

Virginia Department of Transportation
INTER-AGENCY COORDINATION MEETING
Joint Permit Application

DEQ

COE

VMRC

I. VDOT PROJECT INFORMATION

Route: 311	UPC#: 115493
VDOT Project Number: 6311-071-454	USGS Quadrangle: Brosville
City/County: Pittsylvania	VDOT City/County Code: 071
Contract Type: State	Project Charge: UPC 115493; 700 activity series
Planned Ad Date: 09/13/2022	Designer: Rosado, Raina A

II. TYPE OF SCOPING/COORDINATION: Permit Coordination

Permits Required: COE Individual; VDEQ Individual VWPP

III. VDOT CONTACTS

Permit Coordinator (VDOT District Contact)	District Environmental Manager (Authorized Agent)	VDOT (Applicant)
Name: Robert P. Condrey Address: 1201 E. Broad Street Richmond, VA 23219 Phone #: (804) 840-2095	Name: Kevin R Bradley Address: 4219 Campbell Avenue Lynchburg, VA 24501 Phone #: (434) 856-8288	Name: Lindsey S Hodges Address: 4219 Campbell Avenue Lynchburg, VA 24501 Phone #: (434) 856-8143

IV. PERMITTED ACTIVITY

The Department is proposing to construct the "Berry Hill Connector Road" on new alignment from the Oak Ridge Farms Road Interchange at Route 58 to Berry Hill Road in Pittsylvania County. The new road will be a two-mile long, two-lane divided highway with grading for a future four-lane divided highway and will provide access to the Berry Hill Industrial Park. The project has 15 wetland and stream crossings, impacting Childress Creek, tributaries to Childress Creek, tributaries to the Dan River, tributaries to McGuff Creek and associated wetlands. Total permanent wetland impacts are 89746 sf (2.06 acres) of forested wetland, 74961 sf (1.72 acres) of scrub-shrub wetland, and 9414 sf (0.22 acre) of emergent wetland. Total temporary wetland impacts are 23,222 sf (0.53 acres) of forested wetland, 15,579 sf (0.36 acres) of scrub-shrub wetland, and 2842 sf (0.07 acre) of emergent wetland. The total permanent stream impacts are 1915 lf and total temporary stream impacts are 360 lf. Total stream excavation is 10,611.5 sf (357.8 cy); permanent fill is 8772.2 sf (333.2 cy); temporary fill is 2000 sf (24.6 cy).

V. ENVIRONMENTAL ASSESSMENT (Avoidance and Impacts are described in greater detail in section VI and VII.)

	<i>Present</i>	<i>Impacts</i>		<i>Present</i>	<i>Impacts</i>
Federal Threatened/Endangered Species	Yes	*	Water of the U.S	Yes	Yes
State Threatened/Endangered Species	Yes	*	Wetlands	Yes	Yes
Anadromous fish	No	No	Riffle Pool Complexes	No	No
Trout	No	No	Other Special Aquatic Sites	No	No
Shellfish	No	No	100 Year Floodplain	No	No
Public Water Supply	No	No	Historic/Archeological Resources	No	No
Scenic Rivers	No	No	Air Quality Nonattainment Area	No	No
Navigable Waters	No	No	Tidal Waters/Wetlands:	No	No
Open Water > 1.0 Acre	No	No			

*Please refer to the T&E Report for T&E Species Impacts

VI. SUMMARY OF DETAILED ENVIRONMENTAL IMPACT INFORMATION
This project has multiple jurisdictional crossings.

General:

Latitude: 36°34'24" Longitude: 79°33'49" FEMA FIRM number: 51143C0605E
Nearest Community: Oak Ridge Surrounding Land Use: Forest, Agriculture
Basin: Roanoke River Basin Sub-basin: 4A. Roanoke River Sub-basin
Hydrologic Unit Code: 03010103

Engineering data for impacts to Waters of the US:

