMARY OF FINDINGS – Attach	n site map showing san	npling point location	ons, transects, in	nportant feature	es, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?		within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland below Flag AC-10.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators		quired)	
Primary Indicators (minimum of one is requ			Surface Soil Crac		(DO)	
Surface Water (A1)	Aquatic Fauna (B13)	D II)	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)			
High Water Table (A2)	Marl Deposits (B15) (LR					
Saturation (A3) Water Marks (B1)	Hydrogen Sulfide Odor (Oxidized Rhizospheres of		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iro	-	Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction in			on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posi		,00)	
Iron Deposits (B5)	Other (Explain in Remark	ks)	Shallow Aquitard	, ,		
Inundation Visible on Aerial Imagery (B		-,	FAC-Neutral Test			
Water-Stained Leaves (B9)	,		Sphagnum Moss	` '		
Field Observations:						
	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):		Hydrology Present?	Yes	No X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pr	revious inspections), if av	vailable:			
Demode						
Remarks:						

Absolute Dominant Indicator % Cover Species? Status

1.

		ent 2.D.1 00 of 230	
Samplin	g Point:	13-E	3
Dominance Test workshee	t:		
Number of Dominant Specie That Are OBL, FACW, or FA		3	(A)
Total Number of Dominant Species Across All Strata:		4	_(B)
Percent of Dominant Species That Are OBL, FACW, or FA		75.0%	(A/B)
Prevalence Index workshe	et:		
Total % Cover of:	N	lultiply by:	
OBL species 0	x 1 =	0	
FACW species 5	x 2 =	10	
FAC species 80	x 3 =	240	
FACU species 45	x 4 =	180	
UPL species 0	x 5 =	0	
Column Totals: 130	(A)	430	(B)
Prevalence Index = E Hydrophytic Vegetation Ind		3.31	
1 - Rapid Test for Hydro X 2 - Dominance Test is > 3 - Prevalence Index is = Problematic Hydrophytic 1 Indicators of hydric soil and present, unless disturbed or Definitions of Five Vegetat Tree – Woody plants, excludapproximately 20 ft (6 m) or (7.6 cm) or larger in diamete Sapling – Woody plants, excludapproximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH. Shrub - Woody Plants, excludapproximately 3 to 20 ft (1 to Herb – All herbaceous (nonherbaceous vines, regardles plants, except woody vines, lft (1 m) in height. Woody Vine – All woody vines.	wetland problemion Stratiling wood more in I adding wood 6 m) in woody) problems of size ess than	hydrology atic. ta: dy vines, height and st height (I woody vines, height and ody vines, height. blants, incl , and wood n approxim	must be 3 in. DBH). s, less uding dy ately 3

Z				That Are OBL, FACVV, or FAC:	3	_ (A)
3				Total Number of Dominant Species Across All Strata:	4	(B)
5.				1 '		_ (-/
6				Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0%	(A/B)
_		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: 30)		_		OBL species 0 x	1 = 0	
1				FACW species 5 x	2 = 10	
2.				FAC species 80 x	3 = 240	
3.				FACU species 45 x	4 = 180	
4.					5 = 0	
5.				Column Totals: 130 (A)	430	(B)
6.				Prevalence Index = B/A =	= 3.31	<u> </u>
		=Total Cover		Hydrophytic Vegetation Indicat	tors:	
50% of total cover:	-	of total cover:		1 - Rapid Test for Hydrophyt		
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	_	
·				3 - Prevalence Index is ≤3.0¹		
2				Problematic Hydrophytic Veg		ain)
3				robicinatio riyuropriyite veg	getation (Exple	4111)
5				¹ Indicators of hydric soil and wetl		must be
6				present, unless disturbed or prob		
		=Total Cover		Definitions of Five Vegetation		
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding		2 in
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more (7.6 cm) or larger in diameter at I		
1. I mus irginicus	40	Yes	FAC	(2. eaete.g (=	,.
2. upatorium rotundifolium	25	Yes	FAC	Sapling – Woody plants, excludi		
3. <u>chillea millefolium</u>	15	No	FACU	approximately 20 ft (6 m) or more than 3 in. (7.6 cm) DBH.	e in height and	less
4. Dichanthelium scoparium	5	No	FACW	than 3 iii. (7.0 cm) DBH.		
5. Lespede a cuneata	5	No	FACU	Shrub - Woody Plants, excluding		
6. runella ulgaris	5	No	FAC	approximately 3 to 20 ft (1 to 6 m	n) in height.	
7				Herb – All herbaceous (non-woo	dy) plants, inclu	uding
8				herbaceous vines, regardless of		
9				plants, except woody vines, less	than approxima	ately 3
10				ft (1 m) in height.		
11				Woody Vine – All woody vines, i	regardless of he	eight.
_	95	=Total Cover				
50% of total cover: 48	20%	of total cover:	19			
Woody Vine Stratum (Plot size: 30)		•				
1. alactia olubilis	25	Yes	FACU			
2. Campsis radicans	10	Yes	FAC			
3.						
4.						
5.						
	35	=Total Cover		Hydrophytic		
50% of total cover: 18		of total cover:	7	Vegetation Present? Yes X	No	
		, or total cover.		163 X		
Remarks: (If observed, list morphological adaptations	pelow.)					

SOIL Sampling Point: 13-B

	ription: (Describe t	o the dept				tor or co	onfirm the absence	of indicators.)	
Depth	Matrix			Featur		12	Tantona		a constant
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	R	emarks
0-6	10YR 3/3	100					Loamy/Clayey		
¹ Type: C=Co	oncentration, D=Deple	etion RM=I	Reduced Matrix M	IS=Mas	ked Sand	Grains	² l ocation:	PL=Pore Lining, N	 Λ=Matrix
	ndicators: (Applical					Orallio.		for Problematic	
Histosol		5.5 to a E	Thin Dark Su			S. T. U)		Muck (A9) (LRR O	•
	ipedon (A2)		Barrier Island	•	, .	-		Muck (A10) (LRR S	
Black His			(MLRA 15		`	,		Prairie Redox (A1	
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)	·
	Layers (A5)		Loamy Gleye				Reduc	ed Vertic (F18)	
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3)			(outs	side MLRA 150A,	150B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedm	ont Floodplain Soi	ls (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anoma	alous Bright Flood	olain Soils (F20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLF	RA 153B)	
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	arent Material (F2	1)
	rk Surface (A12)		Depleted Oc					Shallow Dark Surfa	` '
	airie Redox (A16) (M	•	<u> </u>					side MLRA 138, 1	
	ucky Mineral (S1) (LI	RR O, S)	Umbric Surfa					r Islands Low Chro	ma Matrix (TS7)
	leyed Matrix (S4)		Delta Ochric				,	RA 153B, 153D)	
	edox (S5)		Reduced Ver	,	, .			(Explain in Remar	ks)
	Matrix (S6)	T 11)	Piedmont Flo						
	face (S7) (LRR P, S,		Anomalous E	-		Solis (F2	· _		
	e Below Surface (S8))	(MLRA 14)			22)		tors of hydrophytic	ŭ
(LKK S	S, T, U)		Very Shallow (MLRA 13)					ess disturbed or pr	
Doctrictive	aver (if about ad).		(IVILITA 13	J, 132A)4)	unie	ss disturbed or pr	obiemanc.
	ayer (if observed): Compaction								
-	·								
Depth (in	iches):	6					Hydric Soil Pres	ent? Yes_	No X
Remarks:									

Attachment 2.D.1 Page 102 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: <u>7/20/2020</u>	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point: 13-C	
Investigator(s): S. Kupiec		ion, Township, Range:		<u> </u>	
Landform (hillside, terrace, etc.): Drainagev	•	elief (concave, convex, nor	ne): Concave	Slope (%): 4-6	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.6	· •	Datum:	
	30.007 107	Long. 177.0			
Soil Map Unit Name: Craven clay loam			NWI classificat		
Are climatic / hydrologic conditions on the site				explain in Remarks.)	
Are Vegetation, Soil, or Hydro			umstances" present		
Are Vegetation, Soil, or Hydro	logy naturally problema	tic? (If needed, explain	n any answers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point location	s, transects, im	nportant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?		within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X	Transa Tranana.		<u></u>	
Remarks:					
Upland above Flag AD-4.					
HYDROLOGY					
Wetland Hydrology Indicators:		Se		(minimum of two required)	
Primary Indicators (minimum of one is requi			_Surface Soil Crac		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRI		Drainage Patterns		
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)		
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres o Presence of Reduced Iro		_ Dry-Season Wate Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction in		_	on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posit		
Iron Deposits (B5)	Other (Explain in Remark	<u>—</u>	Shallow Aquitard	` '	
Inundation Visible on Aerial Imagery (Bi			FAC-Neutral Test		
Water-Stained Leaves (B9)		_	Sphagnum Moss		
Field Observations:			_		
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hyd	drology Present?	Yes No X	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	evious inspections), if avail-	able:		
Domorko					
Remarks:					

VEGETATION (Five Strata) – Use sciel	Absolute	Dominant	Indiante :	Sampling Point: 13-C
<u>Tree Stratum</u> (Plot size:30)	% Cover	Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover	:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)				OBL species 5 x 1 = 5
1.				FACW species 25 x 2 = 50
2	_			FAC species155 x 3 =465
3.				FACU species 30 x 4 = 120
4.				UPL species 0 x 5 = 0
5.				Column Totals: 215 (A) 640 (B)
6.				Prevalence Index = B/A = 2.98
		=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	20%	of total cover		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
S mphoricarpos orbiculatus	20	Yes	FACU	3 - Prevalence Index is ≤3.0 ¹
2.				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
A				
_				The street consists for the street constraint to the street constraint to
5 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·	20	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:		of total cover	: 4	
Herb Stratum (Plot size: 30)		or total cover	· — ·	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. ubus argutus	55	Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
erbesina alternifolia	35	Yes	FAC	Continue Meady plants avaluation was divided
Dichanthelium scoparium	25	No	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
upatorium capillifolium	5	No	FACU	than 3 in. (7.6 cm) DBH.
5. chillea millefolium		No	FACU	Shrub - Woody Plants, excluding woody vines,
6. Juncus effusus		No	OBL	approximately 3 to 20 ft (1 to 6 m) in height.
7.		INU	OBL	
-				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
8	_			plants, except woody vines, less than approximately 3
9.				ft (1 m) in height.
10.				Woody Vine – All woody vines, regardless of height.
11				Woody ville - All woody villes, regardless of fielgrit.
		=Total Cover		
50% of total cover:	65 20%	of total cover	26	
Woody Vine Stratum (Plot size:30)			
1. Smilax bona nox	35	Yes	FAC	
2. <u>itis rotundifolia</u>	25	Yes	FAC	
3. Smilax glauca	5	No	FAC	
4				
5				Hydrophytic
	65	=Total Cover		Vegetation
50% of total cover:	33 20%	of total cover	: 13	Present? Yes X No

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 13-C

	•	to the dept				ator or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type ¹ Loc ²			1002	Toyturo	Remarks		
			Color (Illoist)		Туре	LUC				
0-2	10YR 3/2	100					Loamy/Clayey			
2-20 10YR 3/4 100						Loamy/Clayey				
			<u>.</u>							
	-				·			-		
¹Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=N	latrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :										
Histosol	(A1)	Thin Dark Su	urface (S	S9) (LRR	S, T, U)	1 cm M	1 cm Muck (A9) (LRR O)			
Histic Ep	ipedon (A2)	Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)			
Black His	stic (A3)	(MLRA 15	(MLRA 153B, 153D)				Coast Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Mucky Mineral (F1) (LRR O)				(outside MLRA 150A)			
	Layers (A5)		Loamy Gleyed Matrix (F2)				Reduced Vertic (F18)			
	Bodies (A6) (LRR P,		Depleted Matrix (F3)				(outside MLRA 150A, 150B)			
	cky Mineral (A7) (LR		Redox Dark Surface (F6)				Piedmont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U)		Depleted Dark Surface (F7)				Anomalous Bright Floodplain Soils (F20) (MLRA 153B)			
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11)				Redox Depressions (F8) Marl (F10) (LRR U)				Red Parent Material (F21)		
	rk Surface (A12)		Depleted Ochric (F11) (MLRA 151)				hallow Dark Surface (F22)		
	airie Redox (A16) (M		Iron-Manganese Masses (F12) (LRR C							
	ucky Mineral (S1) (L		Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)				
	edox (S5)		Reduced Vertic (F18) (MLRA 150A, 150				Other (Explain in Remarks)			
	Matrix (S6)	Piedmont Flo	Piedmont Floodplain Soils (F19) (MLRA 149A)							
	face (S7) (LRR P, S	Anomalous I	Anomalous Bright Floodplain Soils (F20)							
Polyvalue Below Surface (S8)			(MLRA 14	(MLRA 149A, 153C, 153D)				³ Indicators of hydrophytic vegetation and		
(LRR S, T, U)			Very Shallow	Very Shallow Dark Surface (F22)				wetland hydrology must be present,		
			(MLRA 13	(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.		
	ayer (if observed):									
Type:										
Depth (in	ches):		<u> </u>				Hydric Soil Present? Yes No X			
Remarks:										

Attachment 2.D.1 Page 105 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - L	akeview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 7/21/2020
Applicant/Owner: Dominion Energy V	irginia		State: VA	Sampling Point: 14-A
Investigator(s): S. Kupiec	S	ection, Township, Range:		
Landform (hillside, terrace, etc.): Slope	Loca	al relief (concave, convex,	none): Convex	Slope (%): 4-6
Subregion (LRR or MLRA): LRR P, MLRA	A 133A Lat: 36.648795	Long: -	77.607195	Datum:
Soil Map Unit Name: Craven clay loam			NWI classifica	tion: N/A
Are climatic / hydrologic conditions on the	site typical for this time of year	r2 Vaa V		
Are Vegetation , Soil , or Hy	,,		No (If no, e circumstances" present	explain in Remarks.) ? Yes X No
			·	
Are Vegetation, Soil, or Hy	·		plain any answers in Re	
SUMMARY OF FINDINGS – Atta	ch site map showing sa	ampling point locati	ons, transects, im	nportant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes	No_X_
Remarks:				
Upland near Flag AJ-10.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is re	guired; check all that apply)		Surface Soil Crac	·
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)
High Water Table (A2)	Marl Deposits (B15) (I	LRR U)	Drainage Patterns	
Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines (
Water Marks (B1)	Oxidized Rhizosphere	es on Living Roots (C3)	Dry-Season Wate	er Table (C2)
Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows	(C8)
Drift Deposits (B3)	Recent Iron Reduction	n in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C	7)	Geomorphic Posit	tion (D2)
Iron Deposits (B5)	Other (Explain in Rem	narks)	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 X Depth (inches	s):		
Water Table Present? Yes	No X Depth (inches	s):		
Saturation Present? Yes	No X Depth (inches	s): Wetland	Hydrology Present?	Yes No X
(includes capillary fringe)				
Describe Recorded Data (stream gauge,	monitoring well, aerial photos,	previous inspections), if a	vailable:	
Remarks:				

VEGETATION (Five Strata) – Use scien	tific names of p	olants.		Sampling Point: 14-A	
<u>Tree Stratum</u> (Plot size: 30)		ominant species?	Indicator Status	Dominance Test worksheet:	
1. (Piot Size)	% Cover S	pecies?	Status		
2				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (/	A)
2				,	,
4.				Total Number of Dominant Species Across All Strata: 4 (I	B)
5.					,
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
		tal Cover		Prevalence Index worksheet:	
50% of total cover:	20% of t	otal cover:		Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0	
Liriodendron tulipifera	15	Yes	FACU	FACW species 0 x 2 = 0	
2. Li uidambar st raciflua	15	Yes	FAC	FAC species 60 x 3 = 180	_
3.				FACU species 60 x 4 = 240	_
4	<u> </u>			UPL species 0 x 5 = 0	_
5				Column Totals: 120 (A) 420	(B)
6				Prevalence Index = B/A = 3.50	_
	30 =To	tal Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	15 20% of t	otal cover:	6	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:)				2 - Dominance Test is >50%	
1				3 - Prevalence Index is ≤3.0 ¹	
2	<u> </u>			Problematic Hydrophytic Vegetation ¹ (Explain))
3					
4					
5				¹ Indicators of hydric soil and wetland hydrology mu	ust be
6	· —— -			present, unless disturbed or problematic.	
500/ of total answer		tal Cover		Definitions of Five Vegetation Strata:	
50% of total cover: Herb Stratum (Plot size: 30)	20% 01 t	otal cover:		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in	n
1. teridium a uilinum	45	Yes	FACU	(7.6 cm) or larger in diameter at breast height (DBI	
ndropogon irginicus	30	Yes	FAC	Copling Weeds plants evaluding weeds since	
3. ubus argutus	15	No	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and les	SS
4		110	1710	than 3 in. (7.6 cm) DBH.	
5.				Shrub - Woody Plants, excluding woody vines,	
6.				approximately 3 to 20 ft (1 to 6 m) in height.	
7.				Houle All books account (non-unantic) plants includi	
8.				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody	ng
9.				plants, except woody vines, less than approximate	ly 3
10.				ft (1 m) in height.	
11.				Woody Vine - All woody vines, regardless of heig	ıht.
	90 =To	tal Cover			
50% of total cover:	45 20% of t	otal cover:	18		
Woody Vine Stratum (Plot size: 30)					
1.					
2.					
3.					
4.					
5.				Hydrophytic	
	=To	tal Cover		Vegetation	
50% of total cover:	20% of t	otal cover:		Present? Yes No X	
Remarks: (If observed, list morphological adaptati	ons below.)				

SOIL Sampling Point: 14-A

	•	to the dept				itor or co	onfirm the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/2	100	Color (molet)	70	Турс		Sandy	Romano
4-20	10YR 5/4	100					Sandy	
								_
¹Type: C=Coi	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Mas	ked Sand	Grains.	² Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil Ir	ndicators: (Applica	ble to all L	RRs, unless othe	rwise r	noted.)		Indicators fo	or Problematic Hydric Soils ³ :
Histosol (A1)		Thin Dark Su	rface (S	S9) (LRR	S, T, U)	1 cm Mu	ck (A9) (LRR O)
Histic Epi	pedon (A2)		Barrier Island	ls 1 cm	Muck (S	12)	2 cm Mu	ck (A10) (LRR S)
Black His	tic (A3)		(MLRA 153	3B, 153	BD)		Coast Pr	rairie Redox (A16)
	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outsic	de MLRA 150A)
	Layers (A5)		Loamy Gleye					l Vertic (F18)
	Bodies (A6) (LRR P,		Depleted Mar	, ,			`	de MLRA 150A, 150B)
	cky Mineral (A7) (LR		Redox Dark S		, ,			t Floodplain Soils (F19) (LRR P, T)
	sence (A8) (LRR U)		Depleted Dar					ous Bright Floodplain Soils (F20)
	ck (A9) (LRR P, T)	(/////	Redox Depre		(F8)		(MLRA	•
	Below Dark Surface	(A11)	Marl (F10) (L		1) (MI D/	\ 151\		ent Material (F21)
	rk Surface (A12) airie Redox (A16) (M	II DA 150A'	Depleted Och					allow Dark Surface (F22) de MLRA 138, 152A in FL, 154)
	ucky Mineral (S1) (L		Umbric Surfa		•	, .		slands Low Chroma Matrix (TS7)
	eyed Matrix (S4)	KK 0, 3)	Delta Ochric					153B, 153D)
Sandy Re			Reduced Ver					xplain in Remarks)
	Matrix (S6)		Piedmont Flo	,	, .			replant in Frenchisch
	ace (S7) (LRR P, S	, T, U)	Anomalous E					
	Below Surface (S8)		(MLRA 149	-				rs of hydrophytic vegetation and
(LRR S		,	Very Shallow					nd hydrology must be present,
			(MLRA 138	3, 152A	in FL, 15	54)	unless	disturbed or problematic.
Restrictive La	ayer (if observed):							
Type:								
Depth (inc	ches):						Hydric Soil Presen	t? Yes No X
Remarks:								

Attachment 2.D.1 Page 108 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7	/21/20
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	14-B
Investigator(s): S. Kupiec	Secti	ion, Township, Range:		_	
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, no	ne): Convex	Slope (%):	2-4
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.		Datum:	
·	<u> </u>	Long. <u>-77.</u>			
Soil Map Unit Name: Uchee loamy sand			NWI classifica		
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro			cumstances" present	? Yes X I	No
Are Vegetation, Soil, or Hydro	logynaturally problemat	ic? (If needed, expla	in any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, im	nportant feature	es, etc.
Hydrophytic Vegetation Present?		s the Sampled Area			
Hydric Soil Present?		within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No _X				
Remarks:					
Upland at Flag AH-3.					
HYDROLOGY					
Wetland Hydrology Indicators:		S	secondary Indicators	(minimum of two red	quired)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac		<u> </u>
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface	(B8)
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns	s (B10)	
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines ((B16)	
Water Marks (B1)	Oxidized Rhizospheres or	n Living Roots (C3)	Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iron	n (C4)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	Geomorphic Posit	tion (D2)	
Iron Deposits (B5)	Other (Explain in Remark	s)	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B7	')	_	FAC-Neutral Test	` '	
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hy	drology Present?	Yes	Vo X
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	poitoring well porial photos pre	vious inspections) if avoi	ilabla:		
Describe Recorded Data (Stream gauge, mc	milloring well, aerial priolos, pre	evious irispections), ii avai	liable.		
Remarks:					

				Page 109 of 230
EGETATION (Five Strata) – Use scier	ntific names	of plants.		Sampling Point: 14-B
ee Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	_			Number of Dominant Species
	_			That Are OBL, FACW, or FAC: (A)
	_			Total Number of Dominant
				Species Across All Strata: 5 (B)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/E
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
pling Stratum (Plot size:)				OBL species 0 x 1 = 0
Li uidambar st raciflua	40	Yes	FAC	FACW species 30 x 2 = 60
	_			FAC species 80 x 3 = 240
	_			FACU species 10 x 4 = 40
	_			UPL species 45 x 5 = 225
	_			Column Totals: 165 (A) 565 (F
				Prevalence Index = B/A = 3.42
	40	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	20 20%	of total cover:	8	1 - Rapid Test for Hydrophytic Vegetation
rub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
hus copallinum	20	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
				1 a disease of budgie only and westered budgetons and
				¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
	20	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	10 20%	of total cover:	4	Tree – Woody plants, excluding woody vines,
erb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in.
Solidago uncea	25	Yes	UPL	(7.6 cm) or larger in diameter at breast height (DBH).
cnanthemum tenuifolium	25	Yes	FACW	Sapling – Woody plants, excluding woody vines,
ndropogon irginicus	20	Yes	FAC	approximately 20 ft (6 m) or more in height and less
upatorium rotundifolium	15	No	FAC	than 3 in. (7.6 cm) DBH.
teridium a uilinum	10	No	FACU	Shrub - Woody Plants, excluding woody vines,
ubus argutus		No	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
Dichanthelium scoparium	5	No	FACW	Harb All back assess (see one do also to Sachallana
Zioriana romani ecopaniani				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, <u>and</u> woody
	_			plants, except woody vines, less than approximately
	_			ft (1 m) in height.
·	_			Woody Vine – All woody vines, regardless of height.
·	105	=Total Cover		
50% of total cover:		of total cover:	21	
	<u> </u>	on total cover:	21	
oody Vine Stratum (Plot size: 30	1			
	_			
	_			
	_			
	_			
	_			Hydrophytic
		=Total Cover		Vegetation

20% of total cover:

Present?

50% of total cover:

Remarks: (If observed, list morphological adaptations below.)

No

Yes X

SOIL Sampling Point: 14-B

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ıment t < Featui		ator or co	onfirm the absence o	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	narks
0-4	10YR 4/3	100					Loamy/Clayey		
4-20	10YR 5/3	95	10YR 4/6	5	С	М	Loamy/Clayey	Distinct redox concentrations	
¹Type: C=Cc	ncentration, D=Depl	etion RM:	-Reduced Matrix M	IS-Mas	ked San		² l ocation: P	L=Pore Lining, M=	Matrix
	ndicators: (Applica					J Grains.		or Problematic Hy	
Histosol			Thin Dark Su			S, T, U)		ick (A9) (LRR O)	a. 10 00110 1
	ipedon (A2)		Barrier Island					ick (A10) (LRR S)	
Black His			(MLRA 15			•		rairie Redox (A16)	
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outsid	de MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduced	d Vertic (F18)	
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outsid	de MLRA 150A, 15	60B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmon	nt Floodplain Soils	(F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anomalo	ous Bright Floodpla	in Soils (F20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA	A 153B)	
	Below Dark Surface	e (A11)	Marl (F10) (L					ent Material (F21)	
	rk Surface (A12)		Depleted Oc					allow Dark Surface	` ,
	airie Redox (A16) (M				•			de MLRA 138, 152	
	ucky Mineral (S1) (L	RR O, S)	Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)					slands Low Chroma	a Matrix (TS7)
Sandy Gleyed Matrix (S4)								A 153B, 153D)	
	edox (S5)		Reduced Ver					xplain in Remarks)	
	Matrix (S6)	T 11)	Piedmont Flo						
	face (S7) (LRR P, S	•	Anomalous E	•		,	,	rs of hydrophytic v	agatation and
	e Below Surface (S8) S, T, U))	(MLRA 14)						_
(LKK)	3, 1, 0)		Very Shallow (MLRA 13)					nd hydrology must s disturbed or probl	
Restrictive L	_ayer (if observed):			•		•		<u> </u>	
Type:									
Depth (in	iches):						Hydric Soil Preser	nt? Yes	No X
Remarks:									

Attachment 2.D.1 Page 111 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/2	21/20
Applicant/Owner: Dominion Energy Virgir	nia		State: VA	Sampling Point:	15-A
Investigator(s): S. Kupiec	Secti	ion, Township, Range:			
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, nor	ne): Convex	Slope (%):	4-6
Subregion (LRR or MLRA): LRR P, MLRA 13		Long: -77.0	·	Datum:	
	20.047007	Long. 17.0			
Soil Map Unit Name: Roanoke loam			NWI classification		
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)	_
Are Vegetation, Soil, or Hydrol			umstances" present		0
Are Vegetation, Soil, or Hydrol	ogynaturally problemat	ic? (If needed, explai	in any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ıs, transects, im	nportant feature:	s, etc.
Hadronkoffa Vanatatian Barango	V N- V	la Mara Carrerla di Arra			
, , , ,		s the Sampled Area within a Wetland?	Voc	No. Y	
	Yes No X Yes No X	within a wettand?	Yes	No <u>X</u>	
	163 NO X				
Remarks: Upland at Flag AK-4.					
opiana at mag / iit ii					
HYDROLOGY					
Wetland Hydrology Indicators:		Se	econdary Indicators	(minimum of two requ	uired)
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface	(B8)
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns	; (B10)	
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines ((B16)	
Water Marks (B1)	Oxidized Rhizospheres or		Dry-Season Wate		
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C	;9)
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)		Geomorphic Posit	` '	
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remark		Shallow Aquitard FAC-Neutral Test		
Water-Stained Leaves (B9)	,	_	Sphagnum Moss	` ,	
Field Observations:				(20) (2.111 1) (2)	
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hyd	drology Present?	YesN	lo X
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:		
December					
Remarks:					

50% of total cover:

50% of total cover:

30

50% of total cover: 68

<u>Tree Stratum</u> (Plot size: 30)

Sapling Stratum (Plot size: 30)

Li uidambar st raciflua

Shrub Stratum (Plot size: 3

1. S mphoricarpos orbiculatus

Herb Stratum (Plot size:

Solidago altissima

estuca spp

teridium a uilinum

Saccharum giganteum

Dichanthelium scoparium

1.
 2.
 3.
 4.
 6.

3.
 4.
 6.

3. 4. 5. 6.

1.

2.

3.

4.

5.

6. 7. 8. 9.

2.

3.

4.

Absolute

Dominant

=Total Cover

20% of total cover:

15 Yes FAC

15 =Total Cover

5

50% of total cover: 3 20% of total cover: 1

60

30

20

15

10

5

5

10

20% of total cover:

=Total Cover

Yes

Yes

No

No

135 =Total Cover

20 =Total Cover

20% of total cover:

20% of total cover:

Yes

Yes

FACU

FACU

FACW

FACW

FACU

FACU

Hydrophytic

Yes

Vegetation

Present?

% Cover Species?

Indicator

Status

	,		nent 2.D.1 12 of 230	
	Sampling	g Point:	15-A	
Dominance Test v	vorkshee	:		
Number of Domina That Are OBL, FAC			1	(A)
Total Number of Do Species Across All			7	_(B)
Percent of Dominal That Are OBL, FAC			14.3%	_(A/B)
Prevalence Index				
Total % Cove			Multiply by:	
OBL species	0	x 1 =		
FACW species	30	x 2 =		
FAC species	15	x 3 =	· <u>45</u>	
FACU species	110	x 4 =		
UPL species	5	x 5 =	= 25	
Column Totals:	160	(A)	570	(B)
Prevalence	Index = B	/A = _	3.56	
3 - Prevalence Problematic Hy Indicators of hydric present, unless dis	drophytic	Vegeta	d hydrology	
Definitions of Five	e Vegetati	on Stra	ata:	
Tree – Woody plan approximately 20 ft (7.6 cm) or larger in	: (6 m) or r n diametei	nore in at brea	height and ast height (E	DBH).
Sapling – Woody papproximately 20 ft than 3 in. (7.6 cm)	(6 m) or r			
Shrub - Woody Pla approximately 3 to		-	-	
Herb – All herbace herbaceous vines, plants, except wood ft (1 m) in height.	regardless	of size	e, <u>and</u> wood	у
Woody Vine – All v	woody vin	es, rega	ardless of he	eight.

Remarks: (If observed, list morphological adaptations belo	w.
--	----

50% of total cover:

Woody Vine Stratum (Plot size: 30)

alactia olubilis

assiflora incarnata

arthenocissus uin uefolia

No X

SOIL Sampling Point: 15-A

	•	to the dept				ator or co	onfirm the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	100	Color (moist)	70	Турс	LOC	Loamy/Clayey	Remarks
6-20	10YR 5/4	100	_				Loamy/Clayey	
			_					
	oncentration, D=Depl					d Grains.		PL=Pore Lining, M=Matrix.
=	Indicators: (Applica	ble to all L				C T II)		for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Thin Dark Su Barrier Island					uck (A9) (LRR O) uck (A10) (LRR S)
Black His			(MLRA 153			12)		Prairie Redox (A16)
	n Sulfide (A4)		Loamy Mucky			RR O)		ide MLRA 150A)
	Layers (A5)		Loamy Gleye				•	d Vertic (F18)
	Bodies (A6) (LRR P,	T, U)	Depleted Mat					ide MLRA 150A, 150B)
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ice (F7)		Anomal	ous Bright Floodplain Soils (F20)
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLR	A 153B)
	Below Dark Surface	e (A11)	Marl (F10) (L					rent Material (F21)
	ark Surface (A12)		Depleted Och				 '	allow Dark Surface (F22)
	rairie Redox (A16) (M				•	, .	,	ide MLRA 138, 152A in FL, 154)
	lucky Mineral (S1) (L	RR U, S)	Umbric Surfa					slands Low Chroma Matrix (TS7)
	edox (S5)		Delta Ochric Reduced Ver					A 153B, 153D) Explain in Remarks)
	Matrix (S6)		Piedmont Flo	•	, .		· — `	Explain in Nemarks)
	rface (S7) (LRR P, S,	. T. U)	Anomalous E					
	e Below Surface (S8)		(MLRA 149	-			· _	ors of hydrophytic vegetation and
	S, T, U)	,	Very Shallow					nd hydrology must be present,
			(MLRA 138	3, 152A	in FL, 1!	54)	unles	s disturbed or problematic.
Restrictive L	_ayer (if observed):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes No X
Remarks:								

Attachment 2.D.1 Page 114 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville	е	Sampling Date: 7	/21/2020
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	15-B
Investigator(s): S. Kupiec	Se	ction, Township, Range:			
Landform (hillside, terrace, etc.): Slope		relief (concave, convex, n	none): Convex	Slope (%):	2-4
Subregion (LRR or MLRA): LRR P, MLRA 1			7.607452	Datum:	
·	30.047323	Long. 4			
Soil Map Unit Name: Roanoke loam			NWI classifica		
Are climatic / hydrologic conditions on the site				explain in Remarks.)	
Are Vegetation, Soil, or Hydro	logysignificantly distu	rbed? Are "Normal Ci	rcumstances" present	t? Yes X	No
Are Vegetation, Soil, or Hydro	logynaturally problem	atic? (If needed, exp	lain any answers in R	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sa	mpling point location	ons, transects, in	nportant feature	es, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No				
Remarks: Wetland at Structure 254/46.					
HYDROLOGY					
			Canadam Indiantam	(mainimas of tops may	in
Wetland Hydrology Indicators:	rad: aback all that apply)		Secondary Indicators		<u>quirea)</u>
Primary Indicators (minimum of one is requi Surface Water (A1)	Aquatic Fauna (B13)		Surface Soil Crac	ted Concave Surface	(B8)
High Water Table (A2)	Marl Deposits (B15) (LF	RR U)	Drainage Pattern		(50)
Saturation (A3)	Hydrogen Sulfide Odor	-	Moss Trim Lines		
Water Marks (B1)	X Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·	Dry-Season Wate		
Sediment Deposits (B2)	Presence of Reduced In	-	Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction i	in Tilled Soils (C6)	Saturation Visible	e on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7))	Geomorphic Posi	ition (D2)	
Iron Deposits (B5)	Other (Explain in Rema	rks)	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B	7)	-	X FAC-Neutral Test	` ,	
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches)				
Water Table Present? Yes	No X Depth (inches)		hudua la aut Dua a aut?	Vac V I	Na
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches)	: welland H	lydrology Present?	Yes X	NO
Describe Recorded Data (stream gauge, mo	onitoring well aerial photos in	revious inspections) if av	ailahle		
Describe Resoluted Data (Stream gauge, me	Thirding Woll, delial photos, p	nevious inspessions), ii av	andore.		
Remarks:					

VEGETATION (Five Strata) - Use scien	tific names	of plants.		Sampling Point:	: <u>15-B</u>
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	5 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	80.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	= 0
1. Li uidambar st raciflua	15	Yes	FAC	FACW species 85 x 2 =	= 170
2. Inus serrulata	15	Yes	FACW	FAC species 30 x 3 =	= 90
3.				FACU species 15 x 4 =	= 60
4				UPL species 0 x 5 =	= 0
5				Column Totals: 130 (A)	320 (B)
6.				Prevalence Index = B/A =	2.46
	30	=Total Cover		Hydrophytic Vegetation Indicators	S:
50% of total cover:	15 20%	of total cover:	6	1 - Rapid Test for Hydrophytic V	/egetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	
1. accinium stamineum	15	Yes	FACU	X 3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegeta	ation ¹ (Explain)
-					
4.	· ——				
5.				1	
6.				¹ Indicators of hydric soil and wetland present, unless disturbed or problem	
o	15	=Total Cover			
F00/ of total acres			0	Definitions of Five Vegetation Stra	
50% of total cover:	8 20%	of total cover:	3	Tree – Woody plants, excluding woo approximately 20 ft (6 m) or more in	
Herb Stratum (Plot size: 30)			= 4 0 14 /	(7.6 cm) or larger in diameter at brea	
1. h nchospora inexpansa	35	Yes	FACW		,
2. Dichanthelium scoparium	30	Yes	FACW	Sapling – Woody plants, excluding	
3. upatorium rotundifolium	15	No	FAC	approximately 20 ft (6 m) or more in than 3 in. (7.6 cm) DBH.	height and less
4. hexia mariana	5	No	FACW		
5				Shrub - Woody Plants, excluding we	•
6				approximately 3 to 20 ft (1 to 6 m) in	i height.
7				Herb – All herbaceous (non-woody)	plants, including
8.				herbaceous vines, regardless of size	
9				plants, except woody vines, less tha	n approximately 3
10				ft (1 m) in height.	
11				Woody Vine – All woody vines, rega	ardless of height.
	85	=Total Cover			
50% of total cover:	43 20%	of total cover:	17		
Woody Vine Stratum (Plot size: 30)					
4					
3					
3.	· ——				
4.					
5	. <u></u>			Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	20%	of total cover:		Present? Yes X N	0
Remarks: (If observed, list morphological adaptati	ons below.)				

SOIL Sampling Point: 15-B

	•	to the dep				ator or c	onfirm the absence o	of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks		
0-2	10YR 3/2	100	Color (moist)		Туре		Loamy/Clayey	Nemaro		
2-8	10YR 4/2	85	10YR 4/6	10	С	M	Loamy/Clayey	Prominent redox concentrations		
			10YR 3/6	5	С	PL		Prominent redox concentrations		
8-20	10YR 5/2	80	10YR 5/8	20	С	М	Loamy/Clayey	Prominent redox concentrations		
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil II	ndicators: (Applica	ble to all I	_RRs, unless othe	erwise n	noted.)		Indicators f	for Problematic Hydric Soils ³ :		
Histosol ((A1)		Thin Dark Su	urface (S	89) (LRR	S, T, U)	1 cm M	uck (A9) (LRR O)		
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
Hydroger	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic E	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	ide MLRA 150A, 150B)		
	cky Mineral (A7) (LR		Redox Dark				Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Da		` '			ous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)		Redox Depre					A 153B)		
	Below Dark Surface	(A11)	Marl (F10) (L		()		,	rent Material (F21)		
	rk Surface (A12)	, (, (, , , ,	Depleted Oc		1) (MI RA	151)		allow Dark Surface (F22)		
	airie Redox (A16) (M	II DA 150A						ide MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (L				•					
	. , , .	KK (), (3)	Umbric Surfa					Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)		Delta Ochric					A 153B, 153D)		
	edox (S5)		Reduced Ve	•	, .			Explain in Remarks)		
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S,		Anomalous E	-		,	,			
	e Below Surface (S8))	(MLRA 14					ors of hydrophytic vegetation and		
(LRR S	S, T, U)		Very Shallow	Very Shallow Dark Surface (F22)				wetland hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1
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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild City/Cour	nty: Greensville	Sampling Date: 7/21/20		
Applicant/Owner: Dominion Energy Virgir		State: VA	Sampling Point: 16-A		
Investigator(s): S. Kupiec	Section, Town	ship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): Slope		cave, convex, none): Convex	Slope (%): 2-4		
Subregion (LRR or MLRA): LRR P, MLRA 13		Long: -77.609424	Datum:		
Soil Map Unit Name: Fluvanna-Mattaponi coi		NWI classifica			
Are climatic / hydrologic conditions on the site					
			explain in Remarks.)		
Are Vegetation, Soil, or Hydrol		Are "Normal Circumstances" present			
Are Vegetation, Soil, or Hydrol	ogynaturally problematic? ((If needed, explain any answers in R	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sampling p	oint locations, transects, ir	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X Is the Sar	mpled Area			
	Yes No X within a V		No X		
	Yes No X				
Remarks:					
Upland above Flag AL-6.					
HYDROLOGY					
Wetland Hydrology Indicators:		·	(minimum of two required)		
Primary Indicators (minimum of one is requir		Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)		ted Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10)		
Saturation (A3)	Hydrogen Sulfide Odor (C1) Ovidized Phizospheres on Living P		Moss Trim Lines (B16)		
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4)	g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soi		e on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Geomorphic Posi			
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard			
Inundation Visible on Aerial Imagery (B7		FAC-Neutral Tes	, ,		
Water-Stained Leaves (B9)	,	Sphagnum Moss			
Field Observations:		_			
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present?	Yes No X		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous ins	pections), if available:			
Remarks:					
Remarks.					

VEGETATION (FIVE Strata) – Use scienti				Sampling Point:	16-A
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	2 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of: Mu	ultiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	0
1				FACW species 0 x 2 =	0
2				FAC species 0 x 3 =	0
3.				FACU species 65 x 4 =	260
4				UPL species 0 x 5 =	0
5				Column Totals: 65 (A)	260 (B)
6.				Prevalence Index = B/A =	4.00
		=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic Ve	getation
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%	
1				3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetati	on ¹ (Explain)
3					
4.					
5.				¹ Indicators of hydric soil and wetland h	nvdrology must be
6.				present, unless disturbed or problema	
		=Total Cover		Definitions of Five Vegetation Strate	a:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wood	y vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in h	
1. ol premum procumbens	40	Yes	FACU	(7.6 cm) or larger in diameter at breas	t height (DBH).
2. rigeron annuus	15	Yes	FACU	Sapling – Woody plants, excluding we	oody vines,
3. upatorium capillifolium	5	No	FACU	approximately 20 ft (6 m) or more in h	
4. araxacum officinale	5	No	FACU	than 3 in. (7.6 cm) DBH.	
5.				Shrub - Woody Plants, excluding woo	
6				approximately 3 to 20 ft (1 to 6 m) in h	ieight.
7				Herb – All herbaceous (non-woody) p	lants, including
8				herbaceous vines, regardless of size,	
9				plants, except woody vines, less than ft (1 m) in height.	approximately 3
10					
11				Woody Vine – All woody vines, regard	dless of height.
	65	=Total Cover			
	3 20%	of total cover:	13		
Woody Vine Stratum (Plot size:)					
1					
2					
3					
4					
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	20%	of total cover:			X
Remarks: (If observed, list morphological adaptatio	ns below.)				

SOIL Sampling Point: 16-A

	ription: (Describe t	to the depth				itor or co	onfirm the absence	e of indicators	s.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	k Featur	res Type ¹	Loc ²	Texture		Remarks
(Inches)	Color (moist)	70	Color (moist)	70	туре	LUC	rexture	_	Remarks
0-8	10YR 4/4	100					Sandy	_	
								_	
								_	_
								<u> </u>	
								_	
¹ Type: C=Co	ncentration, D=Depl	etion, RM=F	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lini	ng, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all LI	RRs, unless othe	rwise r	noted.)		Indicators	s for Problema	atic Hydric Soils³:
Histosol	(A1)		Thin Dark Su	ırface (S	S9) (LRR	S, T, U)	1 cm	Muck (A9) (LR	R O)
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm	Muck (A10) (LI	RR S)
Black His	stic (A3)		(MLRA 15	3B, 153	BD)		Coast	t Prairie Redox	(A16)
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(ou	tside MLRA 15	50A)
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)			ced Vertic (F18	
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(ou	tside MLRA 15	50A, 150B)
	cky Mineral (A7) (LR	•	Redox Dark						Soils (F19) (LRR P, T)
	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)	(8.4.4)	Redox Depre		(F8)		•	RA 153B)	(504)
	Below Dark Surface	e (A11)	Marl (F10) (L		4) (14) 54	454)		Parent Material	
	rk Surface (A12)	U DA 450A)		Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR 0				Shallow Dark S	
	airie Redox (A16) (M				•	, .			38, 152A in FL, 154)
	ucky Mineral (S1) (L	KK (), (3)	Umbric Surfa					RA 153B, 153	Chroma Matrix (TS7)
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ve				•	(Explain in Re	,
	Matrix (S6)		Piedmont Flo					(Explain in ite	marks)
	face (S7) (LRR P, S,	T II)	Anomalous E						
	e Below Surface (S8)	-	(MLRA 14	_		00110 (1 2		ators of hydron	hytic vegetation and
	S, T, U)	,	Very Shallow			22)		, ,	must be present,
•	, , , ,		(MLRA 13					ess disturbed of	
Restrictive L	ayer (if observed):								•
Type: (Compaction								
Depth (in		8					Hydric Soil Pres	sent? Y	es No_X_
Remarks:							,		
rtomanto.									

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 7/2	21/2020	
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point:	16-B	
Investigator(s): S. Kupiec	Se	ction, Township, Range:		_		
Landform (hillside, terrace, etc.): Slope	Local	relief (concave, convex,	none): Convex	Slope (%):	1-2	
Subregion (LRR or MLRA): LRR P, MLRA 1			7.610041	Datum:		
Soil Map Unit Name: Woodington fine sandy			NWI classifica			
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)		
			ircumstances" present		lo	
Are Vegetation, Soil, or Hydro			•			
Are Vegetation, Soil, or Hydro			olain any answers in Re			
SUMMARY OF FINDINGS – Attach	site map showing sa	mpling point location	ons, transects, in	nportant features	s, etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area				
Hydric Soil Present?	Yes X No	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X			<u> </u>		
Remarks:	•					
Upland at Flag AP-4.						
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators		<u>uired)</u>	
Primary Indicators (minimum of one is requi			Surface Soil Crac		(DO)	
Surface Water (A1)	Aquatic Fauna (B13)	אר חו		ed Concave Surface	(B8)	
High Water Table (A2) Saturation (A3)	Marl Deposits (B15) (LF Hydrogen Sulfide Odor		Drainage Patterns (B10)			
Water Marks (B1)	Oxidized Rhizospheres		Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced I					
Drift Deposits (B3)	Recent Iron Reduction					
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posi		/	
Iron Deposits (B5)	Other (Explain in Rema	,	Shallow Aquitard	, ,		
Inundation Visible on Aerial Imagery (B		,	FAC-Neutral Test			
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches)	:				
Water Table Present? Yes	No X Depth (inches)	:				
Saturation Present? Yes	No X Depth (inches)	: Wetland I	Hydrology Present?	Yes N	o X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	previous inspections), if av	vailable:			
Remarks:						
Nomans.						

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

'EGETATION (Five Strata) – Use scien	tific names o	of plants.		Sampling Point:	: <u>16-B</u>	3
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1				Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
3. 4.				Total Number of Dominant Species Across All Strata:	1	_ (B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0.0%	(A/B)
	=	=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:)				OBL species 0 x 1 =	= 0	
1	_			FACW species 0 x 2 =	= 0	
2.				FAC species 0 x 3 =	= 0	
3.				FACU species 0 x 4 =	= 0	_
4.	•			UPL species 50 x 5 =	= 250	_
 5.	-			Column Totals: 50 (A)	250	<u> </u> (В
6.	-			Prevalence Index = B/A =	5.00	— `
o		=Total Cover		Hydrophytic Vegetation Indicators		
E00/ of total cover:				, , ,		
50% of total cover:	ZU /0	of total cover:		1 - Rapid Test for Hydrophytic V	/egetauon	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%		
1				3 - Prevalence Index is ≤3.0 ¹		
2				Problematic Hydrophytic Vegeta	ation ¹ (Expla	ain)
3.						
4.						
5				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unidealogy	
6.	-			¹ Indicators of hydric soil and wetland present, unless disturbed or problem		Musi
o	-	=Total Cover		Definitions of Five Vegetation Stra		
FOOY of total covers						
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woo		1_
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at brea		
1. I cine max	50	Yes	UPL	(7.0 CIII) Of larger in diameter at 5.55	35t neignt 12	יו וסע.
2				Sapling – Woody plants, excluding	woody vines	s,
3.				approximately 20 ft (6 m) or more in	•	
4.				than 3 in. (7.6 cm) DBH.		
5.	-			Shrub - Woody Plants, excluding wo	andv vines,	
6.	-			approximately 3 to 20 ft (1 to 6 m) in		
-						
7				Herb – All herbaceous (non-woody)		
8.				herbaceous vines, regardless of size plants, except woody vines, less tha		
9				ft (1 m) in height.	Παμριολιιιις	albiy
10						2.4
11				Woody Vine – All woody vines, rega	ardless of he	eight.
	50 =	=Total Cover				
50% of total cover:		of total cover:	10			
Woody Vine Stratum (Plot size: 30)						
1						
2						
2.						
3						
4						
5				Undrophytic		
	•	=Total Cover		Hydrophytic Vegetation		
		-		Vegetation		
50% of total cover:	20%	of total cover:		Present? Yes No	οΧ	

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SOIL Sampling Point: 16-B

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ıment t k Featur		ator or co	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 4/1	95	10YR 4/6	5	С	PL	Loamy/Clayey	Prominent redox concentrations		
6-20	2.5Y 5/3	95	10YR 4/6	5	С	М	Loamy/Clayey	Prominent redox concentrations		
				_						
		_				_				
¹ Type: C=Co	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applica	ble to all	LRRs, unless other	rwise r	noted.)			or Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm Mi	uck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island			12)	2 cm Mi	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	de MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	de MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U))	Depleted Da	rk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Par	rent Material (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	Depleted Ochric (F11) (MLRA 151)				allow Dark Surface (F22)		
Coast Pr	airie Redox (A16) (M	ILRA 150	A) Iron-Mangan	ese Ma	sses (F1	2) (LRR (), P, T) (outsi	de MLRA 138, 152A in FL, 154)		
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa	ace (F13	B) (LRR F	P, T, U)	Barrier I	slands Low Chroma Matrix (TS7)		
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLR	A 153B, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 15	50B)Other (E	Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	odplair	Soils (F	19) (MLR	A 149A)			
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	0)			
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicate	ors of hydrophytic vegetation and		
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	⁻ 22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: <u>7/21/2020</u>		
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 16-C		
Investigator(s): S. Kupiec	Sec	tion, Township, Range:				
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, no	ne): Convex	Slope (%): 1-2		
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.		Datum:		
		Long77.				
Soil Map Unit Name: Woodington fine sand			NWI classificat			
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			cumstances" present			
Are Vegetation, Soil, or Hydro	logynaturally problema	itic? (If needed, expla	in any answers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach	ı site map showing sam	npling point location	ns, transects, im	nportant features, etc.		
Hydrophytic Vegetation Present?		Is the Sampled Area	Voc. V	No		
Hydric Soil Present? Wetland Hydrology Present?	Yes X No	within a Wetland?	Yes X	No		
	res A NO					
Remarks: Wetland at Flag AP-4.						
Wolland at Flag / II						
HYDROLOGY						
Wetland Hydrology Indicators:		S	secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres of	on Living Roots (C3)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)		on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posit			
Iron Deposits (B5)	Other (Explain in Remark	_	Shallow Aquitard (X FAC-Neutral Test			
Inundation Visible on Aerial Imagery (B'X Water-Stained Leaves (B9)	1)		Sphagnum Moss			
Field Observations:			Opnagnam woss	(DO) (ERRY 1, O)		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):		drology Present?	Yes X No		
(includes capillary fringe)			0,3			
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if avai	ilable:			
Remarks:						

VEGETATION (Five Strata) - Use scient	ific names	of plants.		Sampling Point	: 16-C
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
3				_	(\(\alpha\)
4.				Total Number of Dominant Species Across All Strata:	5 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
	:	=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species x 1 =	= 20
1. etula nigra	10	Yes	FACW	FACW species 35 x 2 =	= 70
2. Li uidambar st raciflua	5	Yes	FAC	<u> </u>	= 120
3. ssa s I atica	5	Yes	FAC	FACU species 0 x 4 =	= 0
4				UPL species 0 x 5 =	= 0
5				Column Totals: 95 (A)	210 (B)
6				Prevalence Index = B/A =	2.21
	20 :	=Total Cover		Hydrophytic Vegetation Indicators	s:
50% of total cover:	10 20%	of total cover:	4	1 - Rapid Test for Hydrophytic \	/egetation
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%	
1.				X 3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegeta	ation ¹ (Explain)
3.		·			
4.					
5.				¹ Indicators of hydric soil and wetland	d hydrology must be
6.				present, unless disturbed or problem	, ,,
		=Total Cover		Definitions of Five Vegetation Str	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woo	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in	
1. Solidago rugosa	30	Yes	FAC	(7.6 cm) or larger in diameter at bre	ast height (DBH).
2. Juncus effusus	15	Yes	OBL	Sapling – Woody plants, excluding	woody vines
Saccharum giganteum	10	No	FACW	approximately 20 ft (6 m) or more in	•
4. Dichanthelium scoparium	10	No	FACW	than 3 in. (7.6 cm) DBH.	-
5. cnanthemum tenuifolium	5	No	FACW	Shrub - Woody Plants, excluding w	oody vines.
6. Ludwigia palustris	5	No	OBL	approximately 3 to 20 ft (1 to 6 m) in	
7				Herb – All herbaceous (non-woody)	plants, including
8.				herbaceous vines, regardless of size	
9.				plants, except woody vines, less that	ın approximately 3
10.				ft (1 m) in height.	
11.				Woody Vine - All woody vines, reg	ardless of height.
	75	=Total Cover			
50% of total cover:	38 20%	of total cover:	15		
Woody Vine Stratum (Plot size: 30)					
1.					
2		-			
3.					
4.					
· .					
5		Tatal Corre		Hydrophytic	
500/ (· · · ·		=Total Cover		Vegetation	I-
50% of total cover:		of total cover:		Present? Yes X N	o
Remarks: (If observed, list morphological adaptation	ons below.)				

SOIL Sampling Point: 16-C

Profile Desc	ription: (Describe t	o the dep	th needed to docu	ıment tl	ne indica	ator or c	onfirm the absence o	f indicators.)	
Depth	Matrix		Redox	(Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR 4/1	80	10YR 5/4	15	С	M	Loamy/Clayey	Distinct redox concentrations	
			10YR 4/4	5	С	PL		Distinct redox concentrations	
6-20	10YR 5/2	85	10YR 5/6	15	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations	
¹ Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location: F	L=Pore Lining, M=Matrix.	
	Indicators: (Applicat							or Problematic Hydric Soils ³ :	
Histosol	(A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm Mu	uck (A9) (LRR O)	
Histic Ep	pipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mu	ıck (A10) (LRR S)	
Black Hi	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)	
Hydroge	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outsi	de MLRA 150A)	
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduce	d Vertic (F18)	
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	de MLRA 150A, 150B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmoi	nt Floodplain Soils (F19) (LRR P, T)	
Muck Pr	esence (A8) (LRR U)		Depleted Dai	rk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)	
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLR	A 153B)	
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Par	ent Material (F21)	
Thick Da	ark Surface (A12)		Depleted Ocl	hric (F1	1) (MLRA	A 151)	Very Sh	allow Dark Surface (F22)	
Coast Pr	rairie Redox (A16) (M	LRA 150A) Iron-Mangan	ese Mas	sses (F12	2) (LRR (O, P, T) (outside MLRA 138, 152A in FL, 154)		
Sandy M	lucky Mineral (S1) (Li	RR O, S)	Umbric Surfa	ce (F13) (LRR F	P, T, U)	Barrier I	slands Low Chroma Matrix (TS7)	
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	ЛLRA 15	1)	(MLR	A 153B, 153D)	
Sandy R	edox (S5)		Reduced Ver	tic (F18) (MLRA	150A, 1	50B) Other (E	explain in Remarks)	
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLF	A 149A)		
Dark Sui	rface (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	oodplain	Soils (F2	20)		
Polyvalu	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicate	ors of hydrophytic vegetation and	
	S, T, U)			Very Shallow Dark Surface (F22)			wetland hydrology must be present,		
-			(MLRA 13	8, 152A	in FL, 1	54)		s disturbed or problematic.	
Restrictive I	_ayer (if observed):							i	
Type:									
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No	
Remarks:									

Attachment 2.D.1 Page 126 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: <u>7/21/2020</u>			
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 17-A			
Investigator(s): S. Kupiec		tion, Township, Range:		<u> </u>			
Landform (hillside, terrace, etc.): Drainagev		relief (concave, convex, no	ne): Concave	Slope (%): 0-1			
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.	· -	Datum:			
		Long. 177.					
Soil Map Unit Name: Woodington fine sandy			NWI classificat				
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)			
Are Vegetation, Soil, or Hydro			cumstances" present				
Are Vegetation, Soil, or Hydro	logy naturally problema	atic? (If needed, expla	in any answers in Re	emarks.)			
SUMMARY OF FINDINGS - Attach	ı site map showing san	npling point locatior	ns, transects, im	portant features, etc.			
	V V N						
Hydrophytic Vegetation Present?	Yes X No No	Is the Sampled Area	V V	Ne			
Hydric Soil Present? Wetland Hydrology Present?	Yes X No No	within a Wetland?	Yes X	No			
	resXNO						
Remarks: Wetland near Structure 254-45.							
Wolland Hoar Chaotaro 20 1 16.							
HYDROLOGY							
Wetland Hydrology Indicators:		S	secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requi	ired; check all that apply)		Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface (B8)			
High Water Table (A2)	Marl Deposits (B15) (LR	R U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor ((C1)	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres of	on Living Roots (C3)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iro		Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction in	n Tilled Soils (C6)		on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posit				
Iron Deposits (B5)	Other (Explain in Remar		Shallow Aquitard (X FAC-Neutral Test				
Inundation Visible on Aerial Imagery (B'X Water-Stained Leaves (B9)	1)		Sphagnum Moss				
Field Observations:			Opnagnam woss	(00) (ERR 1, 0)			
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No X Depth (inches):		drology Present?	Yes X No			
(includes capillary fringe)			33				
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	revious inspections), if avai	ilable:				
Remarks:							

VEGETATION (Five Strata) - Use scien	tific names	of plants.		Sampling Point:	17-A
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
4	% Cover	Species:	Status		
				Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
3				_	(* 1)
4.				Total Number of Dominant Species Across All Strata:	5 (B)
5.				Percent of Dominant Species	
6.				That Are OBL, FACW, or FAC:	60.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size:)				OBL species 25 x 1 =	25
1. etula nigra	35	Yes	FACW	FACW species 45 x 2 =	90
2. Li uidambar st raciflua	15	Yes	FAC	FAC species 20 x 3 =	60
3. cer rubrum	5	No	FAC	FACU species 40 x 4 =	160
4				UPL species 0 x 5 =	0
5				Column Totals: 130 (A)	335 (B)
6				Prevalence Index = B/A =	2.58
		=Total Cover		Hydrophytic Vegetation Indicators	
50% of total cover:	28 20%	of total cover:	11	1 - Rapid Test for Hydrophytic V	egetation
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%	
1.				X 3 - Prevalence Index is ≤3.0¹	. 1
2.				Problematic Hydrophytic Vegeta	ition' (Explain)
3.					
4.					
5.				¹ Indicators of hydric soil and wetland	
6.		=Total Cover		present, unless disturbed or problem	
50% of total cover:		of total cover:		Definitions of Five Vegetation Stra	
Herb Stratum (Plot size: 30)		oi total cover.		Tree – Woody plants, excluding woo approximately 20 ft (6 m) or more in	
1. Solidago altissima	35	Yes	FACU	(7.6 cm) or larger in diameter at brea	
Juncus effusus	25	Yes	OBL	Sanling Woody plants evaluding	woody vinos
3. noclea sensibilis	10	No	FACW	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in	
4.				than 3 in. (7.6 cm) DBH.	J
5.				Shrub - Woody Plants, excluding wo	oodv vines.
6.				approximately 3 to 20 ft (1 to 6 m) in	
7.				Herb – All herbaceous (non-woody)	plants including
8.				herbaceous vines, regardless of size	
9.				plants, except woody vines, less that	n approximately 3
10.				ft (1 m) in height.	
11.				Woody Vine - All woody vines, rega	ardless of height.
	70	=Total Cover			
50% of total cover:	35 20%	of total cover:	14		
Woody Vine Stratum (Plot size:)					
1. Lonicera aponica	5	Yes	FACU		
2					
3					
4					
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:		of total cover:	1	Present? Yes X No	<u> </u>
Remarks: (If observed, list morphological adaptati	ions below)				

SOIL Sampling Point: 17-A

Profile Desc Depth	cription: (Describe to Matrix	o the dep		ıment tl k Featur		ator or c	onfirm the absence o	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	10YR 4/2	75	10YR 4/4	15	C	М	Loamy/Clayey	Distinct redox concentrations	
			10YR 3/4	10	С	M		Distinct redox concentrations	
¹ Typo: C-C	oncentration, D=Deple		-Poducod Matrix M		kod San	d Grains	² Location: F	PL=Pore Lining, M=Matrix.	
	Indicators: (Applicat					a Grains.		for Problematic Hydric Soils ³ :	
Histosol		Jie to all L	Thin Dark Su			S T II)		uck (A9) (LRR O)	
	pipedon (A2)		Barrier Island					uck (A10) (LRR S)	
Black Histic (A3) (MLRA 153B, 153D)						,		Prairie Redox (A16)	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O)					RR O)		ide MLRA 150A)		
	d Layers (A5)		Loamy Gleye	•		·	Reduce	d Vertic (F18)	
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	ide MLRA 150A, 150B)	
5 cm Mu	ıcky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)	
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7)							Anomalous Bright Floodplain Soils (F20)		
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)							(MLR	A 153B)	
Depleted	d Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)	
	ark Surface (A12)		Depleted Oc					allow Dark Surface (F22)	
	rairie Redox (A16) (M				,	, .		ide MLRA 138, 152A in FL, 154)	
	Mucky Mineral (S1) (LF	RR O, S)	Umbric Surfa					slands Low Chroma Matrix (TS7)	
	Gleyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D) 50B) Other (Explain in Remarks)		
	Redox (S5)		Reduced Ver	•	, .		· — `	explain in Remarks)	
	Matrix (S6)	T 11)	Piedmont Flo						
	rface (S7) (LRR P, S, le Below Surface (S8)	•	Anomalous E (MLRA 14	•		,	³ Indicators of hydrophytic vegetation and		
	S, T, U)		Very Shallow				wetland hydrology must be present,		
(LIVIV	3, 1, 0)		(MLRA 13				unless disturbed or problematic.		
Restrictive	Layer (if observed):							i	
Type:									
Depth (ii	nches):						Hydric Soil Prese	nt? Yes X No	
Remarks:							ı		

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 7/21/2	2020	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point: 17	7-B	
Investigator(s): S. Kupiec	Sect	ion, Township, Range:				
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, nor	ne): Convex	Slope (%): 1	-2	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.0		Datum:		
·		Long. 177.				
Soil Map Unit Name: Woodington fine sandy			NWI classificat			
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			umstances" present?			
Are Vegetation, Soil, or Hydro	logynaturally problemat	tic? (If needed, explai	in any answers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point location	ıs, transects, im	portant features,	etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?		ls the Sampled Area within a Wetland?	Yes	No X		
Remarks: Upland at Flag AQ-4.						
HYDROLOGY						
Wetland Hydrology Indicators:		Se	econdary Indicators	minimum of two require	ed)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracl	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface (B8	3)	
High Water Table (A2)	Marl Deposits (B15) (LRF		Drainage Patterns			
Saturation (A3)	Hydrogen Sulfide Odor (C					
Water Marks (B1)		cidized Rhizospheres on Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iron		Crayfish Burrows (C8)			
Drift Deposits (B3) Algal Mat or Crust (B4)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solls (C6)	Saturation Visible on Aerial Imagery (C9)			
Iron Deposits (B5)	Other (Explain in Remark					
Inundation Visible on Aerial Imagery (Bi			FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)	,	_	Sphagnum Moss (
Field Observations:		_	_ · ·	` , ,		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hy	drology Present?	Yes No_	Χ	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pre	evious inspections), if avail	lable:			
Remarks:						
Tromano.						

,	ientific names o	. p.a		Sampling Poin	t: <u>17-B</u>
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3. 4.				Total Number of Dominant Species Across All Strata:	4 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0% (A/I
	=	=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				· —	= 0
Li uidambar st raciflua	20	Yes	FAC	FACW species 0 x 2	= 0
2				FAC species 30 x 3	= 90
3.				FACU species 95 x 4	= 380
4				UPL species 0 x 5	= 0
5				Column Totals: 125 (A)	470 (1
6				Prevalence Index = B/A =	3.76
	20 =	=Total Cover		Hydrophytic Vegetation Indicator	rs:
50% of total cover:	10 20%	of total cover:	4	1 - Rapid Test for Hydrophytic	Vegetation
Shrub Stratum (Plot size: 30)		'		2 - Dominance Test is >50%	
1.				3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vege	ation ¹ (Explain)
3					(=
4					
5					
				¹ Indicators of hydric soil and wetlar	
6.				present, unless disturbed or proble	
		=Total Cover		Definitions of Five Vegetation St	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wo	
Herb Stratum (Plot size: 30) 1. Solidago altissima	75	Yes	FACU	approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at bre	
2				Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in	•
4				than 3 in. (7.6 cm) DBH.	
5.6.				Shrub - Woody Plants, excluding vapproximately 3 to 20 ft (1 to 6 m) is	
7.					
				Herh - All herhaceous (non-woody) nlants including
				Herb – All herbaceous (non-woody herbaceous vines, regardless of size	
				herbaceous vines, regardless of size plants, except woody vines, less the	ze, <u>and</u> woody
8.				herbaceous vines, regardless of size	ze, <u>and</u> woody
8. 9. 10.				herbaceous vines, regardless of size plants, except woody vines, less the	re, <u>and</u> woody an approximately
8. 9.		=Total Cover		herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10.		=Total Cover	15	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover:		=Total Cover of total cover:	15	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30		of total cover:		herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis		of total cover:	FACU	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis 2. Campsis radicans		of total cover:		herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis 2. Campsis radicans 3.		of total cover:	FACU	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis 2. Campsis radicans		of total cover:	FACU	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis 2. Campsis radicans 3.		of total cover:	FACU	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height. Woody Vine – All woody vines, reg	re, <u>and</u> woody an approximately
8. 9. 10. 11. 50% of total cover: Woody Vine Stratum (Plot size: 30 1. itis aesti alis 2. Campsis radicans 3. 4.		of total cover:	FACU	herbaceous vines, regardless of siz plants, except woody vines, less th ft (1 m) in height.	re, <u>and</u> woody an approximately

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SOIL Sampling Point: 17-B

Depth (inches) 0-20	Color (moist) 2.5Y 4/2	% 95	Color (moist) 10YR 4/6	x Featur <u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-20	2.5Y 4/2	95								
	2.01 4/2	- 00	10111 -1/0	5	С	М	Loamy/Clayey	Prominent redox concentrations		
							<u> Loamy, olayoy</u>	Trommont rodex concentrations		
Type: C=Cc	oncentration, D=Deple	etion. RM	=Reduced Matrix, M	 //S=Mas	ked Sand	Grains.	² Location: F	L=Pore Lining, M=Matrix.		
	ndicators: (Applicat					J Oranio.		or Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su			S, T, U)		ıck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mu	uck (A10) (LRR S)		
Black Histic (A3) (MLRA 153B, 153D)						Coast P	rairie Redox (A16)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O)					.RR O)	(outsi	de MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
	Bodies (A6) (LRR P,	T, U)	X Depleted Ma					de MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LRI	R P, T, U)	Redox Dark	Surface	(F6)		Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7)							Anomalous Bright Floodplain Soils (F20)			
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)							(MLR	A 153B)		
Depleted Below Dark Surface (A11) Marl (F10) (LRR U)						Red Par	ent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	A 151)	Very Sh	allow Dark Surface (F22)		
Coast Pr	airie Redox (A16) (M	LRA 150	A) Iron-Mangan	ese Ma	sses (F12	2) (LRR C), P, T) (outsi	de MLRA 138, 152A in FL, 154)		
Sandy M	ucky Mineral (S1) (LF	RR O, S)	Umbric Surfa	ace (F13	B) (LRR F	P, T, U)	Barrier I	slands Low Chroma Matrix (TS7)		
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (ľ	MLRA 15	1)	(MLR	A 153B, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 15	0B)Other (E	xplain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	A 149A)			
	face (S7) (LRR P, S,		Anomalous I	-			· _			
	e Below Surface (S8)		(MLRA 14				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.		
	_ayer (if observed):									
Type:	- ab - a \ .						Undain Cail Danna	ato Van V Na		
Depth (in	icnes):						Hydric Soil Preser	nt? Yes X No		
Remarks:										

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lal	ceview 230 kV Rebuild	City/County: Greensville	e	Sampling Date: 8	/6/2020	
Applicant/Owner: Dominion Energy Virg	ginia		State: VA	Sampling Point:	18-A	
Investigator(s): S. Kupiec		ction, Township, Range:		_		
Landform (hillside, terrace, etc.): Drainage	_	relief (concave, convex, n	one): Concave	Slope (%):	2-4	
Subregion (LRR or MLRA): LRR P, MLRA		Long: -77		Datum:		
	100A Lat. 00.022000	Long71				
Soil Map Unit Name: Craven clay loam			NWI classifica			
Are climatic / hydrologic conditions on the s				explain in Remarks.)		
Are Vegetation, Soil, or Hydr			rcumstances" present	? Yes X	No	
Are Vegetation, Soil, or Hydr	ologynaturally problem	atic? (If needed, expl	lain any answers in Re	emarks.)		
SUMMARY OF FINDINGS - Attac	h site map showing sa	mpling point locatio	ons, transects, in	nportant feature	es, etc.	
Hydrophytic Vegetation Present?	Yes X No No	Is the Sampled Area	Voc	No. V		
Hydric Soil Present? Wetland Hydrology Present?	Yes No X Yes No X	within a Wetland?	Yes	No <u>X</u>		
Remarks:						
Upland near Structure 254/61.						
HYDROLOGY	_					
Wetland Hydrology Indicators:		,	Secondary Indicators	(minimum of two red	quired)	
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface Soil Crac	:ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface	(B8)	
High Water Table (A2)	Marl Deposits (B15) (LF	RR U)	Drainage Patterns	s (B10)		
Saturation (A3)	Hydrogen Sulfide Odor					
Water Marks (B1)	Oxidized Rhizospheres	on Living Roots (C3)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced II	-	Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction i	· · ·	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	·	X Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Rema	rks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (I	3/)	-	FAC-Neutral Test	, ,		
Water-Stained Leaves (B9)		-	Sphagnum Moss	(D8) (LRR 1, U)		
Field Observations:	No. Donth (in choc)					
Surface Water Present? Yes Water Table Present? Yes	No Depth (inches) No Depth (inches)					
Water Table Present? Yes Saturation Present? Yes	No Depth (inches) No Depth (inches)		lydrology Present?	Yes I	No X	
(includes capillary fringe)	Dopur (mones)		rydrology i resent:	1031	10 X	
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos, p	previous inspections), if ava	ailable:			
, , ,		, ,				
Remarks:						

VEGETATION (Five Strata) - Use scientif	fic names	of plants.		Sampling Point:18-A
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.	70 COVEI	Оресіез:	Status	
2				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				
4				Total Number of Dominant Species Across All Strata: 3 (B)
<u> </u>				
6.	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
·		=Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species $0 x 1 = 0$
4				FACW species 25 x 2 = 50
2.				FAC species 75 x 3 = 225
3				FACU species 10 x 4 = 40
4				UPL species $0 \times 5 = 0$
5.				Column Totals: 110 (A) 315 (B)
6.				Prevalence Index = $B/A = 2.86$
		=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				
				1 adiabase of hydric acil and westered hydrology as at h
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:		of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in.
1. ubus argutus	45	Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Solidago rugosa	30	Yes	FAC	Sapling – Woody plants, excluding woody vines,
3. cnanthemum tenuifolium	15	No	FACW	approximately 20 ft (6 m) or more in height and less
4. Dichanthelium scoparium	10	No	FACW	than 3 in. (7.6 cm) DBH.
5.				Shrub - Woody Plants, excluding woody vines,
6.				approximately 3 to 20 ft (1 to 6 m) in height.
7.				Herb – All herbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, <u>and</u> woody
9.				plants, except woody vines, less than approximately 3
10.				ft (1 m) in height.
11.				Woody Vine - All woody vines, regardless of height.
	100 :	=Total Cover		
50% of total cover: 5	0 20%	of total cover:	20	
Woody Vine Stratum (Plot size: 30)				
1. alactia olubilis	10	Yes	FACU	
2.				
3.				
4.				
5.				I budaa a budi a
	10 :	=Total Cover		Hydrophytic Vegetation
50% of total cover: 5	20%	of total cover:	2	Present? Yes X No
Remarks: (If observed, list morphological adaptation	ns below.)			

SOIL Sampling Point: 18-A

Profile Desc Depth	cription: (Describe to Matrix	to the dep		ıment t < Featui		ator or co	onfirm the absence of i	ndicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	arks	
0-4	10YR 4/3	100					Loamy/Clayey			
4-20	10YR 4/4	100					Loamy/Clayey			
7 20	1011(4/4	100					Loamy, Glayey			
1 _{Type:} C-C	oncentration, D=Depl	otion PM	-Paduaad Matrix N			Croins	² Logation: DL	=Pore Lining, M=W	lotriv	
	Indicators: (Applica					i Giailis.		Problematic Hyd		
Histosol		DIC to all I	Thin Dark Su			S. T. U)		(A9) (LRR O)	110 30113 .	
	pipedon (A2)		Barrier Island					(A10) (LRR S)		
Black Histic (A3) (MLRA 153B, 153D)					,		rie Redox (A16)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O)					RR O)	(outside	MLRA 150A)			
Stratified	d Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduced \	/ertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outside	MLRA 150A, 150	B)	
	icky Mineral (A7) (LR	•	Redox Dark				Piedmont Floodplain Soils (F19) (LRR P, T)			
	esence (A8) (LRR U))	Depleted Da				Anomalous Bright Floodplain Soils (F20)			
	ick (A9) (LRR P, T)	(044)	Redox Depre		(F8)		(MLRA 1	•		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)					\ 151\		it Material (F21) ow Dark Surface (F22\		
	rairie Redox (A16) (M	II RΔ 150Δ						MLRA 138, 152A		
	lucky Mineral (S1) (L		Umbric Surfa		•	, .		ands Low Chroma		
	sleyed Matrix (S4)	-, -,	Delta Ochric					53B, 153D)	(, , ,	
	edox (S5)		Reduced Ve					olain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	odplair	Soils (F	19) (MLR	A 149A)			
Dark Sui	rface (S7) (LRR P, S	, T, U)	Anomalous E	Bright F	loodplain	Soils (F2				
Polyvalu	e Below Surface (S8)	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR	S, T, U)		Very Shallow				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1!	54)	unless o	matic.		
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Present?	Yes	No X	
Remarks:										

Attachment 2.D.1 Page 135 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhous	e - Lakeview 230 kV Rebuild	City/County: Greensville	e	Sampling Date: 8/6	/2020		
Applicant/Owner: Dominion Ene	rgy Virginia		State: VA	Sampling Point:	18-B		
Investigator(s): S. Kupiec		Section, Township, Range:					
Landform (hillside, terrace, etc.): D	rainageway Loc	cal relief (concave, convex, r	none): Concave	Slope (%):	2-4		
Subregion (LRR or MLRA): LRR P,	MLRA 133A Lat: 36.626448	Long: -7	7.615885	Datum:			
Soil Map Unit Name: Mattaponi sand			NWI classifica	ation: N/A			
Are climatic / hydrologic conditions o		ar? Yes X		explain in Remarks.)			
Are Vegetation, Soil,	,		ircumstances" present		0		
					′—		
Are Vegetation, Soil,			plain any answers in R				
SUMMARY OF FINDINGS –	Attach site map showing s	sampling point location	ons, transects, in	nportant features	s, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Upland at Flag AU-5.							
HYDROLOGY							
Wetland Hydrology Indicators:				(minimum of two requ	<u>ıired)</u>		
Primary Indicators (minimum of one		· · · · · · · · · · · · · · · · · · ·	Surface Soil Crac	` '	'Do'		
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B8)		
High Water Table (A2) Saturation (A3)	Marl Deposits (B15) (Hydrogen Sulfide Od	•	Drainage Patterns (B10) Moss Trim Lines (B16)				
Water Marks (B1)		es on Living Roots (C3)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced	- · · · · ·		Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reductio		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (0		Geomorphic Position (D2)				
Iron Deposits (B5)	Other (Explain in Ren		Shallow Aquitard (D3)				
Inundation Visible on Aerial Ima	igery (B7)	•	X FAC-Neutral Test (D5)				
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inche						
Water Table Present? Yes	No X Depth (inche						
Saturation Present? Yes	No X Depth (inche	es): Wetland F	Hydrology Present?	Yes No	0 <u>X</u>		
(includes capillary fringe) Describe Recorded Data (stream ga	ugo monitoring well porial photos	nrovious inspections) if a	vailable:				
Describe Necorded Data (Stream ga	age, monitoring well, aerial priotos	, previous inspections), if av	raliable.				
Remarks:							

VEGETATION (FIVE Strata) – Use scienti				Sampling Point: 18-B
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0
Li uidambar st raciflua	30	Yes	FAC	FACW species 40 x 2 = 80
2				FAC species 55 x 3 = 165
3				FACU species 0 x 4 = 0
4				UPL species 0 x 5 = 0
5				Column Totals: 95 (A) 245 (B)
6				Prevalence Index = B/A = 2.58
	30	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover: 1	5 20%	of total cover:	6	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				
5				¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
		=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. cnanthemum tenuifolium	25	Yes	FACW	(7.6 cm) of larger in diameter at breast neight (DBH).
2. Dichanthelium dichotomum	20	Yes	FAC	Sapling – Woody plants, excluding woody vines,
3. <u>Dichanthelium scoparium</u>4.	15	Yes	FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5.				Shrub - Woody Plants, excluding woody vines,
6				approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3 ft (1 m) in height.
10				
11				Woody Vine – All woody vines, regardless of height.
	60	=Total Cover		
	0 20%	of total cover:	12	
Woody Vine Stratum (Plot size:)				
1. Campsis radicans	5	Yes	FAC	
2				
3				
4				
5				Hydrophytic
	5	=Total Cover		Vegetation
50% of total cover:	3 20%	of total cover:	1	Present? Yes X No No
Remarks: (If observed, list morphological adaptation	ns below.)			

SOIL Sampling Point: 18-B

	•	o the dep				ator or c	onfirm the absence of	of indicators.)		
Depth (inches)	Matrix	%		k Featur		Loc ²	Toyturo	Pomo	arko.	
(inches)	Color (moist)		Color (moist)	%	Type ¹	LOC	Texture	Rema	arks	
0-1	10YR 4/4	100					Loamy/Clayey			
1-20	10YR 5/4	85	5YR 5/6	15	С	M	Loamy/Clayey	Prominent redox	concentrations	
									_	
								-	_	
1Typo: C-Co	oncentration, D=Depl	otion PM-	-Poducod Matrix M		kod Sand		² Location: I	 PL=Pore Lining, M=N	lotriy	
	ndicators: (Applical					J Grains.		for Problematic Hyd		
Histosol						S, T, U)		uck (A9) (LRR O)		
Histosol (A1) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U Barrier Islands 1 cm Muck (S12)							uck (A10) (LRR S)			
Black His			(MLRA 15	3B, 153	D)	,		Prairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		,	ide MLRA 150A, 150	,	
	cky Mineral (A7) (LR		Redox Dark				Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7)							Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	(0.4.4)	Redox Depre		(F8)		•	(A 153B)		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)					\ 151\		rent Material (F21) nallow Dark Surface (E22)		
	, ,	Ι ΡΔ 150Δ						ide MLRA 138, 152A	,	
Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S)			Umbric Surfa					Barrier Islands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)	0, 0,	Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ver				Other (Explain in Remarks)			
	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLF		A 149A)		
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	loodplain	Soils (F2	20)			
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	A, 153C, 153D)			³ Indicators of hydrophytic vegetation and		
(LRR S	S, T, U)		Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	ent? Yes	No X	
Remarks:							•			

Attachment 2.D.1 Page 138 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 8/6/2	2020	
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 1	19-A	
Investigator(s): S. Kupiec		tion, Township, Range:				
Landform (hillside, terrace, etc.): Slope		relief (concave, convex, no	one): Convex	Slope (%):	2-4	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77.	· ·	Datum:		
		Long. 17.				
Soil Map Unit Name: Appling-Mattaponi cor			NWI classification			
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			cumstances" present	? Yes <u>X</u> No		
Are Vegetation, Soil, or Hydro	ologynaturally problema	tic? (If needed, expla	ain any answers in Re	emarks.)		
SUMMARY OF FINDINGS - Attach	າ site map showing san	npling point locatior	ns, transects, im	portant features,	, etc.	
Hydrophytic Vogetation Procent?	Voc. V. No.	Is the Sampled Area				
Hydrophytic Vegetation Present? Hydric Soil Present?		Is the Sampled Area within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X	within a wettand:	163	NO X		
Remarks:	100 <u>X</u>					
Upland at Flag AY-7.						
Splana at Flag / T 7:						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>S</u>	Secondary Indicators	(minimum of two requi	red)	
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	_	Sparsely Vegetate	ed Concave Surface (B	38)	
High Water Table (A2)	Marl Deposits (B15) (LR	R U)	Drainage Patterns	; (B10)		
Saturation (A3)	Hydrogen Sulfide Odor (
Water Marks (B1)		hizospheres on Living Roots (C3) Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced Iro	_	Crayfish Burrows (C8)			
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark	ke)	Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B		_	X FAC-Neutral Test (D5)			
Water-Stained Leaves (B9)	')		Sphagnum Moss			
Field Observations:		-	opniagnam mees	(20) (2.00 1)		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):		drology Present?	Yes No	Χ	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, me	onitoring well, aerial photos, pr	evious inspections), if ava	ilable:			
Remarks:						

VEGETATION (FIVE Strata) – Use scientif		oi piants.		Sampling Point: 19-A
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)				OBL species10 x 1 =10
1. uercus rubra	5	Yes	FACU	FACW species 70 x 2 = 140
2.				FAC species 30 x 3 = 90
3.				FACU species 5 x 4 = 20
4.				UPL species 0 x 5 = 0
5.				Column Totals: 115 (A) 260 (B)
6.				Prevalence Index = B/A = 2.26
	5	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover: 3		of total cover:	1	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
1				3 - Prevalence Index is ≤3.0 ¹
3				Problematic Hydrophytic Vegetation ¹ (Explain)
				residentation riyarophiyate regetation (Explain)
4				
				4
				¹ Indicators of hydric soil and wetland hydrology must be
6.		=Total Cover		present, unless disturbed or problematic.
FOO/ of total covers				Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size: 30)	45	V	E4 0\4/	(7.6 cm) or larger in diameter at breast height (DBH).
1. Dichanthelium scoparium	45	Yes	FACW	
2. Solidago rugosa	25	Yes	FAC	Sapling – Woody plants, excluding woody vines,
3. upatorium perfoliatum	15	No No	FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. cnanthemum tenuifolium	10	No	FACW	
5. Ludwigia palustris	5	No	OBL	Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6				approximately 3 to 20 ft (1 to 6 fff) in height.
7				Herb - All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, <u>and</u> woody
9				plants, except woody vines, less than approximately 3 ft (1 m) in height.
10				
11				Woody Vine – All woody vines, regardless of height.
	100	=Total Cover		
50% of total cover: 50	20%	of total cover:	20	
Woody Vine Stratum (Plot size:)				
1. elsemium semper irens	5	Yes	FAC	
2. ersicaria sagittata	5	Yes	OBL	
3.				
4.				
5.				Lludraphytic
	10	=Total Cover		Hydrophytic Vegetation
50% of total cover: 5		of total cover:	2	Present? Yes X No
Remarks: (If observed, list morphological adaptation	ne helew \			<u> </u>

SOIL Sampling Point: 19-A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth Matrix		k Featur		12	Tardura	Demonto	
(inches) Color (moist) %	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-4 10YR 4/3 100					Loamy/Clayey		
4-20 10YR 5/4 100					Loamy/Clayey		
¹ Type: C-Concentration D-Depletion PM	-Paduaad Matrix N		kod Sono	Crains	² Location: D	U - Para Lining M-Matrix	
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I				Grains.		PL=Pore Lining, M=Matrix. or Problematic Hydric Soils ³ :	
Histosol (A1)				S. T. U)		uck (A9) (LRR O)	
Histosol (A1) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)			
Black Histic (A3) (MLRA 153B, 153D)				Coast Prairie Redox (A16)			
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O)				RR O)	(outside MLRA 150A)		
Stratified Layers (A5) Loamy Gleyed Matrix (F2)					Reduced Vertic (F18)		
Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3)					(outside MLRA 150A, 150B)		
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6)					Piedmont Floodplain Soils (F19) (LRR P, T)		
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7)				Anomalous Bright Floodplain Soils (F20)			
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) Peopleted Relay Pork Surface (A11) Mort (F10) (LRP LI)				(MLRA 153B) Red Parent Material (F21)			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)			. 151)	Very Shallow Dark Surface (F22)			
Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR 0							
Sandy Mucky Mineral (S1) (LRR O, S) Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix (TS7)			
Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)			
Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) Other (F18)					explain in Remarks)		
Stripped Matrix (S6) Piedmont Floodplain Soils (F19) (MLRA 149A)							
Dark Surface (S7) (LRR P, S, T, U) Anomalous Bright Floodplain Soils (F20)							
Polyvalue Below Surface (S8) (MLRA 149A, 153C, 153D)					³ Indicators of hydrophytic vegetation and		
(LRR S, T, U)Very Sha					wetland hydrology must be present,		
	(MLRA 13	8, 152A	in FL, 15)4)	unles	s disturbed or problematic.	
Restrictive Layer (if observed):							
Туре:							
Depth (inches):					Hydric Soil Present? Yes No X		
Remarks:							

Attachment 2.D.1 Page 141 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lak	eview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 8/6	6/20
Applicant/Owner: Dominion Energy Virg	ginia		State: VA	Sampling Point:	19-B
Investigator(s): S. Kupiec	S	section, Township, Range:		_	
Landform (hillside, terrace, etc.): Drainage	eway Loca	al relief (concave, convex,	none): Concave	Slope (%):	2-4
Subregion (LRR or MLRA): LRR P, MLRA			77.614496	Datum:	
Soil Map Unit Name: Roanoke loam			NWI classifica		
Are climatic / hydrologic conditions on the si	te typical for this time of yea	r? Yes X		explain in Remarks.)	
			Circumstances" present		
Are Vegetation, Soil, or Hydro					
Are Vegetation, Soil, or Hydro	<u> </u>		plain any answers in Re		
SUMMARY OF FINDINGS – Attack	n site map showing sa	ampling point locati	ons, transects, im	nportant feature	s, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No	
Wetland Hydrology Present?	Yes X No				
Remarks:					
Wetland at Flag AY-2.					
HYDROLOGY					
			0	(
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ	uired: check all that apply)		Secondary Indicators		<u>uirea)</u>
Surface Water (A1)	Aquatic Fauna (B13)		Surface Soil Crac	ed Concave Surface	(B8)
High Water Table (A2)	Marl Deposits (B15) (I	I RR U)	Drainage Patterns (B10)		
Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines (
Water Marks (B1)	X Oxidized Rhizosphere		Dry-Season Wate		
Sediment Deposits (B2)	Presence of Reduced		Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction	n in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C	29)
Algal Mat or Crust (B4)	Thin Muck Surface (C	7)	X Geomorphic Posit	tion (D2)	
Iron Deposits (B5)	Other (Explain in Rem	narks)	Shallow Aquitard	(D3)	
Inundation Visible on Aerial Imagery (E	37)		X FAC-Neutral Test		
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches				
	No X Depth (inches				
Saturation Present? Yes	No X Depth (inches	s): Wetland	Hydrology Present?	Yes X N	10
(includes capillary fringe) Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos	nrevious inspections) if a			
	ormorning tron, demai priotos,	providuo inopositorio,, ii di			
Remarks:					

/EGETATION (Five Strata) – Use scie	ntific names	or plants.		Sampling Point	t: <u>19-E</u>	3
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	2	_ (A)
3				Total Number of Dominant Species Across All Strata:	3	(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	66.7%	(A/B)
		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:	·	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:30)				OBL species 35 x 1 =	= 35	_
1				FACW species 40 x 2 =	= 80	
2.				FAC species 10 x 3 =	= 30	_
3.				FACU species 30 x 4 =	= 120	
4.				UPL species 0 x 5 =	= 0	_
5.				Column Totals: 115 (A)	265	(B)
6.				Prevalence Index = B/A =	2.30	` ′
		=Total Cover		Hydrophytic Vegetation Indicator		
50% of total cover:		of total cover:	,	1 - Rapid Test for Hydrophytic \		
Shrub Stratum (Plot size: 30)		01 10101 0010		X 2 - Dominance Test is >50%	Vogotanon	
1				X 3 - Prevalence Index is ≤3.0 ¹		
2.					estion ¹ (Evolu	cin)
-				Problematic Hydrophytic Veget	ation (⊏xpic	ain)
3.						
4						
5				¹ Indicators of hydric soil and wetland		must be
6				present, unless disturbed or probler	natic.	
		=Total Cover		Definitions of Five Vegetation Str	rata:	
50% of total cover:	20%	of total cover:		Tree - Woody plants, excluding wo	ody vines,	
Herb Stratum (Plot size:30)				approximately 20 ft (6 m) or more in		
1. Solidago altissima	30	Yes	FACU	(7.6 cm) or larger in diameter at bre	ast height (L	DBH).
2. Dichanthelium scoparium	30	Yes	FACW	Sapling – Woody plants, excluding	woody vine	s,
3. hel pteris palustris	25	Yes	OBL	approximately 20 ft (6 m) or more in		
4. I mus irginicus	10	No	FAC	than 3 in. (7.6 cm) DBH.		
5. noclea sensibilis	5	No	FACW	Shrub - Woody Plants, excluding w	oody vines,	
6. ernonia no eboracensis		No	FACW	approximately 3 to 20 ft (1 to 6 m) in		
7. Dulichium arundinaceum		No	OBL		S. J. Jan. Sanat	
8. Juncus effusus		No	OBL	Herb – All herbaceous (non-woody) herbaceous vines, regardless of siz		
9.		110	ODL	plants, except woody vines, less that		-
-				ft (1 m) in height.		•
10.				Woody Vine – All woody vines, reg	ardless of h	paight
11				Woody ville All woody villos, rog	jaiuicoo oi	eigi it.
		=Total Cover				
50% of total cover:	58 20%	of total cover:	23			
Woody Vine Stratum (Plot size: 30	_)					
1						
2						
3.						
4.						
5.				1		
·		=Total Cover		Hydrophytic		
50% of total cover:		of total cover:		Vegetation Present? Yes X N	lo	

SOIL Sampling Point: 19-B

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ument tl x Featur		ator or c	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	% %	Type ¹	Loc ²	Texture	Remarks		
0-4	10YR 4/2	90	7.5YR 3/4	10	С	PL	Loamy/Clayey	Distinct redox concentrations		
4-20	10YR 6/2	65	10YR 5/6	20	С	M	Loamy/Clayey	Prominent redox concentrations		
			7.5YR 4/6	10	<u>C</u>	M		Prominent redox concentrations		
			10YR 4/2	5	D	M				
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	/IS=Mas	ked San	d Grains.				
-	Indicators: (Applica	ble to all I					Indicators f	for Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su	,	, .	-		uck (A9) (LRR O)		
Histic Ep	pipedon (A2)		Barrier Island			12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
Hydroge	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outsi	de MLRA 150A)		
Stratified	l Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	de MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pro	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)			
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)			
Thick Da	ark Surface (A12)		Depleted Oc	hric (F1	1) (MLR/	A 151)	Very Shallow Dark Surface (F22)			
Coast Pr	airie Redox (A16) (M	LRA 150 <i>A</i>	N) Iron-Mangan	ese Ma	sses (F1	2) (LRR (O, P, T) (outside MLRA 138, 152A in FL, 154)			
	lucky Mineral (S1) (L		Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy G	leyed Matrix (S4)		Delta Ochric				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ve					Explain in Remarks)		
	Matrix (S6)		Piedmont Flo	,	, .			,		
	rface (S7) (LRR P, S,	. T. U)	Anomalous I							
	e Below Surface (S8)		(MLRA 14	•		,	· _	ors of hydrophytic vegetation and		
	S, T, U)	,	Very Shallov				wetland hydrology must be present,			
(LIXIX	3, 1, 0)		(MLRA 13				unless disturbed or problematic.			
	_ayer (if observed):									
Type:										
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 144 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville	•	Sampling Date: 8/7/20	020
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 20	D-A
Investigator(s): S. Kupiec	Sec	ction, Township, Range:			
Landform (hillside, terrace, etc.): Drainage	•	relief (concave, convex, n	one): Concave	Slope (%): 1	-2
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77		Datum:	
	'	Long. 17			
Soil Map Unit Name: Appling-Mattaponi cor			NWI classifica		
Are climatic / hydrologic conditions on the sit				explain in Remarks.)	
Are Vegetation, Soil, or Hydro			rcumstances" present		
Are Vegetation, Soil, or Hydro	ologynaturally problema	atic? (If needed, expl	ain any answers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach	າ site map showing sar	npling point locatio	ns, transects, in	nportant features,	etc.
Hydrophytic Vegetation Present?	Yes X No No	Is the Sampled Area	Vaa V	No	
Hydric Soil Present? Wetland Hydrology Present?	Yes X No No	within a Wetland?	Yes X	No	
	Tes X NO				
Remarks: Wetland at Line BB.					
Worlding at Emb BB.					
HYDROLOGY					
Wetland Hydrology Indicators:		,	Secondary Indicators	(minimum of two require	ed)
Primary Indicators (minimum of one is requ	ired; check all that apply)	<u> </u>	Surface Soil Crac		
Surface Water (A1)	Aquatic Fauna (B13)	-	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LR	RR U)	Drainage Patterns (B10)		
X Saturation (A3)	Hydrogen Sulfide Odor	(C1)	Moss Trim Lines	(B16)	
Water Marks (B1)	Oxidized Rhizospheres	on Living Roots (C3)	Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Ir		Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction in	` '		on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	X Geomorphic Posi		
Iron Deposits (B5)	Other (Explain in Remar	rks)	Shallow Aquitard X FAC-Neutral Test	` '	
Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	7)	-	Sphagnum Moss		
Field Observations:			Opriagram Woss	(DO) (ERR 1, 0)	
Surface Water Present? Yes	No X Depth (inches):				
	No X Depth (inches):				
Saturation Present? Yes X	No Depth (inches):		lydrology Present?	Yes X No	
(includes capillary fringe)			3 03		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	revious inspections), if ava	ailable:		
Remarks:					
1					

		ent 2.D.1 5 of 230				
Sampling Po		20-A				
<u> </u>			$\overline{}$			
est worksheet:			ļ			
ninant Species FACW, or FAC:4 (A)						
of Dominant s All Strata:		4	(B)			
ninant Species FACW, or FAC:		100.0%	(A/B)			
dex worksheet:						
Cover of:	М	ultiply by:				
50 x	1 =	50				
55 x	2 =	110				
30 x	3 =	90				
0 x	4 =	0				
0 x	5 =	0				
135 (A)		250	(B)			
nce Index = B/A =	· _	1.85				
egetation Indicat	ors:					
est for Hydrophyti	ic Ve	getation				
ance Test is >50%						
ence Index is ≤3.0 ¹						
ic Hydrophytic Veg	getati	ion¹ (Expla	in)			
ydric soil and wetl disturbed or prob			nust be			
Five Vegetation :						
plants, excluding v	wood	lv vines.				
plants, excluding woody vines, 20 ft (6 m) or more in height and 3 in. ger in diameter at breast height (DBH).						
ody plants, excluding woody vines, 20 ft (6 m) or more in height and less cm) DBH.						
y Plants, excluding woody vines, 3 to 20 ft (1 to 6 m) in height.						
paceous (non-wood nes, regardless of woody vines, less ht.	size,	and woody	/			
All woody vines, r	egar	dless of he	ight.			

1.		Absolute	Dominant	Indicator	
2		% Cover	Species?	Status	Dominance Test worksheet:
Total Number of Dominant Species Across Al Strats: 4 (B)					
Continue of the continue of					That Are OBL, FACW, or FAC:4 (A)
Percent of Dominant Species That Are OBL_FACW, or FAC: 100.0% (A/B)	·				
Solid Control Contro	·				Species Across All Strata: 4 (B)
Sapling Stratum (Plot size: 30) 1. Li uidambar st raciflua 15 Yes FAC FACW species 50 x 1 = 50 FACW species 50 x 4 = 0 OBL spe	· .				· ·
Total % Cover of: Multiply by: OBL species 50 x 1 = 50	6.		Tatal Causa		
Sapling Stratum (Plot size: 30) 15 Yes	EOO/ of total aguery				
1. Li uidambar st raciflua			or total cover.		
2. 3. 4. 9. 9. FACU species 3.0		15	Voc	EAC	· — — —
FACU species 0		10	163	TAC	
4. 5. 6. 8. 8. 8. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
Column Totals: 135					
16					
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Kydrophytic Vegetation Shrub Stratum (Plot size: 30)					``
Shrub Stratum (Plot size: 30)	·	15	-Total Cover		
Shrub Stratum (Plot size: 30)	50% of total cover:			3	
1. 2.		2070	or total cover.		
2. Problematic Hydrophytic Vegetation (Explain) 3.					
3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.					I
4					- 1 Toblematio Tryarophytic Vegetation (Explain)
Solution	1				
=Total Cover	5.				
Solition Stratum Flot size: 30	6.				
Herb Stratum (Plot size: 30) 1. Juncus effusus 30 Yes OBL 2. h nchospora inexpansa 20 Yes OBL 3. oodwardia areolata 20 Yes OBL 4. ubus argutus 15 No FAC 5. upatorium perfoliatum 15 No FACW 6. Dichanthelium scoparium 10 No FACW 8. cranthemum tenuifolium 5 No FACW 9. 10. 11. 120 =Total Cover 50% of total cover: 60 20% of total cover: 24 Woody Vine Stratum (Plot size: 30) 1. =Total Cover 50% of total cover: 20% of total cover: 24 No Present? Yes X Yes X No Present? Yes X Yes			=Total Cover		
Herb Stratum (Plot size: 30) 1. Juncus effusus	50% of total cover:	20%	of total cover:		
1. Juncus enusus 2. h nchospora inexpansa 3. odwardia areolata 2. yes FACW 3. odwardia areolata 2. yes OBL 4. ubus argutus 3. upatorium perfoliatum 3. No FACW 5. upatorium perfoliatum 4. Dichanthelium scoparium 4. No FACW 6. Dichanthelium scoparium 5. No FACW 7. hexia mariana 5. No FACW 8. cnanthemum tenuifolium 5. No FACW 9. 10. 11. 120 =Total Cover	Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in.
3. oodwardia areolata 20 Yes OBL 4. ubus argutus 15 No FAC 5. upatorium perfoliatum 15 No FACW 6. Dichanthelium scoparium 10 No FACW 7. hexia mariana 5 No FACW 9. 10. 11. 120 =Total Cover 50% of total cover: 60 20% of total cover: 24 Woody Vine Stratum (Plot size: 30) 1. 2. 3. 4. 5	1. Juncus effusus	30	Yes	OBL	(7.6 cm) or larger in diameter at breast height (DBH).
3. oodwardia areolata 4. ubus argutus 5. upatorium perfoliatum 6. Dichanthelium scoparium 7. hexia mariana 8. cnanthemum tenuifolium 9. cnanthemum tenuifolium 10. No FACW 10. TACW 11. Table Total Cover 50% of total cover: 60 20% of total cover: 24 Woody Vine Stratum (Plot size: 30) 1.	2. h nchospora inexpansa	20	Yes	FACW	Sapling – Woody plants, excluding woody vines,
Lobe angular Lobe	3. oodwardia areolata	20	Yes	OBL	, , ,
6. Dichanthelium scoparium 7. hexia mariana 8. cranthemum tenuifolium 9. 10. No FACW 11.	4. ubus argutus	15	No	FAC	than 3 in. (7.6 cm) DBH.
7. hexia mariana	5. upatorium perfoliatum	15	No	FACW	
8. cnanthemum tenuifolium 5 No FACW plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 10.	6. Dichanthelium scoparium	10	No	FACW	approximately 3 to 20 ft (1 to 6 m) in height.
8. cnanthemum tenuifolium 5 No FACW plants, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. 11	7. hexia mariana	5	No	FACW	Herb – All herbaceous (non-woody) plants, including
10	8. cnanthemum tenuifolium	5	No	FACW	herbaceous vines, regardless of size, and woody
10. 11	9				
120	10				
50% of total cover: 60 20% of total cover: 24 Woody Vine Stratum (Plot size: 30) 1.	11				Woody Vine – All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30)		120	=Total Cover		
1.	50% of total cover:	60 20%	of total cover:	24	
2	Woody Vine Stratum (Plot size:)				
3	1				
4	2.				
5	3.				
=Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No	4				
=Total Cover Vegetation 50% of total cover: 20% of total cover: Present? Yes X No	5.				Hydrophytic
50% of total cover: 20% of total cover: Present? Yes X No			=Total Cover		
Remarks: (If observed, list morphological adaptations below.)	50% of total cover:	20%	of total cover:		
	Remarks: (If observed, list morphological adaptation	ons below.)			

SOIL Sampling Point: 20-A

	ription: (Describe t	o the dep				ator or co	onfirm the absence of	of indicators.)		
Depth	Matrix			Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-3	10YR 3/1	100					Loamy/Clayey			
3-8	10YR 4/1	90	10YR 5/8	10	С	M	Loamy/Clayey	Prominent redox concentrations		
8-20	2.5Y 4/1	90	10YR 4/6	10	C	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	IS=Masl	ked Sand	Grains.		PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applical	ble to all L	RRs, unless othe	rwise n	oted.)		Indicators f	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su				1 cm M	uck (A9) (LRR O)		
	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15:	3B, 153	D)		Coast F	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outs	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	k (F2)		Reduce	d Vertic (F18)		
Organic I	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outs	ide MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	rk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions ((F8)		(MLR	A 153B)		
X Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Parent Material (F21)			
	rk Surface (A12)	,	Depleted Och		1) (MLR <i>A</i>	A 151)	Very Sh	nallow Dark Surface (F22)		
	airie Redox (A16) (M	LRA 150A					O, P, T) (outside MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (LI		Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	0, 0,	Delta Ochric					A 153B, 153D)		
			Reduced Ver				•	,		
	edox (S5)			•	, .			Explain in Remarks)		
	Matrix (S6)	T 11)	Piedmont Flo	•	`	, ,	•			
	face (S7) (LRR P, S,		Anomalous E	-						
	e Below Surface (S8)		(MLRA 149				³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,			
			(MLRA 138	8, 152A	in FL, 1!	54)	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 147 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensv	ille	Sampling Date: 8/7/2020	
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 20-B	
Investigator(s): S. Kupiec	Si	ection, Township, Range:	. <u> </u>		
Landform (hillside, terrace, etc.): Slope	Loca	al relief (concave, convex	, none): Convex	Slope (%): 4-6	
Subregion (LRR or MLRA): LRR P, MLRA 1	33A Lat: 36.613786	Long:	-77.615986	Datum:	
Soil Map Unit Name: Appling-Mattaponi con			NWI classifica	tion: N/A	
Are climatic / hydrologic conditions on the sit		r? Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro	,,		Circumstances" present		
Are Vegetation, Soil, or Hydro	ology naturally probler	matic? (If needed, ex	cplain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	' <u></u>		ions, transects, in	nportant features, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes	No_X_	
Remarks: Upland above Flag BB-4.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface (B8)	
High Water Table (A2)	Marl Deposits (B15) (L	_RR U)	Drainage Patterns (B10)		
Saturation (A3)	Hydrogen Sulfide Odo	r (C1)	Moss Trim Lines	(B16)	
Water Marks (B1)	Oxidized Rhizospheres	s on Living Roots (C3)	Dry-Season Wate	er Table (C2)	
Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Recent Iron Reduction			on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C		Geomorphic Posi		
Iron Deposits (B5)	Other (Explain in Rem	arks)	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	, ,	
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches				
Water Table Present? Yes	No X Depth (inches				
Saturation Present? Yes	No X Depth (inches	s): Wetland	Hydrology Present?	Yes No X	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitoring wall, porial photos	provious inspections) if	available:		
Describe Necorded Data (Stream gauge, mi	Jillolling well, aerial priotos,	previous inspections), in	avallable.		
Remarks:					
Nomano.					