OHW elevation (feet): 547-621	Dredging/Excavation			Filling (Permanent):			Filling (Temporary):		
MLW elevation (feet): N/A	Streams	Open Water	Wetlands	Streams	Open Water	Wetlands	Streams	Open Water	Wetlands
Area (feet ²)	10611.5	0	0	8772.2	0	174121	2000	0	41643
Quantity (yd ³) below OHW	357.8	0	0	333.2	0	0	24.6	0	0
Quantity (yd ³) below MLW	0	0	0	0	0	0	0	0	0
Construction Method	MECHANICAL			MECHANICAL			MECHANICAL		

Stream Information:

Stream Name(s): Unnamed tributary to McGuff Creek, Unnamed tributary to Childress Creek, Unnamed tributary to Dan River, Childress Creek
Drainage Area (miles²): See Ind Crossing Data

Pool/Riffle/Flat ratio: See Ind Crossing Data
Average Depth (feet): See Ind Crossing Data

Substrate: See Ind Crossing Data
Average Width (feet): See Ind Crossing Data

OHWM Indicator(s): See Ind Crossing Data

DGIF Classification: Other (N/A)
Cowardin Classification: R4SB, R3UB

DEQ Classification: III. Non-tidal (Coastal & Piedmont) Section #: 3g Special Standards:

Linear Feet of Permanent Stream Impacts:

Perennial- 1511 Intermittent- 404 Ephemeral- 0 Riffle/Pool- 0

Conceptual Stream Mitigation:

Strategies Name	Site Name	Lat/Long	GSA	HUC	Debit	Payment
Roanoke River Stream Credits	Roanoke River Mitigation Bank	N/A/ N/A	03010101, 03010103, 03010104, 03010105	03010103	2285	\$0.00

Wetland Information:

Species identified: Liquidambar styraciflua, Pinus taeda, Pinus virginiana, Panicum virgatum, Dichanthelium scabriusculum, Dichanthelium scoparium

Cowardin Classification(s): PSS, PFO, PEM

Amount Disturbed(area -feet²)

	Emergent		Scrub/Shrub		Forested		Totals	
	Non-Tidal	Tidal	Non-Tidal	Tidal	Non-Tidal	Tidal	Non-Tidal	Tidal
Primary	9414	0	74961	0	89746	0	174121	0
Secondary	0	0	0	0	0	0	0	0
Temporary	2842	0	15579	0	23222	0	41643	0

Conceptual Wetland Mitigation:

Strategies Name	Site Name	Lat/Long	GSA	HUC	Debit	Payment
Banister Bend Wetland Compensation	Banister Bend	N/A/ N/A	03010101, 03010102; 03010103, 03010104, 03010105	03010105	301348	\$0.00

Other Natural Resource Information: N/A

Cowardin Classification(s):

Amount of Impacts

	L.F		S.F	
	Non-Tidal	Tidal	Non-Tidal	Tidal
Permanent	0	0	0	0
Temporary	0	0	0	0

Conceptual Other Mitigation: None Proposed

VII. PROJECT NARRATIVE:

Project purpose, need, and description:

The project involves the construction of a connector road extending from the existing interchange of Oak Ridge Farms Road (Route 1260) and the Danville Expressway (US Route 58) west to tie in with Berry Hill Road (US 311) in Pittsylvania County. This project will improve mobility, safety, functionality and connectivity primarily along the US Route 58 Corridor, and will reduce travel times associated with the developing Southern Virginia Mega Site at Berry Hill (Mega Site). The Mega Site is currently under development on 3,528 acres in southwestern Pittsylvania County, and will be a major regional employment center. The project will include the construction of two 12-foot lanes of roadway with 8-foot shoulders as Phase 1 of a multi-phased project. A future phase will upgrade to a four-lane roadway as traffic needs increase due to Mega Site build out. Grading and drainage installation for the ultimate typical section will be accomplished under this phase. Detailed Purpose and Need information can be found in Attachment H, with the Alternatives Analysis.

Proposed construction schedule:

The project is proposed to be advertised in September 2022. Construction should begin in early 2023, and is anticipated to take approximately 2.5 years to complete.