EGETATION (Five Strata) – Use scier		<u> </u>		Sampling Point	t: <u>20-</u> E	3
ree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
·	- <u> </u>			Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
				Total Number of Dominant Species Across All Strata:	4	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0%	(A/B)
•		=Total Cover		Prevalence Index worksheet:	10.0,.	_ (, , _ ,
50% of total cover:		of total cover:			Multiply by:	,
Sapling Stratum (Plot size: 30)					= 0	
				· —	= 40	_
				FAC species 65 x 3 =		
				FACU species 40 x 4 =		
				UPL species 0 x 5 =		
				Column Totals: 125 (A)	395	(B)
). 3.				Prevalence Index = B/A =		
·		=Total Cover		Hydrophytic Vegetation Indicators		
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic \		
Shrub Stratum (Plot size: 30)		UI lulai ouvoi.		X 2 - Dominance Test is >50%	/egeranor.	
·						
				3 - Prevalence Index is ≤3.0 ¹	· 1 /= ml	
2				Problematic Hydrophytic Vegeta	ation (⊏xpi	ain)
3.						
1						
5				¹ Indicators of hydric soil and wetland		/ must k
6				present, unless disturbed or problem	natic.	
		=Total Cover		Definitions of Five Vegetation Str	ata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wo		
Herb Stratum (Plot size:30)				approximately 20 ft (6 m) or more in	n height and	
ndropogon irginicus	35	Yes	FAC	(7.6 cm) or larger in diameter at bre	ast heignt (i	DBH).
2. ac era tomentosa	25	Yes	FACU	Sapling – Woody plants, excluding	woody vine	es.
3. cnanthemum tenuifolium	20	Yes	FACW	approximately 20 ft (6 m) or more in		
1. Lespede a cuneata	15	No	FACU	than 3 in. (7.6 cm) DBH.		
5.				Shrub - Woody Plants, excluding w approximately 3 to 20 ft (1 to 6 m) ir		,
7.						
7. 3.				Herb – All herbaceous (non-woody) herbaceous vines, regardless of siz		
3. 9.				plants, except woody vines, less that	· —	,
				ft (1 m) in height.	***	u.,
10.				Woody Vine – All woody vines, reg	rardless of h	aeinht.
11				WOOdy villo Fill woody villos, 1.29	jaiuloso o	bigi
		=Total Cover	. =			
50% of total cover:	48 20%)	of total cover:	19			
elsemium semper irens	30	Yes	FAC			
2.						
3.						
3. 4.						
5				Hydrophytic		
	30 :	=Total Cover		Vegetation		
50% of total cover:	15 20%	of total cover:	6		No	

SOIL Sampling Point: 20-B

	·	to the dept				tor or co	onfirm the absence	of indicators.)		
Depth	Matrix			Featur		1 2	- .	5		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Rer	marks	
0-2	10YR 3/2	100					Loamy/Clayey			
2-10	10YR 4/3	100					Sandy			
10-20	2.5Y 5/4	100					Sandy			
									_	
¹Type: C=Co	ncentration, D=Depl	etion, RM=l	Reduced Matrix, M	IS=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=	-Matrix.	
	ndicators: (Applica							for Problematic Hy		
Histosol			Thin Dark Su			S, T, U)	1 cm M	Muck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	Muck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15:	3B, 153	SD)		Coast I	Prairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outs	side MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	ed Vertic (F18)		
	Bodies (A6) (LRR P,		Depleted Ma				•	side MLRA 150A, 1	*	
	cky Mineral (A7) (LR		Redox Dark		` '			ont Floodplain Soils		
	esence (A8) (LRR U))	Depleted Dai					alous Bright Floodpla	ain Soils (F20)	
	ck (A9) (LRR P, T)	(4.4.4)	Redox Depre		(F8)		(MLRA 153B) Red Parent Material (F21)			
	Below Dark Surface	e (A11)	Marl (F10) (L		4) (MI DA	151)		` '	· (E00)	
	rk Surface (A12) airie Redox (A16) (M	II DA 150A)	Depleted Ocl					hallow Dark Surface side MLRA 138, 152	` '	
	ucky Mineral (S1) (L	•	Iron-Mangan Umbric Surfa					Islands Low Chrom		
	leyed Matrix (S4)	KK 0, 3)	Delta Ochric					RA 153B, 153D)	ia iviatrix (137)	
	edox (S5)		Reduced Ver				•	(Explain in Remarks)	
	Matrix (S6)		Piedmont Flo	•	, .		· — `	(Explain in Romano	,	
	face (S7) (LRR P, S	, T, U)	Anomalous E							
	e Below Surface (S8)		(MLRA 149	-				tors of hydrophytic v	egetation and	
	S, T, U)	,	Very Shallow			22)		and hydrology must	•	
			(MLRA 13	8, 152A	in FL, 15	54)	unle	ss disturbed or prob	olematic.	
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Prese	ent? Yes	NoX	
Remarks:										

Attachment 2.D.1 Page 150 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 8/7/2020	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point: 21-A	
Investigator(s): S. Kupiec	Sect	tion, Township, Range:			
Landform (hillside, terrace, etc.): Slope	•	elief (concave, convex, no	one): Convex	Slope (%): 2-4	
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77	· -	Datum:	
	<u>30.00000</u>	Long. 11			
Soil Map Unit Name: Craven clay loam			NWI classifica		
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro			cumstances" present		
Are Vegetation, Soil, or Hydro	logy naturally problema	tic? (If needed, expla	ain any answers in Re	emarks.)	
SUMMARY OF FINDINGS – Attach	site map showing sam	npling point location	ns, transects, im	nportant features, etc.	
Hydrophytic Vegetation Present?		Is the Sampled Area	Vac. V	No	
Hydric Soil Present? Wetland Hydrology Present?	Yes X No No	within a Wetland?	Yes X	No	
	163 X NO				
Remarks: Wetland at Flag BB-10.					
Welland at Flag BB 10.					
HYDROLOGY					
Wetland Hydrology Indicators:		S	Secondary Indicators	(minimum of two required)	
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac	ks (B6)	
Surface Water (A1)	Aquatic Fauna (B13)	_	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Patterns (B10)		
X Saturation (A3)	Hydrogen Sulfide Odor (0	C1)	Moss Trim Lines ((B16)	
Water Marks (B1)	Oxidized Rhizospheres o	on Living Roots (C3)	Dry-Season Wate	r Table (C2)	
Sediment Deposits (B2)	Presence of Reduced Iro	on (C4)	Crayfish Burrows	(C8)	
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	Geomorphic Posit		
Iron Deposits (B5)	Other (Explain in Remark	_	Shallow Aquitard		
Inundation Visible on Aerial Imagery (B7	7)	<u></u>	X FAC-Neutral Test		
Water-Stained Leaves (B9)		_	Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
	No X Depth (inches):			V V N-	
Saturation Present? Yes X	No Depth (inches):	vvetland Hy	ydrology Present?	Yes X No	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	nitoring well aerial photos pro	evious inspections) if ava	ilahle:		
Describe Recorded Bata (Stream gauge, me	wittering well, derial priotos, pro	evious inspections), ii ava	mabio.		
Remarks:					

VEGETATION (Five Strata) – Use scier	•		Sampling Point: 21-A
<u>Tree Stratum</u> (Plot size: 30)	Absolute Dominant % Cover Species?		Dominance Test worksheet:
1.			Number of Dominant Species
2			That Are OBL, FACW, or FAC:5 (A)
3.			Total Number of Dominant
4.			Species Across All Strata: 5 (B)
5.			Percent of Dominant Species
6			That Are OBL, FACW, or FAC:100.0% (A/B)
	=Total Cove	er	Prevalence Index worksheet:
50% of total cover:	20% of total cov	er:	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)			OBL species 5 x 1 = 5
1. inus taeda	15 Yes	FAC	FACW species 65 x 2 = 130
2.			FAC species 20 x 3 = 60
3.			FACU species 0 x 4 = 0
4.			UPL species 0 x 5 = 0
5			Column Totals: 90 (A) 195 (B)
6			Prevalence Index = B/A = 2.17
	15 =Total Cove		Hydrophytic Vegetation Indicators:
50% of total cover:	8 20% of total cov	er: 3	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)		=	X 2 - Dominance Test is >50%
1. lex opaca	5Yes	FAC	X 3 - Prevalence Index is ≤3.0 ¹
2.			Problematic Hydrophytic Vegetation ¹ (Explain)
3.			
4.			
5.			¹ Indicators of hydric soil and wetland hydrology must be
6.			present, unless disturbed or problematic.
50% of total cover:	5 =Total Cove		Definitions of Five Vegetation Strata:
Herb Stratum (Plot size: 30)	20% OF TOTAL COV	er: 1	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
1. h nchospora inexpansa	25 Yes	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
Dichanthelium scoparium	25 Yes	FACW	Continue Was dealers and other was dealers
upatorium perfoliatum	15 Yes	FACW	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Ludwigia alternifolia	5 No	OBL	than 3 in. (7.6 cm) DBH.
5.	3 140		Shrub - Woody Plants, excluding woody vines,
6.			approximately 3 to 20 ft (1 to 6 m) in height.
7.			
8.		_	Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
9.		_	plants, except woody vines, less than approximately 3
10		_	ft (1 m) in height.
11.			Woody Vine – All woody vines, regardless of height.
· · ·	70 =Total Cove	er	
50% of total cover:	35 20% of total cov		
Woody Vine Stratum (Plot size: 30)			
1			
2.			
3.			
1			
5.			
•	=Total Cove	er	Hydrophytic Vegetation
50% of total cover:	20% of total cov		Present? Yes X No

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 21-A

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ument t x Featur		ator or co	onfirm the absence o	of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-10	10YR 4/2	95	10YR 5/8	5	С	М	Loamy/Clayey	Prominent redox concentrations			
10-20	10YR 5/3	75	7.5YR 5/6	25	С	М	Loamy/Clayey	Prominent redox concentrations			
		_									
¹Type: C=Co	oncentration, D=Depl	etion, RM	Reduced Matrix, N	/IS=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators: (Applical	ble to all I	_RRs, unless othe	rwise r	noted.)		Indicators f	or Problematic Hydric Soils ³ :			
Histosol	(A1)		Thin Dark Su	urface (S	39) (LRR	S, T, U)	1 cm M	uck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	ID)		Coast P	rairie Redox (A16)			
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	ide MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)			
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3))		(outsi	ide MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anomal	ous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Pa	rent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLR/	A 151)	Very Sh	allow Dark Surface (F22)			
Coast Pr	airie Redox (A16) (M	LRA 150A	(A) Iron-Mangan	ese Ma	sses (F1	2) (LRR (D, P, T) (outsi	ide MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa	ace (F13	B) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)				
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLRA 153B, 153D)				
Sandy R	edox (S5)		Reduced Ve	rtic (F18	B) (MLRA	150A, 1	50B) Other (Explain in Remarks)				
Stripped	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLR	2A 149A)				
Dark Sur	face (S7) (LRR P, S,	, T, U)	Anomalous E	Bright Fl	loodplain	Soils (F2					
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
	S, T, U)		Very Shallow				wetla	nd hydrology must be present,			
	·		(MLRA 13				unless disturbed or problematic.				
Restrictive L	ayer (if observed):										
Type:											
Depth (in	iches):						Hydric Soil Prese	nt? Yes X No			
Remarks:							•				

Attachment 2.D.1 Page 153 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville	Э	Sampling Date: 8	3/7/20	
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point:	21-B	
Investigator(s): S. Kupiec	Se	ction, Township, Range:				
Landform (hillside, terrace, etc.): Slope	Local	relief (concave, convex, n	none): Convex	Slope (%):	2-4	
Subregion (LRR or MLRA): LRR P, MLRA 1			7.617337	Datum:		
	20.000013	Long. 4				
Soil Map Unit Name: Craven clay loam			NWI classifica			
Are climatic / hydrologic conditions on the sit				explain in Remarks.		
Are Vegetation, Soil, or Hydro	ologysignificantly distu	rbed? Are "Normal Ci	rcumstances" present	t? Yes X	No	
Are Vegetation, Soil, or Hydro	ologynaturally problem	atic? (If needed, exp	lain any answers in R	emarks.)		
SUMMARY OF FINDINGS – Attach	n site map showing sa	mpling point location	ons, transects, ir	nportant featur	es, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland at Flag BE-2.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two re	quired)	
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crad	cks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	-	Sparsely Vegetat	ed Concave Surface	e (B8)	
High Water Table (A2)	Marl Deposits (B15) (LF	RR U)	Drainage Pattern	s (B10)		
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres	-	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced In		Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (D2)			
Iron Deposits (B5)	Other (Explain in Rema	rks)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	1)	-	FAC-Neutral Tes Sphagnum Moss			
			Spriagrium woss	(D6) (LRR 1, 0)		
Field Observations: Surface Water Present? Yes	No. V. Donth (inches)					
Surface Water Present? Yes Water Table Present? Yes	No X Depth (inches) No X Depth (inches)					
Saturation Present? Yes	No X Depth (inches)		lydrology Present?	Yes	No X	
(includes capillary fringe)	No X Deptir (inches)	Wettand i	ryurology r resent:	163	NO X	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	revious inspections), if av	ailable:			
33.	3 · , · , · , ,	.,,				
Remarks:						

50% of total cover:

30

<u>Tree Stratum</u> (Plot size: 30)

Sapling Stratum (Plot size: 30)

Shrub Stratum (Plot size: 30)

inus taeda

1.
 2.
 3.
 4.
 6.

3.
 4.
 5.

3.

5.

1.

2.

3.

4. 5. 6. 7. 8.

3. 4.

Herb Stratum (Plot size:

ndropogon irginicus

upatorium perfoliatum

ac era tomentosa

Absolute

Dominant

=Total Cover

20% of total cover:

15 =Total Cover

=Total Cover

Yes

Yes

Yes

60 =Total Cover

=Total Cover

20% of total cover:

FAC

FACW

FACU

Hydrophytic

Vegetation

Present?

15 Yes FAC

50% of total cover: 8 20% of total cover: 3

50% of total cover: 20% of total cover:

30

15

15

50% of total cover: ____30 ___ 20% of total cover: ___12

% Cover Species?

Indicator

Status

				nt 2.D.1 I of 230		
	Samplin	g Po	int:	21-B	,	
Dominance Test v	vorkshee	t:				
Number of Domina That Are OBL, FAC				3	(<i>P</i>	A)
Total Number of Do Species Across All				4	_ (E	3)
Percent of Dominal That Are OBL, FAC	W, or FA	C:	-	75.0%	_ (<i>F</i>	\/B)
Prevalence Index		et:	N 4	برط برامنا		
Total % Cove OBL species	0		1 =	Itiply by: 0		•
FACW species	15		' = _ 2 =	30		•
FAC species	45	•	2 - - 3 =	135		•
FACU species	15	•	0 - 4 =	60		•
UPL species	0		· - 5 =	0		•
Column Totals:	75	(A)	_	225		(B)
Prevalence		. ` ′	-	3.00		(-)
Hydrophytic Vege			_	0.00		•
1 - Rapid Test				netation		
X 2 - Dominance	-		0 105	gotation		
3 - Prevalence						
Problematic Hy			etatio	on ¹ (Expla	nin)	
	a. op y		o tati	(=xp.c		
¹ Indicators of hydric present, unless dis					mu	st be
Definitions of Five	Vegetat	ion S	Strata	a:		
Tree – Woody plan approximately 20 ft (7.6 cm) or larger in	(6 m) or	more	in he	eight and		
Sapling – Woody papproximately 20 ft than 3 in. (7.6 cm)	(6 m) or					s
Shrub - Woody Pla approximately 3 to		_		-		
Herb – All herbace herbaceous vines, plants, except wood ft (1 m) in height.	regardles	s of s	size, a	and wood	У	
Woody Vine – All v	woody vin	es, r	egard	lless of he	eigh	nt.

Remarks:	(If observed,	list morphological	adaptations	below.

50% of total cover:

Woody Vine Stratum (Plot size: 30)

No

Yes X

SOIL Sampling Point: 21-B

	•	to the dep				ator or co	onfirm the absence o	of indicators.)			
Depth	Matrix			Featur		12	Tardina	Damani	_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	<u>3</u>		
0-2	10YR 4/2	100					Loamy/Clayey				
2-20	2.5Y 5/4	90	10YR 4/2	5	D	M	Loamy/Clayey	-			
			10YR 4/6	5	С	M		Distinct redox con-	centrations		
4											
	oncentration, D=Depl					d Grains.		PL=Pore Lining, M=Mati			
Hyaric Soii i Histosol	ndicators: (Applica	bie to all L	RRS, uniess otne. Thin Dark Su			S T 11)		for Problematic Hydric uck (A9) (LRR O)	: Solls":		
	ipedon (A2)		Barrier Island					uck (A3) (LRR 0)			
Black His			(MLRA 15		,	12)		rairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck		•	RR O)		ide MLRA 150A)			
	Layers (A5)		Loamy Gleye			- /	•	d Vertic (F18)			
	Bodies (A6) (LRR P,	T, U)	Depleted Mar					ide MLRA 150A, 150B)			
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark S	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ce (F7)		Anomal	ous Bright Floodplain S	oils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLRA 153B)				
	Below Dark Surface	(A11)	Marl (F10) (L					rent Material (F21)			
	rk Surface (A12)		Depleted Ocl					allow Dark Surface (F2	,		
	airie Redox (A16) (M		· 					ide MLRA 138, 152A in			
	ucky Mineral (S1) (L	RR (), (S)	Umbric Surfa					slands Low Chroma Ma	atrix (157)		
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ver				(MLRA 153B, 153D) 50B) Other (Explain in Remarks)				
	Matrix (S6)		Piedmont Flo	,	, .		· — `	-xpiaiii iii Neiliaiks)			
	face (S7) (LRR P, S,	. T. U)	Anomalous E		,	, ,	*				
	e Below Surface (S8)		(MLRA 149	•		•	³ Indicators of hydrophytic vegetation and				
	S, T, U)	,	Very Shallow Dark Surface (F22)				wetland hydrology must be present,				
•				(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type:											
Depth (in	nches):						Hydric Soil Prese	nt? Yes	No X		
Remarks:											

Attachment 2.D.1 Page 156 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 8/	7/2020		
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	21-C		
Investigator(s): S. Kupiec	Se	ction, Township, Range:		_			
Landform (hillside, terrace, etc.): Slope	Local	relief (concave, convex, ı	none): Convex	Slope (%):	2-4		
Subregion (LRR or MLRA): LRR P, MLRA 1			7.618320	Datum:			
Soil Map Unit Name: Dothan loamy sand	<u> </u>		NWI classifica				
Are climatic / hydrologic conditions on the sit	e typical for this time of year?	Yes X		explain in Remarks.)			
			ircumstances" present				
Are Vegetation, Soil, or Hydro			•		NO		
Are Vegetation, Soil, or Hydro			olain any answers in Re	,			
SUMMARY OF FINDINGS – Attach	site map showing sa	mpling point location	ons, transects, in	nportant feature	es, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks:							
Upland at Flag BG-27.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two red	quired)		
Primary Indicators (minimum of one is requi			Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface	(B8)		
High Water Table (A2)	Marl Deposits (B15) (LF		Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor						
Water Marks (B1)		res on Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced II						
Drift Deposits (B3)		ction in Tilled Soils (C6) Saturation Visible on Aerial Imag			C9)		
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)	<u>—</u> · · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B	Other (Explain in Rema	iiks)	, ,				
Water-Stained Leaves (B9)	')		FAC-Neutral Test Sphagnum Moss	` '			
			Ophagham woss	(DO) (ERR 1, O)			
Field Observations: Surface Water Present? Yes	No. V Donth (inches)						
	No X Depth (inches) No X Depth (inches)						
Saturation Present? Yes	No X Depth (inches)		Hydrology Present?	Yes 1	do Y		
(includes capillary fringe)	No A Deptil (iliches)		rydrology r resent:	1631	No X		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, r	previous inspections), if a	/ailable:				
(0 0 1		, ,,					
Remarks:							

Attachment 2.D.1 Page 157 of 230							
Samplir	ng Poi	int:	21-0	<u> </u>			
ance Test workshee	et:						
r of Dominant Specie e OBL, FACW, or FA			4	_(A)			
umber of Dominant Across All Strata:	_		6	(B)			
of Dominant Specie e OBL, FACW, or FA			66.7%	(A/B)			
ence Index workshe	eet:						
otal % Cover of:		М	ultiply by:				
ecies 0	x .	1 =	0	_			
species 20	_	2 =	40	_			
ecies 25	_	3 =	75	_			
species 5	-	4 =	20	_			
ecies 0	-	5 =	0	_			
Totals: 50	- ^ ` (A)	_	135	(B)			
Prevalence Index = I	- ` ′		2.70	— (D)			
hytic Vegetation In		orc:	2.70				
Rapid Test for Hydro			actation				
Dominance Test is >		o ve	gotation				
Prevalence Index is							
blematic Hydrophytic		otot	ion ¹ (Evol	ain)			
ынанс пунгорпун	c veg	elal	ion (Expi	ali i)			
ors of hydric soil and , unless disturbed or				must be			
ons of Five Vegeta							
Woody plants, exclud							
mately 20 ft (6 m) or) or larger in diamete	more	in h	neight and				
, or larger in anamete	a. z		org (-				
g – Woody plants, ex mately 20 ft (6 m) or n. (7.6 cm) DBH.		_	-				
Woody Plants, excluding woody vines, mately 3 to 20 ft (1 to 6 m) in height.							
All herbaceous (non eous vines, regardles except woody vines, in height.	ss of s	size,	and wood	dy			
Vine – All woody vir	nes, re	egaı	dless of h	eight.			

<u>Tree Stratum</u> (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:	
1				Number of Dominant Species	Ţ
2.				That Are OBL, FACW, or FAC: 4	(A)
3.				Total Number of Dominant	
4.				Species Across All Strata: 6	(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7%	(A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0	_
1. uercus nigra	5	Yes	FAC	FACW species 20 x 2 = 40	_
2. Li uidambar st raciflua	5	Yes	FAC	FAC species 25 x 3 = 75	_
3. inus taeda	5	Yes	FAC	FACU species 5 x 4 = 20	_
4. uercus rubra	5	Yes	FACU	UPL species 0 x 5 = 0	_
5				Column Totals: 50 (A) 135	_ (B)
6.				Prevalence Index = B/A = 2.70	_
	20	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	10 20%	of total cover:	4	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:)				X 2 - Dominance Test is >50%	
1				3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Vegetation ¹ (Explain	n)
3.					
4					
5.				¹ Indicators of hydric soil and wetland hydrology m	ust be
6.				present, unless disturbed or problematic.	
		=Total Cover		Definitions of Five Vegetation Strata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in height and 3	
upatorium perfoliatum	20	Yes	FACW	(7.6 cm) or larger in diameter at breast height (DE	эн).
2. upatorium spp	15	Yes		Sapling – Woody plants, excluding woody vines,	
3. ubus argutus	10	No	FAC	approximately 20 ft (6 m) or more in height and le	ess
4. S mph otrichum spp	10	No		than 3 in. (7.6 cm) DBH.	
5. estuca spp	10	No		Shrub - Woody Plants, excluding woody vines,	
6				approximately 3 to 20 ft (1 to 6 m) in height.	
7		·		Herb – All herbaceous (non-woody) plants, include	ling
8				herbaceous vines, regardless of size, and woody	
9				plants, except woody vines, less than approximat ft (1 m) in height.	ely 3
10					
11				Woody Vine – All woody vines, regardless of hei	ght.
	65	=Total Cover			
50% of total cover:	33 20%	of total cover:	13		
Woody Vine Stratum (Plot size:)					
1		·			
2					
3					
4					
5				Hydrophytic	
		=Total Cover		Vegetation	
50% of total cover:	20%	of total cover:		Present? Yes X No No	
3. 4. 5.	20%			9	_

SOIL Sampling Point: 21-C

	•	to the dept				ator or co	onfirm the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur	res Type ¹	Loc ²	Texture	Rem	arke		
			Color (moist)	70	Туре	LOC		Rem	aiks		
0-4	10YR 3/2	100					Loamy/Clayey				
4-20	10YR 5/4	100					Loamy/Clayey				
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=N	 ∕/atrix.		
	ndicators: (Applica							for Problematic Hyd			
Histosol	(A1)		Thin Dark Su	urface (S	39) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)			
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	fuck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	BD)		Coast I	Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck			RR O)	•	side MLRA 150A)			
	Layers (A5)		Loamy Gleye		` '			ed Vertic (F18)			
	Bodies (A6) (LRR P,		Depleted Ma					side MLRA 150A, 150			
	cky Mineral (A7) (LR	•	Redox Dark		, ,			ont Floodplain Soils (·		
	esence (A8) (LRR U)		Depleted Da					ılous Bright Floodplai RA 153B)	n Solis (F20)		
	ck (A9) (LRR P, T) Below Dark Surface	(Δ11)	Redox Depre		(ГО)		•	arent Material (F21)			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)			Depleted Oc		1) (MI RA	\ 151)		hallow Dark Surface	(F22)		
								side MLRA 138, 152			
Sandy Mucky Mineral (S1) (LRR O, S)			Umbric Surfa		•	, .		Islands Low Chroma	,		
	leyed Matrix (S4)		Delta Ochric					RA 153B, 153D)	,		
	edox (S5)		Reduced Ve				150B) Other (Explain in Remarks)				
Stripped	Matrix (S6)		Piedmont Flo	oodplair	Soils (F	19) (MLR	RA 149A)				
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous E	Bright F	loodplain	Soils (F2	20)				
	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow				wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1!	54)	unle	ss disturbed or proble	ematic.		
	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Prese	ent? Yes	NoX		
Remarks:											

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville	ı	Sampling Date: 9/22/2	20
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point: 22-	-A
Investigator(s): S. Kupiec		tion, Township, Range:			
Landform (hillside, terrace, etc.): Drainagev		elief (concave, convex, no	one): Concave	Slope (%): 1-2	-2
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77	· ·	Datum:	
		Long. <u>-77</u>			
Soil Map Unit Name: Woodington fine sandy			NWI classifica		
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro	·		cumstances" present		
Are Vegetation, Soil, or Hydro	logynaturally problema	tic? (If needed, explain	ain any answers in Re	emarks.)	
SUMMARY OF FINDINGS - Attach	ı site map showing sam	npling point locatio	ns, transects, in	nportant features, e	etc.
Hydrophytic Vegetation Present?		Is the Sampled Area	Van V	Me	
Hydric Soil Present? Wetland Hydrology Present?	Yes X No	within a Wetland?	Yes X	No	
	res				
Remarks: Wetland at Flag BJ-2.					
Wolland at Flag 20 2.					
HYDROLOGY					
Wetland Hydrology Indicators:		(Secondary Indicators	(minimum of two required	d)
Primary Indicators (minimum of one is requi	ired; check all that apply)	<u> </u>	Surface Soil Crac		
Surface Water (A1)	Aquatic Fauna (B13)	-		ed Concave Surface (B8))
X High Water Table (A2)	Marl Deposits (B15) (LRI	R U)	Drainage Patterns	s (B10)	
X Saturation (A3)	Hydrogen Sulfide Odor (0	C1)	Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres o	on Living Roots (C3)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iro	on (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	X Geomorphic Position (D2)		
Iron Deposits (B5)	Other (Explain in Remark	_	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B	7)	_	X FAC-Neutral Test (D5)		
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
	No Depth (inches):				
Saturation Present? Yes X	No Depth (inches):	0 Wetland H	ydrology Present?	Yes X No	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	onitaring wall parial photos pr	avious inspections) if ave	silohla.		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial priotos, pre	evious inspections), ii ava	aliable.		
Remarks:					

Absolute

Dominant

Attachment 2.D.1 Page 160 of 230							
	Sampling	g Poi	nt:	22-A			
ninance Test	worksheet	t:					
nber of Domin Are OBL, FA				2	(A)	
Il Number of Dominant cies Across All Strata: 2 (E							
cent of Domin Are OBL, FA			1	00.0%	(A	/B)	
/alence Index	x workshee	et:					
Total % Cov	er of:		Mu	Itiply by:			
species	10	x 1	= _	10			
W species	10	x 2	2 = _	20			
species	75	x 3	3 = _	225			
U species	0	x 4	1 = _	0			
species	0	x 5	5 = _	0			
ımn Totals:	95	(A)	_	255		(B)	
Prevalence	e Index = B	s/A =		2.68			
cators of hydent, unless di					nus	st be	
nitions of Fiv							
e – Woody pla roximately 20 cm) or larger	ft (6 m) or r	more	in he	eight and			
ling – Woody oximately 20 3 in. (7.6 cm	ft (6 m) or r		_	-		;	
ub - Woody P oximately 3 to							
o – All herbaceous (non-woody) plants, including aceous vines, regardless of size, <u>and</u> woody ts, except woody vines, less than approximately 3 m) in height.							
ody Vine – Al	l woody vin	es, re	egard	lless of he	eigh	t.	

Tree Stratum (Plot size: 30)	Absolute Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.	· 		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3. 4.	·		Total Number of Dominant Species Across All Strata: 2 (B)
5. 6.			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
-	=Total Cover		Prevalence Index worksheet:
50% of total cover:	20% of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)			OBL species 10 x 1 = 10
1. Li uidambar st raciflua	15 Yes	FAC	FACW species 10 x 2 = 20
2			FAC species 75 x 3 = 225
3			FACU species 0 x 4 = 0
A			UPL species 0 x 5 = 0
	· —— —		
6			Prevalence Index = B/A = 2.68
	15 =Total Cover	_	Hydrophytic Vegetation Indicators:
50% of total cover:	8 20% of total cover:	3	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:)			X 2 - Dominance Test is >50%
1			X 3 - Prevalence Index is ≤3.0 ¹
2			Problematic Hydrophytic Vegetation ¹ (Explain)
3.			
4.			
5			¹ Indicators of hydric soil and wetland hydrology must be
6.			present, unless disturbed or problematic.
	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20% of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)			approximately 20 ft (6 m) or more in height and 3 in.
1. anicum irgatum	60 Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Scirpus c perinus	10 No	OBL	Sapling – Woody plants, excluding woody vines,
3. Carex crinita	5 No	FACW	approximately 20 ft (6 m) or more in height and less
4. hexia mariana	5 No	FACW	than 3 in. (7.6 cm) DBH.
5.		TAOV	Shrub - Woody Plants, excluding woody vines,
6	· —— -		approximately 3 to 20 ft (1 to 6 m) in height.
7.	· —— -		
	· ——		Herb – All herbaceous (non-woody) plants, including
8.	·		herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3
9.	· —— —— -		ft (1 m) in height.
10	· —— —— -		Woody Vine – All woody vines, regardless of height.
11			Woody virie – All woody viries, regardless of fielght.
	80 =Total Cover		
50% of total cover:	40 20% of total cover:	16	
Woody Vine Stratum (Plot size: 30)			
1			
2			
3.	<u> </u>		
4.			
5.	_ 		Lh release levelia
	=Total Cover		Hydrophytic
50% of total cover:	20% of total cover:		Vegetation Present? Yes X No
Remarks: (If observed, list morphological adaptati			

SOIL Sampling Point: 22-A

	•	o the dept				ator or c	onfirm the absence o	of indicators.)		
Depth	Matrix			c Featur		12	Testone	Demode		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-18	10YR 3/1	95	10YR 4/6	5	<u>C</u>	PL	Loamy/Clayey	Prominent redox concentrations		
18-20	10YR 5/1	95	10YR 5/8	5	С	M	Loamy/Clayey	Prominent redox concentrations		
1							2			
	ncentration, D=Depl					d Grains.		PL=Pore Lining, M=Matrix.		
Hyaric Soil II Histosol (ndicators: (Applical	oie to all L				C T IIV		For Problematic Hydric Soils ³ :		
	ipedon (A2)		Thin Dark Su Barrier Island					uck (A9) (LRR O) uck (A10) (LRR S)		
Black His			(MLRA 15		`	12)		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck		,	RR ()		ide MLRA 150A)		
	Layers (A5)		Loamy Gleye				•	d Vertic (F18)		
	Bodies (A6) (LRR P,	T, U)	X Depleted Ma					ide MLRA 150A, 150B)		
	cky Mineral (A7) (LR		X Redox Dark				Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	A 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Par	rent Material (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	A 151)	Very Sh	allow Dark Surface (F22)		
	airie Redox (A16) (M							ide MLRA 138, 152A in FL, 154)		
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa					slands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)		Delta Ochric				•	A 153B, 153D)		
	edox (S5)		Reduced Ve	•	, .			Explain in Remarks)		
	Matrix (S6)	T 11)	Piedmont Flo	•	`	, ,	•			
	face (S7) (LRR P, S,		Anomalous E	-	•	,	· _			
	e Below Surface (S8) S, T, U))	(MLRA 14					ors of hydrophytic vegetation and nd hydrology must be present,		
(LRR 3	5, 1, 0)		Very Shallow (MLRA 13				unless disturbed or problematic.			
Postrictivo I	.aver (if observed):		(WEIGT 13	0, 1027		J-1)	I	is distarbed of problematio.		
Type:	.ayer (II observed).									
Depth (in	oboo):						Hydric Soil Prese	nt? Voc V No		
							nyunc 3011 Prese	nt? Yes X No		
Remarks:										

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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 9/	/22/20	
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	22-B	
Investigator(s): S. Kupiec	Se	ection, Township, Range:				
Landform (hillside, terrace, etc.): Slope	Loca	I relief (concave, convex,	none): Convex	Slope (%):	2-3	
Subregion (LRR or MLRA): LRR P, MLRA 1			77.619030	Datum:		
Soil Map Unit Name: Mattaponi sandy loam			NWI classifica			
Are climatic / hydrologic conditions on the sit		? Yes X		explain in Remarks.)		
			Circumstances" present			
Are Vegetation, Soil, or Hydro			·		NO	
Are Vegetation, Soil, or Hydro			plain any answers in R			
SUMMARY OF FINDINGS – Attach	ı site map showing sa	impling point locati	ons, transects, in	nportant feature	es, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland near Flag BJ-2.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two rec	<u>quired)</u>	
Primary Indicators (minimum of one is requi			Surface Soil Crac			
Surface Water (A1)	Aquatic Fauna (B13)			ted Concave Surface	(B8)	
High Water Table (A2)	Marl Deposits (B15) (L		Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres					
Sediment Deposits (B2)	Presence of Reduced I					
Drift Deposits (B3)	Recent Iron Reduction			• • •	C9)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7 Other (Explain in Rema	,	Geomorphic Posi	, ,		
Inundation Visible on Aerial Imagery (B		aiks)	FAC-Neutral Tes			
Water-Stained Leaves (B9)	1)		Sphagnum Moss	, ,		
		<u> </u>	Opriagram Moss	(DO) (ERRY 1, O)		
Field Observations: Surface Water Present? Yes	No. V. Donth (inches	١.				
	No X Depth (inches)					
Saturation Present? Yes	No X Depth (inches)		Hydrology Present?	Yes N	No Y	
(includes capillary fringe)	No X Deptil (inches)) wettand	riyarology Fresent:	1631	No X	
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos,	previous inspections), if a	vailable:			
(3 3 7		, ,,				
Remarks:						

/EGETATION (Five Strata) – Use scient	ific names	of plants.		Sampling Point	t: 22-B	3
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
2.				Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
3. 4.				Total Number of Dominant Species Across All Strata:	4	(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0%	(A/B)
	;	=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:30)				OBL species0 x 1 :	= 0	
Li uidambar st raciflua	10	Yes	FAC	FACW species 10 x 2 :	= 20	
2.				FAC species 70 x 3 :	= 210	
3.				FACU species 10 x 4 :	= 40	
4.				UPL species 0 x 5 :	= 0	
5.				Column Totals: 90 (A)	270	(B)
5.				Prevalence Index = B/A =	3.00	``
	10 =	=Total Cover		Hydrophytic Vegetation Indicator		
50% of total cover:		of total cover:	2	1 - Rapid Test for Hydrophytic		
Shrub Stratum (Plot size: 30)		,		X 2 - Dominance Test is >50%	V 0 9 0 1	
1				3 - Prevalence Index is ≤3.0 ¹		
					·-··an1 (Evnls	- !\
2.				Problematic Hydrophytic Veget	:ation (⊏xpio	in)
3.						
4.						
5				¹ Indicators of hydric soil and wetlan		must be
6				present, unless disturbed or probler	matic.	
	,	=Total Cover		Definitions of Five Vegetation Str	rata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wo		
Herb Stratum (Plot size:)				approximately 20 ft (6 m) or more in	n height and	
1. anicum irgatum	35	Yes	FAC	(7.6 cm) or larger in diameter at bre	east height (L	DBH).
2. Solidago rugosa	25	Yes	FAC	Sapling – Woody plants, excluding	woody vines	s.
3. galinis purpurea	10	No	FACW	approximately 20 ft (6 m) or more in		
Desmodium paniculatum	5	No	FACU	than 3 in. (7.6 cm) DBH.	-	
5.			17.45	Shrub - Woody Plants, excluding w	woody vines.	
6.				approximately 3 to 20 ft (1 to 6 m) in		
o 7.					-	
				Herb – All herbaceous (non-woody)		
8				herbaceous vines, regardless of siz plants, except woody vines, less that		
9.				ft (1 m) in height.	απαρριοπ	alciy c
10.					" of b	· L- 4
11				Woody Vine – All woody vines, reg	jardless or re	eight.
	75 =	=Total Cover				
	38 20%	of total cover:	15			
Woody Vine Stratum (Plot size:)						
1. Lonicera aponica	5	Yes	FACU			
2.						
3.						
4.						
· -						
5				Hydrophytic		
5	5 :	-Total Cover				
550% of total cover:		=Total Cover	1	Vegetation	No	

SOIL Sampling Point: 22-B

	•	to the dep				ator or c	onfirm the absence o	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur %	res Type ¹	Loc ²	Texture	Rema	arke	
			Color (moist)		Туре	LUC		Keme	aiks	
0-2	10YR 4/3	100					Loamy/Clayey			
2-20	10YR 5/4	95	10YR 4/6	5	С	M	Loamy/Clayey	Distinct redox of	oncentrations	
¹ Type: C=Co	ncentration, D=Depl	etion PM-	-Peduced Matrix M	 1S_Mas	ked Sand		² Location: F	L=Pore Lining, M=N		
	ndicators: (Application)					J Grains.		for Problematic Hyd		
Histosol (bic to air i	Thin Dark Su			S, T, U)		uck (A9) (LRR O)		
	ipedon (A2)		Barrier Island					uck (A10) (LRR S)		
Black His			(MLRA 15			,		rairie Redox (A16)		
Hydroger	Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)		de MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic E	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outsi	de MLRA 150A, 150)B)	
5 cm Mud	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (f	F19) (LRR P, T)	
Muck Presence (A8) (LRR U) Depleted Dark Surface (F					ice (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Mud	Redox Depre	essions	(F8)		(MLR	A 153B)				
Depleted	Marl (F10) (L					rent Material (F21)				
	rk Surface (A12)		Depleted Oc					allow Dark Surface (•	
Coast Prairie Redox (A16) (MLRA 150A)					•			de MLRA 138, 152A		
	ucky Mineral (S1) (Ll	RR (J, S)	Umbric Surfa					slands Low Chroma	Matrix (1S7)	
	eyed Matrix (S4)		Delta Ochric Reduced Ve				•	A 153B, 153D)		
Sandy Re	Matrix (S6)		Piedmont Flo					Explain in Remarks)		
	face (S7) (LRR P, S,	T 11)	Anomalous E							
	e Below Surface (S8)	•	(MLRA 14					ors of hydrophytic ve	getation and	
(LRR S		'	Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
`	, ,		(MLRA 13		,	,	unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil Prese	nt? Yes	No X	
Remarks:	<u> </u>		<u> </u>				<u> </u>	<u> </u>	<u></u>	

Attachment 2.D.1 Page 165 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 9/	22/20	
Applicant/Owner: Dominion Energy Virgir	nia		State: VA	Sampling Point:	22-C	
Investigator(s): S. Kupiec	Secti	ion, Township, Range:				
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, non	ne): Convex	Slope (%):	1-2	
Subregion (LRR or MLRA): LRR P, MLRA 13		Long: -77.6		Datum:		
	10A Lat. 00.000044	Long77.c				
Soil Map Unit Name: Mattaponi sandy loam			NWI classificat			
Are climatic / hydrologic conditions on the site			<u> </u>	explain in Remarks.)		
Are Vegetation, Soil, or Hydrol			umstances" present		10	
Are Vegetation, Soil, or Hydrol	ogynaturally problemat	ic? (If needed, explain	n any answers in Re	emarks.)		
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	s, transects, im	portant feature	s, etc.	
Hadronkoffa Vanatatian Barando	Van Na V	- H C				
, , , ,		s the Sampled Area	Voc	No. V		
,	Yes No X	within a Wetland?	Yes	No X		
	resNoX					
Remarks: Upland at BL-7.						
opiana at BE 7.						
HYDROLOGY						
Wetland Hydrology Indicators:		<u>Se</u>	condary Indicators	(minimum of two rec	quired)	
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Crack	ks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	_	Sparsely Vegetate	ed Concave Surface	(B8)	
High Water Table (A2)	Marl Deposits (B15) (LRF	R U)	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (C		Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres or		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron					
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	_	on Aerial Imagery (39)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark	-	Geomorphic Posit Shallow Aquitard (` ,		
Inundation Visible on Aerial Imagery (B7			FAC-Neutral Test			
Water-Stained Leaves (B9)	,	_	Sphagnum Moss	` '		
Field Observations:				(23) (2.111 1) 3)		
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetland Hyd	drology Present?	YesN	No X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if availa	able:			
Demonto						
Remarks:						

	scientific names of plant	ts.	Sampling Point: 22-C
ree Stratum (Plot size:)	Absolute Domin % Cover Specie		Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
			Total Number of Dominant Species Across All Strata: 2 (B)
			Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/E
	=Total Co	over	Prevalence Index worksheet:
50% of total cover	: 20% of total of	cover:	Total % Cover of: Multiply by:
pling Stratum (Plot size: 30)		OBL species 0 $x = 0$
	,		FACW species 0 x 2 = 0
			FAC species 5 x 3 = 15
			FACU species 80 x 4 = 320
			UPL species 0 x 5 = 0
			Column Totals: 85 (A) 335 (E
			Prevalence Index = B/A = 3.94
	=Total Co	over	Hydrophytic Vegetation Indicators:
50% of total cover			1 - Rapid Test for Hydrophytic Vegetation
<u>irub Stratum</u> (Plot size: 30)			2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.0 ¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
			Troblematic Hydrophytic Vegetation (Explain)
			¹ Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
	=Total C		Definitions of Five Vegetation Strata:
50% of total cover			
erb Stratum (Plot size: 30)	20 % of total t		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Digitaria sanguinalis	80 Yes	s FACU	(7.6 cm) or larger in diameter at breast height (DBH).
Digitaria sanguinalis		S PACO	
-			Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
			than 3 in. (7.6 cm) DBH.
			Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
			approximately 6 to 20 tt (1 to 6 th) in the given
			Herb – All herbaceous (non-woody) plants, including
			herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately:
-			ft (1 m) in height.
			Moody Vine All woody vines regardless of beight
			Woody Vine – All woody vines, regardless of height.
			Woody Vine – All woody vines, regardless of height.
50% of total cover			Woody Vine – All woody vines, regardless of height.
50% of total cover	20% of total o	cover:16	Woody Vine – All woody vines, regardless of height.
50% of total cover		cover: <u>16</u>	Woody Vine – All woody vines, regardless of height.
50% of total cover 500 vine Stratum (Plot size: 30	: <u>40</u> 20% of total o	cover:16	Woody Vine – All woody vines, regardless of height.
50% of total coversion oody Vine Stratum (Plot size: 30 Campsis radicans	: <u>40</u> 20% of total o	cover:16	Woody Vine – All woody vines, regardless of height.
50% of total coversion oody Vine Stratum (Plot size: 30 Campsis radicans	: <u>40</u> 20% of total o	cover:16	Woody Vine – All woody vines, regardless of height.
50% of total cover 50% of total cover Cody Vine Stratum (Plot size: 30 Campsis radicans	: <u>40</u> 20% of total o	cover:16	Woody Vine – All woody vines, regardless of height. Hydrophytic

50% of total cover:

Remarks: (If observed, list morphological adaptations below.)

3

20% of total cover:

Present?

Yes

No X

SOIL Sampling Point: 22-C

	•	o the dep				ator or c	onfirm the absence o	of indicators.)		
Depth (inches)	Matrix Color (moist)	%		k Featur		Loc ²	Toyturo	Pomo	urko	
(inches)	Color (moist)		Color (moist)	%	Type ¹	LOC	Texture	Rema	IIKS	
0-4	10YR 3/2	100					Loamy/Clayey			
4-20	2.5Y 5/4	95	10YR 5/6	5	С	M	Loamy/Clayey	Distinct redox co	oncentrations	
									_	
									_	
1Typo: C-Co	oncentration, D=Depl	otion PM-	-Poducod Matrix M		kod Sand		² Location: F	L=Pore Lining, M=M	otriv	
	ndicators: (Applical					d Grains.		or Problematic Hyd		
Histosol			Thin Dark Su			S. T. U)		uck (A9) (LRR O)	110 30113 .	
	ipedon (A2)		Barrier Island					uck (A10) (LRR S)		
Black His			(MLRA 15		,	,		rairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outsi	ide MLRA 150A, 150	B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F	19) (LRR P, T)	
	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre		(F8)		(MLR			
	Below Dark Surface	(A11)	Marl (F10) (L		4) (14) 5			rent Material (F21)	500)	
	rk Surface (A12)	I D A 150 A	Depleted Oc				Very Shallow Dark Surface (F22) D, P, T) (outside MLRA 138, 152A in FL, 154)			
	airie Redox (A16) (M lucky Mineral (S1) (Ll		.) Iron-Mangan Umbric Surfa						-	
	leyed Matrix (S4)	KK 0, 3)	Delta Ochric				Barrier Islands Low Chroma Matrix (TS7) (MLRA 153B, 153D)			
	edox (S5)		Reduced Ver							
	Matrix (S6)		Piedmont Flo	•	, .			- Aprairi III - 1 (011) (11)		
	face (S7) (LRR P, S,	T, U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-				ors of hydrophytic veg	getation and	
(LRR S	S, T, U)		Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or proble	matic.	
Restrictive L	ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes	No <u>X</u>	
Remarks:							•			

Attachment 2.D.1 Page 168 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lakeviev	v 230 kV Rebuild City/County:	Greensville S	ampling Date: <u>9/22/20</u>		
Applicant/Owner: Dominion Energy Virginia		State: VA S	ampling Point: 23-A		
Investigator(s): S. Kupiec	Section, Townshi	p, Range:			
Landform (hillside, terrace, etc.): Floodplain	Local relief (concave	e, convex, none): None	Slope (%): 1-2		
Subregion (LRR or MLRA): LRR P, MLRA 133A	Lat: 36.596266	Long: -77.621261	Datum:		
Soil Map Unit Name: Roanoke loam	-	NWI classification	 D: PEM1A		
	sical for this time of year?				
Are climatic / hydrologic conditions on the site type. Are Vegetation , Soil , or Hydrology		es X No (If no, exp "Normal Circumstances" present?	lain in Remarks.) Yes X No		
Are Vegetation, Soil, or Hydrology		needed, explain any answers in Rema			
SUMMARY OF FINDINGS – Attach sit					
Hydric Soil Present? Yes	S X No Is the Samp within a Web		No		
Remarks: Wetland at Flag BO-3.					
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (mi	inimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks			
Surface Water (A1)	_Aquatic Fauna (B13)	Sparsely Vegetated	Concave Surface (B8)		
High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patterns (B	310)		
X Saturation (A3)	Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B1	Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres on Living Room	ts (C3) Dry-Season Water T	able (C2)		
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8	3)		
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils ((C6) Saturation Visible on	Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic Position	n (D2)		
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquitard (D3			
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral Test (D	5)		
Water-Stained Leaves (B9)		Sphagnum Moss (D8	B) (LRR T, U)		
Field Observations:					
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes X No	Depth (inches): 4	Wetland Hydrology Present?	Yes X No		
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	ring well periol photos, provious inches	otions) if available:			
Describe Recorded Data (stream gauge, monito	ing well, aerial priotos, previous inspec	Mons), ii avaliable.			
Remarks:					

VEGETATION (Five Strata) – Use scier		•		Sampling Point: 23-A	
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.				Number of Dominant Species	
2.				· ·	(A)
3.	_			Total Number of Dominant	
4				Species Across All Strata: 4	(B)
5				Percent of Dominant Species	
6					(A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:	_
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0	_
Li uidambar st raciflua	5	Yes	FAC	FACW species 80 x 2 = 160	_
2				FAC species 20 x 3 = 60	_
3				FACU species 0 x 4 = 0	_
4				UPL species 0 x 5 = 0	
5.				Column Totals: 100 (A) 220	_ (B)
6.				Prevalence Index = B/A = 2.20	
		=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	3 20%	of total cover:	1	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%	
1.				X 3 - Prevalence Index is ≤3.0 ¹	,
2.				Problematic Hydrophytic Vegetation ¹ (Explain	1)
3.	_				
4					
5.				¹ Indicators of hydric soil and wetland hydrology m	ust b
6.		=Total Cover		present, unless disturbed or problematic.	
50% of total cover:				Definitions of Five Vegetation Strata:	
Herb Stratum (Plot size: 30)	2070	of total cover:		Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3	in
Dichanthelium scoparium	45	Yes	FACW	(7.6 cm) or larger in diameter at breast height (DE	
upatorium perfoliatum	20	Yes	FACW	Couling Woods plants avaluation woods visco	
Solidago rugosa	10	No	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and le	ess
Chasmanthium laxum	10	No	FACW	than 3 in. (7.6 cm) DBH.	
5. anicum errucosum	5	No	FACW	Shrub - Woody Plants, excluding woody vines,	
6. h nchospora spp	_ <u> </u>	No	TACW	approximately 3 to 20 ft (1 to 6 m) in height.	
7		110			
8.				Herb – All herbaceous (non-woody) plants, includ herbaceous vines, regardless of size, and woody	
<u> </u>				plants, except woody vines, less than approximate	
10				ft (1 m) in height.	
11.				Woody Vine – All woody vines, regardless of height	ght.
	95	=Total Cover			
50% of total cover:		of total cover:	19		
Woody Vine Stratum (Plot size: 30)		0. 1010. 00 1011			
Smilax rotundifolia	5	Yes	FAC		
2.					
3.					
4.					
		=Total Cover		Hydrophytic Vegetation	

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 23-A

	•	o the dept				ator or c	onfirm the absence o	of indicators.)		
Depth (inches)	Matrix	0/		k Featur		1002	Toydura	Domorko		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	10YR 5/2	95	10YR 4/6	5	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations		
6-20	2.5Y 6/3	90	10YR 5/6	10	С	М	Loamy/Clayey	Prominent redox concentrations		
	-									
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applical	ble to all L	RRs, unless othe	rwise r	noted.)		Indicators f	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su	urface (S	39) (LRR	S, T, U)	1 cm Mi	uck (A9) (LRR O)		
	pipedon (A2)		Barrier Island		`	12)		uck (A10) (LRR S)		
Black His			(MLRA 15		•			Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	•	. , .	.RR O)	•	ide MLRA 150A)		
	Layers (A5)	T 11)	Loamy Gleye					d Vertic (F18)		
	Bodies (A6) (LRR P, cky Mineral (A7) (LR		X Depleted Ma Redox Dark				•	ide MLRA 150A, 150B)		
	esence (A8) (LRR U)		Depleted Da				Piedmont Floodplain Soils (F19) (LRR P, T) Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre				(MLRA 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L				Red Par	rent Material (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	A 151)	Very Sh	allow Dark Surface (F22)		
Coast Pr	airie Redox (A16) (M	LRA 150A	Iron-Mangan	ese Ma	sses (F12	2) (LRR (O, P, T) (outsi	ide MLRA 138, 152A in FL, 154)		
	lucky Mineral (S1) (L	RR O, S)	Umbric Surfa					slands Low Chroma Matrix (TS7)		
	leyed Matrix (S4)		Delta Ochric				•	A 153B, 153D)		
	edox (S5)		Reduced Ve	•	, .			Explain in Remarks)		
	Matrix (S6) face (S7) (LRR P, S,	T 11)	Piedmont Flo Anomalous E	•	,	, .	,			
	e Below Surface (S8)		(MLRA 14	-				ors of hydrophytic vegetation and		
	S, T, U)		Very Shallow				wetland hydrology must be present,			
	-, , -,		(MLRA 13					s disturbed or problematic.		
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 171 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - La	keview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/2	22/20	
Applicant/Owner: Dominion Energy Vi	rginia		State: VA	Sampling Point:	23-B	
Investigator(s): S. Kupiec	5	Section, Township, Range:	,			
Landform (hillside, terrace, etc.): Slope	Loc	al relief (concave, convex, r	none): Convex	Slope (%):	4-6	
Subregion (LRR or MLRA): LRR P, MLRA	133A Lat: 35.596562	Long: -7	7.621080	Datum:		
Soil Map Unit Name: Mattaponi sandy loa	<u> </u>		NWI classifica	ation: N/A		
Are climatic / hydrologic conditions on the		r? Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hyd			rcumstances" present		n	
					<u> </u>	
Are Vegetation, Soil, or Hyd			lain any answers in R			
SUMMARY OF FINDINGS – Attac	ch site map showing s	ampling point location	ons, transects, ir	nportant feature	s, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:		'				
Upland at Flag BO-3.						
LIVEROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:	walkan da aka aka ali dha kara aka			(minimum of two requ	<u>uired)</u>	
Primary Indicators (minimum of one is rec			Surface Soil Crac	` '	(DO)	
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) (I DD II)	Drainage Pattern	ted Concave Surface	(DO)	
Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines (B16)			
Water Marks (B1)		es on Living Roots (C3)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced	=	Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction			e on Aerial Imagery (C	(9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C		Geomorphic Pos		,	
Iron Deposits (B5)	Other (Explain in Rem	narks)	Shallow Aquitard	(D3)		
Inundation Visible on Aerial Imagery ((B7)		FAC-Neutral Tes	t (D5)		
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inche	·				
Water Table Present? Yes	No X Depth (inche	·				
Saturation Present? Yes	No X Depth (inche	s): Wetland F	Hydrology Present?	Yes N	o X	
(includes capillary fringe) Describe Recorded Data (stream gauge, i	monitoring well perial photos	nrevious inspections) if a	vailahle:			
Describe Necorded Data (stream gauge, i	nomoning wen, acriai priotos,	, previous irispections), ii av	allabic.			
Remarks:						

VEGETATION (Five Strata) – Use scien	tific names	of plants.		Sampling Point	:: 23-B
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	4 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0% (A/B)
	:	=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	= 0
1				FACW species 45 x 2 =	= 90
2.				FAC species 55 x 3 =	= 165
3.				FACU species10 x 4 =	= 40
4.				UPL species 30 x 5 =	= 150
5.				Column Totals: 140 (A)	445 (B)
6.				Prevalence Index = B/A =	3.18
		=Total Cover		Hydrophytic Vegetation Indicator	s:
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic \	
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	
1. hus copallinum	15	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹	
2				Problematic Hydrophytic Veget	ation ¹ (Explain)
3.					(/
4					
5.				1	
6.				¹ Indicators of hydric soil and wetlan present, unless disturbed or probler	
·	15	=Total Cover		Definitions of Five Vegetation Str	
50% of total cover:		of total cover:	3		
Herb Stratum (Plot size: 30)	0 2070	or total cover.		Tree – Woody plants, excluding wo approximately 20 ft (6 m) or more in	
	45	Yes	FACW	(7.6 cm) or larger in diameter at bre	
	30	Yes	FAC		
				Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in	
3. Solidago rugosa	25	Yes	FAC	than 3 in. (7.6 cm) DBH.	neight and less
4. Chr sopsis mariana	15	No No	UPL		
5. Chamaecrista fasciculata	10	<u>No</u>	FACU	Shrub - Woody Plants, excluding w approximately 3 to 20 ft (1 to 6 m) in	•
6.					Triolgitt.
7.				Herb – All herbaceous (non-woody)	
8.	<u> </u>			herbaceous vines, regardless of siz plants, except woody vines, less that	
9.				ft (1 m) in height.	in approximately 5
10					عاددها عمد معالمه
11				Woody Vine – All woody vines, reg	ardiess of neight.
		=Total Cover			
50% of total cover:	63 20%	of total cover:	25		
Woody Vine Stratum (Plot size: 30)					
1					
2.					
3.					
4.					
5.				Hardway lands	
		=Total Cover		Hydrophytic Vegetation	
50% of total cover:		of total cover:		_	lo
Remarks: (If observed, list morphological adaptati					
	J. 10 DOIO 11./				

SOIL Sampling Point: 23-B

	•	to the dept				ator or co	onfirm the absence of	of indicators.)			
Depth	Matrix			Featur		. 2	- .	5			
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Rem	arks		
0-2	10YR 3/2	100					Loamy/Clayey				
2-8	10YR 4/3	100					Loamy/Clayey				
8-20	10YR 5/3	100					Loamy/Clayey				
	oncentration, D=Depl					d Grains.		PL=Pore Lining, M=I			
Hydric Soil I Histosol	ndicators: (Applica	ble to all L	RRS, unless othe Thin Dark Sι			C T II)		for Problematic Hy	aric Soils":		
	ipedon (A2)		Barrier Island				1 cm Muck (A9) (LRR O)				
Black His			(MLRA 15		`	12)	2 cm Muck (A10) (LRR S) Coast Prairie Redox (A16)				
	n Sulfide (A4)		Loamy Muck		•						
	Layers (A5)		Loamy Gleye			- /	(outside MLRA 150A) Reduced Vertic (F18)				
	Bodies (A6) (LRR P,	T, U)	Depleted Ma				(outside MLRA 150A, 150B)				
	cky Mineral (A7) (LR		Redox Dark				Piedmont Floodplain Soils (F19) (LRR				
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)				
1 cm Mu	ck (A9) (LRR P, T)		Redox Depressions (F8)				(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	Marl (F10) (LRR U)				Red Parent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	1 151)	Very Shallow Dark Surface (F22)				
	airie Redox (A16) (M	•		Iron-Manganese Masses (F12) (LRR C							
	ucky Mineral (S1) (L	RR O, S)		c Surface (F13) (LRR P, T, U) Barrier Islands Low Chroma Ma					a Matrix (TS7)		
	leyed Matrix (S4)			Ochric (F17) (MLRA 151) (MLRA 153B, 153D) and Vertic (F18) (MLRA 150A, 150B) Other (Explain in Remarks)							
	edox (S5)			,	, .		· — `	Explain in Remarks)			
	Matrix (S6)	T 11)	Piedmont Flo								
	face (S7) (LRR P, S,		Anomalous E	-							
	e Below Surface (S8))	(MLRA 14)					ors of hydrophytic ve and hydrology must b	•		
(LRR S, T, U)				Very Shallow Dark Surface (F22) (MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
Restrictive I	_aver (if observed):		(-,		- '/	<u> </u>				
Type:	Layer (ii observed).										
Depth (in	nches):						Hydric Soil Present? Yes No X				
Remarks:											

Attachment 2.D.1 Page 174 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensville		Sampling Date: 9	/22/20
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point:	23-C
Investigator(s): S. Kupiec	Sec ¹	tion, Township, Range:		_	
Landform (hillside, terrace, etc.): Slope	-	elief (concave, convex, no	one): Convex	Slope (%):	2-3
Subregion (LRR or MLRA): LRR P, MLRA 1		Long: -77		Datum:	
	00.002000	Long. 11			
Soil Map Unit Name: Roanoke Loam			NWI classifica		
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hydro			cumstances" present	? Yes X I	No
Are Vegetation, Soil, or Hydro	ologynaturally problema	itic? (If needed, expla	ain any answers in R	emarks.)	
SUMMARY OF FINDINGS - Attach	ı site map showing sam	npling point location	ns, transects, in	nportant feature	es, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?		Is the Sampled Area within a Wetland?	Yes	No X	
Remarks:					
Upland at Flag BR-8.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two red	auired)
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	•	
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface	(B8)
High Water Table (A2)	Marl Deposits (B15) (LRI	Drainage Patterns (B10)			
Saturation (A3)	Hydrogen Sulfide Odor (Moss Trim Lines (B16)			
Water Marks (B1)	Oxidized Rhizospheres of	on Living Roots (C3)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Presence of Reduced Iro	_	Crayfish Burrows (C8)		
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posi		
Iron Deposits (B5)	Other (Explain in Remark	_	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	7)	<u>-</u>	X FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)		
			Spriagrium woss	(D6) (LRR 1, 0)	
Field Observations: Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches):		ydrology Present?	YesI	No X
(includes capillary fringe)			,		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, pr	evious inspections), if ava	ilable:		
Remarks:					

Attachment 2.D.1 Page 175 of 230									
Sampling Point: 23-C									
Test worksheet:									
ominant Species L, FACW, or FAC): 	6 (A)							
er of Dominant oss All Strata:		7 (B)							
ominant Species L, FACW, or FAC):	85.7% (A/B)							
Index worksheet	t:		_						
Cover of:	М	ultiply by:							
0	x 1 =	0							
es 30	x 2 =	60							
125	x 3 =	375							
es 20	x 4 =	80							
0	x 5 =	0							
ls: 175 (A)	515	(B)						
lence Index = B/	A =	2.94							
Vegetation Indi	cators:		_						
d Test for Hydropl	hytic Ve	getation							
nance Test is >50	0%								
alence Index is ≤3	3.0 ¹								
atic Hydrophytic \		on ¹ (Expla	in)						
	Ü	` .	,						
f hydric soil and wetland hydrology must be									
ss disturbed or p									
of Five Vegetation Strata:									
dy plants, excluding woody vines,									
y 20 ft (6 m) or more in height and 3 in. arger in diameter at breast height (DBH).									
oody plants, excluding woody vines,									
y 20 ft (6 m) or more in height and less 6 cm) DBH.									
ody Plants, excluding woody vines,									
y 3 to 20 ft (1 to 6									
erbaceous (non-w	oody) p	lants, inclu	ıding						
vines, regardless									
ot woody vines, le ight.	ss than	approxima	ately 3						
	e reger	dless of he	aight						
 All woody vines, regardless of height. 									