Project impacts (include a description of all impacts, permanent and temporary):

The project has 15 stream and wetland crossings, impacting Childress Creek, tributaries to Childress Creek, tributaries to the Dan River, tributaries to McGuff Creek and associated wetlands. Total permanent wetland impacts are 89746 sf (2.06 acres) of forested wetland, 74961 sf (1.72 acres) of scrub-shrub wetland, and 9414 sf (0.22 acre) of emergent wetland. Total temporary wetland impacts are 23,222 sf (0.53 acres) of forested wetland, 15,579 sf (0.36 acres) of scrub-shrub wetland, and 2842 sf (0.07 acre) of emergent wetland. The total permanent stream impacts are 1915 lf and total temporary stream impacts are 360 lf. See Attachment C for a table detailing the crossings and each impact area.

T&E Species (See Attachment F for additional documentation):

The Dan River is listed as T&E waters for the FESE James spinymussel, ST green floater and FPST Atlantic pigtoe. At it's closest impact area, the project is approximately 0.7 mile upstream of the Dan River. There are documented collections of the Atlantic pigtoe in the Dan River, over 2 river miles downstream of the nearest crossing. These Federal species (James spinymussel and Atlantic pigtoe) are not on the Official Species List in IPaC. A Site Assessment was done along Childress Creek from the Rt. 1260 crossing upstream towards the proposed road crossing. No mussels were seen, live or shells. *Corbicula fluminea* was not present. The habitat was a mixture of sand, gravel, cobble and bedrock with a forested canopy that had been logged within the past 5 years. Based on... See Attachment A.

Cultural Resources (See Attachment E for additional documentation):

Architectural and archaeological surveys were completed. VDOT has determined that all newly discovered sites (3 architectural, 1 archaeological) and archaeological isolated finds (5) are not eligible for the NRHP, and that no further work is recommended. DHR concurred on 5/13/20. Stip 2 5/14/20. See Attachment E for additional information.

VIII. PROJECT MITIGATION:

Project mitigation efforts including AVOIDANCE, MINIMIZATION, AND COMPENSATION:

Avoidance:

Design efforts have been made to use the smallest practicable horizontal and vertical roadway footprint to avoid and minimize the impact to wetlands and streams by using the steepest and practicable roadway grades, curves and fill slopes. To demonstrate this effort, the project was initially... See Attachment A.

Minimization:

All pipe culverts throughout the corridor have been countersunk and aligned with the existing stream's configurations to minimize channel tie-in lengths. The project design allows for stream diversions or pumping operations (including non-erodible cofferdams) to be used during construction to... See Attachment A.

Compensation (include functional assessment when applicable; see Attachment L for additional documentation):

Wetland impacts will be compensated for using credits from the Banister Bend Wetland Bank Advance Credit Purchase, and stream impacts requiring compensation will utilize the Roanoke River Mitigation Bank Advance Credit Purchase. The project will provide 179,492 sf (4.12 acres) for forested impact and 112,442 sf (2.58 acres) for scrub-shrub impacts and 9414 sf (0.22 acres) of emergent impacts for a total of 6.92 wetland... See Attachment A.

IX. EROSION AND SEDIMENT CONTROLS:

An erosion and sediment control plan will be prepared and implemented in compliance with the Erosion and Sediment Control Law, the Erosion and Sediment Control Regulations, and the annual erosion and sediment control standards and specifications approved by the Department of Conservation and Recreation.

X. STORMWATER MANAGEMENT STATEMENT:

Design of this project will be in compliance with the Stormwater Management Act, the Stormwater Management Regulations, and the annual stormwater management standards, and specifications approved by the Department of Conservation and Recreation.

XI. MATERIALS ASSESSMENT:

All fill material shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.

XII. FEMA STATEMENT:

The design of this project will be in compliance with all applicable FEMA-approved state or local floodplain management requirements.

XIII. DREDGE MATERIAL MANAGEMENT PLAN:

All dredge material will be removed to an approved, contained, upland location. The disposal area will be of sufficient size and capacity to properly contain the dredge material, to allow for adequate dewatering and settling out of sediment, and to prevent overtopping. The disposal area will be properly stabilized prior to placement of dredge material.