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	70 0010.	ороско:	Otatao	Number of Dominant Species	1
2.				That Are OBL, FACW, or FAC: 6	(A)
3.				Total Number of Dominant	_ ` ` `
4.				Species Across All Strata: 7	(B)
5.				Percent of Dominant Species	_
6.				That Are OBL, FACW, or FAC: 85.7%	(A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0	
Li uidambar st raciflua	35	Yes	FAC	FACW species 30 x 2 = 60	
2. Liriodendron tulipifera	5	No	FACU	FAC species 125 x 3 = 375	
3				FACU species 20 x 4 = 80	
4.				UPL species 0 x 5 = 0	
5				Column Totals: 175 (A) 515	(B)
6.				Prevalence Index = B/A = 2.94	
	40	=Total Cover		Hydrophytic Vegetation Indicators:	
50% of total cover:	20 20%	of total cover:	8	1 - Rapid Test for Hydrophytic Vegetation	
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%	
1. Sambucus nigra	5	Yes	FACW	3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vegetation ¹ (Expla	ain)
3					
4.					
5.				¹ Indicators of hydric soil and wetland hydrology	must be
6.				present, unless disturbed or problematic.	
	5	=Total Cover		Definitions of Five Vegetation Strata:	
50% of total cover:	3 20%	of total cover:	1	Tree – Woody plants, excluding woody vines,	
Herb Stratum (Plot size:30)				approximately 20 ft (6 m) or more in height and	
1. ubus argutus	25	Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. anicum errucosum	20	Yes	FACW	Sapling – Woody plants, excluding woody vine	
3. arathel pteris no eboracensis	20	Yes	FAC	approximately 20 ft (6 m) or more in height and	less
4. Dichanthelium dichotomum	15	No	FAC	than 3 in. (7.6 cm) DBH.	
5. Solidago rugosa	10	No	FAC	Shrub - Woody Plants, excluding woody vines,	
6. Dichanthelium scoparium	5	No	FACW	approximately 3 to 20 ft (1 to 6 m) in height.	
7				Herb – All herbaceous (non-woody) plants, incl	uding
8.				herbaceous vines, regardless of size, and wood	dy
9.				plants, except woody vines, less than approxim ft (1 m) in height.	ately 3
10				, ,	
11				Woody Vine – All woody vines, regardless of h	eight.
	95	=Total Cover			
50% of total cover:	48 20%	of total cover:	19		
Woody Vine Stratum (Plot size:)					
1. itis rotundifolia	20	Yes	FAC		
2. Lonicera aponica	10	Yes	FACU		
3. arthenocissus uin uefolia	5	No	FACU		
4.					
5.				Hydrophytic	
	35	=Total Cover		Hydrophytic Vegetation	
50% of total cover:	18 20%	of total cover:	7	Present? Yes X No	
Remarks: (If observed, list morphological adaptation	ons below.)			·	

SOIL Sampling Point: 23-C

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ıment tl x Featur		ator or co	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8	10YR 4/1	90	10YR 4/6	10	С	М	Loamy/Clayey	Prominent redox concentrations		
8-20	10YR 4/2	85	10YR 4/4	15	С	М	Loamy/Clayey	Distinct redox concentrations		
			_							
¹Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, N	 1S=Mas	ked San	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
	ndicators: (Applical							for Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su	urface (S	89) (LRR	S, T, U)	1 cm M	uck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	Barrier Islands 1 cm Muck (S12)				2 cm Muck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	(MLRA 153B, 153D)				Coast Prairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outside MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduced Vertic (F18)			
	Bodies (A6) (LRR P,	T, U)	X Depleted Ma				(outside MLRA 150A, 150B)			
	cky Mineral (A7) (LR		Redox Dark				Piedmont Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)		Redox Depre				(MLRA 153B)			
	Below Dark Surface	(A11)		Marl (F10) (LRR U)				Red Parent Material (F21)		
	rk Surface (A12)	,		Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)		
	airie Redox (A16) (M	LRA 150A								
	ucky Mineral (S1) (L				•	, .	Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)		Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)			
	edox (S5)		Reduced Ve			Explain in Remarks)				
	Matrix (S6)		Piedmont Flo	•	, .			-xpiair iii rtomano,		
	face (S7) (LRR P, S,	T II)	Anomalous E							
	e Below Surface (S8)			•		,	³ Indicators of hydrophytic vegetation and			
		,	(MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22)				wetland hydrology must be present,			
(LRR S, T, U)			(MLRA 138, 152A in FL, 154)				unless disturbed or problematic.			
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Present? Yes X No			
Remarks:										

Attachment 2.D.1
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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lak	eview 230 kV Rebuild	City/County: Greensville	Э	Sampling Date: 9/23/20			
Applicant/Owner: Dominion Energy Virg	jinia		State: VA	Sampling Point: 24-A			
Investigator(s): S. Kupiec		ection, Township, Range:					
Landform (hillside, terrace, etc.): Slope	•	I relief (concave, convex, n	none): Convex	Slope (%): 4-6			
Subregion (LRR or MLRA): LRR P, MLRA 1		•	7.625917	Datum:			
		Long					
Soil Map Unit Name: Appling-Mattaponi cor	·		NWI classifica				
Are climatic / hydrologic conditions on the sit				explain in Remarks.)			
Are Vegetation, Soil, or Hydro			rcumstances" present	? Yes X No			
Are Vegetation, Soil, or Hydro	ologynaturally problem	natic? (If needed, exp	lain any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	າ site map showing sa	mpling point locatio	ons, transects, im	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area					
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X			
Wetland Hydrology Present?	Yes No X						
Remarks: Upland at Flag BT-2.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)			
Primary Indicators (minimum of one is requ	ired; check all that apply) Aquatic Fauna (B13)	 .	Surface Soil Crac				
Surface Water (A1)		ed Concave Surface (B8)					
High Water Table (A2)	Marl Deposits (B15) (LF	-	Drainage Patterns				
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres	-	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced II	-	Crayfish Burrows (C8)				
Drift Deposits (B3) Algal Mat or Crust (B4)	Recent Iron Reduction i Thin Muck Surface (C7)	` '	Saturation Visible on Aerial Imagery (C9)				
Iron Deposits (B5)	Other (Explain in Rema	•	Geomorphic Position (D2) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B		-	FAC-Neutral Test	, ,			
Water-Stained Leaves (B9)	•)	-	Sphagnum Moss				
Field Observations:		<u>-</u>	<u> </u>				
Surface Water Present? Yes	No X Depth (inches)):					
Water Table Present? Yes	No X Depth (inches)						
Saturation Present? Yes	No X Depth (inches)		Hydrology Present?	Yes No X			
(includes capillary fringe)							
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, p	previous inspections), if av	railable:				
Remarks:							
Toma							

/EG	SETATION (Five Strata) – Use scienti	inc names	oi piarits.		Sampling Poin	nt: 24-A	١.
	Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. 2.					Number of Dominant Species That Are OBL, FACW, or FAC:	4	_ (A)
3. 4.					Total Number of Dominant Species Across All Strata:	5	_ (B)
5. 6.					Percent of Dominant Species That Are OBL, FACW, or FAC:	80.0%	_ (A/B)
			=Total Cover		Prevalence Index worksheet:		
	50% of total cover:	20%	of total cover:			Multiply by:	
	ling Stratum (Plot size:)				OBL species0 x 1		
-	Li uidambar st raciflua	5	Yes	FAC	FACW species 25 x 2	= 50	
2.					FAC species x 3	= 210	
3.					FACU species 0 x 4	= 0	
4					UPL species 10 x 5	= 50	
5.					Column Totals: 105 (A)	310	(B)
3.					Prevalence Index = B/A =	2.95	
		5 :	=Total Cover		Hydrophytic Vegetation Indicator	rs:	
	50% of total cover:	3 20%	of total cover:	1	1 - Rapid Test for Hydrophytic	Vegetation	
<u>Shru</u>	ub Stratum (Plot size: 30)		•		X 2 - Dominance Test is >50%		
1.	hus copallinum	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹		
·· - 2.	The Cope				Problematic Hydrophytic Veget	tation ¹ (Expla	ain)
 3.					1 1001011101101111111111111111111111111	.a.io.i (_ ,	XII 1/
3. 4.							
4. 5.		-			1.		
-					¹ Indicators of hydric soil and wetlan		must be
6. _					present, unless disturbed or problem		
			=Total Cover		Definitions of Five Vegetation Str		
		3 20%	of total cover:	1	Tree – Woody plants, excluding wo		
	Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at bre		
1	ndropogon irginicus	40	Yes	FAC	(7.0 GIII) Of larger in diameter at 2.5	Jasi neigin (-	JDI 17.
2	upatorium perfoliatum	25	Yes	FACW	Sapling – Woody plants, excluding		
3.	ubus argutus	15	No	FAC	approximately 20 ft (6 m) or more in	n height and	less
4.	Chr sopsis mariana	5	No	UPL	than 3 in. (7.6 cm) DBH.		
5.					Shrub - Woody Plants, excluding w		
6.					approximately 3 to 20 ft (1 to 6 m) i		
7.					Herb – All herbaceous (non-woody	A plante incl	· · ding
8. -					herbaceous vines, regardless of siz		
9.					plants, except woody vines, less that		
10.					ft (1 m) in height.		
10. 11.					Woody Vine – All woody vines, reg	aardless of h	eight.
' ' · -		<u></u> 85 :	=Total Cover		, ,	,	- 3
	FOOY of total agreem			47			
MAC	50% of total cover:	43 20%	of total cover:	17			
	Campsis radicans	10	Voc	FAC			
-	Campsis radicaris	10	Yes	FAC			
2. _							
-							
-							
4.					Hydrophytic		
3. <u> </u>		10 :	=Total Cover		Hydrophytic Vegetation		

SOIL Sampling Point: 24-A

	•	to the dep				ntor or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur	res Type ¹	Loc ²	Toyturo	Rem	orko	
(inches)			Color (moist)	70	туре	LUC	Texture Clause	Reili	aiks	
0-1	10YR 3/3	100					Loamy/Clayey			
1-5	10YR 5/4	100					Loamy/Clayey			
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=I	Matrix.	
	ndicators: (Applica							for Problematic Hy		
Histosol ((A1)		Thin Dark Su	urface (S	39) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Epi	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	fuck (A10) (LRR S)		
Black Histic (A3) (MLRA 153B, 153D)							Coast I	Prairie Redox (A16)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR (RR O)	,	side MLRA 150A)		
	Layers (A5)		Loamy Gleye					ed Vertic (F18)		
Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3)							,	side MLRA 150A, 15	,	
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6) Muck Presence (A8) (LRR U) Depleted Dark Surface (F7)								ont Floodplain Soils (Ilous Bright Floodplai		
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8)								RA 153B)	11 30115 (1 20)	
Depleted Below Dark Surface (A11) Marl (F10) (LRR U)						,	arent Material (F21)			
Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA					A 151)		hallow Dark Surface	(F22)		
Coast Pra	airie Redox (A16) (M	ILRA 150A						side MLRA 138, 152		
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa	ace (F13	3) (LRR P	P, T, U)	Barrier	Islands Low Chroma	Matrix (TS7)	
Sandy GI	eyed Matrix (S4)		Delta Ochric	(F17) (I	MLRA 15	1)	(MLR	RA 153B, 153D)		
Sandy Re			Reduced Ve	rtic (F18	B) (MLRA	150A, 15	50B)Other (Explain in Remarks)		
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S		Anomalous E	-						
	e Below Surface (S8))	(MLRA 14				³ Indicators of hydrophytic vegetation and			
(LRR S	s, I, U)		Very Shallow (MLRA 13		,	,		wetland hydrology must be present, unless disturbed or problematic.		
Postrictivo I	ayer (if observed):		(IVILKA 13	0, 132A	X III I L, I \)4 <i>)</i>	unie	ss disturbed or proble		
	Gravel compaction									
Depth (in	·	5					Hydric Soil Prese	ent? Yes	No X	
Remarks:							Tiyane Son Tresc			
Remarks.										

Attachment 2.D.1 Page 180 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	keview 230 kV Rebuild	City/County: Greensvil	lle	Sampling Date: 9/23	/20			
Applicant/Owner: Dominion Energy Virg	ginia		State: VA	Sampling Point: 2	25-A			
Investigator(s): S. Kupiec		Section, Township, Range:						
Landform (hillside, terrace, etc.): Drainage	eway Loc	cal relief (concave, convex,	none): Concave	Slope (%):	0-1			
Subregion (LRR or MLRA): LRR P, MLRA		•	77.629566	Datum:				
Soil Map Unit Name: Roanoke Loam			NWI classifica					
Are climatic / hydrologic conditions on the s	ite typical for this time of yea	ar? Yes X		explain in Remarks.)				
			Circumstances" present					
Are Vegetation, Soil, or Hydr								
Are Vegetation, Soil, or Hydr			plain any answers in Re	•				
SUMMARY OF FINDINGS – Attac	h site map showing s	ampling point locati	ions, transects, in	nportant features,	, etc.			
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area						
Hydric Soil Present?	Yes X No	within a Wetland?	Yes X	No				
Wetland Hydrology Present?	Yes X No							
Remarks:		<u>, </u>						
Wetland at Flag BV-4.								
HYDROLOGY								
			Cacandary Indicators	(minimum of two roquiu	rod)			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ	uired: check all that annly)		Surface Soil Crac	(minimum of two requir	rea)			
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface (B	38)			
High Water Table (A2)	Marl Deposits (B15) (Drainage Patterns		.0)			
X Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines					
Water Marks (B1)	X Oxidized Rhizosphere		Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced	d Iron (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction							
Algal Mat or Crust (B4)	Thin Muck Surface (C	,	X Geomorphic Posi	tion (D2)				
Iron Deposits (B5)	Other (Explain in Rem	narks)	Shallow Aquitard					
Inundation Visible on Aerial Imagery (E	37)		X FAC-Neutral Test	` ,				
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)				
Field Observations:		,						
	No X Depth (inche							
Water Table Present? Yes X Saturation Present? Yes X	No Depth (inche Depth (inche	es): 18 Wetland	Hydrology Procent?	Voc. V. No.				
(includes capillary fringe)	No Deptil (illiche	s). 10 Welland	Hydrology Present?	Yes X No				
Describe Recorded Data (stream gauge, m	nonitoring well, aerial photos.	, previous inspections), if a	available:					
(3		, ,						
Remarks:								

Absolute Commant Indicators Indicato	VEGETATION (Five Strata) – Use scien	tific names	of plants.		Sampling Point:	25-A
Number of Dominant Spacies S	T (D) (D) (1)				5	
2. Total Number of Dominant Species (A) Total Number of Dominant Species (B) Total Cover Species Across Al Stratus 5 (B) Percent of Dominant Species (B) Total Cover Total Cov		% Cover	Species?	Status	Dominance Test worksheet:	
Total Number of Dominant Species Across All Strata: Species That Are OBL, FACW, or FAC. 100.0% (A/B)	2					E (A)
Species Across All Stratus Species That Are OBL, FACW, or FAC: 100.0% (A/B)					That Are OBL, FACW, or FAC:	(A)
Percent of Dominant Species Factor	·					F (D)
Solution	·					(b)
Sapiling Stratum (Plot size: 30 10 Yes FAC F	<u> </u>				•	400 00/ (A/D)
Sabiling Stratum (Plot size: 30 10 Yes FAC PACW	6. <u> </u>	<u> </u>	-Total Cover			100.0% (A/B)
Sapiling Stratum (Plot size: 30 10 Yes FAC FACW species 30 x 2 = 60 FACW species 30 x 2 = 60 FACW species 30 x 2 = 60 FACW species 30 x 4 = 0 FACW species 30 x 4 = 30 TAX species 30 T	50% of total cover:					Aultiply by:
1.			or total cover.			
2.		10	Yes	FAC	· -	
FACU species 0			100		-	
4. 5. 6. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	2	· ——				
Column Totals: 145	4					
Prevalence Index = B/A = 2.66	E					·
Shrub Stratum (Plot size: 30 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is 5-60% X 3 - Prevalence Index is ≤3.0					`` ′	`
Shrub Stratum (Plot size: 30 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is 5-60% X 3 - Prevalence Index is ≤3.0	· -	10	=Total Cover		_	
X 2 - Dominance Test is >50%	50% of total cover:	5 20%	of total cover:	2		
X 3 - Prevalence Index is ≤3.0°	Shrub Stratum (Plot size: 30)				I —	
2.	1.				X 3 - Prevalence Index is ≤3.0 ¹	
3. 4. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	2				Problematic Hydrophytic Vegeta	ition ¹ (Explain)
4. 5. 6. 50% of total cover: 50% of total cove	0					
5. Solidago rugosa 40 Yes FAC	1					
Total Cover	· · · · · ·				¹ Indicators of hydric soil and wetland	l hvdroloav must be
Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH). Solidago rugosa	6					
Herb Stratum (Plot size: 30) 1. Solidago rugosa 40 Yes FAC icrostegium imineum 25 Yes FAC icrostegium imineum 25 Yes FAC arathel pteris no eboracensis 20 Yes FAC icromal no eboracensis 15 No FACW icromal no eboracensis 15 No FACW icromal no eboracensis 15 No FACW icromal no eboracensis 15 No GBL icrostegium arathel pteris no eboracensis 15 No GBL icrostegium imineum 25 No GBL icrostegium inineum 25 No GBL icrostegium ini		:	=Total Cover		Definitions of Five Vegetation Stra	ata:
1. Solidago rugosa 25 Yes FAC 2 icrostegium imineum 25 Yes FAC 3. arathel pteris no eboracensis 20 Yes FAC 4. emonia no eboracensis 5 oehmeria c lindrica 6. oodwardia areolata 6. ericaria sagittata 9. mpatiens capensis 15 No FACW 9. mpatiens capensis 15 No FACW 11. itis rotundifolia 50% of total cover: 50	50% of total cover:	20%	of total cover:			
2. icrostegium imineum 2. icrostegium imineum 3. arathel pteris no eboracensis 4. emonia no eboracensis 5. oehmeria c lindrica 6. oodwardia areolata 7. Commelina communis 8. ersicaria sagittata 9. mpatiens capensis 10. 11. 11. 11. 12. 130 =Total Cover 50% of total cover: 65 Yes FAC 2. 3. 4. 5.	Herb Stratum (Plot size:)					
3. arathel pteris no eboracensis 4. ernonia no eboracensis 5. oehmeria c lindrica 6. oodwardia areolata 7. Commelina communis 8. ersicaria sagittata 9. mpatiens capensis 10. No FACW 11.		40	Yes	FAC	(7.6 cm) of larger in diameter at brea	ist neight (DBH).
4. ernonia no eboracensis 5. oehmeria c lindrica 6. oodwardia areolata 7. Commelina communis 8. ersicaria sagittata 9. mpatiens capensis 10. 11. 11. 12. 130 =Total Cover 50% of total cover: 65 20% of total cover: 26 Woody Vine Stratum (Plot size: 30) 1. itis rotundifolia 1. itis rotundifolia 2. 5	2. icrostegium imineum	25	Yes	FAC		
5. oehmeria c lindrica 5. oehmeria c lindrica 6. oodwardia areolata 7. Commelina communis 8. ersicaria sagittata 9. mpatiens capensis 10. No FACW 8. mpatiens capensis 10. Tallo Tal	3. arathel pteris no eboracensis	20	Yes			height and less
6.	4. ernonia no eboracensis	15	No		, , ,	
7. Commelina communis 8. ersicaria sagittata 9. mpatiens capensis 10. 11. 11. 12. 130 =Total Cover: 50% of total cover: 50% of total cover: 50% of total cover: 3 = Total Cover: 50% of total cover: 3 = Total Cover: 1 Herb - All herbaceous (non-woody) plants, including plants, except woody vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. Herb - All herbaceous (non-woody) plants, including plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody Vine - All woody vines, regardless of height. Hody Vine - All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes X No		-			, ,	•
8. ersicaria sagittata 5 No OBL mpatiens capensis 5 No FACW 10.		-			approximately 3 to 20 ft (1 to 6 ff) iff	neignt.
9. mpatiens capensis 10.					` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	
10.					, ,	
11.	- ' '	5	No	FACW		approximately 5
130					Woody Vine All woody vines rogs	ordloss of boight
Solid total cover: 65 20% of total cover: 26	11.				Woody vine – All woody vines, rega	iluless of fleight.
Woody Vine Stratum (Plot size:	500/ of total account			00		
1. itis rotundifolia 5 Yes FAC 2. 3. 4. <		65 20%	or total cover:	26		
2		F	Voo	FAC		
3.			res	FAC		
4		· ——				
5		· ——				
5 =Total Cover Vegetation 50% of total cover: 1 Present? Yes X No						
50% of total cover: 3 20% of total cover: 1 Present? Yes X No	J		-Total Cavar			
·	50% of total cover			1		n
			o. total ouvel.		103 <u>A</u> NO	<u> </u>

SOIL Sampling Point: 25-A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			K Featur		. 2	- .				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0-6	10YR 4/2	85	7.5YR 4/4	5	С	PL	Loamy/Clayey	Distinct redox concentrations			
			10YR 5/6	10	С	M		Prominent redox concentrations			
6-20	10YR 4/1	90	10YR 4/4	10	С	PL	Loamy/Clayey	Distinct redox concentrations			
¹Type: C=Co	oncentration, D=Deple	etion, RM=	Reduced Matrix, N	IS=Masl	ked Sand	Grains.	² Location: F	PL=Pore Lining, M=Matrix.			
Hydric Soil I	ndicators: (Applical	ole to all L	RRs, unless othe	rwise n	oted.)		Indicators f	or Problematic Hydric Soils ³ :			
Histosol ((A1)		Thin Dark Su	ırface (S	89) (LRR	S, T, U)	1 cm Mu	uck (A9) (LRR O)			
	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm Mi	uck (A10) (LRR S)			
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)			
Hydroger	n Sulfide (A4)		Loamy Muck	y Minera	al (F1) (L	RR O)	(outsi	de MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matrix	x (F2)		Reduce	d Vertic (F18)			
Organic E	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	de MLRA 150A, 150B)			
5 cm Mud	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)			
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomal	ous Bright Floodplain Soils (F20)			
1 cm Mud	ck (A9) (LRR P, T)		Redox Depre	essions ((F8)		(MLRA 153B)				
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Par	rent Material (F21)			
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	A 151)	Very Sh	allow Dark Surface (F22)			
Coast Pra	airie Redox (A16) (M	LRA 150A) Iron-Mangan	ese Mas	sses (F12	2) (LRR (), P, T) (outsi	de MLRA 138, 152A in FL, 154)			
Sandy M	ucky Mineral (S1) (Ll	RR O, S)	Umbric Surfa	ace (F13	B) (LRR F	P, T, U)	Barrier I	slands Low Chroma Matrix (TS7)			
Sandy GI	leyed Matrix (S4)		Delta Ochric	(F17) (N	MLRA 15	1)	(MLR	A 153B, 153D)			
Sandy Re	edox (S5)		Reduced Ver	rtic (F18) (MLRA	150A, 15	Other (E	Explain in Remarks)			
Stripped	Matrix (S6)		Piedmont Flo	odplain	Soils (F	19) (MLR	A 149A)				
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Flo	oodplain	Soils (F2	0)				
Polyvalue	e Below Surface (S8)		(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1!	54)	unles	s disturbed or problematic.			
	ayer (if observed):										
Type:											
Depth (in	ches):						Hydric Soil Prese	nt? Yes X No			
Remarks:											

Attachment 2.D.1 Page 183 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/	/23/20		
Applicant/Owner: Dominion Energy Virgi	nia		State: VA	Sampling Point:	25-B		
Investigator(s): S. Kupiec	Se	ction, Township, Range:		_			
Landform (hillside, terrace, etc.): Slope	Local	relief (concave, convex, ı	none): Convex	Slope (%):	2-4		
Subregion (LRR or MLRA): LRR P, MLRA 1			7.629364	Datum:			
Soil Map Unit Name: Fluvanna-Mattaponi co			NWI classifica				
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)			
			ircumstances" present				
Are Vegetation, Soil, or Hydro					1 0		
Are Vegetation, Soil, or Hydro			olain any answers in Re				
SUMMARY OF FINDINGS – Attach	site map showing sa	mpling point location	ons, transects, in	nportant feature	etc.		
Hydrophytic Vegetation Present?	Yes X No No No Yes	Is the Sampled Area	Vac	No. V			
Hydric Soil Present? Wetland Hydrology Present?	Yes No _X Yes No _X	within a Wetland?	Yes	No X			
Remarks:							
Upland above Flag BV-4.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two red	quired)		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface	(B8)		
High Water Table (A2)	Marl Deposits (B15) (LF	RR U)	Drainage Patterns				
Saturation (A3)	Hydrogen Sulfide Odor		Moss Trim Lines				
Water Marks (B1)	Oxidized Rhizospheres	on Living Roots (C3)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Presence of Reduced I	ron (C4)	Crayfish Burrows (C8)				
Drift Deposits (B3)	Recent Iron Reduction	in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7))	Geomorphic Posi	tion (D2)			
Iron Deposits (B5)	Other (Explain in Rema	irks)	Shallow Aquitard	(D3)			
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	(D5)			
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)			
Field Observations:							
Surface Water Present? Yes	No X Depth (inches)						
	No X Depth (inches)						
Saturation Present? Yes	No X Depth (inches)	: Wetland I	Hydrology Present?	Yes 1	Vo_X		
(includes capillary fringe)							
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	previous inspections), if av	/allable:				
Remarks:							
Tromano.							

VEGETATION (FIVE Strata) – Use scienti		oi piants.		Sampling Point: 25-B
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:60.0% (A/B)
		=Total Cover		Prevalence Index worksheet:
50% of total cover:	20%	of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size:30)				OBL species 0 x 1 = 0
Li uidambar st raciflua	10	Yes	FAC	FACW species 0 x 2 = 0
2				FAC species 65 x 3 = 195
3.				FACU species 40 x 4 = 160
4				UPL species 5 x 5 = 25
5				Column Totals: 110 (A) 380 (B)
6				Prevalence Index = B/A = 3.45
	10	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	20%	of total cover:	2	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size:30)				X 2 - Dominance Test is >50%
1. hus copallinum	5	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				
5.				¹ Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
	5	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	3 20%	of total cover:	1	Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in.
1. ndropogon irginicus	30	Yes	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
2. Solidago rugosa	20	Yes	FAC	Sapling – Woody plants, excluding woody vines,
3. ridens fla us	10	No	FACU	approximately 20 ft (6 m) or more in height and less
4. Lespede a cuneata	10	No	FACU	than 3 in. (7.6 cm) DBH.
5. ubus argutus	5	No	FAC	Shrub - Woody Plants, excluding woody vines,
6. Desmodium paniculatum	5	No	FACU	approximately 3 to 20 ft (1 to 6 m) in height.
7				Herb – All herbaceous (non-woody) plants, including
8				herbaceous vines, regardless of size, and woody
9				plants, except woody vines, less than approximately 3
10				ft (1 m) in height.
11				Woody Vine – All woody vines, regardless of height.
	80	=Total Cover		
50% of total cover: 4	0 20%	of total cover:	16	
Woody Vine Stratum (Plot size:)				
1. Lonicera aponica	15	Yes	FACU	
2				
3.				
4.				
5.				Hydrophytic
	15	=Total Cover		Vegetation
50% of total cover:	3 20%	of total cover:	3	Present? Yes X No No
Remarks: (If observed, list morphological adaptation	ns below.)			·

SOIL Sampling Point: 25-B

	•	to the dep				itor or co	onfirm the absence	of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	k Featur	res Type ¹	Loc ²	Texture	Pom	arks	
			Color (Illoist)		туре	LUC		Kell	airs	
0-1	10YR 3/2	100					Loamy/Clayey			
1-5	10YR 5/4	100					Loamy/Clayey			
¹ Type: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	Grains.	² Location:	PL=Pore Lining, M=I	Matrix.	
Hydric Soil I	ndicators: (Applica	ble to all L	_RRs, unless othe	rwise r	noted.)		Indicators	for Problematic Hy	dric Soils³:	
Histosol ((A1)		Thin Dark Su	urface (S	39) (LRR	S, T, U)	1 cm M	luck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm N	luck (A10) (LRR S)		
Black Histic (A3) (MLRA 153B, 153D)							Coast I	Prairie Redox (A16)		
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR						RR O)	(outs	side MLRA 150A)		
	Layers (A5)		Loamy Gleye		` '			ed Vertic (F18)		
	Bodies (A6) (LRR P,		Depleted Ma				,	side MLRA 150A, 15	,	
5 cm Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F6)								ont Floodplain Soils (
Muck Presence (A8) (LRR U) Depleted Dark Surface (F7) Low Muck (A9) (LRR D. T) Podov Poproscions (F8)								llous Bright Floodpla	n Soils (F20)	
1 cm Muck (A9) (LRR P, T) Redox Depressions (F8) Popleted Relaw Dark Surface (A11) Mark (F10) (LRP LI)						,	RA 153B)			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151)					\ 151\		arent Material (F21)	(F22)		
	_									
	ucky Mineral (S1) (L		Umbric Surfa		,	, .				
	eyed Matrix (S4)		Delta Ochric					RA 153B, 153D)	(107)	
Sandy Re			Reduced Ve				,	Explain in Remarks)		
	Matrix (S6)		Piedmont Flo							
	face (S7) (LRR P, S	, T, U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 15	54)	unle	ss disturbed or probl	ematic.	
Restrictive L	ayer (if observed):									
Type: (Gravel compaction									
Depth (in	ches):	5					Hydric Soil Prese	ent? Yes	No X	
Remarks:										

Attachment 2.D.1 Page 186 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lal	keview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/23/20				
Applicant/Owner: Dominion Energy Virg	ginia		State: VA	Sampling Point: 26-A				
Investigator(s): S. Kupiec	Se	ection, Township, Range:						
Landform (hillside, terrace, etc.): Slope	Loca	I relief (concave, convex,	none): Convex	Slope (%): 2-4				
Subregion (LRR or MLRA): LRR P, MLRA	133A Lat: 36.576903	Long: -7	77.630833	Datum:				
Soil Map Unit Name: Roanoke loam			NWI classifica	tion: N/A				
Are climatic / hydrologic conditions on the s	ite typical for this time of year	? Yes X		explain in Remarks.)				
Are Vegetation , Soil , or Hydr			ircumstances" present					
Are Vegetation, Soil, or Hydi	rology naturally probler	natic? (If needed, exp	olain any answers in Re	emarks.)				
SUMMARY OF FINDINGS – Attac	<u></u>		ons, transects, in	nportant features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No X Yes No X	Is the Sampled Area within a Wetland?	Yes	No_X_				
Remarks: Upland near Flag BY-5.								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)				
Primary Indicators (minimum of one is requ	uired; check all that apply)		Surface Soil Crac	ks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetate	ed Concave Surface (B8)				
High Water Table (A2)	Marl Deposits (B15) (L	.RR U)	Drainage Patterns	s (B10)				
Saturation (A3)	Hydrogen Sulfide Odor	r (C1)	Moss Trim Lines (B16)					
Water Marks (B1)	Oxidized Rhizospheres	s on Living Roots (C3)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced	Iron (C4)	Crayfish Burrows (C8)					
Drift Deposits (B3)	Recent Iron Reduction		Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Thin Muck Surface (C7	•	Geomorphic Position (D2)					
Iron Deposits (B5)	Other (Explain in Rema	arks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (I	37)		X FAC-Neutral Test	, ,				
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR 1, U)				
Field Observations:	N V 5 1 (1)	,						
Surface Water Present? Yes	No X Depth (inches							
Water Table Present? Yes	No X Depth (inches		h idaa la au . Daa a a a 2	Van Na V				
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches	welland	Hydrology Present?	Yes No X				
Describe Recorded Data (stream gauge, n	onitoring well aerial photos	previous inspections) if a	vailable:					
Docombo Nocordou Data (otrodin gauge, n	Tollies and the second process,	providuo irropoditorio), ir d	valiable.					
Remarks:								

				Page	e 187 of 230	
/EGETATION (Five Strata) – Use scier			La d'anton	Sampling Poi	nt: 26-A	<u> </u>
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1.				Number of Dominant Species		(4)
2.				That Are OBL, FACW, or FAC:	4	_ (A)
3.				Total Number of Dominant	_	<i>(</i> =.)
4.				Species Across All Strata:	5	_ (B)
5.				Percent of Dominant Species		
6				That Are OBL, FACW, or FAC:	80.0%	_ (A/B
500/ // /		=Total Cover		Prevalence Index worksheet:	8.4 LC 1 L	
50% of total cover:	20%	of total cover	·	Total % Cover of:	Multiply by:	—
Sapling Stratum (Plot size: 30)	_	V	E4 0)4/	· -	1 = 0	—
1. etula nigra	5	Yes	FACW	· —	2 = 130	—
2				· —	3 = 165	—
3.				· —	4 = 100	—
4				·	5 = 0	—
5				Column Totals: 145 (A)	395	(B
6		T-1-1 0		Prevalence Index = B/A =		
F00/ of total access		=Total Cover	. 4	Hydrophytic Vegetation Indicate		
50% of total cover:	3 20%	of total cover	:: <u>1</u>	1 - Rapid Test for Hydrophytic	: Vegetation	
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%		
1				3 - Prevalence Index is ≤3.01	- (- (1 /= 1 .	- 1 - 1
2.				Problematic Hydrophytic Veg	etation (Expla	in)
3.						
4.						
5.				¹ Indicators of hydric soil and wetla		must b
6		T-1-1 0		present, unless disturbed or problem.		
FOO/ of total covers		=Total Cover		Definitions of Five Vegetation S		
50% of total cover:	20%	of total cover	·	Tree – Woody plants, excluding water approximately 20 ft (6 m) or more	,	3 in
Herb Stratum (Plot size: 30)	50	V	EA CIA/	(7.6 cm) or larger in diameter at b		
1. cnanthemum tenuifolium	50	Yes	FACW			
2. <u>ndropogon irginicus</u>	25	Yes	FAC	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more		
3. ridens fla us	25	Yes	FACU	than 3 in. (7.6 cm) DBH.	iii neigni and	1699
4. <u>ubus argutus</u>	20	No No	FAC			
5. <u>upatorium perfoliatum</u>	10	No	FACW	Shrub - Woody Plants, excluding approximately 3 to 20 ft (1 to 6 m)		
6.						
7.				Herb – All herbaceous (non-wood		
8				herbaceous vines, regardless of s plants, except woody vines, less t		
9.				ft (1 m) in height.	пап аррголин	atoly o
10				Woody Vine – All woody vines, re	agardlage of b	oight
11				Woody virie – All Woody viries, re	gardiess of th	eigiit.
		=Total Cover				
50% of total cover:	65 20%	of total cover	r: <u>26</u>			
Woody Vine Stratum (Plot size:30)						
1. Campsis radicans	10	Yes	FAC			
2						
3						
4						
5				Hydrophytic		
	10	=Total Cover		Vegetation		
50% of total cover:	5 20%	of total cover	2	Present? Vas X	No	

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 26-A

	•	o the dep				ator or c	onfirm the absence of	of indicators.)			
Depth	Matrix			c Featur		1 2	Tandona	Dam			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Rem	arks		
0-1	10YR 3/1	100					Loamy/Clayey				
1-20	10YR 4/4	55	5YR 4/6	45	С	M	Loamy/Clayey	Prominent redox	concentrations		
1							2				
	oncentration, D=Depl					d Grains.		PL=Pore Lining, M=N			
Histosol	ndicators: (Applical	oie to aii t	RRS, uniess otne Thin Dark St			S T III		for Problematic Hyo uck (A9) (LRR O)	aric Solis":		
	ipedon (A2)		Barrier Island					uck (A9) (LRR 0)			
Black His			(MLRA 15		,	12)		Prairie Redox (A16)			
	n Sulfide (A4)		Loamy Muck	•	,	.RR O)		ide MLRA 150A)			
	Layers (A5)		Loamy Gleye			,	•	ed Vertic (F18)			
	Bodies (A6) (LRR P,	T, U)	Depleted Ma					ide MLRA 150A, 150	0B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anomal	lous Bright Floodplai	n Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	A 153B)			
	Below Dark Surface	(A11)	Marl (F10) (L					rent Material (F21)			
	rk Surface (A12)		Depleted Oc					nallow Dark Surface	` ,		
	airie Redox (A16) (M		· 					ide MLRA 138, 152/	· ·		
	ucky Mineral (S1) (L	RR (J, S)	Umbric Surfa					Islands Low Chroma	Matrix (187)		
	leyed Matrix (S4) edox (S5)		Delta Ochric Reduced Ver				•	A 153B, 153D) Explain in Remarks)			
	Matrix (S6)		Piedmont Flo	•	, .			Explain in Nemarks)			
	face (S7) (LRR P, S,	T. U)	Anomalous E								
	e Below Surface (S8)		(MLRA 14	-			³ Indicators of hydrophytic vegetation and				
	S, T, U)		Very Shallow				wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1	54)	unless disturbed or problematic.				
Restrictive L	_ayer (if observed):										
Type:											
Depth (in	nches):		<u></u>				Hydric Soil Prese	ent? Yes	No X		
Remarks:							ı				

Attachment 2.D.1 Page 189 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lak	eview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 9/23	/20	
Applicant/Owner: Dominion Energy Virg	jinia		State: VA	Sampling Point: 2	27-A	
Investigator(s): S. Kupiec	S	section, Township, Range:				
Landform (hillside, terrace, etc.): Drainage	way Loc	al relief (concave, convex,	none): Concave	Slope (%):	2-4	
Subregion (LRR or MLRA): LRR P, MLRA			77.633522	Datum:		
Soil Map Unit Name: Roanoke loam	<u> </u>		NWI classifica			
Are climatic / hydrologic conditions on the sit	te typical for this time of yea	r? Yes X		explain in Remarks.)		
· -			Circumstances" present			
Are Vegetation, Soil, or Hydro						
Are Vegetation, Soil, or Hydro			plain any answers in Re	•		
SUMMARY OF FINDINGS – Attach	າ site map showing sa	ampling point locati	ons, transects, in	nportant features,	etc.	
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area				
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland near Structure 254/96.						
HYDROLOGY						
			0	(material and a filtred manufacture)	1\	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requ	ired: check all that apply)		•	(minimum of two requir	<u>rea)</u>	
Surface Water (A1)	Aquatic Fauna (B13)		Surface Soil Crac	ed Concave Surface (B	(8)	
High Water Table (A2)	Marl Deposits (B15) (I	I RR U)	Drainage Patterns			
Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines (B16)			
Water Marks (B1)		es on Living Roots (C3)	Dry-Season Wate			
Sediment Deposits (B2)	Presence of Reduced		Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction	n in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9))	
Algal Mat or Crust (B4)	Thin Muck Surface (C	7)	X Geomorphic Posit	tion (D2)		
Iron Deposits (B5)	Other (Explain in Rem	narks)	Shallow Aquitard	(D3)		
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	(D5)		
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches	s):				
	No X Depth (inches			.,	.,	
Saturation Present? Yes	No X Depth (inches	s): Wetland	Hydrology Present?	Yes No	X	
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well perial photos	nrevious inspections) if a	vailable:			
Describe Resolute Data (stream gauge, m	ornioring wen, denai priotos,	previous inspections), if a	valiable.			
Remarks:						

/EGETATION (Five Strata) – Use scier	ntific names of plants.	Sampling Point: 27-A
Tree Stratum (Plot size:30)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
l. 2.		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
i		Total Number of Dominant Species Across All Strata: 1 (B)
		Percent of Dominant Species
	=Total Cover	That Are OBL, FACW, or FAC: 0.0% (A/E) Prevalence Index worksheet:
50% of total cover:	20% of total cover:	Total % Cover of: Multiply by:
apling Stratum (Plot size:)		OBL species 0 x 1 = 0
· <u></u>		FACW species 0 x 2 = 0
		FAC species 0 x 3 = 0
		FACU species 0 x 4 = 0
		UPL species 60 x 5 = 300
		Column Totals: 60 (A) 300 (I
		Prevalence Index = B/A = 5.00
-	=Total Cover	Hydrophytic Vegetation Indicators:
50% of total cover:	20% of total cover:	1 - Rapid Test for Hydrophytic Vegetation
	20% of total cover.	-
nrub Stratum (Plot size:30)		2 - Dominance Test is >50%
		3 - Prevalence Index is ≤3.0 ¹
		Problematic Hydrophytic Vegetation (Explain)
		_
·		_
·		_ Indicators of hydric soil and wetland hydrology must
. <u> </u>		present, unless disturbed or problematic.
	=Total Cover	Definitions of Five Vegetation Strata:
50% of total cover:	20% of total cover:	_ Tree – Woody plants, excluding woody vines,
erb Stratum (Plot size: 30)		approximately 20 ft (6 m) or more in height and 3 in.
I cine max	60 Yes UPL	(7.6 cm) or larger in diameter at breast height (DBH).
		_ Sapling – Woody plants, excluding woody vines,
		approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
		Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
		 Herb – All herbaceous (non-woody) plants, including
	<u> </u>	herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately
D.		ft (1 m) in height.
1.		Woody Vine – All woody vines, regardless of height.
	60 =Total Cover	-
50% of total cover:		
	2070 01 total cover.	-
/oody Vine Stratum (Plot size:30)		
·		-
		_
·		_
·		_
· ,		- Hydrophytic
	=Total Cover	HydrophyticVegetation
50% of total cover:	20% of total cover:	Present? Yes No X

Remarks: (If observed, list morphological adaptations below.)

SOIL Sampling Point: 27-A

	•	o the dep				ator or c	onfirm the absence o	of indicators.)		
Depth (inches)	Matrix	%		k Featur		Loc ²	Toyturo	Pomo	urko	
(inches)	Color (moist)		Color (moist)	%	Type ¹	LOC	Texture	Rema	IIKS	
0-2	10YR 4/3	100					Loamy/Clayey			
2-20	10YR 5/3	95	10YR 4/6	5	С	M	Loamy/Clayey	Distinct redox c	oncentrations	
									_	
									_	
1Tyrpo: C_Co	oncentration, D=Depl		-Paduaad Matrix N		kod Son	Croins	² I postion: F	L=Pore Lining, M=W	otriv	
	ndicators: (Applical					diams.		for Problematic Hyd		
Histosol		bie to all t	Thin Dark Su			S T II)		uck (A9) (LRR O)	ric sons .	
	ipedon (A2)		Barrier Island					uck (A10) (LRR S)		
Black His			(MLRA 15		,	/		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)		ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic I	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outsi	ide MLRA 150A, 150	B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F	19) (LRR P, T)	
	esence (A8) (LRR U)		Depleted Da				Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	Redox Depre		(F8)		(MLRA 153B)				
		Dark Surface (A11) Marl (F10) (LRR U) Red Parent Material (F21)					500)			
	rk Surface (A12)	I D A 150 A	Depleted Oc							
	airie Redox (A16) (M lucky Mineral (S1) (Ll		Umbric Surfa				R O, P, T) (outside MLRA 138, 152A in FL, 154)) Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	KK 0, 3)	Delta Ochric					A 153B, 153D)	iviatrix (137)	
	edox (S5)		Reduced Ve				•	Explain in Remarks)		
	Matrix (S6)		Piedmont Flo	•	, .					
	face (S7) (LRR P, S,	T, U)	Anomalous E							
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicate	ors of hydrophytic ve	getation and	
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetla	nd hydrology must be	e present,	
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or proble	matic.	
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes	No X	
Remarks:							ı			

Attachment 2.D.1 Page 192 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lakeviev	v 230 kV Rebuild City/Cou	nty: Greensville	Sampling Date: 9/24/20			
Applicant/Owner: Dominion Energy Virginia		State: VA	Sampling Point: 28-A			
Investigator(s): S. Kupiec	Section, Towr	nship, Range:				
Landform (hillside, terrace, etc.): Flat	Local relief (con-	cave, convex, none): None	Slope (%): 0-1			
Subregion (LRR or MLRA): LRR P, MLRA 133A	Long: -77.635915	Datum:				
Soil Map Unit Name: Roanoke Loam		fication: N/A				
Are climatic / hydrologic conditions on the site type	oical for this time of year?		no, explain in Remarks.)			
Are Vegetation , Soil , or Hydrology		Are "Normal Circumstances" pres				
Are Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any answers ir	n Remarks.)			
SUMMARY OF FINDINGS – Attach sit		point locations, transects,	important features, etc.			
Hydric Soil Present? Yes		mpled Area Wetland? Yes X	No			
Remarks: Wetland at Flag CB-2.						
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicate	ors (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil C	racks (B6)			
Surface Water (A1)	_Aquatic Fauna (B13)	Sparsely Vege	etated Concave Surface (B8)			
X High Water Table (A2)	Marl Deposits (B15) (LRR U)	Drainage Patte	erns (B10)			
X Saturation (A3)	_ Hydrogen Sulfide Odor (C1)	Moss Trim Lin	Moss Trim Lines (B16)			
Water Marks (B1)	_Oxidized Rhizospheres on Living F	Roots (C3) Dry-Season W	/ater Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Crayfish Burro				
Drift Deposits (B3)	Recent Iron Reduction in Tilled So		ible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	X Geomorphic P				
Iron Deposits (B5)	Other (Explain in Remarks)	Shallow Aquita				
Inundation Visible on Aerial Imagery (B7)		X FAC-Neutral T				
Water-Stained Leaves (B9)		Sphagnum Mo	oss (D8) (LRR T, U)			
Field Observations:						
	Depth (inches):					
Water Table Present? Yes X No	' '					
Saturation Present? Yes X No	Depth (inches): 0	Wetland Hydrology Present	? Yes X No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monito	ring well parial photos provious inc	apportions) if available:				
Describe Necolded Data (stream gauge, monito	Ting well, aerial priotos, previous ins	spections), ii avaliable.				
Remarks:						

VEGETATION (Five Strata) - Use scient	tific names o	of plants.		Sampling Point:28-A
Tree Christian (Diet sine)	Absolute	Dominant	Indicator	Demoisones Test werkelingt
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
3				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				
4				Total Number of Dominant Species Across All Strata: 3 (B)
5				``
6	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
0.		Total Cover		Prevalence Index worksheet:
50% of total cover:		of total cover:		Total % Cover of: Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 = 0
1. cer rubrum	10	Yes	FAC	FACW species 105 x 2 = 210
2.				FAC species 60 x 3 = 180
3.				FACU species 5 x 4 = 20
4.				UPL species 0 x 5 = 0
5.				Column Totals: 170 (A) 410 (B)
6.				Prevalence Index = B/A = 2.41
	10 =	=Total Cover		Hydrophytic Vegetation Indicators:
50% of total cover:	5 20%	of total cover:	2	1 - Rapid Test for Hydrophytic Vegetation
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%
1.				X 3 - Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
4.				
5				¹ Indicators of hydric soil and wetland hydrology must be
6				present, unless disturbed or problematic.
	=	=Total Cover		Definitions of Five Vegetation Strata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
1. Solidago rugosa	50	Yes	FAC	(7.5 only of larger in diameter at breast height (BBH).
2. rundinaria tecta	35	Yes	FACW	Sapling – Woody plants, excluding woody vines,
3. ndropogon glomeratus	25	No	FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
4. Dichanthelium scoparium	20	No	FACW	, , ,
5. ernonia no eboracensis	15	No No	FACW	Shrub - Woody Plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
6. upatorium perfoliatum	10	No	FACW	approximately 3 to 20 ft (1 to 6 fil) in fleight.
7. teridium a uilinum	5	No	FACU	Herb – All herbaceous (non-woody) plants, including
8.				herbaceous vines, regardless of size, <u>and</u> woody plants, except woody vines, less than approximately 3
9.				ft (1 m) in height.
10.				Woody Vine – All woody vines, regardless of height.
11	400	T-1-1-0		Woody vine All woody vines, regardless of height.
F00/ -f1-1-1		=Total Cover	00	
	80 20%	of total cover:	32	
Woody Vine Stratum (Plot size: 30)				
1.				
2.				
3.				
4				
5		T-1-1-C		Hydrophytic
E00/ -f		=Total Cover		Vegetation No. Veg. V. No.
50% of total cover:		of total cover:		Present? Yes X No No
Remarks: (If observed, list morphological adaptation	ons below.)			

SOIL Sampling Point: 28-A

Profile Desc Depth	ription: (Describe t Matrix	to the dep				ator or co	onfirm the absence of	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	Redox Features or (moist) % Type ¹ Loc ² Texture		Texture	Remarks			
0-8	2.5Y 4/1	100	(. , , , ,		Loamy/Clayey			
8-20	2.5Y 6/1	80	10YR 5/8	20	С	M	Loamy/Clayey	Prominent redox concentrations		
0 20	2.01 0/1		10110 3/0			101	Loanly/Olayey	1 Tominone redox concentrations		
¹Type: C=Co	oncentration, D=Depl	etion, RM=	=Reduced Matrix, N	IS=Mas	ked San	d Grains.	² Location: I	PL=Pore Lining, M=Matrix.		
	ndicators: (Applica							for Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su			S, T, U)	1 cm M	uck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	3D)		Coast F	Prairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outs	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3))		(outs	ide MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U))	Depleted Da	rk Surfa	ace (F7)		Anomal	ous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)	Redox Depre		(F8)		•	A 153B)			
	Depleted Below Dark Surface (A11) Marl (F10) (LRR U) Thick Dark Surface (A12) Popleted Ophric (F11) (AL DA 151)							rent Material (F21)		
	Thick Dark Surface (A12) Depleted Ochric (F11) (MLRA 151) Coast Prairie Redox (A16) (MLRA 150A) Iron-Manganese Masses (F12) (LRR							nallow Dark Surface (F22)		
					•	, .				
	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa					Islands Low Chroma Matrix (TS7)		
	Sandy Gleyed Matrix (S4) Delta Ochric (F17) (MLRA 1 Sandy Redox (S5) Reduced Vertic (F18) (MLR.							A 153B, 153D)		
								Explain in Remarks)		
	Matrix (S6) face (S7) (LRR P, S	T 11)	Piedmont Flo Anomalous B							
	e Below Surface (S8)	•	(MLRA 14	•		•	•	ors of hydrophytic vegetation and		
	s, T, U))	Very Shallov							
(LIXIX X	5, 1, 0)		(MLRA 13					ss disturbed or problematic.		
Restrictive L	_ayer (if observed):		<u> </u>			-		·		
Type:										
Depth (in	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 195 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	view 230 kV Rebuild	City/County: Greensville		Sampling Date: 9/2	23/20		
Applicant/Owner: Dominion Energy Virgin	nia		State: VA	Sampling Point:	28-B		
Investigator(s): S. Kupiec	Secti	on, Township, Range:					
Landform (hillside, terrace, etc.): Slope		elief (concave, convex, no	ne): Convex	Slope (%):	2-4		
Subregion (LRR or MLRA): LRR P, MLRA 133A Lat: 36.567078 Long: -77.635813 Datum:							
	10A Lat. 00.001010	Long. 47.					
Soil Map Unit Name: Roanoke loam		V V	NWI classifica				
Are climatic / hydrologic conditions on the site		Yes X		explain in Remarks.)			
Are Vegetation, Soil, or Hydrol			umstances" present		10		
Are Vegetation, Soil, or Hydrol	ogynaturally problemat	ic? (If needed, expla	in any answers in Re	emarks.)			
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point location	ns, transects, im	nportant feature	s, etc.		
Hydric Soil Present?		s the Sampled Area within a Wetland?	Yes	No X			
Remarks: Upland above Flag CB-2.							
HYDROLOGY							
Wetland Hydrology Indicators:		9.	ocondary Indicators	(minimum of two req	uirod)		
Primary Indicators (minimum of one is require	ed: check all that apply)	<u> </u>	Surface Soil Crac		<u>uireu)</u>		
Surface Water (A1)	Aquatic Fauna (B13)	_		ed Concave Surface	(B8)		
High Water Table (A2)	Marl Deposits (B15) (LRF	— R U)	Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odor (C	_	Moss Trim Lines (B16)				
Water Marks (B1)	Oxidized Rhizospheres or	n Living Roots (C3)	 Dry-Season Wate	r Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron	n (C4)	Crayfish Burrows	(C8)			
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C	29)		
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	_	Geomorphic Posit				
Iron Deposits (B5)	Other (Explain in Remark	_	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	<u> ></u>	FAC-Neutral Test				
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)			
Field Observations:	N V 5 1 (1 1)						
Surface Water Present? Yes Water Table Present? Yes	No X Depth (inches):						
Water Table Present? Yes Saturation Present? Yes	No X Depth (inches): Depth (inches):	Wetland Hy	drology Present?	YesN	lo X		
(includes capillary fringe)	No X Deptil (iliches).	Welland Hy	arology r resent:	163 N	<u> </u>		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avai	lable:				
, ,		, ,					
Remarks:							

VEGETATION (Five Strata) – Use scien	tific names o	of plants.		Sampling Poir	nt: <u>28-B</u>
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	76 COVEI	Species:	Status		
2				Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
				_	(/1)
4				Total Number of Dominant Species Across All Strata:	2 (B)
				·	(D)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	50.0% (A/B)
·		Total Cover		Prevalence Index worksheet:	30.070 (A/B)
50% of total cover:		of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)		or total oover.			= 0
1					110
2					= 0
3					= 100
4.				UPL species 0 x 5	
5.				Column Totals: 80 (A)	210 (B)
6.				Prevalence Index = B/A =	2.63
		Total Cover		Hydrophytic Vegetation Indicato	
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic	
Shrub Stratum (Plot size: 30)				2 - Dominance Test is >50%	3
1.				3 - Prevalence Index is ≤3.0 ¹	
2.				Problematic Hydrophytic Vege	etation ¹ (Explain)
3.					() ,
4.					
5.				¹ Indicators of hydric soil and wetlar	nd hydrology must bo
6.				present, unless disturbed or proble	
		Total Cover		Definitions of Five Vegetation St	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding wo	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more i	in height and 3 in.
1. ndropogon glomeratus	50	Yes	FACW	(7.6 cm) or larger in diameter at br	east height (DBH).
2. teridium a uilinum	25	Yes	FACU	Sapling – Woody plants, excluding	g woody vines,
3. Dichanthelium scoparium	5	No	FACW	approximately 20 ft (6 m) or more i	
4.				than 3 in. (7.6 cm) DBH.	
5.				Shrub - Woody Plants, excluding v	woody vines,
6.				approximately 3 to 20 ft (1 to 6 m)	in height.
7.				Herb – All herbaceous (non-woody	v) plants, including
8.				herbaceous vines, regardless of size	.,,
9.				plants, except woody vines, less th	an approximately 3
10.				ft (1 m) in height.	
11				Woody Vine – All woody vines, re	gardless of height.
	80 =	Total Cover			
50% of total cover:	40 20%	of total cover:	16		
Woody Vine Stratum (Plot size:)					
1					
2.					
3.					
4					
5				Hydrophytic	
	=	Total Cover		Vegetation	
50% of total cover:	20%	of total cover:		Present? Yes	No X
Remarks: (If observed, list morphological adaptati	ons below.)				

SOIL Sampling Point: 28-B

	•	to the dept				ator or co	onfirm the absence of	f indicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Featur %	Type ¹	Loc ²	Texture	Remarks		
0-6	2.5Y 4/4	100	Color (moist)	70	Турс	LOC	Loamy/Clayey	Remarks		
								_		
6-20	2.5Y 5/4	100					Loamy/Clayey			
			_							
	oncentration, D=Depl					d Grains.		L=Pore Lining, M=Matrix.		
=	Indicators: (Applica	ble to all L				C T II)		or Problematic Hydric Soils ³ :		
Histosol	(A1) pipedon (A2)		Thin Dark Su Barrier Island					ck (A9) (LRR O) ck (A10) (LRR S)		
Black His			(MLRA 153			12)		rairie Redox (A16)		
	n Sulfide (A4)		Loamy Mucky			RR ()		de MLRA 150A)		
	Layers (A5)		Loamy Gleye				•	Vertic (F18)		
	Bodies (A6) (LRR P,	T, U)	Depleted Mat					de MLRA 150A, 150B)		
	cky Mineral (A7) (LR		Redox Dark S				Piedmon	t Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Dar	k Surfa	ice (F7)		Anomalo	us Bright Floodplain Soils (F20)		
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	ssions	(F8)		(MLRA	(153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	RR U)			Red Parent Material (F21)			
	ark Surface (A12)		Depleted Och				Very Shallow Dark Surface (F22)			
	rairie Redox (A16) (M				•	, .				
	lucky Mineral (S1) (L	RR O, S)	Umbric Surfa					slands Low Chroma Matrix (TS7)		
	eleyed Matrix (S4)		Delta Ochric					(153B, 153D)		
	edox (S5) Matrix (S6)		Reduced Ver Piedmont Flo	•	, .		· — `	xplain in Remarks)		
	rface (S7) (LRR P, S,	T 11)	Anomalous E							
	e Below Surface (S8)		(MLRA 149	-				rs of hydrophytic vegetation and		
	S, T, U)	,	Very Shallow					nd hydrology must be present,		
,			(MLRA 138					s disturbed or problematic.		
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Presen	t? Yes No X		
Remarks:										

Attachment 2.D.1 Page 198 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/2	23/20	
Applicant/Owner: Dominion Energy Virgi	inia		State: VA	Sampling Point:	29-A	
Investigator(s): S. Kupiec	Se	ction, Township, Range:		_		
Landform (hillside, terrace, etc.): Drainagev	way Local	relief (concave, convex,	none): Concave	Slope (%):	2-3	
Subregion (LRR or MLRA): LRR P, MLRA 1	33A Lat: 36.559376	Long: -7	77.639640	Datum:		
Soil Map Unit Name: Mattaponi sandy loam	<u> </u>		NWI classifica	tion: N/A		
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			ircumstances" present		io	
Are Vegetation , Soil , or Hydro			plain any answers in Re		<u> </u>	
<u> </u>			•	,		
SUMMARY OF FINDINGS – Attach	ı site map showing sai	mpling point location	ons, transects, in	iportant features	s, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area				
Hydric Soil Present?	Yes X No	within a Wetland?	Yes	No X		
Wetland Hydrology Present?	Yes No X					
Remarks:						
Upland near Structure 254-104.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two real	uired)	
Primary Indicators (minimum of one is requi	ired: check all that apply)		Surface Soil Crac	•	<u>anca)</u>	
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface ((B8)	
High Water Table (A2)	Marl Deposits (B15) (LF	RR U)	Drainage Patterns			
Saturation (A3)	Hydrogen Sulfide Odor			Moss Trim Lines (B16)		
Water Marks (B1)	Oxidized Rhizospheres		Dry-Season Wate			
Sediment Deposits (B2)	Presence of Reduced II		Crayfish Burrows			
Drift Deposits (B3)	Recent Iron Reduction i	in Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C	;9)	
Algal Mat or Crust (B4)	Thin Muck Surface (C7))	X Geomorphic Posit	tion (D2)		
Iron Deposits (B5)	Other (Explain in Rema	rks)	Shallow Aquitard	(D3)		
Inundation Visible on Aerial Imagery (B	7)		FAC-Neutral Test	(D5)		
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches)					
	No X Depth (inches)	:				
Saturation Present? Yes	No X Depth (inches)	: Wetland I	Hydrology Present?	Yes N	o X	
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, p	previous inspections), if a	vailable:			
Remarks:						
Nomano.						

/EGETATION (Five Strata) – Use scien	tific names	or plants.		Sampling Point:	29-A	4
Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1 2	·			Number of Dominant Species That Are OBL, FACW, or FAC:	3	_ (A)
3	·			Total Number of Dominant Species Across All Strata:	4	_ (B)
5	·			Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0%	_ (A/B)
		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:			Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	=0	
1				FACW species 45 x 2 =	90	
2				FAC species 45 x 3 =	135	
3				FACU species 10 x 4 =	40	
4.	<u> </u>			UPL species 45 x 5 =	225	
5.	·			Column Totals: 145 (A)	490	(B)
6.	·			Prevalence Index = B/A =	3.38	
	·	=Total Cover		Hydrophytic Vegetation Indicators	S:	
50% of total cover:	20%	of total cover:		1 - Rapid Test for Hydrophytic V		
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	-	
1. hus copallinum	45	Yes	UPL	3 - Prevalence Index is ≤3.0 ¹		
2.				Problematic Hydrophytic Vegeta	ation ¹ (Expla	ain)
3						,
4.						
5.				1		
	- ——			Indicators of hydric soil and wetland		must be
6.				present, unless disturbed or problem		
		=Total Cover	-	Definitions of Five Vegetation Stra		
	23 20%	of total cover:	9	Tree – Woody plants, excluding woo		3 1
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at brea		
1. <u>ndropogon irginicus</u>	40	Yes	FAC	(7.0 off) of larger in diameter at 2.3.	ast neight (2	יווטל.
2. anicum errucosum	35	Yes	FACW	Sapling – Woody plants, excluding		
3. upatorium perfoliatum	10	No	FACW	approximately 20 ft (6 m) or more in	height and	less
4. Chamaecrista fasciculata	5	No	FACU	than 3 in. (7.6 cm) DBH.		
5. Solanum carolinense6.	5	No	FACU	Shrub - Woody Plants, excluding we approximately 3 to 20 ft (1 to 6 m) in		
7.						
8.	. ——			Herb – All herbaceous (non-woody) herbaceous vines, regardless of size		
9.				plants, except woody vines, less tha		•
	. ——			ft (1 m) in height.		•
10.	- ——			Woody Vine – All woody vines, rega	ardless of h	o≙iaht
11				Woody ville All woody villes, logs	iluicoo oi	eigiii.
		=Total Cover				
	48 20%	of total cover:	19			
Woody Vine Stratum (Plot size: 30)						
Smilax rotundifolia	5	Yes	FAC			
2						
3						
4	= <u></u>					
5.				11 July 2 July 2 July 2		
	5	=Total Cover		Hydrophytic Vegetation		
50% of total cover:		of total cover:	1	Present? Yes X No	า	

SOIL Sampling Point: 29-A

	-	o the dept				ator or c	onfirm the absence o	of indicators.)		
Depth	Matrix			k Featur		12	Testone	Demode		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-16	2.5Y 4/1	98	10YR 4/6	2	С	M	Loamy/Clayey	Prominent redox concentrations		
16-20	2.5Y 6/2	80	10YR 5/6	20	С	M	Loamy/Clayey	Prominent redox concentrations		
¹Type: C=Co	oncentration, D=Depl	etion RM-	Reduced Matrix M	 2cM_2l	ked Sand		² Location: F	PL=Pore Lining, M=Matrix.		
	ndicators: (Applical					J Oranis.		for Problematic Hydric Soils ³ :		
Histosol			Thin Dark Su			S, T, U)		uck (A9) (LRR O)		
	ipedon (A2)		Barrier Island					uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
Hydroger	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	.RR O)	(outsi	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
	Bodies (A6) (LRR P,		X Depleted Ma				,	ide MLRA 150A, 150B)		
	cky Mineral (A7) (LR		Redox Dark					nt Floodplain Soils (F19) (LRR P, T)		
	esence (A8) (LRR U)		Depleted Da					ous Bright Floodplain Soils (F20)		
	ck (A9) (LRR P, T)	Redox Depre		(F8)		(MLRA 153B)				
	Below Dark Surface rk Surface (A12)	(A11)	Marl (F10) (L Depleted Oc		1) (MI D)	۸ 151)	Red Parent Material (F21)			
	airie Redox (A16) (M	I RA 150A					Very Shallow Dark Surface (F22) R O, P, T) (outside MLRA 138, 152A in FL, 154)			
	ucky Mineral (S1) (LI		Umbric Surfa				Barrier Islands Low Chroma Matrix (TS7)			
	leyed Matrix (S4)	, ,	Delta Ochric					A 153B, 153D)		
	edox (S5)		Reduced Ve				50B) Other (E	Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLF	RA 149A)			
Dark Sur	face (S7) (LRR P, S,	T, U)	Anomalous E	Bright Fl	loodplain	Soils (F2	20)			
	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)			ors of hydrophytic vegetation and		
(LRR S	S, T, U)		Very Shallow					nd hydrology must be present,		
			(MLRA 13	8, 152A	in FL, 1	54)	unles	s disturbed or problematic.		
	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1 Page 201 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvil	le	Sampling Date: 9	/24/20		
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point:	29-B		
Investigator(s): S. Kupiec	S	ection, Township, Range:					
Landform (hillside, terrace, etc.): Slope	Loca	al relief (concave, convex,	none): Convex	Slope (%):	2-4		
Subregion (LRR or MLRA): LRR P, MLRA 1			77.640565	Datum:			
Soil Map Unit Name: Fluvanna-Mattaponi co			NWI classifica				
Are climatic / hydrologic conditions on the sit		r? Yes X		explain in Remarks.)	١		
			Circumstances" present				
Are Vegetation, Soil, or Hydro					.10		
Are Vegetation, Soil, or Hydro	· 		plain any answers in R				
SUMMARY OF FINDINGS – Attach	n site map showing sa	ampling point locati	ons, transects, in	nportant feature	es, etc.		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X No X	Is the Sampled Area within a Wetland?	Yes	No. Y			
Wetland Hydrology Present?	Yes No X	within a wetland:	163	No <u>X</u>			
Remarks:							
Upland above Flag CE-5.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators		<u>quired)</u>		
Primary Indicators (minimum of one is requ			Surface Soil Crac				
Surface Water (A1)	Aquatic Fauna (B13)			ed Concave Surface	: (B8)		
High Water Table (A2)	Marl Deposits (B15) (L		Drainage Patterns (B10)				
Saturation (A3)	Hydrogen Sulfide Odo		Moss Trim Lines (B16)				
Water Marks (B1)		eres on Living Roots (C3) Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Presence of Reduced						
Drift Deposits (B3) Algal Mat or Crust (B4)	Recent Iron Reduction Thin Muck Surface (C		Geomorphic Posi		C9)		
Iron Deposits (B5)	Other (Explain in Rem	,	Shallow Aquitard	, ,			
Inundation Visible on Aerial Imagery (B		iaiksj	FAC-Neutral Tes				
Water-Stained Leaves (B9)	")		Sphagnum Moss	` '			
Field Observations:			Opinagriam Mood	(20) (21111 1, 0)			
	No X Depth (inches	s)·					
	No X Depth (inches						
Saturation Present? Yes	No X Depth (inches		Hydrology Present?	Yes I	No X		
(includes capillary fringe)			J. 1 3J				
Describe Recorded Data (stream gauge, ma	onitoring well, aerial photos,	previous inspections), if a	vailable:				
Remarks:							
1							

/EGETATION (Five Strata) – Use scien	tific names	of plants.		Sampling Point:	t: 29-B	3
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1 2				Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
3. 4.				Total Number of Dominant Species Across All Strata:	4	(B)
56.				Percent of Dominant Species That Are OBL, FACW, or FAC:	75.0%	(A/B)
		=Total Cover		Prevalence Index worksheet:		
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	= 0	_
1.				FACW species 30 x 2 =	= 60	_
2.	·			FAC species 20 x 3 =	= 60	
3.	· ———			FACU species 65 x 4 =	= 260	
4.				UPL species 0 x 5 =	= 0	
5.				Column Totals: 115 (A)	380	(B)
6.	-			Prevalence Index = B/A =	3.30	
<u> </u>	•	=Total Cover		Hydrophytic Vegetation Indicators		
50% of total cover:		of total cover:		1 - Rapid Test for Hydrophytic V		
Shrub Stratum (Plot size: 30)		Or total oc		X 2 - Dominance Test is >50%	/egolalio	
1				3 - Prevalence Index is ≤3.0 ¹		
1				— ·	. 1 /Eval	
2.				Problematic Hydrophytic Vegeta	ation (Expia	ain)
3.						
4						
5				¹ Indicators of hydric soil and wetland		must b
6.	_			present, unless disturbed or problem		
	· —	=Total Cover		Definitions of Five Vegetation Stra	ata:	
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woo		
Herb Stratum (Plot size: 30)		,		approximately 20 ft (6 m) or more in	n height and	
1. teridium a uilinum	65	Yes	FACU	(7.6 cm) or larger in diameter at brea		
Chasmanthium laxum	30	Yes	FACW	Sapling – Woody plants, excluding	odv vine	
3.		100	Tro	approximately 20 ft (6 m) or more in than 3 in. (7.6 cm) DBH.		
5.	-			Shrub - Woody Plants, excluding we	madu vinas	
				approximately 3 to 20 ft (1 to 6 m) in		
6.	-				Ü	
7				Herb – All herbaceous (non-woody)		
8.				herbaceous vines, regardless of size plants, except woody vines, less that		•
9.				ft (1 m) in height.	ιπ αμριολιιι	altry c
10					" af h	1.364
11				Woody Vine – All woody vines, rega	ardless of ri	eignt.
	95	=Total Cover				
50% of total cover:	48 20%	of total cover:	19	Γ		_
Woody Vine Stratum (Plot size: 30)						
1. itis rotundifolia	15	Yes	FAC			
2. Campsis radicans	5	Yes	FAC			
3.						
4.						
5.						
5		O		Hydrophytic		
	* 1/ 1	Tatarran				
50% of total cover:		=Total Cover	-	Vegetation Present? Yes X N	No	

SOIL Sampling Point: 29-B

	•	to the dept				itor or co	onfirm the absence	of indicators.)		
Depth	Matrix	0/		K Featur		12	Tardura	Dom		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Ker	narks	
0-2	10YR 4/3	100					Loamy/Clayey			
2-20	10YR 5/4	100					Loamy/Clayey			
1							2			
	oncentration, D=Depl					Grains.		PL=Pore Lining, M=		
Hyaric Soii i Histosol	ndicators: (Applica	bie to all L	RRS, unless otne Thin Dark Sι			C T II)		for Problematic Hy luck (A9) (LRR O)	/aric Solis*:	
	vipedon (A2)		Barrier Island	•	, .	-		Muck (A9) (LRR O)		
Black His			(MLRA 15		`	12)		Prairie Redox (A16)		
	n Sulfide (A4)		Loamy Muck			RR O)		side MLRA 150A)		
	Layers (A5)		Loamy Gleye			,	•	ed Vertic (F18)		
	Bodies (A6) (LRR P,	T, U)	Depleted Ma					side MLRA 150A, 1	50B)	
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	ont Floodplain Soils	(F19) (LRR P, T)	
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ice (F7)		Anoma	alous Bright Floodpla	ain Soils (F20)	
	ck (A9) (LRR P, T)		Redox Depre		(F8)		•	RA 153B)		
	I Below Dark Surface	(A11)	Marl (F10) (L					arent Material (F21)		
	rk Surface (A12)	U D A 450 A	Depleted Oc					hallow Dark Surface	` ,	
	rairie Redox (A16) (M	•						side MLRA 138, 152	. ,	
	lucky Mineral (S1) (L leyed Matrix (S4)	KK 0, 3)	Umbric Surfa Delta Ochric					Islands Low Chrom RA 153B, 153D)	a Mallix (137)	
	edox (S5)		Reduced Ver				•	(Explain in Remarks)	
	Matrix (S6)		Piedmont Flo	•	, .			(Explain in Normano	,	
	face (S7) (LRR P, S	, T, U)	Anomalous E							
	e Below Surface (S8)		(MLRA 14	_		`		tors of hydrophytic v	egetation and	
(LRR S	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,			
			(MLRA 13	8, 152A	in FL, 15	54)	unle	ss disturbed or prob	lematic.	
Restrictive L	_ayer (if observed):									
Type:										
Depth (in	nches):						Hydric Soil Prese	ent? Yes	No X	
Remarks:										

Attachment 2.D.1 Page 204 of 230

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - Lake	eview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/24/	/20			
Applicant/Owner: Dominion Energy Virg	inia		State: VA	Sampling Point: 30	0-A			
Investigator(s): S. Kupiec	Sect	ion, Township, Range:						
Landform (hillside, terrace, etc.): Slope	Local re	elief (concave, convex, ı	none): None	Slope (%): 1	1-2			
Subregion (LRR or MLRA): LRR P, MLRA 1			7.645753	Datum:				
Soil Map Unit Name: Craven clay loam	<u> </u>		NWI classifica					
· · · · · · · · · · · · · · · · · · ·	- turning for this time of warm	V V						
Are climatic / hydrologic conditions on the sit		Yes X		explain in Remarks.)				
Are Vegetation, Soil, or Hydro			ircumstances" present					
Are Vegetation, Soil, or Hydro	logy naturally problema	tic? (If needed, exp	plain any answers in R	emarks.)				
SUMMARY OF FINDINGS – Attach	ı site map showing sam	pling point location	ons, transects, in	nportant features,	etc.			
Lludronhutia Vagatatian Procent?	Vac. V. No.	la the Compled Area						
Hydrophytic Vegetation Present? Hydric Soil Present?		Is the Sampled Area within a Wetland?	Yes X	No				
Wetland Hydrology Present?	Yes X No	within a wettana.	103 <u>X</u>					
Remarks:	<u> </u>							
Wetland near Flag CF-2.								
S .								
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two require	ed)			
Primary Indicators (minimum of one is requ	ired; check all that apply)		Surface Soil Crac	:ks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetat	ed Concave Surface (B8	8)			
High Water Table (A2)	Marl Deposits (B15) (LRI	Drainage Patterns (B10)						
X Saturation (A3)	Hydrogen Sulfide Odor (0	e Odor (C1) Moss Trim Lines (B16)						
Water Marks (B1)	Oxidized Rhizospheres o	pheres on Living Roots (C3) Dry-Season Water Table (C2)						
Sediment Deposits (B2)	Presence of Reduced Iro	duced Iron (C4) Crayfish Burrows (C8)						
Drift Deposits (B3)	Recent Iron Reduction in	Tilled Soils (C6)	Saturation Visible	on Aerial Imagery (C9))			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Posi	tion (D2)				
Iron Deposits (B5)	Other (Explain in Remark	(S)	Shallow Aquitard					
Inundation Visible on Aerial Imagery (B	7)		X FAC-Neutral Test	, ,				
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)				
Field Observations:								
Surface Water Present? Yes	No X Depth (inches):							
Water Table Present? Yes X	No Depth (inches): No Depth (inches):	18						
	No Depth (inches):	4 Wetland I	Hydrology Present?	Yes X No				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, pre	evious inspections), if av	/ailable:					
Remarks:								
Nomano.								

VEGETATION (Five Strata) – Use scienti	fic names	of plants.		Sampling Point	: <u>30-A</u>
Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	6 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	6 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 5 x 1 =	= 5
1. Li uidambar st raciflua	15	Yes	FAC	FACW species 75 x 2 =	= 150
2. uercus nigra	15	Yes	FAC	FAC species 95 x 3 =	= 285
3.				FACU species 0 x 4 =	= 0
4.				UPL species 0 x 5 =	= 0
5.				Column Totals: 175 (A)	440 (B)
6.				Prevalence Index = B/A =	2.51
	30	=Total Cover		Hydrophytic Vegetation Indicators	S:
50% of total cover: 1		of total cover:	6	1 - Rapid Test for Hydrophytic \	
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	9
1				X 3 - Prevalence Index is ≤3.0 ¹	
				Problematic Hydrophytic Vegeta	ation ¹ (Explain)
					auon (Explain)
4.					
<u> </u>					
6.				¹ Indicators of hydric soil and wetland	
0.		=Total Cover		present, unless disturbed or problem	
EOO/ of total agree				Definitions of Five Vegetation Str	
50% of total cover:		of total cover:		Tree – Woody plants, excluding wood approximately 20 ft (6 m) or more in	
Herb Stratum (Plot size: 30)	20	Vaa	EA C\\\	(7.6 cm) or larger in diameter at breathing	•
1. Dichanthelium scoparium	30	Yes	FACW		
2. Dichanthelium dichotomum	30	Yes	FAC	Sapling – Woody plants, excluding approximately 20 ft (6 m) or more in	
3. arathel pteris no eboracensis	20	Yes	FAC	than 3 in. (7.6 cm) DBH.	neight and less
4. ernonia no eboracensis	15	No	FACW		
5. <u>icrostegium imineum</u>	15	No	FAC	Shrub - Woody Plants, excluding water approximately 3 to 20 ft (1 to 6 m) in	
6. C perus strigosus	5	No	FACW	approximately 3 to 20 it (1 to 6 iii) ii	i noight.
7. ersicaria sagittata	5	No	OBL	Herb – All herbaceous (non-woody)	
8				herbaceous vines, regardless of size plants, except woody vines, less that	
9				ft (1 m) in height.	in approximately 3
10					
11				Woody Vine – All woody vines, rega	ardiess of neight.
	120	=Total Cover			
50% of total cover: 6	20%	of total cover:	24		
Woody Vine Stratum (Plot size: 30)					
1. pios americana	25	Yes	FACW		
2					
3.					
4.					
5.				Hydrophytic	
	25	=Total Cover		Hydrophytic Vegetation	
50% of total cover: 1	3 20%	of total cover:	5	9	0
Remarks: (If observed, list morphological adaptatio	ns below)				

SOIL Sampling Point: 30-A

Profile Desc Depth	ription: (Describe t Matrix	to the dep		ıment tl x Featur		ator or c	onfirm the absence o	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-5	10YR 4/1	85	10YR 3/6	15	C	PL	Loamy/Clayey	Prominent redox concentrations		
5-10	10YR 5/1	80	10YR 4/6	20	С	М	Loamy/Clayey	Prominent redox concentrations		
10-15	2.5Y 6/2	85	10YR 4/6	15	C	M	Loamy/Clayey	Prominent redox concentrations		
¹ Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	1S=Mas	ked Sand	d Grains.	² Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applica	ble to all I	RRs, unless othe	rwise n	oted.)		Indicators f	for Problematic Hydric Soils ³ :		
Histosol	(A1)		Thin Dark Su	urface (S	89) (LRR	S, T, U)	1 cm M	uck (A9) (LRR O)		
Histic Ep	ipedon (A2)		Barrier Island	ds 1 cm	Muck (S	12)	2 cm M	uck (A10) (LRR S)		
Black His	stic (A3)		(MLRA 15	3B, 153	D)		Coast P	rairie Redox (A16)		
Hydrogei	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outsi	ide MLRA 150A)		
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduce	d Vertic (F18)		
Organic	Bodies (A6) (LRR P,	T, U)	X Depleted Ma	trix (F3)			(outsi	ide MLRA 150A, 150B)		
5 cm Mu	cky Mineral (A7) (LR	R P, T, U)	Redox Dark	Surface	(F6)		Piedmo	nt Floodplain Soils (F19) (LRR P, T)		
Muck Pre	esence (A8) (LRR U)		Depleted Da	rk Surfa	ce (F7)		Anomalous Bright Floodplain Soils (F20)			
1 cm Mu	ck (A9) (LRR P, T)		Redox Depre	essions	(F8)		(MLR	A 153B)		
Depleted	Below Dark Surface	(A11)	Marl (F10) (L	.RR U)			Red Pa	rent Material (F21)		
Thick Da	rk Surface (A12)		Depleted Oc	hric (F1	1) (MLRA	A 151)	Very Shallow Dark Surface (F22)			
Coast Pr	airie Redox (A16) (M	ILRA 150A	(a) Iron-Mangan	ese Mas	sses (F1	2) (LRR (O, P, T) (outsi	ide MLRA 138, 152A in FL, 154)		
Sandy M	ucky Mineral (S1) (L	RR O, S)	Umbric Surfa	ace (F13	3) (LRR F	P, T, U)	Barrier Islands Low Chroma Matrix (TS7)			
Sandy G	leyed Matrix (S4)		Delta Ochric	(F17) (N	MLRA 15	1)	(MLR	A 153B, 153D)		
Sandy R	edox (S5)		Reduced Ve	rtic (F18) (MLRA	150A, 1	50B)Other (E	Explain in Remarks)		
Stripped	Matrix (S6)		Piedmont Flo	oodplain	Soils (F	19) (MLF	RA 149A)			
Dark Sur	face (S7) (LRR P, S	, T, U)	Anomalous I	Bright Fl	oodplain	Soils (F2	20)			
Polyvalue	e Below Surface (S8))	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and			
(LRR S	S, T, U)		Very Shallow	Dark S	urface (F	22)	wetland hydrology must be present,			
	(MLRA 138, 152A in FL, 154)					54)	unles	s disturbed or problematic.		
Restrictive L	ayer (if observed):									
Type:										
Depth (in	iches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										

Attachment 2.D.1
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U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Atlantic and Gulf Coastal Plain Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R

Project/Site: TL 254/2201 Clubhouse - La	akeview 230 kV Rebuild	City/County: Greensvill	е	Sampling Date: 9/24	1/20
Applicant/Owner: Dominion Energy Vi	rginia		State: VA	Sampling Point:	30-B
Investigator(s): S. Kupiec	5	Section, Township, Range:			
Landform (hillside, terrace, etc.): Slope	Loc	cal relief (concave, convex,	none): Convex	Slope (%):	2-4
Subregion (LRR or MLRA): LRR P, MLRA	\ 133A Lat: 36.548924	Long: -7	77.644986	 Datum:	
Soil Map Unit Name: Craven clay loam			NWI classifica	ation: N/A	
Are climatic / hydrologic conditions on the	site typical for this time of year	ar? Yes X		explain in Remarks.)	
Are Vegetation, Soil, or Hyd			ircumstances" present		1
 -				<u> </u>	
Are Vegetation, Soil, or Hyd			plain any answers in R		
SUMMARY OF FINDINGS – Attac	ch site map showing s	ampling point location	ons, transects, ir	nportant features	, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area			
Hydric Soil Present?	Yes No X	within a Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes No X				
Remarks:		•			
Upland at Flag CF-2.					
LIVEROLOGY					
HYDROLOGY					
Wetland Hydrology Indicators:	en der els els els ell (best en els A			(minimum of two requi	ired)
Primary Indicators (minimum of one is red			Surface Soil Crac	` ,	DO)
Surface Water (A1) High Water Table (A2)	Aquatic Fauna (B13) Marl Deposits (B15) ('I DD II\	Drainage Pattern	ted Concave Surface (E	20)
Saturation (A3)	Hydrogen Sulfide Odd		Moss Trim Lines		
Water Marks (B1)		es on Living Roots (C3)	Dry-Season Water		
Sediment Deposits (B2)	Presence of Reduced	=	Crayfish Burrows		
Drift Deposits (B3)	Recent Iron Reduction			e on Aerial Imagery (C9	3)
Algal Mat or Crust (B4)	Thin Muck Surface (C		Geomorphic Posi		,
Iron Deposits (B5)	Other (Explain in Ren	narks)	Shallow Aquitard	(D3)	
Inundation Visible on Aerial Imagery	(B7)		X FAC-Neutral Tes	t (D5)	
Water-Stained Leaves (B9)			Sphagnum Moss	(D8) (LRR T, U)	
Field Observations:					
Surface Water Present? Yes	No X Depth (inche				
Water Table Present? Yes	No X Depth (inche				
Saturation Present? Yes	No X Depth (inche	es): Wetland I	Hydrology Present?	Yes No	<u> </u>
(includes capillary fringe) Describe Recorded Data (stream gauge,	monitoring well perial photos	nrevious inspections) if a	vailable:		
Describe Recorded Data (stream gauge,	monitoring well, acrial priotos,	, previous inspections), ii a	valiable.		
Remarks:					

VEGETATION (Five Strata) - Use scienti	ific names	of plants.		Sampling Point:	30-B
<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1				Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
3. 4.				Total Number of Dominant Species Across All Strata:	5 (B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0% (A/B)
		=Total Cover		Prevalence Index worksheet:	
50% of total cover:	20%	of total cover:		Total % Cover of:	Multiply by:
Sapling Stratum (Plot size: 30)				OBL species 0 x 1 =	:0
Li uidambar st raciflua	30	Yes	FAC	FACW species 30 x 2 =	60
2. inus taeda	10	Yes	FAC	FAC species 80 x 3 =	240
3.				FACU species 0 x 4 =	: 0
4.				UPL species 0 x 5 =	: 0
5.				Column Totals: 110 (A)	300 (B)
6.				Prevalence Index = B/A =	2.73
	40	=Total Cover		Hydrophytic Vegetation Indicators	
50% of total cover: 2	20 20%	of total cover:	8	1 - Rapid Test for Hydrophytic V	
Shrub Stratum (Plot size: 30)				X 2 - Dominance Test is >50%	o .
4				3 - Prevalence Index is ≤3.0 ¹	
		<u> </u>		Problematic Hydrophytic Vegeta	ation ¹ (Explain)
3				Troblematic Hydrophytic Vegeta	ttion (Explain)
··				1.	
5.				¹ Indicators of hydric soil and wetland	, 0,
6				present, unless disturbed or problem	
		=Total Cover		Definitions of Five Vegetation Stra	ata:
50% of total cover:	20%	of total cover:		Tree – Woody plants, excluding woo	
Herb Stratum (Plot size: 30)				approximately 20 ft (6 m) or more in (7.6 cm) or larger in diameter at brea	
1. ndropogon irginicus	30	Yes	FAC	(7.0 cm) of larger in diameter at brea	ast neight (DDH).
2. upatorium perfoliatum	15	Yes	FACW	Sapling – Woody plants, excluding v	
3. Chasmanthium laxum	15	Yes	FACW	approximately 20 ft (6 m) or more in	height and less
4. Solidago rugosa	5	No	FAC	than 3 in. (7.6 cm) DBH.	
5. <u>ubus argutus</u>	5	No	FAC	Shrub - Woody Plants, excluding wo approximately 3 to 20 ft (1 to 6 m) in	
6.					-
7.				Herb – All herbaceous (non-woody)	
8				herbaceous vines, regardless of size plants, except woody vines, less that	
9.				ft (1 m) in height.	approximatory o
10				Mandy Minn All was divising a range	
11				Woody Vine – All woody vines, rega	ardiess of neight.
	70	=Total Cover			
50% of total cover:	35 20%	of total cover:	14		
Woody Vine Stratum (Plot size: 30)					
1					
2.					
3.					
4.					
5.					
		=Total Cover		Hydrophytic	
50% of total cover:		of total cover:		Vegetation Present? Yes X No	n
				103 <u>X</u>	<u> </u>
Remarks: (If observed, list morphological adaptation	iis below.)				

SOIL Sampling Point: 30-B

Profile Desc Depth	ription: (Describe f Matrix	to the dep		ıment t < Featui		itor or co	onfirm the absence of i	ndicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks		
0-1	10YR 3/2	100					Loamy/Clayey				
1-20	10YR 4/2	100					Loamy/Clayey				
1 20	1011(4/2	100					Loamy, Glayey				
1 _{Type:} C-C	oncentration, D=Depl	otion PM	-Paduaad Matrix N			Croins	² Logation: DL	=Pore Lining, M=N	Actrix		
	Indicators: (Applica					Giailis.		Problematic Hyd			
Histosol		DIC to all I	Thin Dark Su			S. T. U)		(A9) (LRR O)	# 10 30113 .		
	pipedon (A2)		Barrier Island					(A10) (LRR S)			
Black Hi			(MLRA 15		,	,		rie Redox (A16)			
Hydroge	n Sulfide (A4)		Loamy Muck	y Miner	al (F1) (L	RR O)	(outside	MLRA 150A)			
Stratified	Layers (A5)		Loamy Gleye	ed Matri	x (F2)		Reduced \	/ertic (F18)			
Organic	Bodies (A6) (LRR P,	T, U)	Depleted Ma	trix (F3))		(outside	MLRA 150A, 150)B)		
	cky Mineral (A7) (LR	-	Redox Dark					Floodplain Soils (I	* * * * * * * * * * * * * * * * * * * *		
	esence (A8) (LRR U))	Depleted Da					Anomalous Bright Floodplain Soils (F20)			
	ck (A9) (LRR P, T)	(0.4.4)	Redox Depre		(F8)		(MLRA 1	*			
	Below Dark Surface	e (A11)	Marl (F10) (L		4) (NAL D.)	1 1 1 1 1		t Material (F21)	(500)		
	ark Surface (A12)	II DA 150 <i>0</i>	Depleted Oc				Very Shallow Dark Surface (F22) D, P, T) (outside MLRA 138, 152A in FL, 154)				
	airie Redox (A16) (M lucky Mineral (S1) (L		Iron-Mangan Umbric Surfa		•	, .		ands Low Chroma			
	ileyed Matrix (S4)	itit 0, 3)	Delta Ochric					153B, 153D)	Watrix (137)		
	edox (S5)		Reduced Ve					plain in Remarks)			
	Matrix (S6)		Piedmont Flo	•	, .			,			
	rface (S7) (LRR P, S	, T, U)	Anomalous E								
Polyvalu	e Below Surface (S8)	(MLRA 14	9A, 153	C, 153D)		³ Indicators of hydrophytic vegetation and				
(LRR	S, T, U)		Very Shallow	Dark S	Surface (F	22)	wetland hydrology must be present,				
			(MLRA 13	8, 152A	in FL, 1!	54)	unless	disturbed or proble	ematic.		
Restrictive I	_ayer (if observed):										
Type:											
Depth (ir	nches):						Hydric Soil Present?	Yes	No X		
Remarks:											

APPENDIX C

Jurisdictional Determination Request Form and Site Information Summary Sheet



NORFOLK DISTRICT REGULATORY OFFICE PRE-APPLICATION AND/OR JURISDICTIONAL WATERS DETERMINATION REQUEST FORM

This form is used when you want to determine if areas on your property fall under regulatory requirements of the U.S. Army Corps of Engineers (USACE). Please supply the following information and supporting documents described below. This form can be filled out online and/or printed and then mailed, faxed, or e-mailed to the Norfolk District. Submitting this request authorizes the US Army Corps of Engineers to field inspect the property site, if necessary, to help in the determination process. THIS FORM MUST BE SIGNED BY THE PROPERTY OWNER TO BE CONSIDERED A FORMAL REQUEST.

The printed form and supporting documents should be mailed to:

U.S. Army Corps of Engineers, Norfolk District Regulatory Office 803 Front Street Norfolk, Virginia 23510-1096

Or faxed to (757) 201-7678

Or sent via e-mail to: CENAO.REG ROD@usace.army.mil

Additional information on the Regulatory Program is available on our website at:

http://www.nao.usace.army.mil/

Please contact us at 757-201-7652 if you need any assistance with filling out this form.

Location and Information about Property to be subject to a Jurisdictional Determination:

1. Date of Request: 10/21/2020

2. Project Name: TL 254/2201 Clubhouse - Lakeview 230 kV Rebuild

3. City or County where property located: Greensville

- 4. Address of property and directions (attach a map of the property location and a copy of the property plat): Please refer to Preliminary JD request cover letter for the project description and directions. Location and vicinity maps are also included in the submittal package.
- 5. Coordinates of property (if known): Start: 36.718542 -77.585233 End: 36.545257 -77.646638
- 6. Size of property in acres: 378.5
- 7. Tax Parcel Number / GPIN (if available):
- 8. Name of Nearest Waterway: Meherrin Rvr., Fountains Ck., Cattail Ck., Massie Brnch., Collier Brnch.

/.	Jurisdictional Waters Determination Request: Environmental constraints analysis for transmission line rebuild.
8.	Has a wetland delineation/determination been completed by a consultant or the Corps on the property previously? YES NO UNKNOWN
	If yes, please provide the name of the consultant and/or Corps staff and Corps permit number, if available:

Property Owner Contact Information:

Property Owner Name: Mailing Address: City: State: Zip:

Dominion Energy c/o Mark Allen 10900 Nuckols Road, 4th Floor Glen Allen, Virginia 23060

Daytime Telephone: (804) 257-4711

E-mail Address: Mark.Allen@dominionenergy.com

If the person requesting the Jurisdictional Determination is **NOT** the Property Owner, please also supply the Requestor's contact information here:

Requestor Name: Rachel Studebaker - Dominion Energy Environmental Services

Mailing Address: 120 Tredegar Street

City: State: Zip: Richmond, Virginia 23219

Daytime Telephone: (804) 217-1847

E-mail Address: Rachel.M.Studebaker@dominionenergy.com

Additionally, if you have any of the following information, please include it with your request: wetland delineation map, other relevant maps, drain tile survey, topographic survey, and/or site photographs.

CERTIFICATION: I am hereby requesting a preapplication consultation or jurisdictional waters and/or wetlands determination from the U.S. Army Corps of Engineers, for the property(ies) I have described herein. I agree to allow the duly authorized representatives of the Norfolk District Corps of Engineers and other regulatory or advisory agencies to enter upon the premises of the project site at reasonable times to evaluate inspect and photograph site conditions. This consent to enter the property is superior to, takes precedence over, and waives any communication to the contrary. For example, if the property is posted as "no trespassing" this consent specifically supercedes and waives that prohibition and grants permission to enter the property despite such posting. I hereby certify that the information contained in the Request for a Jurisdictional permination is accurate and complete:

Requestor's Signature

Wetland Delineation Report Site Information Summary TL 254/2201 Clubhouse – Lakeview 230 kV Rebuild (378.5) Greensville County, Virginia

Date

October 21, 2020

Latitude/ Longitude in Decimal Degrees using coordinate plane (NAD 1983)

Start: 36.718542 -77.585233 End: 36.545257 -77.646638

Has a previous delineation or JD been performed? If so please provide USACE Project Number:

Unknown

Hydrologic Unit Code (HUC)

03010204-Meherrin; 0301020406-Meherrin River-Reedy Creek; 030102040603-Meherrin River-Douglas Run

03010204-Meherrin; 0301020407-Fountains Creek; 030102040703-Fountains Creek-Cattail Creek

03010204-Meherrin; 0301020407-Fountains Creek; 030102040704-Beaverpond Creek

USGS Topographic Sheet

Emporia, Virginia (2019) Skippers, Virginia (2019) Barley, Virginia (2019)

Nearest Waterbody

The project area is within the Meherrin River, Fountains Creek, Cattail Creek, Massie Branch, and Collier Branch drainage basins.

Delineation Methods

U.S. Army Corps of Engineers 1987 Wetland Delineation Manual in conjunction with the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (version 2.0) and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0) were used to complete this delineation. The 2018 National Wetland Plant List was also used to conduct this delineation.

On-Site Investigation Date

Wetland delineation was conducted June to September 2020.

Wetland Delineation Plan

The proposed wetland boundaries and Data Sampling Point locations are depicted on the plans entitled "Wetland Delineation Map" prepared by C2 Environmental, Inc. (C2 Env) on October 21, 2020.

Wetland Investigation Results

Wetlands: A total of approximately 77.5 acres of wetlands were identified by C2 Env within the project area. This includes 42.0 acres of palustrine emergent (PEM) wetlands, 4.5 acres of palustrine scrub-shrub wetlands (PSS), and 31.0 acres of palustrine forested (PFO) wetlands. A total of 11,004 linear feet (4.2 acres) of stream channel was identified within the project area. This includes 3,847 linear feet (0.5 acres) of intermittent (R4) stream channel, 5,412 linear feet (1.1 acres) of upper perennial (R3) stream channel, and 1,745 linear feet (2.6 acres) of lower perennial (R2) stream channel. A total 72 linear feet (244 square feet) of jurisdictional ditch was identified within the project area. A total of 0.8 acres of palustrine unconsolidated bottom (PUB) was identified within the project area. Representative wetland data points include data points 4-B, 5-A, 7-A, 7-C, 9-A, 12-C, 13-A, 15-B, 16-C, 17-A, 19-B, 20-A, 21-A, 22-A, 23-A, 25-A, 28-A, and 30-A.

Water bodies onsite identified as Section 10: N/A

Uplands: A total of approximately 296.0 acres of uplands were identified during this investigation. The majority of uplands consisted of existing transmission line right of way, agricultural land, and a forested community type. Representative upland data points include data points 4-A, 5-B, 5-C, 6-A, 6-B, 7-B, 7-D, 8-A, 9-B, 10-A, 11-A, 11-B, 12-A, 12-B, 13-B, 13-C, 14-A, 14-B, 15-A, 16-A, 16-B, 17-B, 18-A, 18-B, 19-A, 20-B, 21-B, 21-C, 22-B, 22-C, 23-B, 23-C, 24-A, 25-B, 26-A, 27-A, 28-B, 29-A, 29-B, and 30-B.

100-Year Floodplains

As depicted on the Federal Emergency Management Agency's (FEMA) on-line Flood Insurance Rate Maps #51081C0154C, 51081C0175C, 51081C0300C, and 51081C0275C, effective July 7, 2009, portions of the project fall within Zone A of the 100-year floodplain.

National Wetlands Inventory

The online NWI wetlands mapper indicates the presence of freshwater forested/shrub wetlands, freshwater emergent wetlands, intermittent streams, unknown perennial streams, a lower perennial stream, and a lake within the project area.

USDA Soil Survey

The NRCS Web Soil Survey for the County of Greensville County, Virginia indicates the site is primarily underlain by Craven clay loam, Emporia loamy fine sand, Fluvanna clay loam, Fluvanna-Mattaponi complex, Mattaponi sandy loam, Roanoke loam, Uchee loamy sand, and Woodington fine sandy loam. Of these Roanoke loam and Woodington fine sandy loam are classified as predominantly hydric in Greensville County, Virginia.

Waters Table:

The ORM Aquatic Resources Spreadsheet can be provided upon request following the onsite confirmation meeting with the Corps.

APPENDIX D

Existing Condition Photographs

EXISTING CONDITION PHOTOGRAPHS





LOCATION: Greensville County, Virginia

Start: 36.718542°, -77.585233° End: 36.545257°, -77.646638°

APPLICANT: Dominion Energy Virginia

DATE TAKEN: June-September, 2020

C2 ENV JOB: 0115

CREDIT Scott Kupiec, C2 Environmental Inc.

PHOTO 1POrientation:

Northeast



Description: A representative view of a wetland at Line A.

PHOTO 2P
Orientation:
Southwest



Description: A representative view of a wetland at Line D.

PHOTO 3POrientation:
Southwest



Description: A representative view of an upland at Data Point 6-A.

PHOTO 4P
Orientation:
Southwest



Description: A representative view of a wetland at Line I.

PHOTO 5POrientation:
Southwest



Description: A representative view of open water within a wetland near Structure 254/19.

PHOTO 6P
Orientation:
Southwest



Description: A representative view of an upland near Structure 254/24.

PHOTO 7POrientation:
Northeast



Description: A representative view of a wetland at Line Q.

PHOTO 8P
Orientation:
Northeast



Description: A representative view of an upland at Data Point 11-B.

PHOTO 9POrientation:
Southwest



Description: A representative view of a lower perennial stream at Line W.

PHOTO 10P
Orientation:
Northeast



Description: A representative view of an upland at Data Point 13-C.

PHOTO 11POrientation:
Southwest



Description: A representative view of a wetland at Line AG.

PHOTO 12P
Orientation:
Southwest



Description: A representative view of an upland adjacent to Brink Road.

PHOTO 13POrientation:
Southwest



Description: A representative view of a pond at Structure 254/50.

PHOTO 14P
Orientation:
Northeast



Description: A representative view of an agricultural field near Structure 254/54.

PHOTO 15POrientation:
Southwest



Description: A representative view of an upland at Data Point 18-A.

PHOTO 16P
Orientation:
West



Description: A representative view of a stream/wetland complex at Line AX.

PHOTO 17POrientation:
Northeast



Description: A representative view of an upland at Data Point 19-A.

PHOTO 18P
Orientation:
Northwest



Description: A representative view of a wetland at Line BB.

PHOTO 19POrientation:
Northeast



Description: A representative view of an existing road at Line BB.

PHOTO 20P
Orientation:
West



Description: A representative view of a wetland at Line BJ.

PHOTO 21POrientation:
Southwest



Description: A representative view of a stream/wetland complex at Line BP.

PHOTO 22P
Orientation:
Southwest



Description: A representative view of a fallow agricultural field at Structure 254/85.

PHOTO 23POrientation:
West



Description: A representative view of a wetland at Line BV.

PHOTO 24P
Orientation:
West



Description: A representative view of a stream/wetland complex at Line BY.

PHOTO 25POrientation:
Northeast



Description: A representative view of an agricultural field at Data Point 27-A.

PHOTO 26P
Orientation:
Northeast



Description: A representative view of an upland at Data Point 28-B.

PHOTO 27POrientation:
Southwest



Description: A representative view of an upland at Data Point 29-B.

PHOTO 28P
Orientation:
Northeast



Description: A representative view of and agricultural field near Structure 254/108.

PHOTO 29POrientation:
South



Description: A representative view of a wetland near Structure 254/112.



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

David K. Paylor

Director

(804) 698-4000 1-800-592-5482

Matthew J. Strickler Secretary of Natural Resources

October 5, 2020

Rachel Studebaker Dominion Energy Services 120 Tredegar Street, Richmond, VA 23219

RE: Dominion Energy Virginia's Proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Greensville County, Virginia

Dear Ms. Studebaker;

In accordance with the Department of Environmental Quality-State Corporation Commission *Memorandum of Agreement Regarding Wetland Impact Consultation* (July 2003), we have reviewed the information submitted by Dominion Energy Services (here after, Dominion) regarding potential wetland impacts on the above referenced project. Dominion Energy Virginia is proposing the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project which would rebuild existing overhead transmission lines located in Greensville County, Virginia. The approximate 12.5-mile Rebuild Project is located entirely within existing transmission line right-of-way or on Company-owned property and no additional right-of-way is necessary. The Rebuild Project will replace aging infrastructure that is at the end of its service life, thereby continuing to enable the Company to maintain safe and reliable electric transmission service to its customers.

Summary of Findings

C2 Environmental delineated wetlands and other waters of the United States using the Routine Determination Method as outlined in the 1987 Corps of Engineers Wetland Delineation Manual and methods described in the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). The limits of these features are provided below in Table 1. The limits of wetlands of other waters of the United States will be submitted to the U.S. Army Corps of Engineers for confirmation.

Table 1	Jurisdictional	Features	Identified	within	the ROW
Table 1.	Julisulcuoliai	1 Catules	Identified	WILLIII	

PFO (Acres)	PSS (Acres)	PEM (Acres)	Open Waters (Acres)	Stream Channels (R2) Acres (LF)	Stream Channels (R3) Acres (LF)	Stream Channels (R4) Acres (LF)	Jurisdictional Ditch Acres (LF)
6.3	1.8	39.0	0.5	1.0 (243)	0.6 (3,071)	0.3 (1,919)	0.003 (21)

According to Dominion, impacts will occur from new foundations as the structures are being replaced due to end of life criteria. DEQ recommends structures should be sited to avoid wetlands to the extent practicable and should be sited outside of stream channels. DEQ further recommends wetland and stream avoidance and minimization efforts, where practical, during project construction by: (1) spanning wetlands and streams, (2) maintaining 100-foot buffers along either side of streams, (3) placing support structure foundations outside of wetlands and streambeds, and (4) using removable mats in wetland areas to reduce compaction and rutting.

The DEQ Piedmont Regional Office (PRO) will make the final permitting decisions.

Recommendations and Potential Permits

DEQ offers the following recommendations:

- 1. Wetland and stream impacts should be avoided and minimized to the maximum extent practicable.
- 2. If the scope of the project changes, additional review will be necessary by one or more offices in the Commonwealth's Secretariat of Natural Resources and/or the Corps.
- 3. At a minimum, any required compensation for impacts to State Waters, including the compensation for permanent conversion of forested wetlands to emergent wetlands, should be in accordance with all applicable state regulations and laws. Consider mitigating impacts to forested or converted wetlands by establishing new forested wetlands within the impacted watershed.
- 4. Any temporary impacts to surface waters associated with this project should be restored to pre-existing conditions.
- 5. No activity may substantially disrupt the movement of aquatic life indigenous to the water body, including those species, which normally migrate through the area, unless the primary purpose of the activity is to impound water. Culverts placed in streams must be installed to maintain low flow conditions. No activity may cause more than minimal adverse effect on navigation. Furthermore the activity must not impede the passage of normal or expected high flows and the structure or discharge must withstand expected high flows.
- 6. Erosion and sedimentation controls should be designed in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992. These controls should be placed prior to clearing and grading and maintained in good working order to minimize

impacts to state waters. These controls should remain in place until the area is stabilized and should then be removed. Any exposed slopes and streambanks should be stabilized immediately upon completion of work in each permitted area. All denuded areas should be properly stabilized in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.

- 7. No machinery may enter surface waters, unless authorized by a Virginia Water Protection (VWP) individual permit, general permit, or general permit coverage.
- 8. Heavy equipment in temporarily impacted surface waters should be placed on mats, geotextile fabric, or other suitable material, to minimize soil disturbance to the maximum extent practicable. Equipment and materials should be removed immediately upon completion of work.
- 9. Activities should be conducted in accordance with any Time-of-Year restriction(s) as recommended by the Department of Game and Inland Fisheries, the Department of Conservation and Recreation, or the Virginia Marine Resources Commission. The permittee should retain a copy of the agency correspondence concerning the Time-of-Year restriction(s), or the lack thereof, for the duration of the construction phase of the project.
- 10. All construction, construction access, and demolition activities associated with this project should be accomplished in a manner that minimizes construction materials or waste materials from entering surface waters, unless authorized by a Virginia Water Protection (VWP) individual permit, general permit, or general permit coverage. Wet, excess, or waste concrete should be prohibited from entering surface waters.
- 11. Herbicides used in or around any surface water should be approved for aquatic use by the United States Environmental Protection Agency (EPA) or the U.S. Fish & Wildlife Service. These herbicides should be applied according to label directions by a licensed herbicide applicator. A non-petroleum based surfactant should be used in or around any surface waters.

Permits:

Based on DEQ's review of the additional information provided in an email dated October 5, 2020, the proposed project <u>may</u> require a Virginia Water Protection (VWP) individual permit or general permit coverage. The applicant may submit a Joint Permit Application (JPA) in accordance with form instructions for further evaluation and final permit need determination by DEQ.

Should you have any questions, please don't hesitate to contact me at 804-698-4007 or at michelle.henicheck@deq.virginia.gov.

Sincerely,

Midulle Henrick

Michelle Henicheck, PWS Senior Wetland Ecologist Office of Wetlands & Stream Protection Cc: Jaime Bauer Robb, DEQ - PRO
Bettina Sullivan, DEQ - Office of Environmental Review



MEMORANDUM

To: Rachel M. Studebaker, Dominion Energy Virginia **From:** Christine F. Conrad, PhD, C2 Environmental, Inc.

Date: October 5, 2020

Project: Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV

Virginia Rebuild Project

Reference: Solid and Hazardous Waste Review

On behalf of Dominion Energy Virginia (Dominion), C2 Environmental, Inc. (C2Env) has completed online database searches for federal and state threatened and endangered species for the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project . The proposed project includes the rebuild of approximately 12.5 miles of existing 230kV overhead electric transmission line. The project will take place within the existing, cleared transmission line right-of-way (ROW) beginning at the Clubhouse Substation, to the dry Bread Substation, and terminating at Virginia state line, within Greensville County, Virginia.

Publicly available data from the Environmental Protection Agency (EPA) Facility Registry System (FRS) were obtained, which provide information about facilities, sites, or places subject to environmental regulation or of environmental interest. Although this data set includes all sites subject to environmental regulation by the EPA or other state authority, such as sites that fall under air emissions or wastewater programs, the results reported here only include those sites which fall under the EPA's hazardous waste, solid waste, remediation, and underground storage tank programs. These sites include the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/Superfund; Resource Conservation and Recovery Act (RCRA); and brownfield sites. Comparison with the EPA's NEPAssist Tool resulted in identifying four registered RCRA facilities present within 0.5-mile of the project, described in Table 1 below.

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Solid and Hazardous Waste Review

Page **2** of **2**

Table 1. Registered RCRA Facilities within 0.5 mile of the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project

Name	ID	Latitude	Longitude	Distance From
				Project Centerline
				(miles)
Sunoco Service	VAD000759092	36.711111	-77.598056	0.48
Station				
Emporia Machine	VAD023720154	36.711111	-77.598056	0.48
and Welding				
Sadler Chevrolet	VAD023720568	36.711111	-77.598056	0.48
Sunoco Service	VAD000759084	36.711111	-77.598056	0.48
Station				

The Virginia Department of Environmental Quality (DEQ) records were also searched for the presence of solid waste management facilities, Voluntary Remediation Program sites, petroleum releases, and registered tank facilities within 0.5-mile of the proposed project. No solid waste management facilities, Voluntary Remediation Program sites, or petroleum release sites were identified within 0.5 mile of the project area. One registered tank facility was identified within the 0.5-mile search radius of the proposed project and is described in Table 2 below.

Table 2. Registered Tank Facilities within 0.5 mile of the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project

Name	ID	Number and	Latitude	Longitude	Distance From
		Туре			Project Centerline
					(miles)
Edward Lee	4018496	1 Inactive UST	36.68155	-77.60572	0.35

In conclusion, there are four RCRA sites and one registered tank site located within a 0.5-mile radius of the project site. None of the sites are located within the project ROW. No EPA registered CERCLA/Superfund sites or Brownfield sites, no solid waste permits, Virginia Voluntary Remediation Program sites, or petroleum releases are located within 0.5-mile of the project area.



MEMORANDUM

TO: Rachel M. Studebaker, Dominion Energy Virginia FROM: Christine F. Conrad, Ph.D., C2 Environmental, Inc.

DATE: October 5, 2020

PROJECT: Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV

Virginia Rebuild Project

REFERENCE: Threatened and Endangered Species Review

JOB NO: 0115

On behalf of Dominion Energy Virginia (Dominion), C2 Environmental, Inc. (C2Env) has completed online database searches for federal and state threatened and endangered species for the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project. The proposed project includes the rebuild of approximately 12.5 miles of existing 230kV overhead electric transmission line. The project will take place within the existing, cleared transmission line right-of-way (ROW) beginning at the Clubhouse Substation, to the dry Bread Substation, and terminating at Virginia state line, within Greensville County, Virginia. The online database searches included the following:

- U.S. Fish & Wildlife (USFWS) Information, Planning, and Conservation (IPaC)
- USFWS Critical Habitat for Threatened and Endangered Species Mapper
- USFWS Bald Eagle Concentration Area Map
- Center for Conservation Biology (CCB) Eagle Nest Locator for Virginia
- Department of Wildlife Resources (DWR) Virginia Fish and Wildlife Information Service (VAFWIS)
- DWR Northern Long-eared Bat (NLEB) Winter Habitat and Roost Trees Map
- Virginia Department of Conservation and Recreation (DCR) Natural Heritage Data Explorer (NHDE)
- DWR Little Brown Bat (MYLU) and Tri-colored Bat (PESU) Habitat Application

Original database searches were completed on June 3, 2020.

RESULTS

Species identified by the database searches to have a confirmed or potential presence within the project vicinity are discussed below in Table 1.

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Threatened and Endangered Species Review

Page 2 of 4

Table 1. Database Search Results

Species	Status*	Database	Results
Northern long-eared bat (Myotis septentrionalis)	FT, ST	USFWS-IPaC, DWR-NLEB Winter Habitat and Roost Tree Map	No known hibernacula or summer roosts are identified in the vicinity of the project.
Roanoke logperch (Percina rex)	FE, SE	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project.
Alantic pigtoe (Fusconaia masoni)	(P)FT, ST	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project. The project is not within the federal proposed critical habitat for this species.
Yellow lance (Elliptio lanceolata)	FT	USFWS-IPaC	Noted as potentially occurring in the vicinity of the project. The project is not within the proposed critical habitat.
Loggerhead shrike (Lanius ludovicianus)	ST	VAFWIS	Observed within the vicinity of the project.
Green floater (Lasmigona subviridis)	ST	VAFWIS	Observed within the vicinity of the project.
Reclining bulrush (Scirpus flaccidifoliius)	ST	DCR-NHDE	Noted as potentially occurring in the vicinity of the project.
Bald eagle (Haliaeetus leucocephalus)	FP	CCB Eagle Nest Locator; USFWS Eagle Concentration Areas	No bald eagle nests are located within 660 feet of the project area. No bald eagle concentration areas are present within the project vicinity.

^{*}FT: federally threatened, FE: federally endangered, FP: federally protected, ST: state threatened, SE: state endangered, (P) Proposed

CONCLUSIONS

The following conclusions are based upon the proposed scope of work, as described by Dominion. The proposed scope of work assumes construction access will avoid stream crossings where practical or use crane mats to span stream crossings, and erosion and sediment controls will be used as appropriate throughout the project to protect wetlands and water resources. The scope of work assumes the work will occur within the existing, cleared and maintained ROW, although limited clearing may be required within the existing ROW easement and construction access roads.

The project is located within the White Nose Syndrome Zone for the federal and state threatened northern long-eared bat (NLEB). The NLEB has been identified by USFWS and DWR as potentially occurring within the proposed project area. However, DWR records

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Threatened and Endangered Species Review Page **3** of **4**

indicate that no known hibernacula or maternity roost trees occur within the vicinity. The proposed project will occur within an existing maintained ROW and tree removal is expected to be limited to danger trees and select limbing. The project is expected to rely upon the Programmatic Biological Opinion for the Final 4(d) Rule on the NLEB with no required time of year restriction for tree removal.

The federal and state endangered Roanoke logperch has been identified by USFWS as potentially occurring within the vicinity of the project. This species is typically found in small or medium river with warm, clear water. It is found in riffles, runs, and pools with sandy or rocky bottoms and is generally intolerant of heavy siltation. No impacts to this species are expected as no instream work is anticipated in conjunction with the project.

The state and proposed federally threatened Atlantic pigtoe has been identified by USFWS as potentially occurring within the vicinity of the project. This species typically occurs within high quality riverine habitats. It prefers coarse substrates such as sand and gravel following riffles within the stream channel. No impacts to this species are expected as no instream work is anticipated in conjunction with the project.

The federally threatened yellow lance has been identified by USFWS as potentially occurring within the vicinity of the project. This species generally prefers sandy substrates and can be found in main channels of stream channels as well as small stream channels. No impacts to this species are expected as no instream work is anticipated in conjunction with the project.

DWR recorded observations of the state threatened loggerhead shrike within the project vicinity. This species prefers open habitat, such as pastures with scattered shrubs and trees, but can also be found in open, forested habitat. The presence of perches used for hunting are an essential part of their habitat. The project is not expected to adversely affect this species as no additional clearing of right-of-way is required.

DWR recorded observations of the state threatened green floater within the project area. This species prefers smaller streams with sandy or gravel bottoms. It can occur in pools or calm waters, lacking strong currents. It prefers shallow water but is more likely to occur in streams not prone to drying. No impacts to this species are expected as no instream work is anticipated in conjunction with the project.

The state threatened reclining bulrush has been identified by DCR as potentially occurring within the project area. This species occurs in wetlands, particularly in clearings or cut-over forests and along roadsides. Timber mats will be used for access through wetlands to minimize ground disturbance and potential impacts to this species.

Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project Threatened and Endangered Species Review Page **4** of **4**

The CCB Bald Eagle Nest Locator identified no bald eagle nests within 660-feet of the project. The closest identified nest to the project is located approximately 9.14-miles from the project area. The USFWS Bald Eagle Concentration Area Map additionally confirms that the project is not located within a designated Eagle Concentration Area.

The complete results from the database searches are attached for your reference. If you have any questions, please contact me at your earliest convenience.

ATTACHMENTS

USFWS-IPaC Database Search Results

USFWS Critical Habitat for Threatened and Endangered Species Mapper Database Search Results

USFWS Bald Eagle Concentration Area Database Search Results

CCB Bald Eagle Nest Locator for Virginia Database Search Results

VAFWIS-DWR Database Search Results

DWR-NLEB Winter Habitat and Roost Tree Map Database Search Results

DCR - NHDE Database Search Results

DWR-MYLU and PESU Habitat Application Database Search Results

ATTACHMENT

USFWS-IPaC



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Virginia Ecological Services Field Office 6669 Short Lane Gloucester, VA 23061-4410

Phone: (804) 693-6694 Fax: (804) 693-9032 http://www.fws.gov/northeast/virginiafield/



In Reply Refer To: June 03, 2020

Consultation Code: 05E2VA00-2020-SLI-4114

Event Code: 05E2VA00-2020-E-11591

Project Name: TL 254 Clubhouse - Lakeview Rebuild

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

06/03/2020

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane Gloucester, VA 23061-4410 (804) 693-6694

This project's location is within the jurisdiction of multiple offices. Expect additional species list documents from the following office, and expect that the species and critical habitats in each document reflect only those that fall in the office's jurisdiction:

Raleigh Ecological Services Field Office

Post Office Box 33726 Raleigh, NC 27636-3726 (919) 856-4520 Event Code: 05E2VA00-2020-E-11591

Project Summary

Consultation Code: 05E2VA00-2020-SLI-4114

Event Code: 05E2VA00-2020-E-11591

Project Name: TL 254 Clubhouse - Lakeview Rebuild

Project Type: TRANSMISSION LINE

Project Description: Transmission Line

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/36.631844931791434N77.6113605424625W



Counties: Northampton, NC | Greensville, VA

Endangered Species Act Species

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened
Fishes	
NAME	STATUS
Roanoke Logperch <i>Percina rex</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1134	Endangered
Clams	
NAME	STATUS
Atlantic Pigtoe Fusconaia masoni	Proposed

Yellow Lance *Elliptio lanceolata*

Species profile: https://ecos.fws.gov/ecp/species/5164

There is **proposed** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4511

There is **proposed** critical habitat for this species. Your location is outside the critical habitat.

Threatened

Threatened

Attachment 2.F.1
06/03/2020 Event Code: 05E2VA00-2020-E-11591 Page 11 of 40

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Attachment 2.F.1
06/03/2020 Event Code: 05E2VA00-2020-E-11591 Page 12 of 40

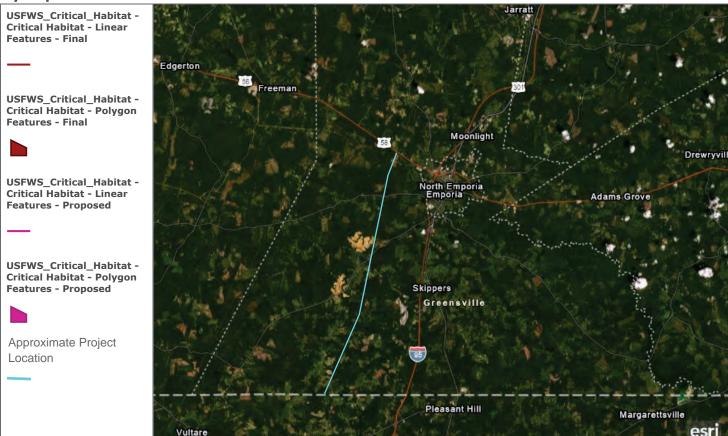
USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

USFWS Critical Habitat for Threatened and Endangered Species

Му Мар



Earthstar Geographics | VITA, Esri, HERE, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA

USFWS Bald Eagle Concentration Area



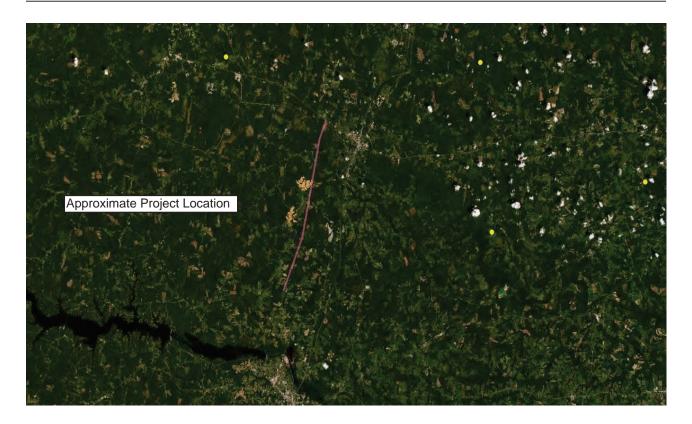
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user

16 mi

CCB Bald Eagle Nest Locator



CCB Mapping Portal



Layers: VA Eagle Nest Locator, VA Eagle Nest Buffers

Map Center [longitude, latitude]: [-77.58785247802734, 36.65409778131013]

Map Link:

 $\frac{\text{https://www.ccbbirds.org/maps/\#layer=VA+Eagle+Nest+Locator\&layer=VA+Eagle+Nest+Buffers\&zoom=12\&lat=36.65409778131013\&lng=-77.58785247802734\&legend=legend_tab_7c321b7e-e523-11e4-aaa0-0e0c41326911\&base=World+Imagery+%28ESRI%29$

Report Generated On: 06/03/2020

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the <u>Data Use Agreement</u> to ensure compliance with our data use policies. For additional data access questions, view our <u>Data Distribution Policy</u>, or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

Report generated by The Center for Conservation Biology Mapping Portal.

To learn more about CCB visit $\underline{ccbbirds.org}$ or contact us at info@ccbbirds.org

DWR - VAFWIS

Attachment 2.F.1 Page 20 of 40

Help

VaFWIS Search Report Compiled on 6/3/2020, 8:39:52 AM

Known or likely to occur within a 2 mile buffer around line beginning 36,35,51.7 -77,37,30.2 in 081 Greensville County, 595 Emporia City, VA

View Map of Site Location

473 Known or Likely Species ordered by Status Concern for Conservation (displaying first 25) (25 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
040228	FESE	Ia	Woodpecker, red- cockaded	Picoides borealis		BOVA
010214	FESE	IIa	Logperch, Roanoke	Percina rex	Potential	BOVA,Habitat,HU6
050022	FTST	Ia	Bat, northern long- eared	Myotis septentrionalis		BOVA
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata		HU6
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA,HU6
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus	Yes	BOVA,BBA,SppObs,HU6
040385	ST	Ia	Sparrow, Bachman's	Peucaea aestivalis		BOVA,HU6
060173	FPST	Ia	Pigtoe, Atlantic	Fusconaia masoni	Potential	BOVA,Habitat,HU6
020002	ST	IIa	Treefrog, barking	Hyla gratiosa		BOVA
060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes	BOVA, TEW aters, Habitat, HU6
010070	ST	IIc	Shiner, whitemouth	Notropis alborus		HU6
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata	Yes	BOVA,SppObs,HU6
010174		Ia	Bass, Roanoke	Ambloplites cavifrons	Yes	BOVA,Habitat,SppObs,HU6
020063		IIa	Toad, oak	Anaxyrus quercicus	<u>Potential</u>	BOVA,Habitat,HU6
040052		IIa	Duck, American black	Anas rubripes	Potential	BOVA,BBA,HU6
040036		IIa	Night-heron, yellow- crowned	Nyctanassa violacea violacea		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA,HU6
040140		IIa	Woodcock, American	Scolopax minor	Potential	BOVA,BBA,HU6
060071		IIa	Lampmussel, yellow	Lampsilis cariosa		BOVA,HU6
040105		IIb	Rail, king	Rallus elegans		BOVA

Attachment 2.F.1

060175	IIb	Slabshell, Roanoke	Elliptio roanokensis	<u>Potential</u>	BOVA, Habitat, Hobb	
040304	IIc	Warbler, Swainson's	Limnothlypis swainsonii		HU6	

To view **All 473 species** View 473

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier II - Critical Conservation Need; III=VA Wildlife Action Plan - Tier III - Very High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need Virginia Wildlife Action Plan Conservation Opportunity Ranking:

- a On the ground management strategies/actions exist and can be feasibly implemented.;
- b On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
- c No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

View Map of All Query Results from All Observation Tables

Bat Colonies or Hibernacula: Not Known

Anadromous Fish Use Streams (2 records)

<u>View Map of All</u> <u>Anadromous Fish Use Streams</u>

C4 ID	G. N	D 1 . S4 . 4		Anadromous Fish Species				
Stream ID	Stream Name	Reach Status	Different Species	Highest TE*	Highest Tier**	View Map		
C23	Fountains Creek	Confirmed	3		IV	Yes		
C50	Meherrin River	Confirmed	5		IV	Yes		

Impediments to Fish Passage (5 records)

ID	Name	River	View Map
194	EMPORIA DAM	MEHERRIN RIVER	Yes
199	GARNERS DAM	BEAVER POND CREEK	Yes
201	MITCHELLS DAM	FONTAINE CREEK	Yes
202	ROBINSON DAM	COLLIER BRANCH	Yes
200	SMITHS DAM	CATTAIL CREEK	Yes

View Map of All Fish Impediments

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (14 Reaches)

View Map of All Threatened and Endangered Waters

		T&E Waters Species	
Stream Name	Highest		View Map
	TE*	BOVA Code, Status*, Tier**, Common & Scientific Name	
	1		

wis seach Report						_	
Meherrin River (0272518	ST	060081	ST	IIa	Floater, green	Attachment 2.F Lasmigona Page 22 of subviridis	
Meherrin River (0273247	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0275907)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0278943)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0284087)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0284143)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0285714)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0286073	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0288046)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0290744)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0290826)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0292409	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0298067)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
Meherrin River (0300607	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests (1 records)

View Map of All Query Results
Bald Eagle Nests

Nest	N Obs	Latest Date	DGIF Nest Status	View Map	
GV1001	1	Mar 24 2010	UNKNOWN	Yes	

Displayed 1 Bald Eagle Nests

Species Observations

(94 records - displaying first 20, 3 Observations with Threatened or Endangered species) View Map of All Query Results Species Observations

		_			N Species		
obsID	class	Date Observed	Observer	Different Species	Highest TE*	Highest Tier**	View Map
322076	SppObs	Jun 15 2009	John and Thelma Dalmas (VSO)	1	ST	I	Yes
3490	SppObs	Jun 2 1989	Div of Natural Heritage	1	ST	I	Yes
364052	SppObs	Jan 1 1900		2	CC	III	Yes
8264	SppObs	Jan 1 1900	MITCHELL NORMAN	1		I	Yes
318801	SppObs	Apr 22 2007	John Alderman	7		III	Yes
311327	SppObs	Jun 17 2005	aul Angermeier (Principle Permittee) 2 Anita Lahey 35			III	Yes
<u>375326</u>	Aquatics	Nov 10 2004	B. T. Watson, S. L. Huffer	12		III	Yes
11671	SppObs	Sep 20 1990	ANGERMEIER ET AL	23		III	Yes
2444	SppObs	Aug 1 1990	Blaine D. Snyder	13		III	Yes
2442	SppObs	May 8 1990	Blaine D. Snyder	4		III	Yes
322282	SppObs	Jul 22 1985	M. Norman; R. Southwick; J. St. Martin	14		III	Yes
11315	SppObs	Jul 22 1985	NORMAN	19		III	Yes
11317	SppObs		NORMAN	11		III	Yes
10371	SppObs	May 23 1984	Norman	15		III	Yes
338015	SppObs	Jan 1 1984	MDN-B-NORMAN	15		III	Yes
<u>337894</u>	SppObs	Jan 1 1984	SPM-B-MCINICH	3		III	Yes
337560	SppObs	Jan 1 1983	REJ-B-JENKINS	7		III	Yes
		Aug 15					

				Attachment 2.F.1				
15465	SppObs	1979	H J PETRIMOULX	7		Page []] of 40	<u>Yes</u>	
		1717						ı
336724	SppObs	Jan 1 1979	HJP-B-PETRIMOULX	7		III	Yes	
334597	SppObs	Jan 1 1973	WE-WOODWARD ENVICON	5		III	Yes	

Displayed 20 Species Observations

Selected 94 Observations View all 94 Species Observations

Habitat Predicted for Aquatic WAP Tier I & II Species (2 Reaches)

View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species

	Tier Species						
Stream Name	Highest TE*	BOVA	Code, S	tatus*	, Tier ^{**} , Common	& Scientific Name	View Map
Maclins Creek	FESE	010214	FESE	IIa	Logperch, Roanoke	Percina rex	Yes
(03010201)		060173	FPST	Ia	Pigtoe, Atlantic	Fusconaia masoni	168
	ST	010174		Ia	Bass, Roanoke	Ambloplites cavifrons	
Meherrin River (03010204)		060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
		060175		IIb	Slabshell, Roanoke	Elliptio roanokensis	
		010174		Ia	Bass, Roanoke	Ambloplites cavifrons	
Meherrin River (03010204)	ST	060081	ST	IIa	Floater, green	Lasmigona subviridis	Yes
		060175		IIb	Slabshell, Roanoke	Elliptio roanokensis	

Habitat Predicted for Terrestrial WAP Tier I & II Species

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
020063		IIa	Toad, oak	Anaxyrus quercicus	Yes

Virginia Breeding Bird Atlas Blocks (6 records)

<u>View Map of All Query Results</u> <u>Virginia Breeding Bird Atlas Blocks</u>

BBA ID	Ad. O. Janes I. Di. J. N.		Breeding Bird Atlas Species				
	Atlas Quadrangle Block Name	Different Species	Highest TE*	Highest Tier**	View Map		
49026	Ante, SE	73		II	Yes		
49014	Barley, CE	61	ST	I	Yes		

				Attachment 2.F.1
49012	Barley, NE	25	III	YesPage 25 of 40
50024	Emporia, CE	32	IV	Yes
50013	Skippers, CW	55	III	Yes
50011	Skippers, NW	68	II	Yes

Public Holdings:

N/A

Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:

FIPS Code	City and County Name	Different Species	Highest TE	Highest Tier
081	<u>Greensville</u>	376	FESE	I
595	Emporia City	308	FESE	I

USGS 7.5' Quadrangles:

Barley

Ante

Skippers

Emporia

USGS NRCS Watersheds in Virginia:

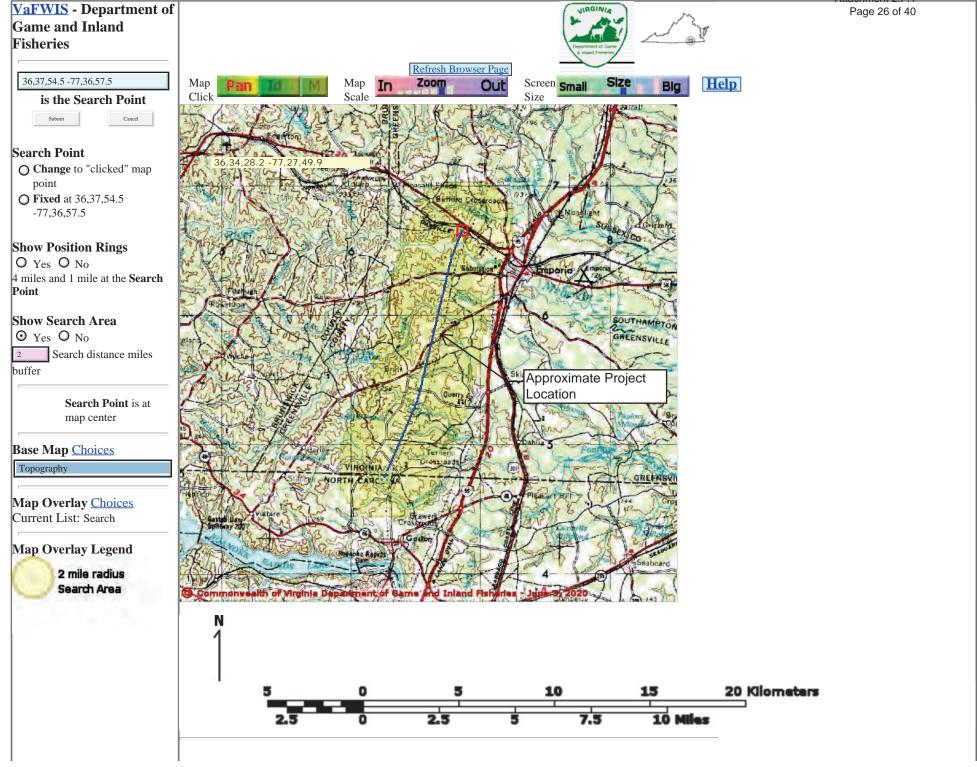
N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
CM19	Meherrin River-Douglas Run	65	FTSE	I
CM20	Meherrin River-Falling Run	67	FTSE	I
CM24	Fontaine Creek-Cattail Creek	60	SE	I
CM25	Beaverpond Creek	55	SE	I
CM27	Fontaine Creek-Mill Swamp	58	SE	I
CU38	Maclins Creek	54	FESE	I

 $Compiled \ on \ 6/3/2020, \ 8:39:52 \ AM \ \ I1036115.0 \quad report=all \quad search Type=L \quad dist=3218 \ poi=36,35,51.7 \ -77,37,30.2 \ siteDD=36.5452916 \ -77.6466082; 36.5991972 \ -77.6196360; 36.6999694 \ -77.5941804; 36.7183500 \ -77.5853304$

 $PixelSize=64; Anadromous=0.066451; BBA=0.172125; BECAR=0.034675; Bats=0.035859; Buffer=0.672206; County=0.149522; HU6=0.306746; Impediments=0.04891; Init=0.744198; PublicLands=0.076031; Quad=0.249184; SppObs=0.552846; TEWaters=0.104496; TierReaches=0.202315; TierTerrestrial=0.596031; Total=3.836674; Tracking_BOVA=0.183149; Trout=0.099933; huva=0.200812$



VaFWIS Map

Select Coordinate System: O Degrees, Minutes, Seconds Latitude - Longitude

O Decimal Degrees Latitude - Longitude

O Meters UTM NAD83 East North Zone

O Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft terraserver-usa.com for details)

Map projection is UTM Zone 18 NAD 1983 with left 246900 and top 4076418. Pixel size is 43.. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as

Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles.

Topographic maps and Black and white aerial photography for year 1990+-

are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic

Information Network.

Shaded topographic maps are from TOPO! ©2006 National Geographic

http://www.national.geographic.com/topo

All other map products are from the Commonwealth of Virginia Department of Game and Inland

Fisheries.

map assembled 2020-06-03 08:34:17 (qa/qc March 21, 2016 12:20 - tn=1036115 dist=32181)

| \$poi=36.5977000 -77.6250600

<u>DGIF</u> | <u>Credits</u> | <u>Disclaimer</u> | Contact vafwis support@dgif.virginia.gov | Please view our privacy policy © 1998-2020 Commonwealth of Virginia Department of Game and Inland Fisheries

VaFWIS Map

https://vafwis.ggif.virginia.gov/...944+-77.6250556&por=&ret=1&s=16&s=archType=L&shift=0&f=2&shift=0

Predicted Habitat WAP Tier I & II Aquatic Terrestrial Position Rings 4 miles and 1 mile at the Search Point 2 mile radius Search Area Point of Search 36,35,51.7 -77,37,30.2 Map Location 36,37,54.5 -77,36,57.5 Select Coordinate System: O Degrees, Minutes, Seconds Latitude - Longitude O Decimal Degrees Latitude - Longitude O Meters UTM NAD83 East North Zone O Meters UTM NAD27 East North Zone Base Map source: USGS 1:250,000 topographic maps (see Microsoft terraserver-usa.com for details) Map projection is UTM Zone 18 NAD 1983 with left 246900 and top 4076418. Pixel size is 43... Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles. Topographic maps and Black and white aerial photography for year 1990+are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic http://www.national.geographic.com/topo All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries. map assembled 2020-06-03 09:06:10 (qa/qc March 21, 2016 12:20 - tn=1036115.1 dist=3218 I) \$poi=36.5976944 -77.6250556

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VaFWIS Map

VaFWIS Map

Attachment 2.F.1 Page 31 of 40

Select Coordinate System: O Degrees, Minutes, Seconds Latitude - Longitude

Map Location 36,37,54.5 -77,36,57.5

O Decimal Degrees Latitude - Longitude

O Meters UTM NAD83 East North Zone

O Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft terraserver-usa.com for details)

Map projection is UTM Zone 18 NAD 1983 with left 246900 and top 4076418. Pixel size is 43.. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 38400 meters east to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles.

Topographic maps and Black and white aerial photography for year 1990+-

are from the United States Department of the Interior, United States Geological Survey.

| Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

Shaded topographic maps are from TOPO! @2006 National Geographic

http://www.national.geographic.com/topo

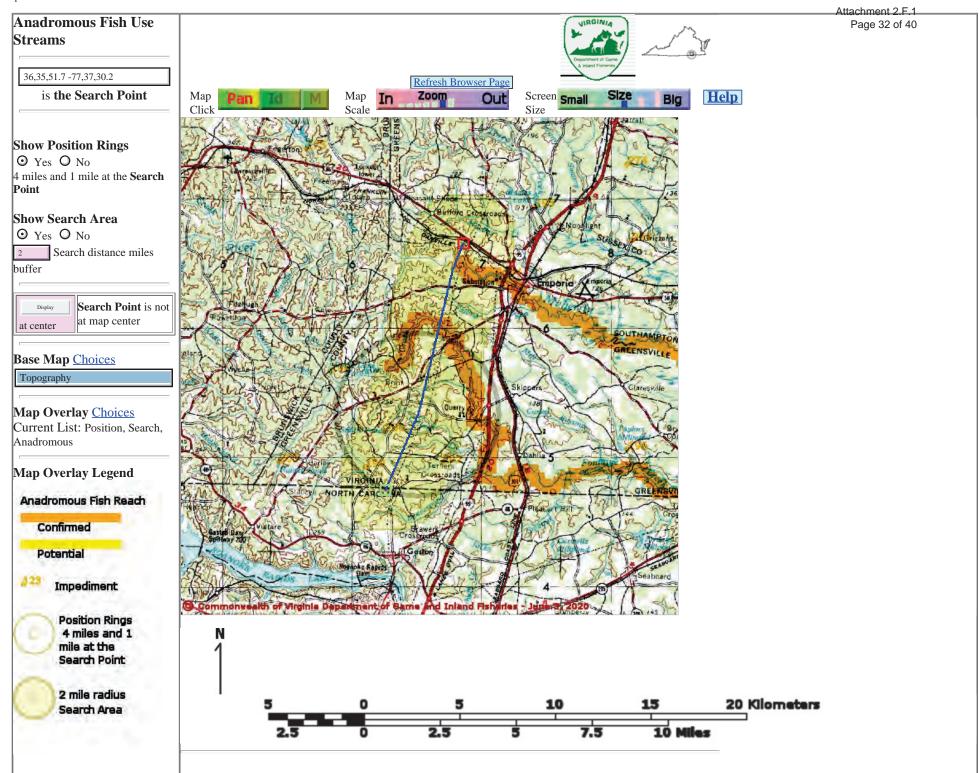
All other map products are from the Commonwealth of Virginia Department of Game and Inland

| Fisheries.

map assembled 2020-06-03 08:45:45 (qa/qc March 21, 2016 12:20 - m=1036115.1 dist=3218 I)

| \$poi=36.5976944 -77.6250556

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Attachment 2.F.1 Page 33 of 40

Point of Search 36,35,51.7 -77,37,30.2 Map Location 36,37,54.5 -77,36,57.5 Select Coordinate System: O Degrees, Minutes, Seconds Latitude - Longitude

O Decimal Degrees Latitude - Longitude

O Meters UTM NAD83 East North Zone

O Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see Microsoft terraserver-usa.com for details)

Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixles. The map display represents 38400 meters east represents 126005 feet east to west by 126005 feet north to south for a total of 569.5 square miles. Map projection is UTM Zone 18 NAD 1983 with left 246900 and top 4076418. Pixel size is 43. to west by 38400 meters north to south for a total of 1474.5 square kilometers. The map display

Topographic maps and Black and white aerial photography for year 1990+-

are from the United States Department of the Interior, United States Geological Survey.

Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

Shaded topographic maps are from TOPO! ©2006 National Geographic

http://www.national.geographic.com/topo

All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

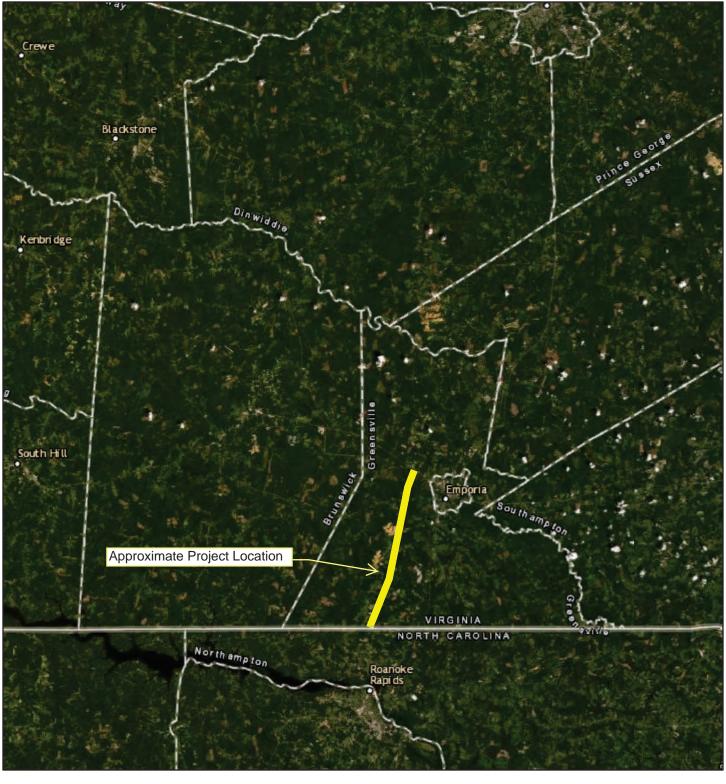
dist=3218 I) (qa/qc March 21, 2016 12:20 - tn=1036115.0 map assembled 2020-06-03 08:54:44

\$poi=36.5976944 -77.6250556

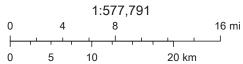
DGIF | Credits | Disclaimer | Contact vafwis support@dgif.virginia.gov | Please view our privacy policy © 1998-2020 Commonwealth of Virginia Department of Game and Inland Fisheries

DWR-NLEB Winter Habitat and Roost Tree Map

NLEB Locations and Roost Trees



6/2/2020, 3:31:32 PM



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

DCR-NHDE

Natural Heritage Resources

Your Criteria

Taxonomic Group: Select All

Federal Legal Status: Select All

State Legal Status: Select All

Watershed (8 digit HUC): 03010204 - Meherrin River

Subwatershed (12 digit HUC): CM20 - Meherrin River-Falling Run

Search Run: 6/3/2020 9:27:04 AM Result Summary

Total Species returned: 1

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

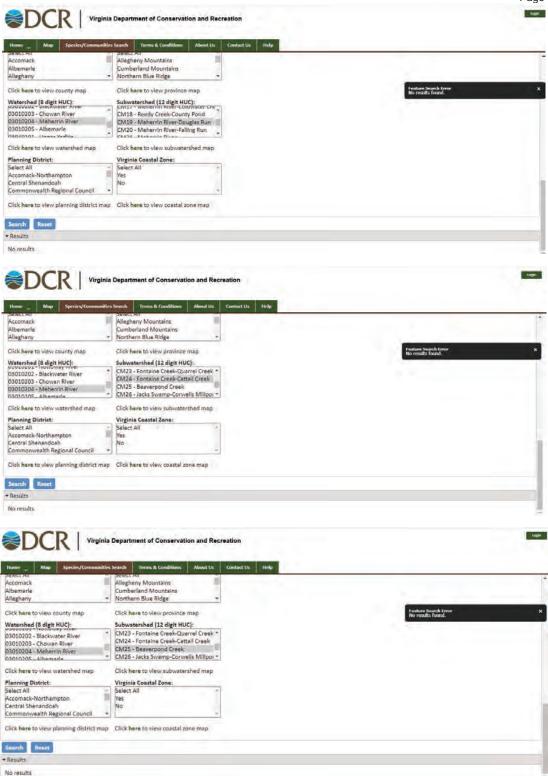
Click column headings for an explanation of species and community ranks.

Common	Scientific Name	Scientific Name	Global Conservation	State Conservation	Federal Legal Status	State Legal Status	Statewide	Virginia Coastal
Name/Natural		Linked	Status Rank	Status Rank			Occurrences	Zone
Community								
Meherrin								
Meherrin River-Falling Run	g Run							
VASCULAR PLANTS	•							
Reclining Bulrush	Reclining Bulrush Scirpus flaccidifolius Scirpus flaccidifolius	Scirpus flaccidifolius	G2	S1S2	SOC	디	9	z

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

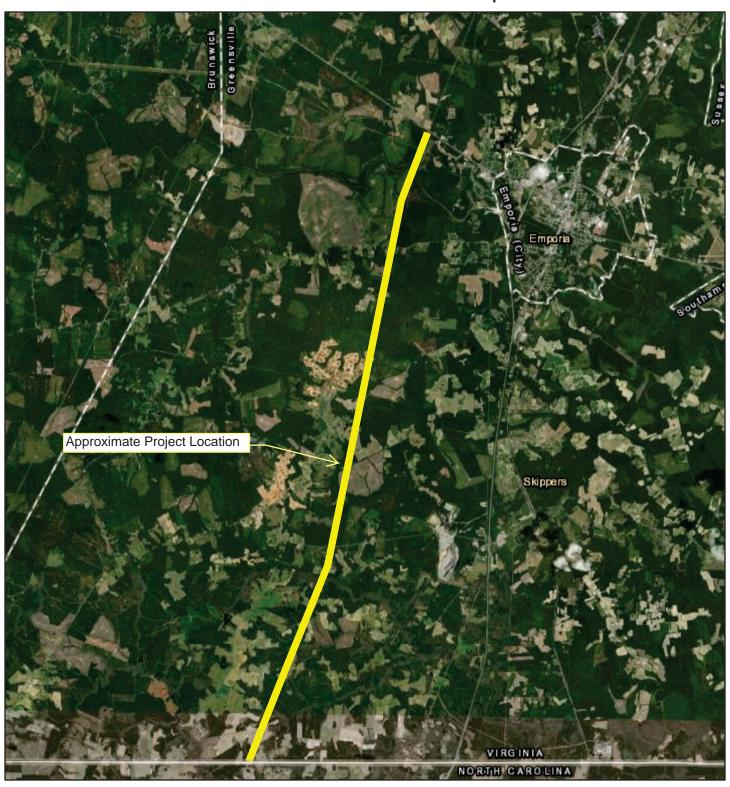
For Additional Information on locations of Natural Heritage Resources please submit an information request.

To Contribute information on locations of natural heritage resources, please fill out and submit a rare species sighting form.

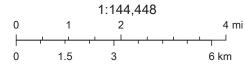


DWR-MYLU and PESU Habitat Application

MYLU PESU Habitat Map



6/3/2020, 8:22:15 AM



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rachel M Studebaker	(Services - 6)
From: Sent: To: Subject:	Rhur, Roberta <robbie.rhur@dcr.virginia.gov> Thursday, October 8, 2020 11:06 AM Rachel M Studebaker (Services - 6) [EXTERNAL] Re: Clubhouse to Lakeview 230kV Rebuild Project</robbie.rhur@dcr.virginia.gov>
	ail that was NOT sent from Dominion Energy. Are you expecting this message? Are you ent? DO NOT click links or open attachments until you verify them***
Good Morning;	
	area for resources and have determined that there are no impact to PRR resources. As DCR Division of Natural Heritage for their comments.
Thank you Robbie Rhur	
On Wed, Oct 7, 2020 at 4:11 < Rachel.M.Studebaker@dor	L PM Rachel.M.Studebaker@dominionenergy.com minionenergy.com> wrote:
Ms. Rhur,	
Please see the attached let in Greensville County, Virgi	ter and project map notifying you of the proposed transmission line rebuild project located inia.
Please contact me with any	y questions or for additional information.
Thank you,	
Rachel Studeba	ker
Environmental Special	list II
Dominion Energy Serv	rices
120 Tredegar Street, R	lichmond, VA 23219
Office: (804) 273-4086	

Cell: (804) 217-1847



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--

Robbie Rhur DCR VOP Project Planner and Environmental Review Coordinator 600 East Main Street Richmond VA 23219 804-371-2594

Rachel M Studebaker (Services - 6)

From:	Hypes, Rene' <rene.hypes@dcr.virginia.gov></rene.hypes@dcr.virginia.gov>
Sent: To:	Thursday, October 8, 2020 6:06 AM Rachel M Studebaker (Services - 6)
Cc:	nhreview, rr
Subject:	[EXTERNAL] Re: Clubhouse to Lakeview 230kV Rebuild Project
	t was NOT sent from Dominion Energy. Are you expecting this message? Are you O NOT click links or open attachments until you verify them***
Ms. Studebaker,	
ivis. Studebuker,	
services order form along with the shapefile. Please note, our standa	der for us to initiate the review of this project, we need a completed information e attached project map. It would also be helpful if you could provide an ArcGIS and review time is 30 calendar days starting upon receipt of the completed information o speak to you or your supervisor about our review process.
Please let me know if you have an	y questions.
Sincerely,	
Rene' Hypes	
On Wed, Oct 7, 2020 at 4:14 PM F	Rachel.M.Studebaker@dominionenergy.com
Rachel.M.Studebaker@dominion	
Ms. Hypes,	
Please see the attached letter an in Greensville County, Virginia.	nd project map notifying you of the proposed transmission line rebuild project located
Please contact me with any ques	tions or for additional information.
Thank you,	

Rachel Studebaker

Environmental Specialist II

Dominion Energy Services

120 Tredegar Street, Richmond, VA 23219

Office: (804) 273-4086

Cell: (804) 217-1847



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S. Rene' Hypes

Project Review Coordinator

Department of Conservation and Recreation

Division of Natural Heritage

600 East Main Street, 24th Floor

Richmond, Virginia 23219

804-371-2708 (phone)

804-371-2674 (fax)

rene.hypes@dcr.virginia.gov

http://www.dcr.virginia.gov/natural-heritage

Rachel M Studebaker (Services - 6)

From: Ewing, Amy <amy.ewing@dwr.virginia.gov>

Sent: Thursday, October 8, 2020 1:14 PM **To:** Rachel M Studebaker (Services - 6)

Subject: [EXTERNAL] Re: Clubhouse to Lakeview 230kV Rebuild Project

This is an EXTERNAL email that was NOT sent from Dominion Energy. Are you expecting this message? Are you expecting a link or attachment? DO NOT click links or open attachments until you verify them

Thank you for contacting us about your project. Due to staffing limitations, we are unable to review and provide comments on projects that are not currently involved in one of the regulatory review processes for which we are a formal consulting agency (see https://www.DWR.virginia.gov/environmental-programs/). If your project becomes involved in one of these review processes, we will review the project at that time and provide our comments to the requesting agency. In advance of that, we recommend that you conduct a preliminary desktop analysis to evaluate your project's potential impacts upon the Commonwealth's wildlife resources by accessing our online information system, the Virginia Fish and Wildlife Information Service (VAFWIS) and using the Geographic Search function to generate an Initial Project Assessment (IPA) report.

We recommend the following steps:

A. Access VAFWIS at this link: https://vafwis.DWR.virginia.gov/fwis/
If you are not already a VAFWIS subscriber, you should request to become one by emailing a request to VAFWIS Subscriptions are free of charge. As a subscriber, one is able to generate an IPA for the project area (project site plus a minimum 2-mile buffer) which generates a list of imperiled wildlife and designated wildlife resources known from the project area. You may also access VAFWIS as a visitor, but access to data and mapping at this user level is restricted.

Alternatively, you may contact our Geographic Information Systems (GIS) Coordinator, Jay Kapalczynski, at Jay.Kapalczynski@DWR.virginia.gov to request access to the Wildlife Mapping and Environmental Review Map Service (WERMS) which allows you to download GIS data into your own system.

B. Access information about the location of bat hibernacula and roosts from the following locations:

Northern Long-Eared Bats: https://www.dwr.virginia.gov/wildlife/bats/northern-long-eared-bat-application/

Little Brown Bats and Tricolored Bats: https://www.dwr.virginia.gov/wildlife/bats/little-brown-bat-tri-colored-bat-winter-habitat-roosts-application/

C. Access up to date information about the location and status of bald eagle nests in

Virginia by accessing the Center for Conservation Biology's Eagle Nest Locator at https://ccbbirds.org/what-we-do/research/species-of-concern/virginia-eagles/nest-locator/

- D. Review the DWR information, guidance, and protocols available on our website at the bottom of this page in the "Additional Resources" section and implement, as appropriate.
- E. Include the results of your desktop analysis with your project documents, applications, etc.



Amy Martin Ewing

Environmental Services Biologist Manager, Wildlife Information P 804.367.2211

Department of Wildlife Resources

CONSERVE. CONNECT. PROTECT.

A 7870 Villa Park Drive, P.O. Box 90778, Henrico, VA 23228

www.VirginiaWildlife.gov

On Wed, Oct 7, 2020 at 4:12 PM <u>Rachel.M.Studebaker@dominionenergy.com</u> <Rachel.M.Studebaker@dominionenergy.com> wrote:

Ms. Ewing,

Please see the attached letter and project map notifying you of the proposed transmission line rebuild project located in Greensville County, Virginia.

Please contact me with any questions or for additional information.

Thank you,

Rachel Studebaker

Environmental Specialist II

Dominion Energy Services

120 Tredegar Street, Richmond, VA 23219

Office: (804) 273-4086

Cell: (804) 217-1847



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Matthew J. Strickler Secretary of Natural Resources

Clyde E. Cristman Director



Rochelle Altholz

Attachment 2.F.5 Page 1 of 9

Deputy Director of Administration and Finance

Russell W. Baxter Deputy Director of Dam Safety & Floodplain Management and Soil & Water Conservation

Nathan Burrell Deputy Director of Government and Community Relations

> Thomas L. Smith Deputy Director of **Operations**

November 13, 2020

Christine Conrad C2 Environmental, Inc 11818 Rock Landing Drive Suite 103 Newport News, VA 23606

Re: C2E TL2201/254, Clubhouse - Lakeview 230 KV Rebuild

Dear Ms. Conrad:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in our files, the following conservations are within the project area listed from north (Route 58) to south (North Carolina line): South Meherrin Powerline Conservation Site, Round Hill Church Powerline, Cattail Creek Powerline and Collier Branch Powerline (Figure 1).

Conservation sites are tools for representing key areas of the landscape that warrant further review for possible conservation action because of the natural heritage resources and habitat they support. Conservation sites are polygons built around one or more rare plant, animal, or natural community designed to include the element and, where possible, its associated habitat, and buffer or other adjacent land thought necessary for the element's conservation. Conservation sites are given a biodiversity significance ranking based on the rarity, quality, and number of element occurrences they contain; on a scale of 1-5, 1 being most significant. DCR comments are provided by 1:24,000 quadrangle below.

Emporia Quad

The South Meherrin Powerline Conservation Site (Figure 2) has been given a biodiversity significance ranking of B5, which represents a site of general significance. The natural heritage resource of concern at this site is:

Paspalum dissectum

Walter's paspalum

G4?/S2/NL/NL

Walter's paspalum is a rhizomatous, perennial grass which grows in open, shallow pools, puddles, and exposed mud, interdune swales and ponds, impoundment edges and seasonally exposed sandy or gravelly river shores and bars (Weakley, et al.). During late summer, when water levels are at their lowest, the grass blooms and fruits. The species is currently known from nine locations and historically known from four locations in Virginia's

southeastern wetlands. Walter's paspalum is threatened by habitat loss and competition from non-native invasive species that utilize this habitat type (TNC, 1996).

The Round Hill Church Powerline Conservation Site (Figure 3) has been given a biodiversity significance ranking of B5, which represents a site of general significance. The natural heritage resource of concern at this site is:

Paspalum dissectum

Walter's paspalum

G4?/S2/NL/NL

Skippers Quad

The Cattail Creek Powerline Conservation Site (Figure 4) has been given a biodiversity significance ranking of B5, which represents a site of general significance. The natural heritage resources of concern at this site are:

Hypericum setosum Scleria minor Hairy St. John's-wort Slender Nutrush G4G5/S1S2/NL/NL G4/S2/NL/NL

Barley Quad

The Collier Branch Powerline Conservation Site (Figure 5) has been given a biodiversity significance ranking of B4, which represents a site of moderate significance. The natural heritage resources of concern at this site are:

Ludwigia hirtella	Rafinesque's seedbox	G5/S2/NL/NL
Coreopsis linifolia	Savanna coreopsis	G4Q/S1/NL/NL
Sabatia campanulata	Slender Marsh Pink	G5/S2/NL/NL
Hypericum adpressum	Bog St. John's-wort	G3/S1/NL/NL
Juncus elliottii	Bog Rush	G4G5/S1/NL/NL
Mitreola sessilifolia	Swamp hornpod	G4G5/S1/NL/NL
Eryngium integrifolium	Blue-flower eryngo	G5/S1/NL/NL

All Quads

DCR recommends avoidance of the documented natural heritage resources within the powerline right-of-way during the rebuild of the powerline including but not limited to tower placement, access and staging areas for the project (see attached maps for natural heritage resource locations). DCR also recommends the development and implementation of an invasive species plan to be included as part of the maintenance practices for the right-of-way (ROW). The invasive species plan should include an invasive species inventory for the project area based on the current DCR Invasive Species List (http://www.dcr.virginia.gov/natural-heritage/document/nh-invasive-plant-list-2014.pdf) and methods for treating the invasives. ROW restoration include appropriate revegetation using native species in a mix of grasses and forbs, robust monitoring and adaptive management plan to provide guidance if initial revegetation efforts are unsuccessful or if invasive species outbreaks occur. DCR supports post construction ROW maintenance following the same pre-construction maintenance protocol in maintaining suitable habitat for the documented rare plants.

If tree removal is proposed, the project will fragment Ecological Cores (C1, C3, C4 and C5) as identified in the Virginia Natural Landscape Assessment (https://www.dcr.virginia.gov/natural-heritage/vaconvisvnla), one of a suite of tools in Virginia ConservationVision that identify and prioritize lands for conservation and protection.

Ecological Cores are areas of unfragmented natural cover with at least 100 acres of interior that provide habitat for a wide range of species, from interior-dependent forest species to habitat generalists, as well as species that

utilize marsh, dune, and beach habitats. Cores also provide benefits in terms of open space, recreation, water quality (including drinking water protection and erosion prevention), and air quality (including carbon sequestration and oxygen production), along with the many associated economic benefits of these functions. The cores are ranked from C1 to C5 (C5 being the least ecologically relevant) using many prioritization criteria, such as the proportions of sensitive habitats of natural heritage resources they contain.

Fragmentation occurs when a large, contiguous block of natural cover is dissected by development, and other forms of permanent conversion, into one or more smaller patches. Habitat fragmentation results in biogeographic changes that disrupt species interactions and ecosystem processes, reducing biodiversity and habitat quality due to limited recolonization, increased predation and egg parasitism, and increased invasion by weedy species.

Therefore minimizing fragmentation is a key mitigation measure that will preserve the natural patterns and connectivity of habitats that are key components of biodiversity. The deleterious effects of fragmentation can be reduced by minimizing edge in remaining fragments; by retaining natural corridors that allow movement between fragments; and by designing the intervening landscape to minimize its hostility to native wildlife (natural cover versus lawns). Mapped cores in the project area can be viewed via the Virginia Natural Heritage Data Explorer, available here: http://vanhde.org/content/map.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on statelisted threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

A fee of \$630.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR Finance, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note late payment may result in the suspension of project review service for future projects.

The Virginia Department of Wildlife Resources (VDWR) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not documented in this letter. Their database may be accessed from http://vafwis.org/fwis/ or contact Ernie Aschenbach at 804-367-2733 or <a href="maintenance-erni

Should you have any questions or concerns, feel free to contact me at 804-371-2708. Thank you for the opportunity to comment on this project.

Sincerely,

S. René Hypes

Natural Heritage Project Review Coordinator

Cc: Ernie Aschenbach, VDWR

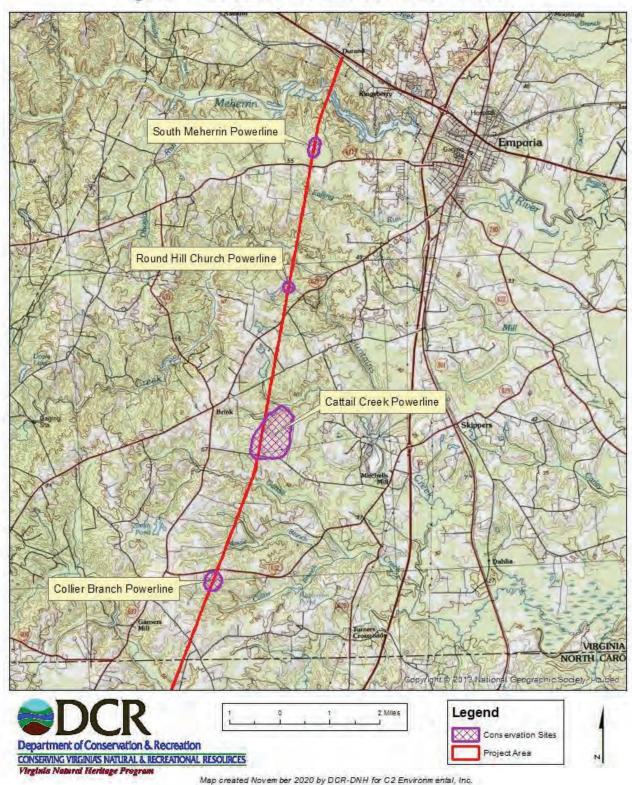
Rem' Hy

Literature Cited

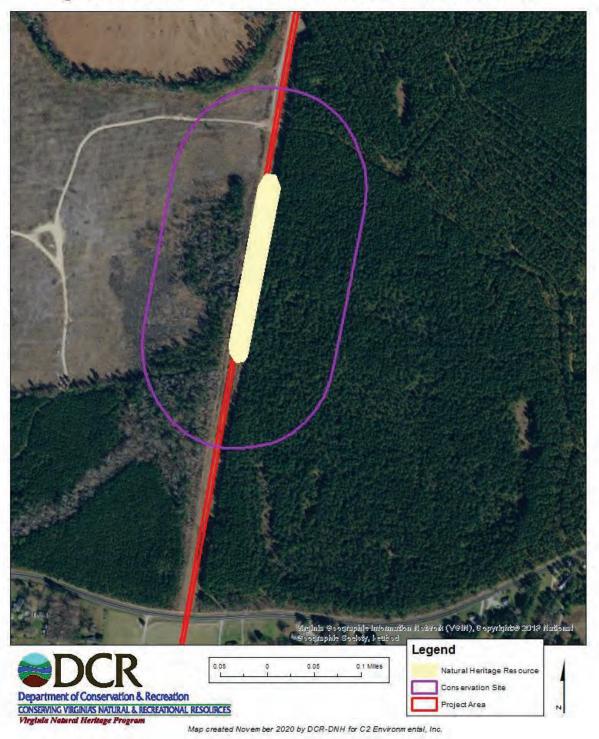
The Nature Conservancy. 1996. Biological and Conservation Data System. Arlington, Virginia, USA.

Weakley, A.S., J.C. Ludwig and J.F. Townsend. 2012. *Flora of Virginia*. Botanical Research Institute of Texas Press, Fort Worth. p. 322.

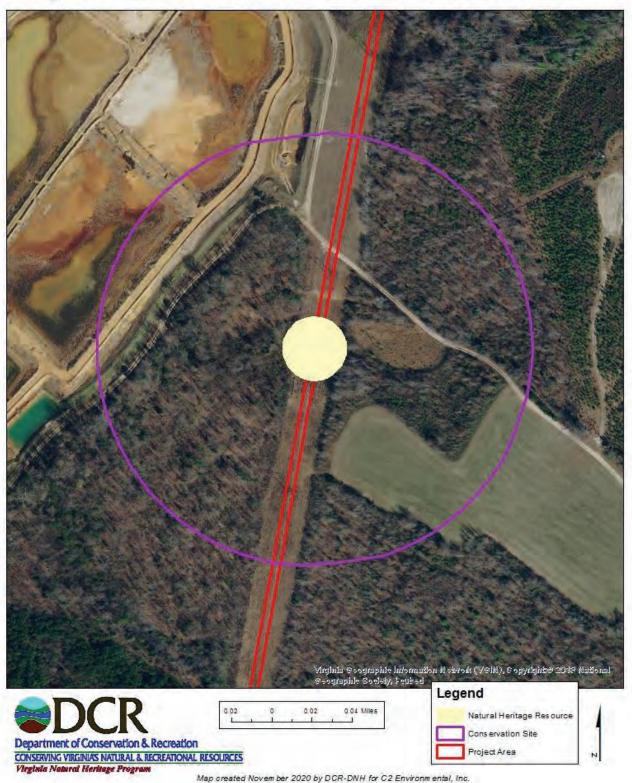
TL2201/254 Clubhouse - Lakeview 230 kV Rebuild Figure 1. Location of Conservation Sites



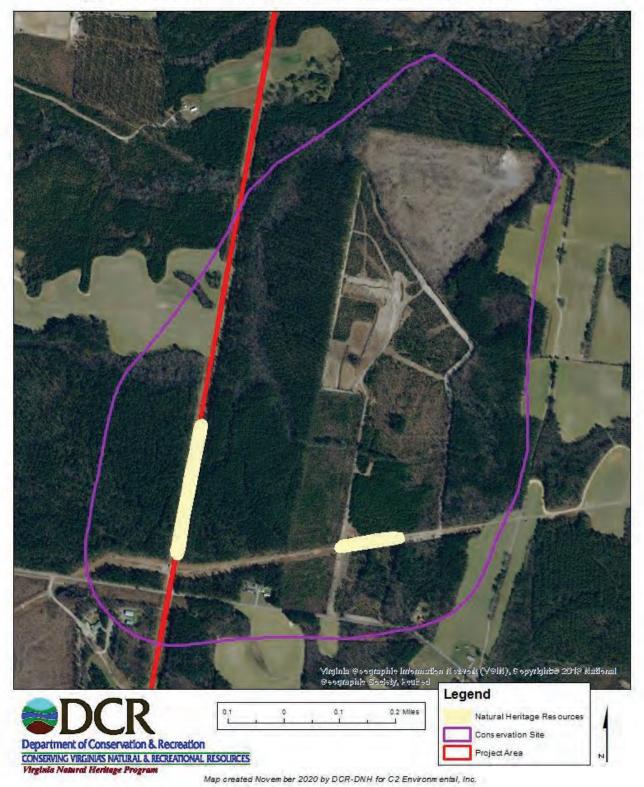
TL2201/254 Clubhouse - Lakeview 230 kV Rebuild Figure 2. South Meherrin Powerline Conservation Site



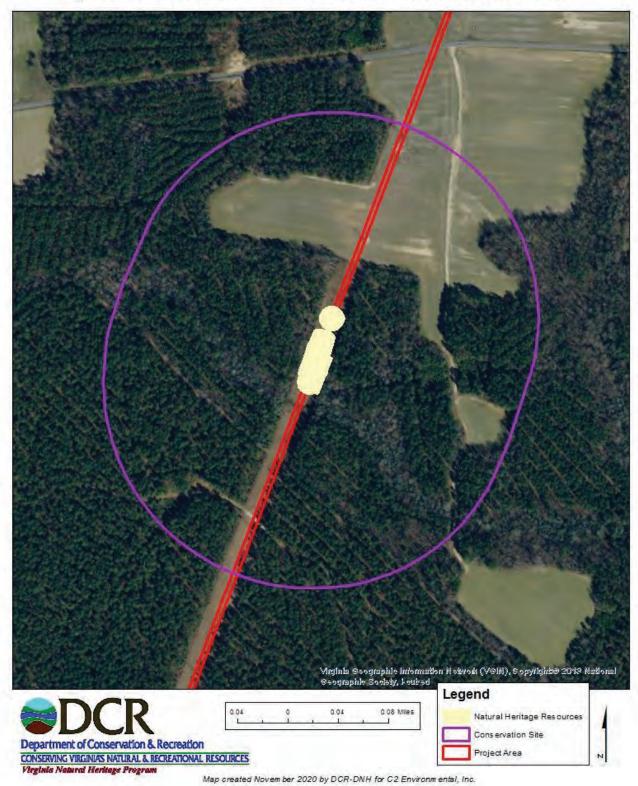
TL2201/254 Clubhouse - Lakeview 230 kV Rebuild Figure 3. Round Hill Church Powerline Conservation Site



TL2201/254 Clubhouse - Lakeview 230 kV Rebuild Figure 4. Cattail Creek Powerline Conservation Site



TL2201/254 Clubhouse - Lakeview 230 kV Rebuild Figure 5. Collier Branch Powerline Conservation Site





Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219 P.O. Box 1105, Richmond, Virginia 23218 (800) 592-5482 www.deq.virginia.gov

Matthew J. Strickler Secretary of Natural Resources David K. Paylor Director (804) 698-4000

August 13, 2019

Mr. Jason E. Williams Director Environmental Services Dominion Energy 5000 Dominion Boulevard Glen Allen, VA 23060

Transmitted electronically: jason.e.william@dominionenergy.com

Subject: Dominion Energy (Electric Transmission) – Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management (AS&S for ESC and SWM)

Dear Mr. Williams:

The Virginia Department of Environmental Quality ("DEQ") hereby approves the Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management for Dominion Energy (Electric Transmission) dated "May 29, 2019". This coverage is effective from August 13, 2019 to August 12, 2020.

To ensure compliance with approved specifications, the Virginia Erosion and Sediment Control Law and the Virginia Stormwater Management Act, DEQ staff will conduct random site inspections, respond to complaints, and provide on-site technical assistance with specific erosion and sediment control and stormwater management measures and plan implementation.

Please note that your approved Annual Standards and Specifications include the following requirements:

- Variance, exception, and deviation requests must be submitted separately from this Annual Standards and Specifications submission to DEQ. DEQ may require project-specific plans associated with variance requests to be submitted for review and approval.
- 2. The following information must be submitted to DEQ for each project at least two weeks in advance of the commencement of regulated land-disturbing activities. Notifications shall be sent by email to: StandardsandSpecs@deq.virginia.gov
 - i: Project name or project number;
 - ii: Project location (including nearest intersection, latitude and longitude, access point);
 - iii: On-site project manager name and contact info;
 - iv: Responsible Land Disturber (RLD) name and contact info;
 - v: Project description;

Dominion Energy (Electric Transmission) – AS&S for ESC and SWM August 12, 2019
Page 2 of 2

- vi: Acreage of disturbance for project; vii: Project start and finish date; and
- viii: Any variances/exceptions/waivers associated with this project.
- Project tracking of all regulated land disturbing activities (LDA) must be submitted to the DEQ on a bi-annual basis. Project tracking records shall contain the same information as required in the two week e-notifications for each regulated LDA.
- 4. Erosion & Sediment Control and Stormwater Management plan review and approval must be conducted by DEQ-Certified plan reviewers and documented in writing.

To ensure an efficient information exchange and response to inquiries, the DEQ Central Office is your primary point of contact. Central Office staff will coordinate with our Regional Office staff as appropriate.

Thank you very much for your submission and continued efforts to conserve and protect Virginia's precious natural resources.

Sincerely,

Jaime B. Robb, Manager Office of Stormwater Management

Cc: Amelia Boschen, <u>Amelia.h.boschen@dominionenergy.com</u>
Elizabeth Hester, <u>Elizabeth.l.hester@dominionenergy.com</u>
Stacey Ellis, <u>Stacey.t.ellis@dominionenergy.com</u>

Case Decision Information:

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

REPORT >

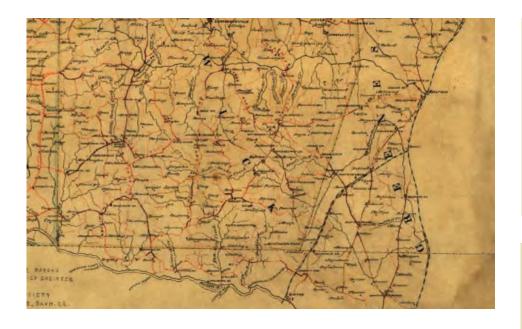
SCC Pre-Application Analysis
Of Cultural Resources for the
Clubhouse-Dry Bread Line #2201 and Dry BreadLakeview Line #254 230kV Virginia Rebuild Project

LOCATION > Greensville County, Virginia

DATE > OCTOBER 2020

PREPARED FOR >

Dominion Energy



PREPARED BY >

Dutton + Associates, LLC

Dutton + Associates

CULTURAL RESOURCE SURVEY, PLANNING, AND MANAGEMENT

PROJECT REVIEW # >

SCC Pre-Application Analysis of Cultural Resources for the Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project

Greensville County, Virginia

PREPARED FOR:

DOMINION ENERGY

PREPARED BY:

DUTTON + ASSOCIATES, LLC 1115 Crowder Drive Midlothian, Virginia 23236 804.644.8290

PRINCIPAL INVESTIGATOR:

Robert J. Taylor, Jr. M.A.

ABSTRACT

Dutton + Associates, LLC (D+A) conducted a Pre-Application Analysis (analysis) of cultural resources for the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project in Greensville County, Virginia. The analysis was performed for Dominion Virginia Power (Dominion) in support of a State Corporation Commission (SCC) application. The analysis was completed in accordance with Virginia Department of Historic Resources' (VDHR) guidance titled "Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia" (January 2008).

As part of Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project, Dominion proposes to rebuild approximately 1.6 miles of the existing Clubhouse-Dry Bread Line #2201 which runs from Structure #2201/A within the existing Clubhouse Substation to Structure #2201/14 / #254/14 within the existing Dry Bread Substation. An additional 10.9 miles of the existing Dry Bread-Lakeview Line #254 extending from Structure #254/14 within the Dry Bread Substation to Structure #254/113 at the Virginia state line will also be rebuilt. The existing line was built in 1962, and is suspended from two-pole, H-frame wood structures that average 63-feet in height. They will be replaced on a one-to-one basis with two-pole, H-frame weathering steel structures that average 70-feet in height. No additional clearing or ROW will be required as part of the project.

The background research conducted as part of this analysis was guided by VDHR guidance and designed to identify all previously recorded National Historic Landmarks (NHL) located within 1.5-miles of the proposed project, all historic properties listed in the National Register of Historic Places (NRHP) or battlefields located within 1-mile of the proposed project, all historic properties considered eligible for listing in the NRHP located within 0.5-miles of the proposed project, and all buildings, structures, and archaeological sites located directly within the proposed project area. Historic properties include architectural and archaeological (terrestrial and underwater) resources, historic and cultural landscapes, battlefields, and historic districts. For each historic property within the defined tiers, a review of existing documentation and a field reconnaissance was undertaken to assess each property's significant character-defining features, as well as the character of its current setting. Following identification of historic properties, D+A assessed the potential for impacts to any identified properties as a result of the proposed project. Specific attention was given to determining whether or not construction related to the project could introduce new visual elements into the property's viewshed or directly impact the property through construction, which would either directly or indirectly alter those qualities or characteristics that qualify the historic property for listing in the NRHP.

Review of the VDHR VCRIS inventory records revealed a total of 93 previously recorded architectural resources are located 1.5-miles of the proposed project. Of these, there are no NHLs located within 1.5-miles of the proposed project, no properties listed in the NRHP or battlefields located within 1-mile of the project, and one property that has been determined eligible for listing in the NRHP within 0.5-miles of the project. This consists of the c.1838 Chambliss House which was determined eligible for listing in the NRHP in 1999 as part of a proposed rehabilitation tax credit project.

VCRIS also revealed there are one-hundred-twenty (120) previously recorded archaeological sites within one mile of the project area. Eighteen (18) of these sites are located directly within or adjacent to the project area (within 100 feet of the project centerline). The sites within or adjacent to the project area primarily consist of prehistoric lithic scatters, camps, and occupation sites. There is also one historic-period domestic site and two artifact scatters. None of the sites within or adjacent to the project area have been previously determined eligible for listing in the NRHP. The two Reconstruction-era artifact scatters have been determined not eligible for listing in the NRHP by the VDHR, and the remaining sites have not been formally evaluated.

Field inspection and representative photographs reveal that the project will be mostly to completely screened from view from all locations within and around the Chambliss House property. An existing transmission line crosses through an agricultural field on the Chambliss House property with unobstructed views from the house, however, the portion of the line to be rebuilt is across the road within a thickly wooded area that completely screens it from visibility and will likely continue to do so. It is therefore D+A's opinion that the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project will have no more than a minimal impact on the Chambliss House.

A summary of findings and recommendations is provided in the table below.

Potential Impacts Summary for Architectural Resources

VDHR ID#	Resource Name	NRHP Status	Impact
040-0010	Chambliss House	NRHP- Eligible	Minimal

With regards to archaeology, there are 18 previously recorded sites within or immediately adjacent (within 100-feet of the centerline) to the project area. Of these, two sites have been determined not eligible for listing in the NRHP and the remaining 16 have not been formally evaluated. No archaeological survey or inspection was conducted as part of this effort. It is therefore D+A's opinion that re-identification and verification of site boundaries and eligibility should be conducted prior to any earth-moving or ground-disturbing activity associated with the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project.

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1. INTRODUCTION

In August 2020, Dutton + Associates, LLC (D+A) conducted a Pre-Application Analysis (analysis) of cultural resources for the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project. The analysis was performed for Dominion Energy (Dominion) in support of a State Corporation Commission (SCC) application. The analysis was conducted in accordance with Virginia Department of Historic Resources' (VDHR) guidance titled *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (January 2008) and Commonwealth of Virginia State Corporation Commission Division of Public Utility Regulation *Guidelines for Transmission Line Applications Filed Under Title 56 of the Code of Virginia* (August 2017).

This analysis was performed at a level that meets the purpose and intent of VDHR and the SCC's guidance. It provides information on the presence of previously recorded National Historic Landmark (NHL) properties located within a 1.5-mile buffer area established around the project area, properties listed on the National Register of Historic Places (NRHP), battlefields, and historic landscapes located within a 1-mile buffer around the project area, and properties previously determined eligible for listing in the NRHP located within a 0.5-mile buffer area around the project area, and previously identified archaeological resources directly within the project area. This analysis will not satisfy Section 106 identification and evaluation requirements in the event federal permits or licenses are needed; however, it can be used as a planning document to assist in making decisions under Section 106 as to whether further cultural resource identification efforts may be warranted.

This report contains a research design which describes the scope and methodology of the analysis, discussion of previously identified historic properties, and an assessment of potential impacts. D+A Senior Architectural Historian Robert J. Taylor, Jr. M.A. served as Principal Investigator and oversaw the general course of the project and supervised all aspects of the work. Copies of all notes, maps, correspondence, and historical research materials are on file at the D+A main office in Midlothian, Virginia.



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2. PROJECT DESCRIPTION

As part of Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project, Dominion proposes to rebuild approximately 1.6 miles of the existing Clubhouse-Dry Bread Line #2201 which runs from Structure #2201/A within the existing Clubhouse Substation to Structure #2201/14 / #254/14 within the existing Dry Bread Substation. An additional 10.9 miles of the existing Dry Bread-Lakeview Line #254 extending from Structure #254/14 within the Dry Bread Substation to Structure #254/113 at the Virginia state line will also be rebuilt (Figure 2-1). The existing line, which was built in 1962, is suspended from two-pole, H-frame wood structures that average 63-feet in height. They will be replaced on a one-to-one basis with two-pole, H-frame weathering steel structures that average 70-feet in height. Representative existing and proposed structure schematics are depicted in Figure 2-2. No additional clearing or ROW will be required as part of the project.



Figure 2-1: Project Alignment General Location. Source: Dominion Energy



Figure 2-2: Location of Structures to be replaced (North half of alignment). Source: Dominion Energy



Figure 2-3: Location of Structures to be replaced (South half of alignment). Source: Dominion Energy

Table 2-1: Table of existing and proposed structure heights. Source: Dominion Energy

heights. Source: Dominion Energy			
Existing Structure Height	Proposed Structure Height		
80	N/A		
59	61		
69	79		
67	79		
58	70		
76	84		
82	97		
80	79		
57	70		
59	66		
62	70		
71	75		
61	65		
61	N/A		
75	N/A		
61	N/A		
66	N/A		
58	61		
57	66		
55	66		
63	66		
57	66		
55	61		
66	N/A		
57	61		
66	75		
55	70		
65	75		
65 57			
	75		
57	75 66		
57 57	75 66 66		
57 57 67	75 66 66 70		
57 57 67 63	75 66 66 70 66		
	Existing Structure Height 80 59 69 67 58 76 82 80 57 59 62 71 61 61 75 61 66 58 57 55 63 57 55 66 57 66		

Structure Number	Existing Structure Height	Proposed Structure Height
254/35	63	70
254/36	66	N/A
254/37	57	70
254/38	66	N/A
254/39	57	61
254/40	66	75
254/41	61	70
254/42	61	N/A
254/43	56	70
254/44	63	70
254/45	62	70
254/46	58	75
254/47	67	75
254/48	67	75
254/49	75	N/A
254/50	61	70
254/51	70	N/A
254/52	56	61
254/53	56	66
254/54	62	70
254/55	59	66
254/56	56	66
254/57	62	66
254/58	57	61
254/59	62	70
254/60	62	66
254/61	66	N/A
254/62	66	N/A
254/63	72	79
254/64	70	N/A
254/65	57	56.5
254/66	62	70
254/67	75	N/A
254/68	56	61
254/69	61	N/A
254/70	61	66
254/71	56	66
254/72	56	66

Structure Number	Existing Structure Height	Proposed Structure Height
254/73	66	N/A
254/74	62	75
254/75	62	66
254/76	61	66
254/77	61	66
254/78	62	65
254/79	68	70
254/80	53	57
254/81	58	66
254/82	63	70
254/83	62	70
254/84	61	66
254/85	61	70
254/86	56	66
254/87	64	75
254/88	66	75
254/89	58	66
254/90	62	70
254/91	75	N/A
254/92	62	84
254/93	66	N/A
254/94	62	70
254/95	66	N/A
254/96	61	70
254/97	56	66
254/98	55	66
254/99	62	75
254/100	66	70
254/101	65	79
254/102	62	70
254/103	62	66
254/104	62	70
254/105	56	66
254/106	62	70
254/107	62	66
254/108	66	70
254/109	60	66
254/110	55	61

Structure Number	Existing Structure Height	Proposed Structure Height
254/111	59	66
254/112	63	75
254/113	56	66
254/114	61	70
254/115	55	70
254/116	61	75
254/117	63	70
254/118	57	70
254/119	58	70
254/120	67	75
254/121	56	66
254/122	62	66
254/123	57	70
254/124	70	N/A
254/125	55	61
254/126	55	66
254/127	56	66
254/128	63	66
254/129	62	70
254/130	58	66
254/131	56	61
254/132	56	66
254/133	62	66
254/134	55	61
254/135	57	66
254/136	55	66
254/137	66	N/A
254/138	62	65
254/139	67	75
254/140	57	61
254/141	73	84
254/142	66	75
254/143	58	75
254/144	60	66
254/145	61	N/A
254/146	61	75
254/147	57	75
254/148	55	61

Structure Number	Existing Structure Height	Proposed Structure Height
254/149	56	66
254/150	61	70
254/151	63	65
254/152	56	61
254/153	77	65
254/154	65	75
254/155	62	66
254/156	67	70
254/157	66	97
254/158	69	
254/159	68	100
254/160	63	100
254/161	79	N/A
254/161A	90	
254/162	120	120
254/163	110	N/A
2141/1, 254/164	95	N/A

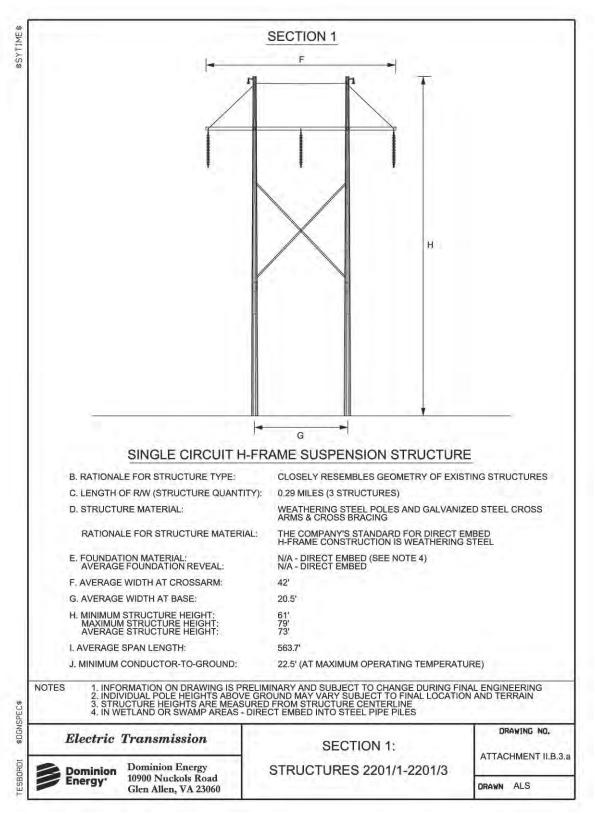


Figure 2-4: Representative proposed structures (2201/1 – 2201/3). Source: Dominion Energy

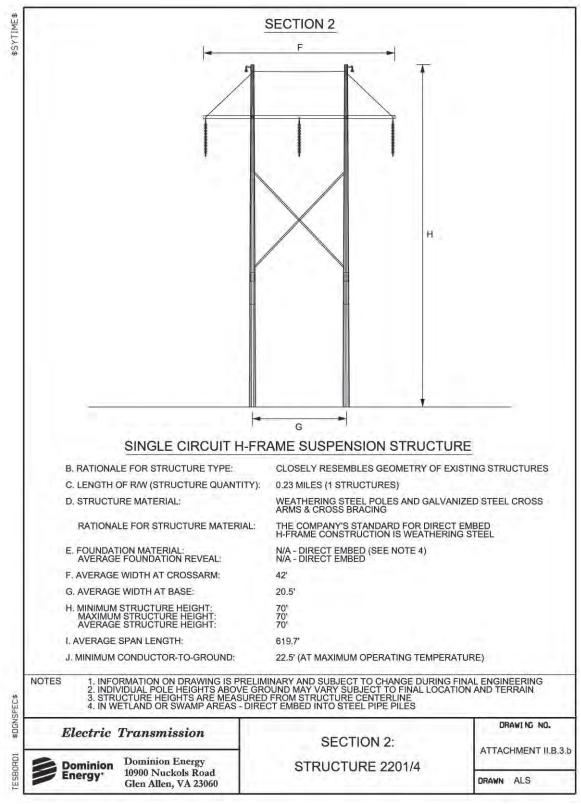


Figure 2-5: Proposed structure 2201/4. Source: Dominion Energy

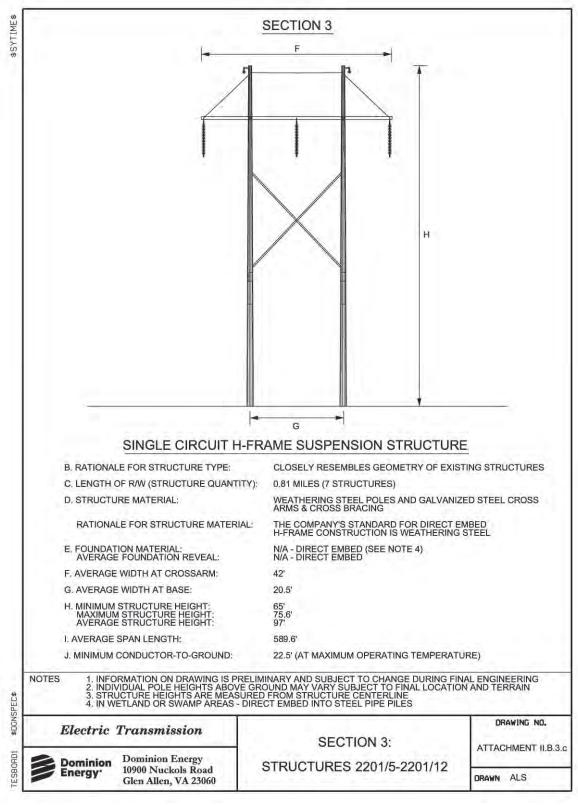


Figure 2-6: Representative proposed structures (2201/5 – 2201/12). Source: Dominion Energy

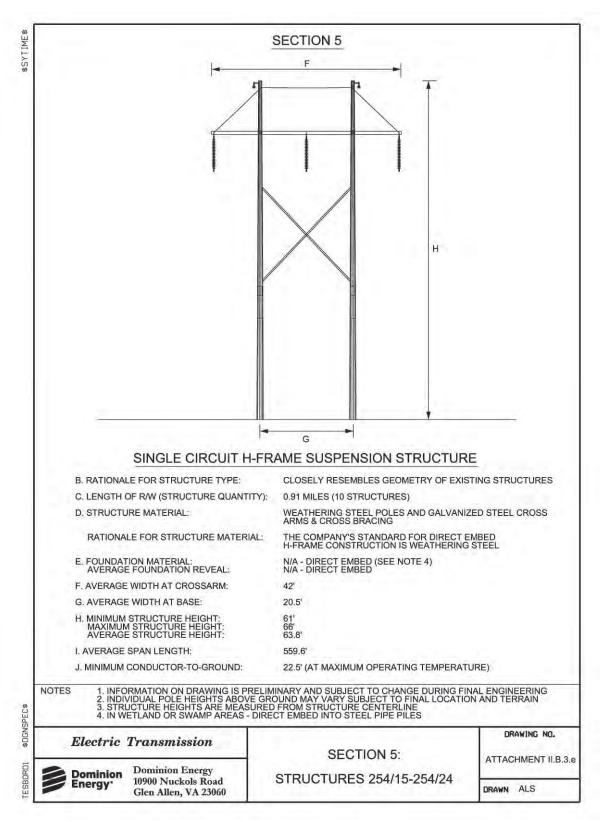


Figure 2-7: Representative proposed structures (254/15 – 254/24). Source: Dominion Energy

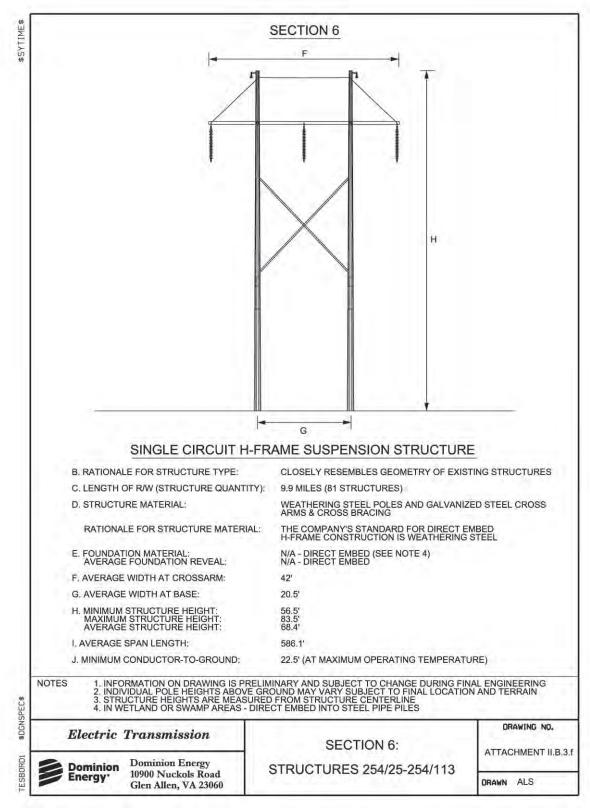


Figure 2-8: Representative proposed structures (254/25 – 254/113). Source: Dominion Energy



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3. RESEARCH DESIGN

The intent of this effort was to identify all known historic properties within the vicinity of the proposed project area in order to assess them for potential impacts brought about by the project. Historic properties include architectural and archaeological (terrestrial and underwater) resources, historic and cultural landscapes, battlefields, and historic districts. For each previously recorded historic property, an examination of property documentation, current aerial photography, and a field reconnaissance was undertaken to assess each property's integrity of feeling, setting, and association, and to provide photo documentation of the property including views toward the proposed project. The D+A personnel who directed and conducted this survey meet the professional qualification standards of the Department of the Interior (48 FR 44738-9).

ARCHIVAL RESEARCH

In August 2020, D+A conducted archival research with the goal of identifying all previously recorded historic properties and any additional historic property locations referred to in historic documents and other archives, as well as consultation with local informants and other professionals with intimate knowledge of the project area as appropriate. Background research was conducted at the VDHR and on the internet and included the following sources:

- > VDHR Virginia Cultural Resource Information System (V-CRIS) site files; and
- National Park Service (NPS), American Battlefield Protection Program (ABPP), maps and related documentation.

Data collection was performed according to VDHR guidance in *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (January 2008) and was organized in a multi-tier approach. As such, the effort was designed to identify all previously recorded NHL's located within 1.5-miles of the proposed project area, all historic properties listed in the NRHP, battlefields, and historic landscapes located within 1-mile of the project area, all historic properties previously determined eligible for listing in the NRHP located within 0.5-mile of the project area, and all properties located directly within the project area.

FIELD RECONNAISSANCE

Field reconnaissance included visual inspection of those previously recorded historic properties listed in the NRHP located within 1-mile of the project area, and all properties considered eligible for listing in the NRHP within 0.5-miles of the project area. Visual inspection included digital photo documentation of each property's existing conditions including its setting and views toward the proposed project. Photographs were taken of primary resource elevations, general setting, and existing viewsheds. All photographs were taken from public right-of-way or where property access was granted. No subsurface archaeological testing was conducted as part of this effort.

ASSESSMENT OF POTENTIAL IMPACTS

Following identification and field inspection of historic properties, D+A assessed each resource for potential impacts brought about by the proposed project. When assessing impacts, D+A considered those qualities and characteristics that qualify the property for listing and whether the project had the potential to alter or diminish the integrity of the property and its associated significance. Specific attention was given to determining whether or not the proposed project would introduce new visual elements into a property's viewshed, which would either directly or indirectly alter those qualities or characteristics that qualify the historic property for listing in the NRHP. Identified impacts were characterized as severe (fully visible and incompatible with character-defining viewshed or setting), moderate (partially visible and incompatible with character-defining viewshed or setting), or minimal (not visible and/or not out of character with existing viewscape).

REPORT PREPARATION

The results of the archival resource, field inspection, and analysis were synthesized and summarized in a summary report accompanied by maps, illustrations, and photographs as appropriate. All research material and documentation generated by this project is on file at D+A's office in Midlothian, Virginia.

4. ARCHIVAL RESEARCH

This section includes a summary of efforts to identify previously known and recorded cultural resources within the tiered project buffers. It includes lists, maps, and descriptive data on all previously conducted cultural resource surveys, and previously recorded architectural resources and archaeological sites according to the VDHR archives and VCRIS database.

PREVIOUSLY SURVEYED AREAS

VDHR and VCRIS records indicate that there have been seven prior Phase I cultural resource surveys within one mile of the project area, five of which directly included portions of the project area. These surveys are at minimum archaeological in nature, although some include architectural resources as well. The five surveys that include portions of the project area were conducted for a variety of project types and purposes, including a comprehensive county-wide assessment, a linear pipeline project, a mining study, and two solar power generation site surveys. The previously conducted cultural resource surveys are listed in Table 4-1 and illustrated in Figures 4-1 through 4-3.

Table 4-1: Previously conducted cultural resource surveys within 1-mile of the Project Area (orange

highlight denote surveys that included portions of the project area). Source: VDHR.

VDHR	Title	Author	Date
Survey #	Title	Author	Date
		Thunderbird	
	A Preliminary Archeological Reconnaissance of	Archaeological Associates	
	Locations in Greensville County, Virginia and	(Thunderbird Research	
GV-004	Northampton County, North Carolina	Corp.)	1985
		Thunderbird	
		Archaeological Associates	
	An Intensive Study of Four Areas Along Fontaine	(Thunderbird Research	
GV-005	Creek, Greensville County, Virginia	Corp.)	1985
	Phase I Cultural Resource Survey of Three Falls Zone	(College of) William and	
	Tracts Proposed for Surface Mining, Greensville	Mary Center for	
GV-025	County, Virginia and Halifax County, North Carolina	Archaeological Research	1992
	Phase I Cultural Resources Survey of Approximately		
	5.735 Miles of Proposed Brink Pipeline, City of	James River Institute for	
GV-032	Emporia and Greensville County, Virginia	Archaeology	2008
	Phase I Cultural Resources Survey of the ±665		
	hectare (±1643 acre) Sadler Project Area, Greensville		
GV-049	County, Virginia	Dutton & Associates	2018
	A Phase I Cultural Resources Survey of		
	Approximately 846 Acres for the Proposed Meherrin	Stantec Consulting	
GV-056	Solar Site in Greensville County, Virginia	Services	2019
	Phase I Archaeological Survey of Proposed Solo		
PG-085	Pipeline Vol. I-IV	Gray and Pape, Inc.	1999

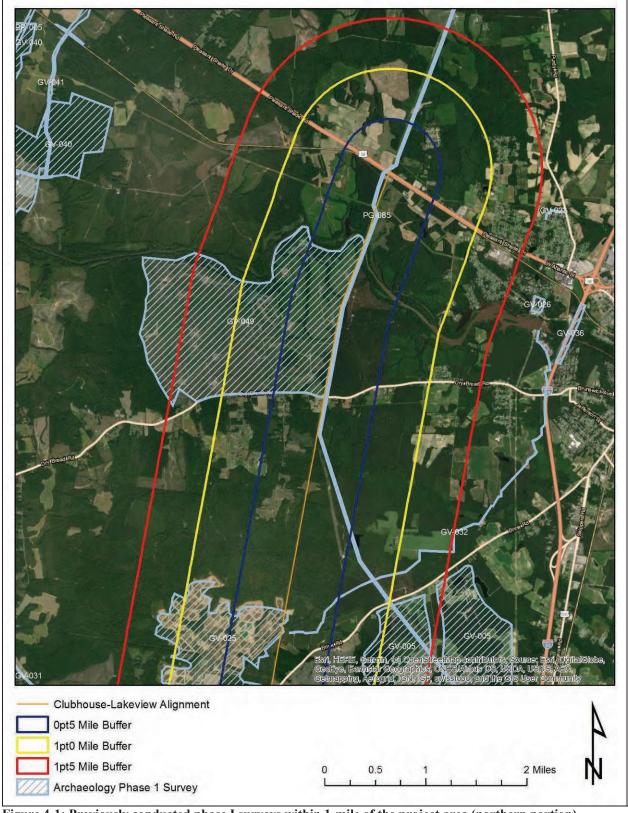


Figure 4-1: Previously conducted phase I surveys within 1-mile of the project area (northern portion). Source: VCRIS

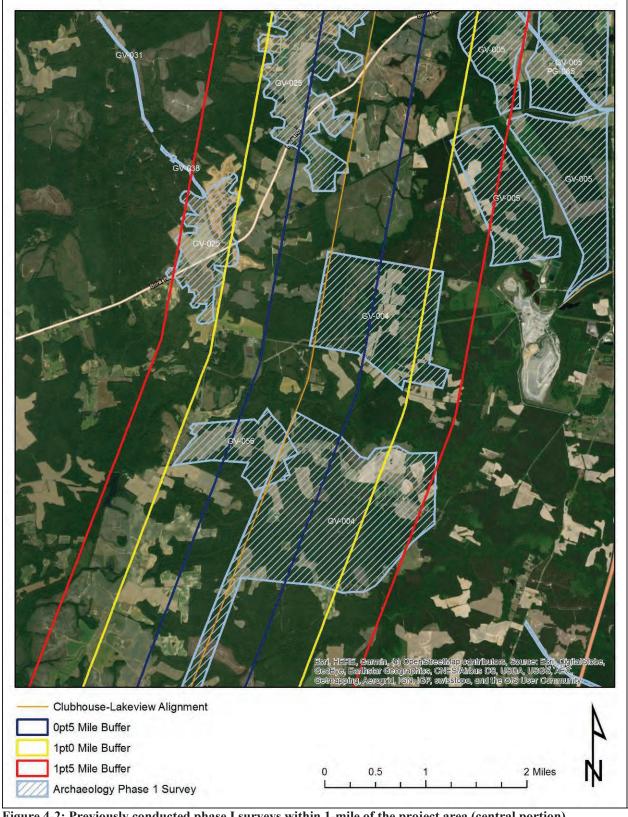


Figure 4-2: Previously conducted phase I surveys within 1-mile of the project area (central portion). Source: VCRIS

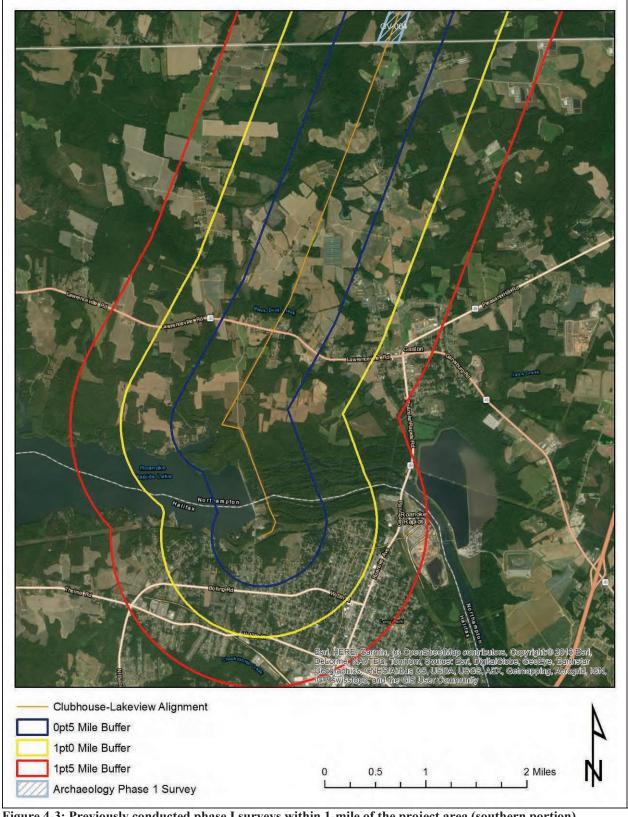


Figure 4-3: Previously conducted phase I surveys within 1-mile of the project area (southern portion). Source: VCRIS

ARCHITECTURAL RESOURCES

Review of the VDHR VCRIS inventory records revealed a total of 93 previously recorded architectural resources are located within 1.5-miles of the proposed project. Of these, there are no NHLs located within 1.5-miles of the proposed project, no properties listed in the NRHP or battlefields located within 1-mile of the project, and one property that has been determined eligible for listing in the NRHP within 0.5-miles of the project.

The one previously recorded NRHP-eligible property located within one-half mile of the project area is the Chambliss House (VDHR# 040-0010), a c.1838 Greek Revival dwelling that was determined eligible in 1999 for significant associations to the Chambliss family, as well as intact and distinctive architecture.

Table 4-2 provides a list of all previously recorded architectural resources within 1.5-miles of the project area and Table 4-3 lists NRHP-listed and eligible resources within their respective buffered tiers. Maps of all previously recorded architectural resources within 1.5-miles of the project are depicted in Figures 4-4 through 4-6 and maps of NRHP-listed and Eligible resources are found in Figure 4-7 through 4-9.

Table 4-2: Previously recorded architectural resources within 1.5-miles of the project area (bold listings denote sites determined eligible for the NRHP).

VDHR# Resource Name/ Address **NRHP Status** Cedar Lawn (Historic), Chaplin Place (Current Name), House, Brunswick Road (Function/Location) 040-0003 Not Evaluated Chambliss House (Historic), Woodview DHR Board Det. 040-0010 (Historic/Current) **Eligible** 040-0021 House, Route 677 (Function/Location) Not Evaluated House, Route 677 (Function/Location) 040-0022 Not Evaluated 040-0025 House, Route 621 (Function/Location) Not Evaluated 040-0026 House, Route 621 (Function/Location) Not Evaluated 040-0030 House, Route 650 (Function/Location) Not Evaluated 040-0031 Hicks House (Historic) Not Evaluated House, Rt. 679 (Function/Location) 040-0032 Not Evaluated House, Pine Log Road (Route 633) 040-0033 (Function/Location) DHR Staff: Not Eligible 040-0034 Gordon-Robinson Cemetery (Historic) DHR Staff: Not Eligible Farmstead, Pine Log Road (Route 633) (Function/Location) 040-0035 DHR Staff: Not Eligible Forest Hill Baptist Church (Historic) DHR Staff: Not Eligible 040-0036 House, 2342 Pine Log Road (Function/Location) 040-0037 DHR Staff: Not Eligible House, Pine Log Road 040-0038 (Function/Location) DHR Staff: Not Eligible Hill House (Historic/Current), House, 040-0039 Pine Log Road (Function/Location) DHR Staff: Not Eligible 040-0040 Justice House (Historic/Current) Not Evaluated Ligon, George B., Store Not Evaluated 040-0041 (Historic/Current) 040-0044 House, Brink Road (Function/Location) DHR Staff: Not Eligible 040-0045 Robinson House and Cemetery DHR Staff: Not Eligible

VDHR#	Resource Name/ Address	NRHP Status
	(Historic/Current), Robinson Place	
	(Historic)	
040-0046	Brink Store (Historic)	DHR Staff: Not Eligible
	Brink Polling House (Current), Voting	
	House, Brink Road	
040-0047	(Function/Location)	DHR Staff: Eligible
	Brink Ruritan Club (Current), Brink	
040-0048	School (Historic)	DHR Staff: Not Eligible
040-0049	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
040-0050	Davis Place (Current)	DHR Staff: Not Eligible
040-0051	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
040-0052	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
040-0053	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
	House, 135 Independence Church Rd (Rt	8
040-0054	633) (Function/Location)	DHR Staff: Not Eligible
	House, Brink Road (Route 627)	5
040-0055	(Function/Location)	DHR Staff: Not Eligible
	House, Pine Log Road/Route 633	
040-0056	(Function/Location)	DHR Staff: Not Eligible
0.0000	House, 750 Pine Log Road (Route 633)	Diffe Swift Test Engiete
040-0057	(Function/Location)	DHR Staff: Not Eligible
040-0058	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
040-0059	House, Route 627 (Function/Location)	DHR Staff: Not Eligible
040-5001	House, Route 632 (Function/Location)	Not Evaluated
040 3001	Schoolhouse, Rock Bridge Road (Route	Not Evaluated
040-5010	639) (Function/Location)	Tvot Evaluated
040-5014	Round Hill Church (Historic)	Not Evaluated
040 3014	Store/Gas Station, 6838 Brink Rd (Rt	Tvot Evaluated
040-5051	627) (Function/Location)	DHR Staff: Not Eligible
040-5067	Cook Family Cemetery (Descriptive)	Not Evaluated
040 3007	House, 422 Collins Road	Tvot Evaluated
040-5068	(Function/Location)	DHR Staff: Not Eligible
010 2000	House, 2501 Rock Bridge Road	Bill Suil. Not Eligible
040-5126	(Function/Location)	DHR Staff: Not Eligible
040 3120	Outbuilding, 422 Collins Road	Diffe Staff. Not Eligible
040-5128	(Function/Location)	DHR Staff: Not Eligible
040-5129	House, Brink Road (Function/Location)	DHR Staff: Not Eligible
040-5131	House, Hilltop Lane (Function/Location)	DHR Staff: Not Eligible
OTO 2121	House, Cattail Creek Road	Diff. Suil. Not Eligible
040-5138	(Function/Location)	DHR Staff: Not Eligible
070-3130	House, 6755 Brink Road	Diff. Staff. Not Eligible
040-5139	(Function/Location)	DHR Staff: Not Eligible
070-3137	Dwelling, 100 Lundy Lane	Diff. Staff. Not Eligible
040-5143	(Function/Location)	DHR Staff: Not Eligible
07U-J17J	Dwelling, 4279 Dry Bread Road	Diff. Staff. Not Eligible
040-5144 (Function/Location)		DHR Staff: Not Eligible
010 2177	Dwelling, 4131 Dry Bread Road	Diff Suit. Not Eligible
040-5145 (Function/Location)		DHR Staff: Not Eligible
UTU-J17J	Dwelling, 4070 Dry Bread Road	DITE Statt. Not Eligible
040-5146	(Function/Location)	DHR Staff: Not Eligible
040-3140		DHR Staff: Not Eligible
040 5147	Dwelling, 3758 Dry Bread Road	DHD Stoff: Not Elizible
040-5147	(Function/Location)	DHR Staff: Not Eligible

VDHR#	Resource Name/ Address	NRHP Status
	Dwelling, 3658 Dry Bread Road	
040-5148	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 167 Allen Town Road	
040-5149	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 239 Allen Town Road	
040-5150	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 286 Allen Town Road	
040-5151	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 363 Allen Town Road	8
040-5152	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 383 Allen Town Road	2
040-5153	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 399 Allen Town Road	5
040-5154	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 502 Allen Town Road	2
040-5155	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 410 Allen Town Road	5
040-5156	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 360 Allen Town Road	5
040-5157	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 258 Allen Town Road	
040-5158	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 3338 Dry Bread Road	
040-5159	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 3294 Dry Bread Road	
040-5160	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 47 Camp Ground Road	
040-5161	(Function/Location)	DHR Staff: Not Eligible
	Commercial Building, 63 Camp Ground	
040-5162	Road (Function/Location)	DHR Staff: Not Eligible
	Cemetery, Camp Ground Road	
	(Function/Location), James Delbridge	
040-5163	Cemetery (Current Name)	DHR Staff: Not Eligible
	Dwelling, 419 Camp Ground Road	
040-5164	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 423 Camp Ground Road	
040-5165	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 447 Camp Ground Road	
040-5166	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 463 Camp Ground Road	
040-5167	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, Camp Ground Road	
040-5168	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 215 Camp Ground Road	
040-5169	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, Dry Bread Road	
040-5170	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2998 Dry Bread Road	
040-5171	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2830 Dry Bread Road	
040-5172	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2810 Dry Bread Road	
040-5173	(Function/Location)	DHR Staff: Not Eligible

VDHR#	Resource Name/ Address	NRHP Status
	Dwelling, 2706 Dry Bread Road	
040-5174	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, Dry Bread Road	
040-5175	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2540 Dry Bread Road	
040-5176	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 46 Bob White Court	
040-5177	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2502 Dry Bread Road	
040-5178	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, 2418 Dry Bread Road	
040-5179	(Function/Location)	DHR Staff: Not Eligible
	Dwelling, Lundy Road	
040-5180	(Function/Location)	DHR Staff: Not Eligible
	House, 2494 Pine Log Road	
040-5199	(Function/Location)	DHR Staff: Not Eligible
	House, 2315 Pine Log Road	
040-5200	(Function/Location)	DHR Staff: Not Eligible
	House, 1863 Pine Log Road	
040-5201	(Function/Location)	DHR Staff: Not Eligible
	House, 1735 Pine Log Road	
040-5202	(Function/Location)	DHR Staff: Not Eligible
	House, 1491 Pine Log Road	
040-5203	(Function/Location)	DHR Staff: Not Eligible
	House, 1290 Pine Log Road	
040-5204	(Function/Location)	DHR Staff: Not Eligible
	House, 858 Pine Log Road	
040-5205	(Function/Location)	DHR Staff: Not Eligible
	House, 695 Pine Log Road	
040-5206	(Function/Location)	DHR Staff: Not Eligible
	House, 570 Pine Log Road	
040-5207	(Function/Location)	DHR Staff: Not Eligible

Table 4-3: Previously recorded architectural resources within their respective tiered buffer zones for the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project as specified in the VDHR Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia

Buffer(miles)	Considered Resources	VDHR#	Description
1.5	National Historic Landmarks	None	N/A
	National Register Properties (Listed)	None	N/A
1.0	Battlefields	None	N/A
	Historic Landscapes	None	N/A
0.5	National Register- Eligible	040-0010	Chambliss House (Historic), Woodview (Historic/Current)

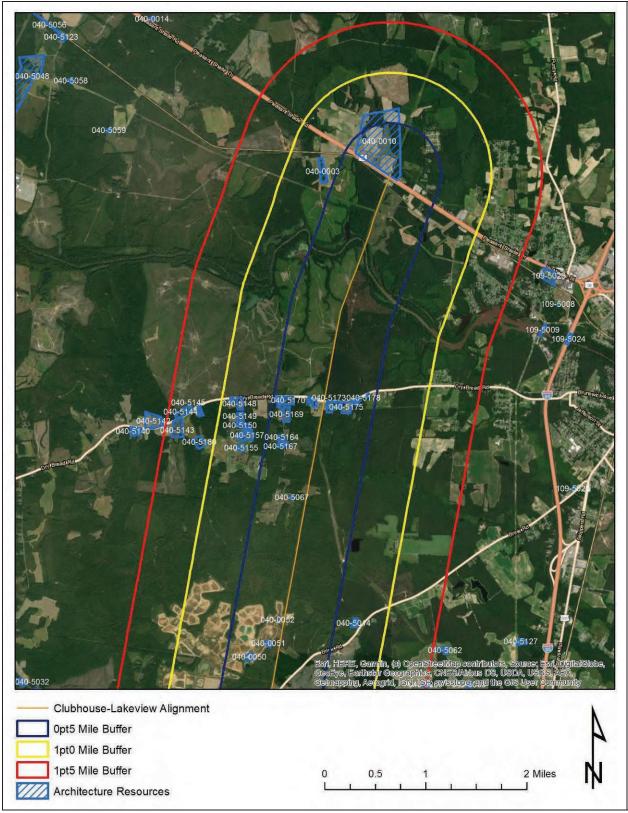


Figure 4-4: All previously identified architectural resources within 1.5-miles of the project area (northern portion). Source: VCRIS

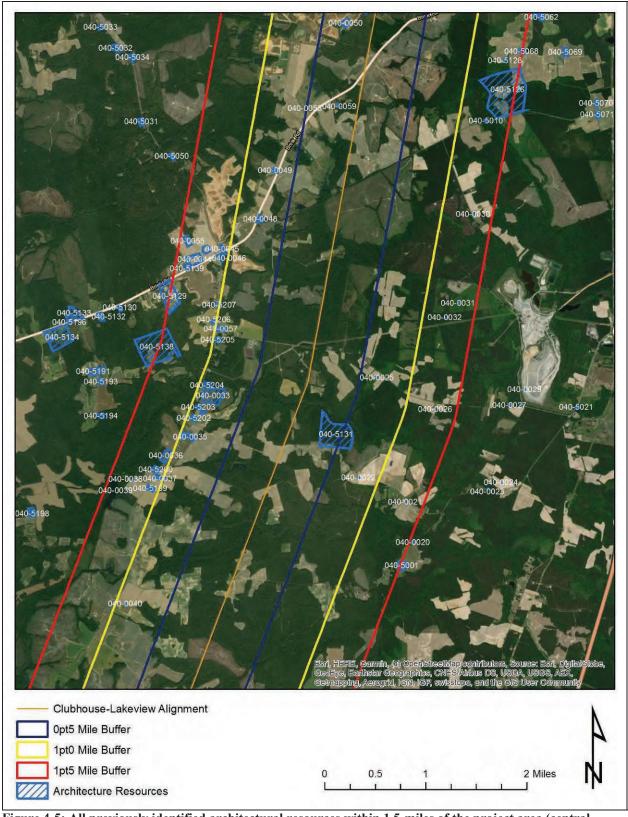


Figure 4-5: All previously identified architectural resources within 1.5-miles of the project area (central portion). Source: VCRIS

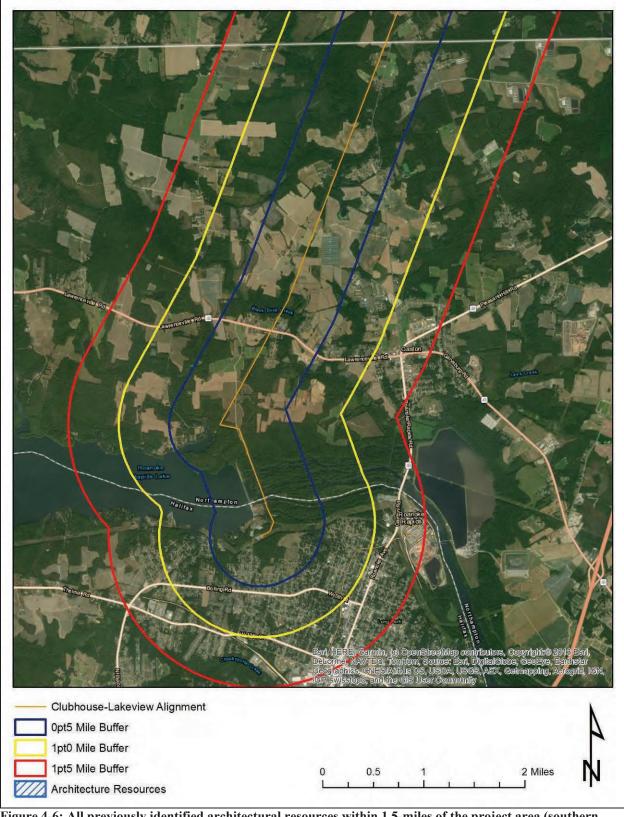


Figure 4-6: All previously identified architectural resources within 1.5-miles of the project area (southern portion). Source: VCRIS

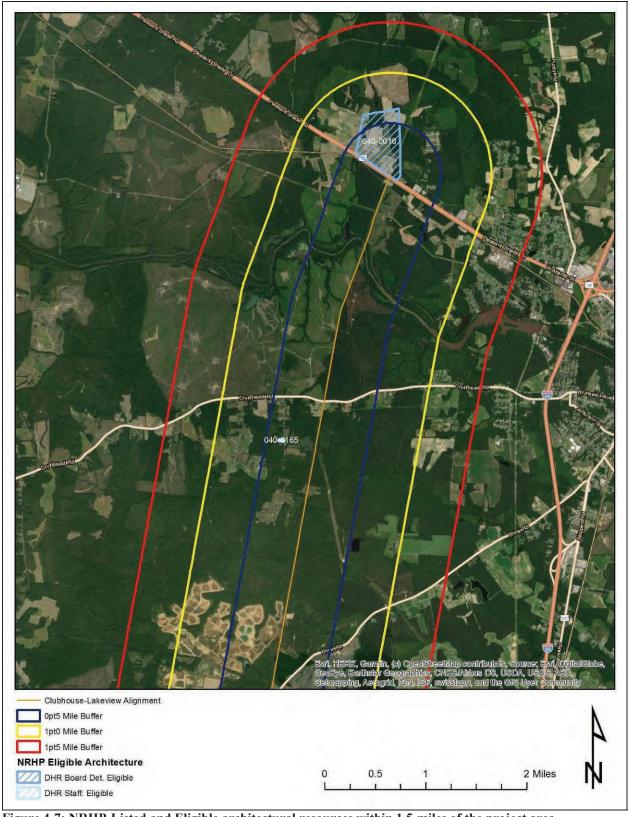


Figure 4-7: NRHP-Listed and Eligible architectural resources within 1.5-miles of the project area (northern portion). Source: VCRIS

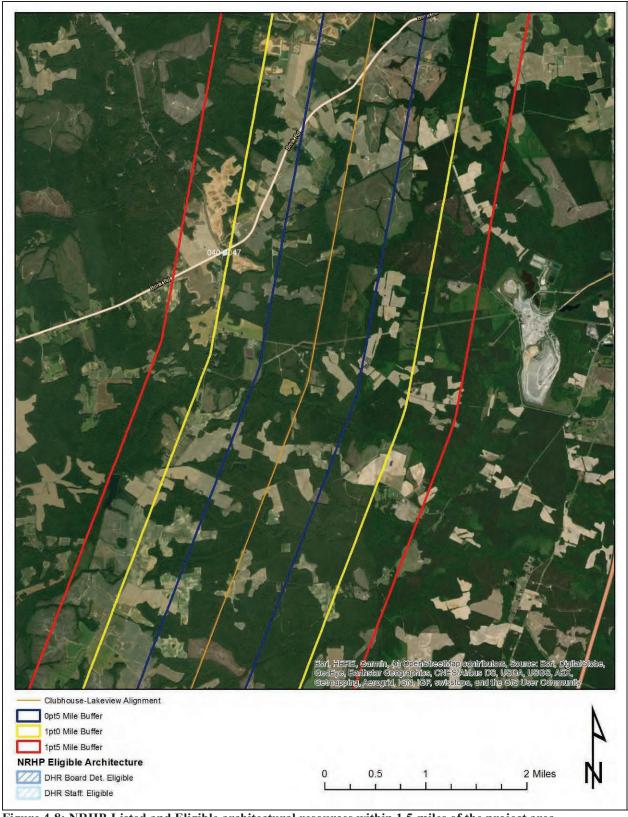


Figure 4-8: NRHP-Listed and Eligible architectural resources within 1.5-miles of the project area (central portion). Source: VCRIS

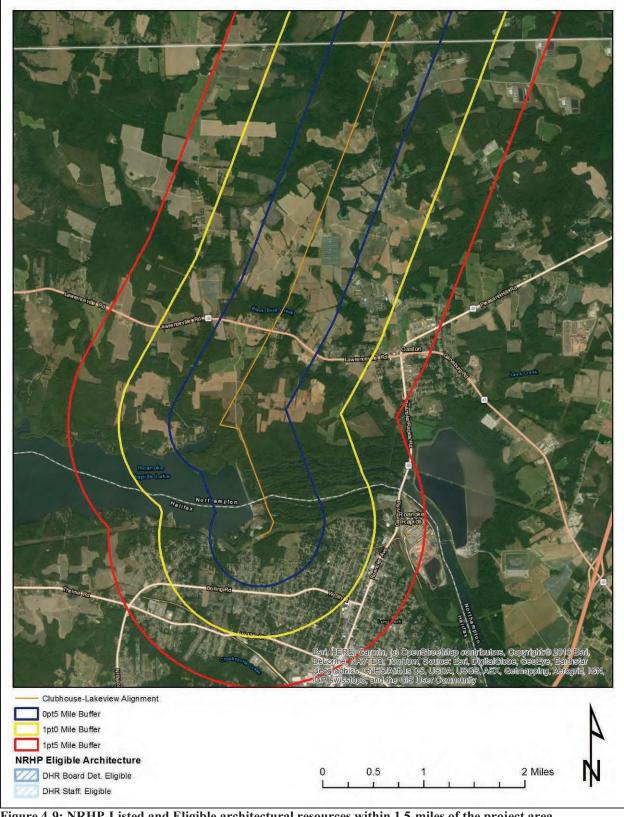


Figure 4-9: NRHP-Listed and Eligible architectural resources within 1.5-miles of the project area (southern portion). Source: VCRIS

ARCHAEOLOGICAL SITES

Review of the VDHR VCRIS records reveals there are one-hundred-twenty (120) previously recorded archaeological sites within one mile of the project area. Eighteen (18) of these sites are located directly within or adjacent to the project area (within 100 feet of the project centerline). Of the sites within one mile, four have been determined potentially eligible for listing in the NRHP, 23 have been determined not eligible, and the remaining have not been formally evaluated. The sites within or adjacent to the project area primarily consist of prehistoric lithic scatters, camps, and occupation sites. There is also one historic-period domestic site and two artifact scatters. None of the sites within or adjacent to the project area have been previously determined eligible for listing in the NRHP. The two Reconstruction-era artifact scatters have been determined not eligible for listing in the NRHP by the VDHR, and the remaining sites have not been formally evaluated.

Table 4-4 lists the previously recorded archaeological resources within one-mile of the project area and Table 4-5 lists previously recorded sites that located within or adjacent to the project area (within 100 feet of the centerline). Figures 4-10 through 4-12 illustrates the locations of the previously recorded sites in relation to the project area.

Table 4-4: Previously recorded archaeological resources within one mile of the project area. Bold listings denote sites determined eligible for the NRHP. Orange highlight denotes site is located within or adjacent

to the project area

VDHR				
ID#	Site Category	Site Type	Temporal Association	NRHP Status
			Historic/Unknown, Middle Archaic	
			(6500 - 3001 B.C.), Middle Woodland	
44GV0090	Domestic	Camp, temporary	(300 - 999 A.D.)	Not Evaluated
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0091	Domestic	Camp, temporary	1606 A.D.)	
44GV0092	Domestic	Hamlet	Archaic (8500 - 1201 B.C.)	Not Evaluated
44GV0093	Domestic	Dwelling, single	<null></null>	Not Evaluated
44GV0094	Domestic	Camp, temporary	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0095	Domestic	Camp, temporary	1606 A.D.)	
			Middle Archaic (6500 - 3001 B.C.),	Not Evaluated
	Domestic,	Camp, temporary,	19th Century: 2nd half (1850 - 1899),	
44GV0104	Funerary	Cemetery	20th Century: 1st half (1900 - 1949)	
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0105	<null></null>	<null></null>	1606 A.D.)	
44GV0106	Domestic	Camp, temporary	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0107	<null></null>	<null></null>	1606 A.D.)	
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0108	<null></null>	<null></null>	1606 A.D.)	
440770400		Camp, temporary,		Not Evaluated
44GV0109	Domestic	Dwelling, single	Late Archaic (3000 - 1201 B.C.)	
	DSS Legacy,		N. 111 A 1 : ((500 2001 F.G.)	Not Evaluated
	Industry/Proc	T '41.'	Middle Archaic (6500 - 3001 B.C.),	
440370110	essing/Extract	Lithic quarry,	Late Archaic (3000 - 1201 B.C.),	
44GV0110	ion	Lithic workshop	Woodland (1200 B.C 1606 A.D.)	

VDHR ID#	Site Category	Site Type	Temporal Association	NRHP Status
44GV0111	Domestic	Camp, temporary	Woodland (1200 B.C 1606 A.D.)	Not Evaluated
44GV0112	Domestic	Camp, temporary	Early Archaic (8500 - 6501 B.C.) Not Evaluated	
44GV0113	Domestic	Camp, temporary	Archaic (8500 - 1201 B.C.)	Not Evaluated
			Late Archaic (3000 - 1201 B.C.),	Not Evaluated
44GV0114	Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	
44GV0115	Domestic	Dwelling, single	Historic/Unknown, Late Archaic (3000 - 1201 B.C.)	Not Evaluated
44GV0116	Domestic	Camp, temporary	Late Archaic (3000 - 1201 B.C.), Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0117	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0118	Domestic	Camp, temporary	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
44GV0119	Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0120	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0124	<null></null>	<null></null>	Archaic (8500 - 1201 B.C.), Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0125	Domestic	Camp, temporary	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
44GV0126	Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0127	Domestic	Camp, temporary	Late Woodland (1000 - 1606)	Not Evaluated
44GV0128	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0129	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0130	Domestic	Dwelling, single	<null></null>	Not Evaluated
44GV0131	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0134	Domestic	Camp, temporary	Early Archaic (8500 - 6501 B.C.)	Not Evaluated
			Prehistoric/Unknown (15000 B.C	Not Evaluated
44GV0135	Domestic,	Camp, temporary Dwelling, single,	1606 A.D.)	Not Evaluated
44GV0136	DSS Legacy	Other	Historic/Unknown	Not Evaluated
44GV0137	Domestic	Camp, temporary	Early Archaic (8500 - 6501 B.C.)	Not Evaluated
44GV0138	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0139	Domestic	Camp, temporary	<null></null>	Not Evaluated
44GV0140	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0141	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0142	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0142 44GV0143	Domestic	Camp, temporary	Late Woodland (1000 - 1606)	Not Evaluated
-	Domestic	* *	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated Not Evaluated
44GV0144	t	Camp, temporary		Not Evaluated Not Evaluated
44GV0147	Domestic	Hamlet	Middle Archaic (6500 - 3001 B.C.), Not Evaluated	
44GV0148	Domestic	Hamlet	Middle Woodland (300 - 999 A.D.) Middle Woodland (300 - 999 A.D.) Not Evaluated	
44GV0151 44GV0152	Domestic Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	Not Evaluated Not Evaluated
		Camp, temporary	Middle Woodland (300 - 999 A.D.)	Not Evaluated Not Evaluated
44GV0153	Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	Tyot Evaluated

VDHR ID#	Site Category	Site Type	Temporal Association	NRHP Status
44GV0154	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0155	Domestic, DSS Legacy	Camp, temporary, Other	Historic/Unknown, Middle Archaic Not Evaluated (6500 - 3001 B.C.)	
44GV0156	Domestic	Dwelling, single	Historic/Unknown, Late Archaic (3000 - 1201 B.C.)	Not Evaluated
44GV0157	Domestic	Camp, temporary	<null></null>	Not Evaluated
44GV0159	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0160	Domestic	Camp, temporary, Dwelling, single	Historic/Unknown, Paleo-Indian (15000 - 8501 B.C.), Early Archaic (8500 - 6501 B.C.)	Not Evaluated
44GV0161	Domestic	Camp, temporary	Late Woodland (1000 - 1606)	Not Evaluated
44GV0162	Domestic, DSS Legacy	Dwelling, single, Other	Historic/Unknown, Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0163	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0164	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0165	Domestic	Camp, temporary, Dwelling, single	Historic/Unknown, Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0167	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0168	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0202	Domestic	Camp, temporary	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0203	Domestic	Camp, temporary	Middle Woodland (300 - 999 A.D.)	Not Evaluated
44GV0204	Domestic	Farmstead	19th Century (1800 - 1899), 20th Century: 1st half (1900 - 1949)	Not Evaluated
44GV0262	DSS Legacy	Camp	Middle Archaic (6500 - 3001 B.C.), Late Archaic (3000 - 1201 B.C.), Woodland (1200 B.C 1606 A.D.)	Not Evaluated
44GV0263	DSS Legacy	Camp	Prehistoric/Unknown (15000 B.C 1606 A.D.)	Not Evaluated
44GV0264	DSS Legacy	Camp	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
44GV0265	DSS Legacy	Camp	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
44GV0266	Domestic	Dwelling, single	Prehistoric/Unknown (15000 B.C 1606 A.D.), 20th Century (1900 - 1999)	Not Evaluated
44GV0269	DSS Legacy	Camp	Early Archaic (8500 - 6501 B.C.)	Not Evaluated
44GV0270	DSS Legacy	Camp	Woodland (1200 B.C 1606 A.D.)	Not Evaluated
44GV0271	DSS Legacy	Camp	Woodland (1200 B.C 1606 A.D.)	Not Evaluated
44GV0272	DSS Legacy	Camp	<null></null>	Not Evaluated
44GV0273	DSS Legacy	Railroad bed	19th Century (1800 - 1899) Not Evaluated	
44GV0274	Domestic	Camp, temporary	· · · · · · · · · · · · · · · · · · ·	
44GV0275	Domestic	Camp, temporary	Middle Archaic (6500 - 3001 B.C.)	Not Evaluated
44GV0279	DSS Legacy, Subsistence/A	Mill, Well	20th Century: 1st half (1900 - 1949)	Not Evaluated

VDHR ID#	Site Category	Site Type	Temporal Association	NRHP Status
	griculture			
44GV0281	DSS Legacy	Mill	20th Century: 2nd half (1950 - 1999)	Not Evaluated
44GV0282	Domestic, Subsistence/A griculture	Dwelling, single, Well	DHR Staff: <null> Eligible</null>	
44GV0283	Domestic	Dwelling, single	19th Century: 4th quarter (1875 - 1899)	Not Evaluated
44GV0287	Domestic	Dwelling, single	19th Century (1800 - 1899)	Not Evaluated
44GV0288	Domestic	Farmstead	20th Century (1900 - 1999)	Not Evaluated
44GV0289	Domestic, Funerary	Cemetery, Dwelling, single	19th Century (1800 - 1899), 20th Century (1900 - 1999) 18th Century: 4th quarter (1775 -	DHR Staff: Not Eligible
44GV0290	Domestic	Farmstead	1799), 19th Century: 1st quarter (1800 - 1825)	DHR Staff: Not Eligible
44GV0291	Domestic	Dwelling, single	20th Century (1900 - 1999)	Not Evaluated
44GV0292	Domestic	Farmstead	18th Century: 4th quarter (1775 - 1799), 19th Century (1800 - 1899), 20th Century (1900 - 1999)	Not Evaluated
44GV0293	Domestic, Subsistence/A griculture	Farmstead, Outbuilding	<null></null>	Not Evaluated
44GV0294	Domestic	Dwelling, single	19th Century: 2nd half (1850 - 1899), 20th Century: 1st half (1900 - 1949)	Not Evaluated
44GV0295	Domestic	Dwelling, single	19th Century (1800 - 1899)	Not Evaluated
44GV0296	DSS Legacy	Trash scatter	19th Century: 2nd half (1850 - 1899), 20th Century: 1st half (1900 - 1949)	Not Evaluated
44GV0297	Domestic	Dwelling, single	19th Century: 2nd half (1850 - 1899), 20th Century: 1st half (1900 - 1949)	Not Evaluated
44GV0298	DSS Legacy	Trash scatter	Prehistoric/Unknown (15000 B.C 1606 A.D.), 19th Century: 4th quarter (1875 - 1899)	Not Evaluated
44GV0299	Domestic	Dwelling, single	20th Century: 1st quarter (1900 - 1924)	Not Evaluated
44GV0300	Domestic, Funerary, Subsistence/A griculture	Cemetery, Dwelling, single, Outbuilding	19th Century: 1st quarter (1800 - 1825), 20th Century (1900 - 1999)	Not Evaluated
44GV0301	Domestic, DSS Legacy	Dwelling, single, Trash scatter	20th Century: 2nd/3rd quarter (1925 - 1974)	Not Evaluated
44GV0302	Domestic	Dwelling, single	20th Century: 1st half (1900 - 1949)	DHR Staff: Eligible
44GV0312	Domestic	Farmstead	20th Century (1900 - 1999)	Not Evaluated
44GV0340	DSS Legacy	Railroad bridge	19th Century: 4th quarter (1875 - 1899), 20th Century: 1st half (1900 - 1949)	DHR Staff: Not Eligible
44CV0272			Middle Archaic Period (6500 - 3001 B.C.E), Late Archaic Period (3000 - 1201 B.C.E), Early Woodland (1200	DHR Evaluation Committee:
44GV0373	Domestic Industry/Proc essing/Extract	Camp, base	B.C.E - 299 C.E) Eligible DHR Staff: Not	
44GV0378	ion	Lithic scatter	Pre-Contact	Eligible
44GV0394	Funerary	Cemetery	The New Dominion (1946 - 1991), Post Cold War (1992 - Present)	DHR Staff: Not Eligible

VDHR ID#	Site Category	Site Type	Temporal Association	NRHP Status
4463/0208	Domestic	Artifact scatter	Civil War (1861 - 1865), Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New Dominion (1946 - 1991), Post Cold War (1992 -	DHR Staff: Not
44GV0398 44GV0406	Domestic, Funerary	Cemetery, Dwelling, single	Present) Colony to Nation (1751 - 1789), Early National Period (1790 - 1829), Antebellum Period (1830 - 1860), Civil War (1861 - 1865), Reconstruction and Growth (1866 - 1916)	Eligible DHR Staff: Potentially Eligible
44GV0407	Domestic	Artifact scatter, Camp, base	Early Archaic Period (8500 - 6501 B.C.E), Middle Archaic Period (6500 - 3001 B.C.E), Late Archaic Period (3000 - 1201 B.C.E), Early Woodland (1200 B.C.E - 299 C.E), Middle Woodland (300 - 999 C.E), Late Woodland (1000 - 1606), Early National Period (1790 - 1829), Antebellum Period (1830 - 1860)	DHR Evaluation Committee: Not Eligible
44GV0409	Industry/Proc essing/Extract ion	Lithic scatter	Early Archaic Period (8500 - 6501 B.C.E)	DHR Evaluation Committee: Not Eligible
44GV0410 44GV0411	Industry/Proc essing/Extract ion	Lithic workshop Artifact scatter	Early Archaic Period (8500 - 6501 B.C.E) Early Woodland (1200 B.C.E - 299 C.E), Middle Woodland (300 - 999 C.E), Late Woodland (1000 - 1606)	DHR Evaluation Committee: Not Eligible DHR Staff: Not Eligible
44GV0415	Domestic	Dwelling, single	Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945)	DHR Evaluation Committee: Not Eligible
44GV0416	Industry/Proc essing/Extract ion	Lithic scatter	Pre-Contact Reconstruction and Growth (1866 -	DHR Staff: Not Eligible
44GV0418	Domestic	Dwelling, single	1916), World War I to World War II (1917 - 1945)	DHR Staff: Not Eligible DHR Staff: Not
44GV0419	Domestic	Artifact scatter	Pre-Contact	Eligible
44GV0420	Domestic	Dwelling, single	World War I to World War II (1917 - 1945)	DHR Staff: Not Eligible DHR Staff: Not
44GV0422	Domestic	Artifact scatter	Pre-Contact Reconstruction and Growth (1866 -	Eligible
44GV0423	Domestic	Artifact scatter	1916), World War I to World War II (1917 - 1945)	DHR Staff: Not Eligible
44GV0441	Domestic	Artifact scatter	Antebellum Period (1830 - 1860), Civil War (1861 - 1865), Reconstruction and	Not Evaluated

VDHR ID#	Site Category	Site Type	Temporal Association	NRHP Status
			Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New	
			Dominion (1946 - 1991)	
			Reconstruction and Growth (1866 -	
			1916), World War I to World War II	D
440370453	D	A	(1917 - 1945), The New Dominion	DHR Staff: Not
44GV0452	Domestic	Artifact scatter	(1946 - 1991)	Eligible DHR Staff: Not
44GV0453	Indeterminate	Artifact scatter	Pre-Contact	Eligible
			Reconstruction and Growth (1866 -	
			1916), World War I to World War II	
			(1917 - 1945), The New Dominion	DHR Staff: Not
44GV0454	Domestic	Artifact scatter	(1946 - 1991)	Eligible
44GV0455	Indeterminate	Artifact scatter	Pre-Contact	DHR Staff: Not Eligible
			Reconstruction and Growth (1866 -	
			1916), World War I to World War II	
446770476	- ·		(1917 - 1945), The New Dominion	DHR Staff: Not
44GV0456	Domestic	Artifact scatter	(1946 - 1991)	Eligible
			Colony to Nation (1751 - 1789), Early	DIID CL CC M
44CV0457	Domostio	A stife at a action	National Period (1790 - 1829),	DHR Staff: Not
44GV0457	Domestic	Artifact scatter	Antebellum Period (1830 - 1860)	Eligible

Table 4-5: Previously recorded archaeological sites within or adjacent to the project area for the Line 254 Clubhouse-Lakeview Rebuild project as specified in the VDHR Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia

Buffer(miles)	Considered Resources	VDHR#	Description
		44GV0095	Camp, temporary - Prehistoric/Unknown (15000 B.C 1606 A.D.)
		44GV0104	Camp, temporary, Cemetery - Middle Archaic (6500 - 3001 B.C.), 19th Century: 2nd half (1850 - 1899), 20th Century: 1st half (1900 - 1949)
0.0 (within or adjacent to	Archaeological Sites	44GV0106	Camp, temporary - Middle Archaic (6500 - 3001 B.C.)
ROW)		44GV0107	<null> - Prehistoric/Unknown (15000 B.C 1606 A.D.)</null>
		44GV0108	<null> - Prehistoric/Unknown (15000 B.C 1606 A.D.)</null>
			Camp, temporary - Prehistoric/Unknown (15000
		44GV0128	B.C 1606 A.D.)
		44GV0153	Camp, temporary - Middle Woodland (300 - 999 A.D.)

Buffer(miles)	Considered Resources	VDHR#	Description
			Camp, temporary - Prehistoric/Unknown (15000
		44GV0154	B.C 1606 A.D.)
			Camp, temporary - Prehistoric/Unknown (15000
		44GV0159	B.C 1606 A.D.)
		44GV0161	Camp, temporary - Late Woodland (1000 - 1606)
			Dwelling, single, Other - Historic/Unknown,
		44GV0162	Prehistoric/Unknown (15000 B.C 1606 A.D.)
		44GV0163	Camp, temporary - Prehistoric/Unknown (15000 B.C 1606 A.D.)
		113 10103	Camp - Middle Archaic (6500 - 3001 B.C.), Late Archaic (3000 -
		44GV0262	1201 B.C.), Woodland (1200 B.C 1606 A.D.)
		44GV0263	Camp - Prehistoric/Unknown (15000 B.C 1606 A.D.)
		44GV0264	Camp - Middle Archaic (6500 - 3001 B.C.)
		44GV0265	Camp - Middle Archaic (6500 - 3001 B.C.)
			Artifact scatter - Reconstruction and Growth (1866 - 1916),
		44GV0423	World War I to World War II (1917 - 1945)
			Artifact scatter - Reconstruction and Growth (1866 - 1916),
			World War I to World War II
		44GV0454	(1917 - 1945), The New Dominion (1946 - 1991)

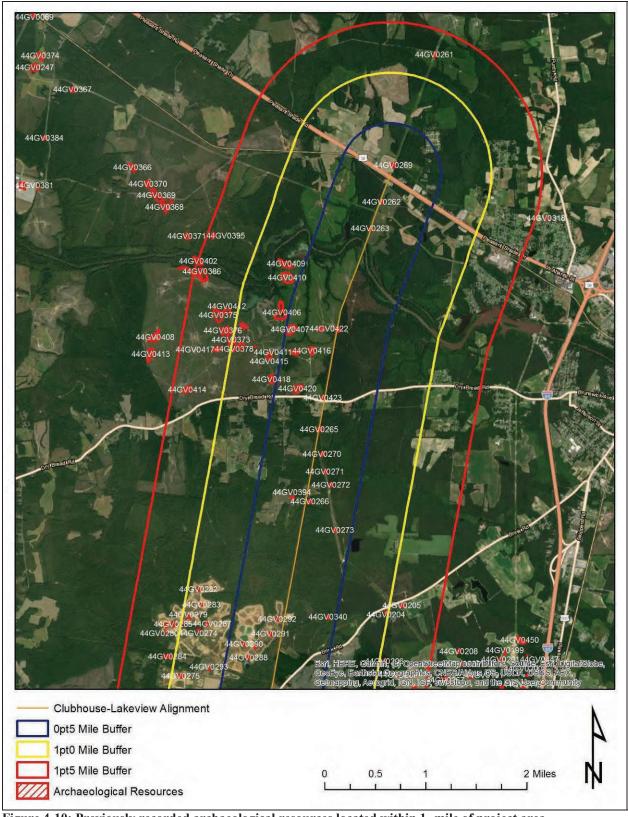


Figure 4-10: Previously recorded archaeological resources located within 1- mile of project area (northern portion. Source: VCRIS

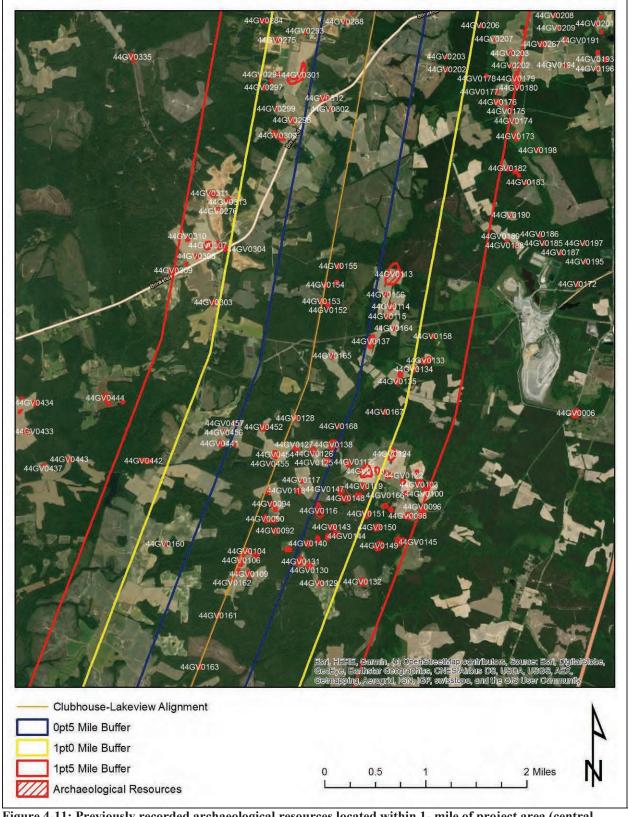


Figure 4-11: Previously recorded archaeological resources located within 1- mile of project area (central portion). Source: VCRIS

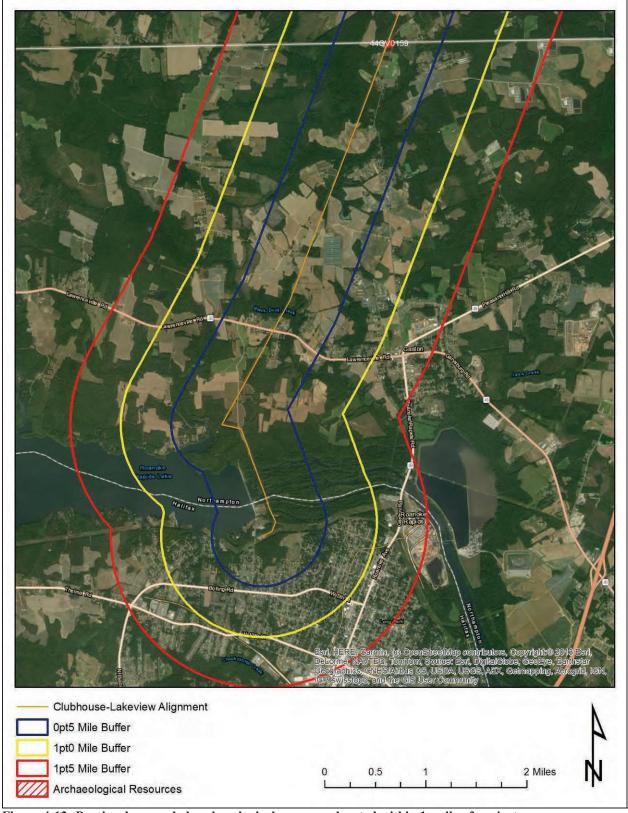


Figure 4-12: Previously recorded archaeological resources located within 1- mile of project area (southern portion). Source: VCRIS

NPS AMERICAN BATTLEFIELD PROTECTION PROGRAM (ABPP)

A review of the NPS ABPP records and maps prepared by the Civil War Sites Advisory Commission (CWSAC) revealed no portions of any noted battlefield are located within one mile of the project area.

5. RESULTS OF FIELD RECONNAISSANCE

In accordance with the VDHR guidelines for assessing impacts of proposed electric transmission lines on historic resources, each of the previously recorded historic architectural properties either listed or determined eligible for listing in the NRHP located within 1-mile or 0.5 miles of the project were field verified for existing conditions and photo documented. Archaeological sites were not subject to inspection or verification as part of this effort. The results of the field reconnaissance for each resource are summarized below.

Chambliss House (VDHR ID# 040-0010)

The Chambliss House, also known as Woodview, is a Greek Revival-styled dwelling believed to have been built in 1838. The home's first owner was Brigadier General John R. Chambliss, a noted Confederate Civil War commander who was killed in battle on August 16 1864. His grave is located on the property and marked by a marble slab given by General Robert E. Lee. The home was passed down through the Chambliss family, and remained owned by the family as of 1999. The home is set on a large rural property with a small collection of outbuildings. It represents an intact and notable example of early-nineteenth century architecture in the county, and is also significant for its association to the Chambliss family. The property was determined eligible for listing in the NRHP in 1999 and was subsequently subject to a historic rehabilitation tax credit project.

The Chambliss House is located on a 118-acre property at 1855 Pleasant Shade Drive (Route 58) in the Emporia vicinity of Greensville County. The home is set upon a slight knoll roughly one-quarter of a mile back from the road. It rests on a grassy home site shaded by mature trees with a line of vegetative screening along the front of the yard. The several associated outbuildings are set within the yard to the rear of the house and the building complex is bordered by open agricultural fields beyond.

The project area is located to the southeast of the Chambliss House. Although the corner of the property is located directly across US-58 from the northern terminus of the project alignment, the house itself is set over 0.26 miles away. The project's northern terminus is at an existing substation across US-58 from the property and extends away from the property through a wooded area to the south. Another portion of the existing transmission line extends north from the substation, across the road and through the agricultural fields in the eastern edge of the Chambliss House property.

In order to assess the potential impact of the proposed project, visual inspection and ground-based digital photography was conducted of the setting around the resource property with emphasis on views towards the project area to document existing setting, sitelines, and viewshed. This assessment found that the rural setting of the property is generally intact with some modern change and intrusion. US-58 which the home is located along is a twentieth century highway that is now a wide, four-lane divided highway. This route was built between the Chambliss House property and the nineteenth century Norfolk and Western Railroad corridor beyond. The driveway in front of the house historically crossed the railroad to Brunswick Road beyond, however, this length was removed when US-58 was built and the home no longer has

connectivity or visibility of the rail line and older road because of the highway and the bordering treeline. The setting and viewshed to the east of the house also includes the presence of an existing transmission line corridor that crosses through the fields to the east of the home. This power line was built in the early-twentieth century.

A substation was built along the line across US-58 from the Chambliss House property in the 1970s and is the beginning point of the Line 254 Clubhouse-Lakeview Rebuild project. The portion of the line extending to the south is included in the rebuild project, while the length to the north, including the portion that runs through the Chambliss House property will not be rebuilt or otherwise modified as part of this project. Inspection from the Chambliss House driveway and points along US-58 in front of the property revealed that the portion of the transmission line north of the highway that is not subject to this rebuild is visible from most vantage points. It crosses open agricultural field to the east of the house without visual obstruction. As it extends beyond the property to the north, it crosses through a treeline where it becomes screened from visibility. Inspection also revealed that the length of the line south of the substation and subject to this rebuild effort is not visible from most locations throughout and bordering the property. Both the substation and existing line are bordered by thick wooded areas to both sides that completely screen it from the homesite, driveway, and most publicly-accessible locations along US-58 with the exception of views from immediately beneath the existing transmission line corridor.

The intervening wooded areas that screen the project alignment from the house and property are spread across multiple properties and border the Norfolk and Western Railroad Corridor, Brunswick Road, and a large private property parcel beyond. None of these wooded are included within the project area or will be cleared or trimmed as part of the rebuild effort. As such, views from the house and property following the rebuild are likely to be similar, with no visibility of the rebuilt transmission line. The nearest transmission line structure to the property is located directly within the substation and will not be replaced as part of the rebuild. The existing structure, which is currently not visible, is a concrete monopole at 80-feet tall above ground level. The next three structures in proximity to the property are currently wood H-frame structures at 59, 69, and 67-feet tall respectively, and will be replaced with weathering steel Hframe structures at 61, 79, and 79-feet tall respectively. As the proposed increased height of these structures will be shorter than the existing 80-feet tall structure within the substation that is not currently visible, it is anticipated that these structures will likewise remain not visible. This was confirmed with photo simulation that reveals all proposed structures will remain beneath the treeline and not visible. At the third structure, the transmission line perpendicularly crosses another transmission line ROW which is also currently not visible from the property, and therefore it is anticipated that there will continue to be no visibility of the portion of the rebuild alignment beyond that corridor.

As such, the Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230kV Virginia Rebuild Project is not anticipated to increase visibility of the existing transmission line or otherwise introduce any new or substantially different character or qualities into the viewshed of or from the Chambliss House property. The project alignment is currently not visible from the home or property and will likely continue to be screened by intervening vegetation as the nearest structures will continue to be shorter than an existing substation structure that is not currently

visible. Therefore, it is D+A's opinion that the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project will have no more than a *minimal impact* on the Chambliss House.

Figure 5-1 depicts the location of the resource relation to the project alignment and viewshed buffers, and Figure 5-2 illustrates the location of structures to be replaced as part of this project in relation to the resource. Figure 5-3 illustrates the location and direction of all photographs and views. Figures 5-3 through 5-14 are representative photographs of the property, as well as those taken from locations within the property towards the project alignment.

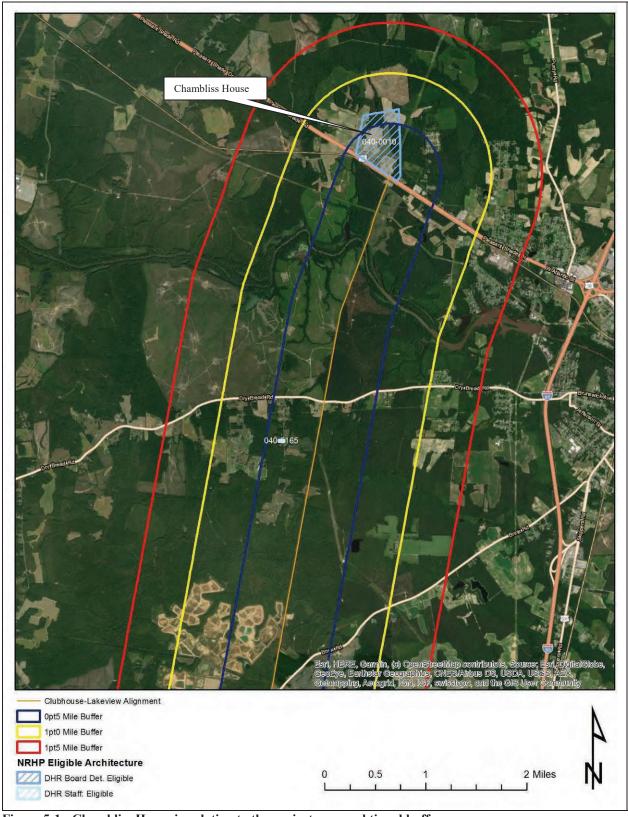


Figure 5-1: Chambliss House in relation to the project area and tiered buffers.



Figure 5-2: Chambliss House in relation to structure locations.



Figure 5-3: Location and directions of photographs (yellow) and photo simulations (green) from Chambliss House (blue) towards the project area (red). Existing transmission line not to be rebuilt or included in this effort shown in orange dashed line.



Figure 5-4: Photo location 1- View of Chambliss House front, facing northwest.



Figure 5-5: Photo location 2- View of Chambliss House setting from front, facing north.



Figure 5-6: Photo location 3- View of Chambliss House setting from US-58, facing northeast.



Figure 5-7: Photo location 4- View of Chambliss House setting from US-58, facing west.



Figure 5-8: Photo location 5- View of existing transmission line (not included in this rebuild project) crossing through Chambliss House property, facing north.



Figure 5-9: Photo location 6- View of existing transmission line (not included in this rebuild project) crossing through Chambliss House property, facing northeast.



Figure 5-10: Photo location 7- View of existing substation and project rebuild alignment across US-58 from Chambliss House property, facing south.

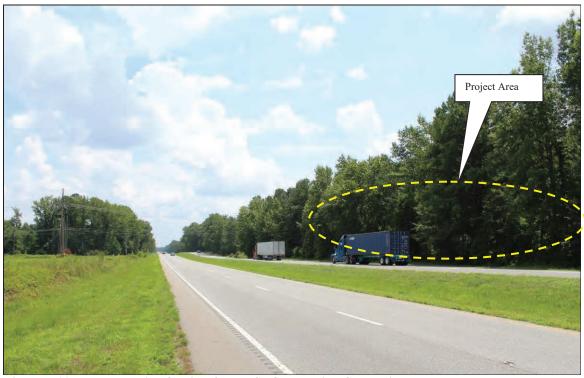


Figure 5-11: Photo location 8- View from US-58 bordering Chambliss House property towards project area (not visible) showing existing transmission line (not included in this rebuild project), facing east.



Figure 5-12: Photo location 9- View from US-58 in front of Chambliss House property showing existing transmission line (not included in this rebuild project), facing northeast.

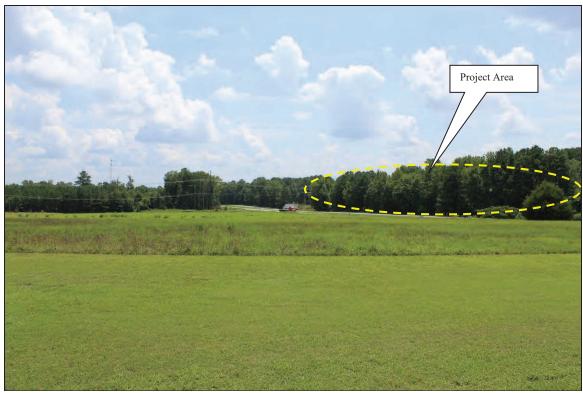


Figure 5-13: Photo location 10- View from Chambliss House homesite towards project area (not visible) showing existing transmission line (not included in this rebuild project), facing southeast.

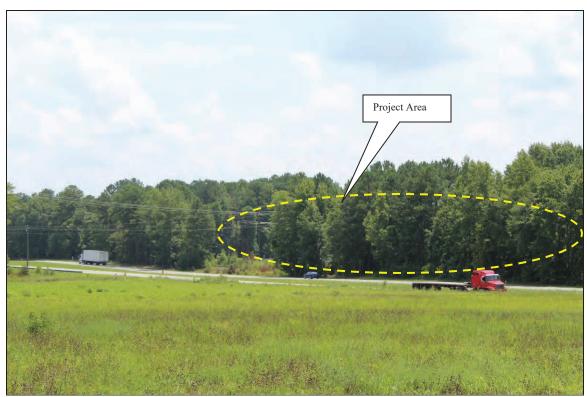


Figure 5-14: Photo location 11- Detail of view from Chambliss House homesite towards project area (not visible) showing existing transmission line (not included in this rebuild project), facing southeast.



Figure 5-15: Photo location 12- View from US-58 bordering Chambliss House property towards project area (not visible) showing existing transmission line (not included in this rebuild project), facing east

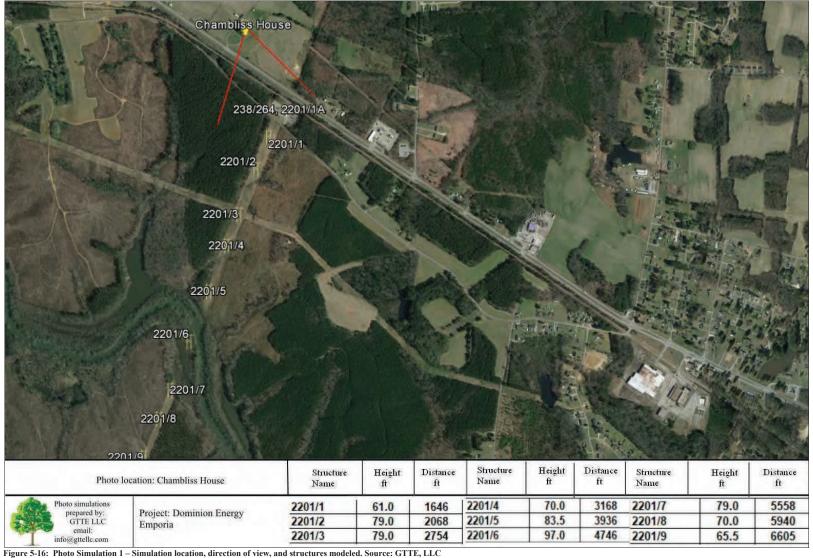




Figure 5-17: Photo Simulation 1 – Existing view from the Chambliss House. Source: GTTE, LLC

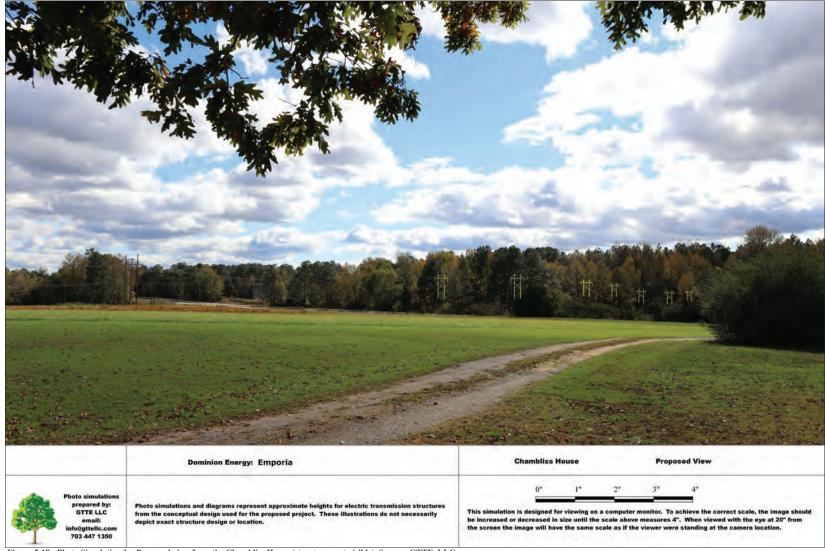


Figure 5-18: Photo Simulation 1 – Proposed view from the Chambliss House (structures not visible). Source: GTTE, LLC

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6. SUMMARY OF POTENTIAL IMPACTS

As part of this pre-application analysis of cultural resources for the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project, potential impacts to previously recorded historic properties listed or considered eligible for listing in the NRHP within the VDHR-defined buffered tiers were assessed in accordance with the VDHR guidelines. For the purposes of this analysis, an impact is one that alters, either directly or indirectly, those qualities or characteristics that qualify a particular property for listing in the NRHP and does so in a manner that diminishes the integrity of a property's materials, workmanship, design, location, setting, feeling, and/or association. With respect to transmission lines, direct impacts typically are associated with ground disturbance resulting from ROW clearing and structure construction. Indirect impacts typically are associated with the introduction of new visual elements or changes to the physical features of a property's setting or viewshed. According to VDHR guidance, project impacts are characterized as such:

- None Project is not visible from the property
- **Minimal** Occur within viewsheds that have existing transmission lines, locations where there will only be a minor change in tower height, and/or views that have been partially obstructed by intervening topography and vegetation.
- **Moderate** Include viewsheds with expansive views of the transmission line, more dramatic changes in the line and tower height, and/or an overall increase in the visibility of the route from the historic properties.
- Severe Occur within viewsheds that do not have existing transmission lines and where the views are primarily unobstructed, locations where there will be a dramatic increase in tower visibility due to the close proximity of the route to historic properties, and viewsheds where the visual introduction of the transmission line is a significant change in the setting of the historic properties.

With regards to architectural resources, one historic property that is either designated and NHL, listed in, or determined eligible for listing in the NRHP is located within defined study tiers. This includes the c.1838 Chambliss House which was determined eligible for listing in the NRHP in 1999 as part of a proposed rehabilitation tax credit project.

Field inspection, representative photographs, and photo simulation reveal that the project will be mostly to completely screened from view from all locations within and around the Chambliss House property. An existing transmission line crosses through an agricultural field on the Chambliss House property with unobstructed views from the house, however, the portion of the line to be rebuilt is across the road within a thickly wooded area that completely screens it from visibility and likely continue to do so. It is therefore D+A's opinion that the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project will have no more than a *minimal impact* on the Chambliss House.

Table 6-1: Potential impacts summary for architectural resources.

VDHR ID#	Resource Name	NRHP Status	Impact
040-0010	Chambliss House	NRHP- Eligible	Minimal

With regards to archaeology, there are 18 previously recorded sites within or immediately adjacent (within 100-feet of the centerline) to the project area. Of these, two sites have been determined not eligible for listing in the NRHP and the remaining 16 have not been formally evaluated. No archaeological survey or inspection was conducted as part of this effort. Reidentification and verification of site boundaries and eligibility should be conducted prior to any earth-moving or ground-disturbing activity associated with the Clubhouse-Dry Bread Line #2201 and Dry Bread- Lakeview Line #254 230kV Virginia Rebuild Project.

7. REFERENCES

National Park Service

2009 "Civil War Sites Advisory Commission Report Update and Resurvey," American Battlefield Protection Program

Virginia Cultural Resource Information System (VCRIS)

1991 Architectural Survey Form. Black Walnut. VDHR# 041-0006.

2009 Architectural Survey Form. Staunton River Bridge Battlefield. VDHR# 019-5190.

Virginia Department of Historic Resources

2008 Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia

Virginia Department of Historic Resources

2016 Virginia Cultural Resource Information System (VCRIS) database and GIS server.



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Rachel M Studebaker (Services - 6)

From: ImpactReview <impactreview@vof.org>
Sent: Thursday, October 8, 2020 1:26 PM

To: Nancy R Reid (Services - 6)

Subject: [EXTERNAL] RE: Virginia Rebuild Project Greensville County, Virginia

Attachments: 2020.10.08 Martha Little VOF.pdf

This is an EXTERNAL email that was NOT sent from Dominion Energy. Are you expecting this message? Are you expecting a link or attachment? DO NOT click links or open attachments until you verify them

Ms. Reid,

The Virginia Outdoors Foundation has reviewed the project referenced above and described in the attached document. As of 8 October 2020, there are not any existing nor proposed VOF open-space easements in the immediate vicinity of the project.

Please contact VOF again for further review if the project area changes or if this project does not begin within 24 months. Thank you for considering conservation easements.

Thanks, Mike

Mike Hallock-Solomon, AICP Virginia Outdoors Foundation

From: Nancy.R.Reid@dominionenergy.com < Nancy.R.Reid@dominionenergy.com >

Sent: Thursday, October 8, 2020 7:21 AM **To:** ImpactReview <impactreview@vof.org>

Subject: RE: Virginia Rebuild Project Greensville County, Virginia

Alert: This email originated from outside VOF

Dear Ms. Little,

Please find attached the information for the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project.

Most respectfully,

Nancy

Nancy Reid Siting & Permitting Specialist Electric Transmission 10900 Nuckols Rd Glen Allen, VA 23060 434.532.7579 cell CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

From: Scott Denny

To: Nancy R Reid (Services - 6)

Subject: [EXTERNAL] Re: Virginia Rebuild Project Greensville County, Virginia

Date: Thursday, October 15, 2020 3:10:30 PM

This is an EXTERNAL email that was NOT sent from Dominion Energy. Are you expecting this message? Are you expecting a link or attachment? DO NOT click links or open attachments until you verify them

Dear Ms. Reid:

The Virginia Department of Aviation has reviewed the information package provided in your October 8, 2020 email pertaining to the Clubhouse-Dry Bread and Dry Bread to Lakeview Line rebuild project. This project does not appear to be located within 20,000 linear feet of a public use airport. Therefore, unless any portion of this project will include a structure, temporary or permanent, that will reach a height of 200' above ground level, the submission of a 7460 form will not be required. If a structure, such as a crane, will be erected that reaches a height of 200' above ground level, a 7460 must be submitted to the Federal Aviation Administration to determine if the proposed development will result in the creation of a hazard to air navigation.

Please note that this email will serve as the Department's official response unless a copy of our comments are specifically requested on Department letterhead. Please let me know if you have any questions.

Sincerely,

S. Scott Denny Senior Aviation Planner Virginia Department of Aviation

On Thu, Oct 8, 2020 at 7:22 AM <u>Nancy.R.Reid@dominionenergy.com</u> < <u>Nancy.R.Reid@dominionenergy.com</u> > wrote:

Dear Mr. Denny,

Please find attached the information for the proposed Clubhouse-Dry Bread Line #2201 and Dry Bread-Lakeview Line #254 230 kV Virginia Rebuild Project.

Most respectfully,



Nancy Reid

Siting & Permitting Specialist

Electric Transmission

10900 Nuckols Rd

Glen Allen, VA 23060

434.532.7579 cell

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and or privileged and does not in any case represent a firm ENERGY COMMODITY bid or offer relating thereto which binds the sender without an additional express written confirmation to that effect. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error, and delete it. Thank you.

--

S. Scott Denny Senior Aviation Planner Virginia Department of Aviation 804-236-3638 scott.denny@doav.virginia.gov