XIV. NEPA DOCUMENTATION: Not Required

Document type:

Date:

XV. CERTIFICATION (for SPGP/VWPP only):

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Applicant Signature: _____

Name of person signing above: _____
(print or type)

Title: _____ **Date:** _____

Authorized Agent Signature: _____

Name of person signing above: _____
(print or type)

Title: _____ **Date:** _____

XVI. ATTACHMENTS (Include all that apply):

- Narratives Continuation (See Attachment A)
- Project Maps [Vicinity, Topo, and FEMA Maps]
- Multi-crossings summary table
- Detailed Environmental Impact Information Sheet
- Permit Sketches (Plan views, section views including temporary and permanent impacts)
- Hydraulic Commentary
- Cultural Resources Information
- Threatened and Endangered Species Information (including VDOT T&E Report)
- Early Coordination Final IACM Comments
- Alternatives Analysis
- Wetland Delineation Documents
- Compensatory Mitigation
- Photographs
- USM Stream Assessment Form
- Jurisdictional Determination Form
- Signed Certification Statement
- SPGP Check List

Attachment A

Narratives Continuation

Attachment A - CONTINUATION:

T&E Species:

observations taken during the assessment, it is unlikely this project will impact native freshwater mussels in Childress Creek or tributaries. DGIF concurred 3/18/20 (See Attachment D). The Northern long-eared bat was identified in the Official Species List. Tree removal is required as part of the project. There are no known hibernacula or roost trees in the project vicinity. The Department is relying upon the findings of the 1/5/2016 Programmatic Biological Opinion for Final 4(d) Rule on the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions to fulfill our project-specific Section 7 responsibilities related to the NLEB. The project was submitted to USFWS using the online 4(d) decision key. See Attachment F for additional information.

Avoidance:

classified as a Rural Minor Arterial which had a maximum grade of 6%. During the project evaluation it was reclassified as a Rural Collector, which allows a maximum grade of 8%. This change resulted in allowing steeper grades and subsequently lowered the fill profile within the overall alignment. Additional avoidance and minimizations efforts realized by changing the road's classification allowed a decrease in the radius of the curve and steeper grade at Collie Road. This change avoided additional stream impacts and made it feasible to construct a retaining wall to avoid 100' of stream impact along the main alignment approaching Collie Road. During project evaluation, a 300' corridor was evaluated for natural resources. The project alignment has included minor alignment shifts within that corridor to avoid and minimize impacts to wetlands by staying on the higher ridge within the corridor to avoid creating isolated remnants of wetlands. To demonstrate this effort, there were 11.1 acres of wetlands identified in the 300' corridor and the project alignment impacts 4.0 acres of wetlands an avoidance of 7.1 acres of wetlands. In addition, there were 4,763 linear feet of stream identified in the 300' corridor and the project alignment impacts 1,915 feet of stream an avoidance of 2,848 linear feet of stream. The current alignment also avoids two known Cultural Resources, one north of the alignment and another one near the tie-in on the western end and impacts fewer property owners.

Minimization:

allow all instream activities (culvert construction, inlet/outlet protection installation, etc.) to take place in the dry. The project has incorporated non-erodible cofferdams for all stream diversions and/or pumping operations as well as temporary construction access within wetland areas throughout the project alignment. At the end of the project, these temporarily impacted areas will be restored to preconstruction conditions and environmental staff will verify the restoration of these temporary impact areas. Temporary wetland impact areas will be restored through the following measures: Clearing of vegetation shall be minimized to the greatest extent possible; Vegetation will be cut at ground level and stumps left in-place; No grubbing activities will take place in the temporary access areas; Equipment will work off of mats; Temporary access areas shall be restored to pre-existing contours; The upper 6 inches of soil shall be loosened prior to seeding; All wetland areas shall initially be seeded with a wetland seed mix and straw mulched; Once seeded, all temporary access areas shall remain undisturbed to allow the native vegetation to become established. Construction staging areas and locations of soil borrow/disposal areas will be in upland locations outside of wetlands, streams and their floodplains. In addition, stream/wetland areas adjacent to the project area that are not to be impacted shall be delineated and protected during construction with protective fencing for wetlands. Potential impacts from sedimentation during construction will be minimized through the design, implementation and maintenance of erosion and sediment control measures following the Virginia Erosion and Sediment Control Handbook (VESCH). These measures may include, but are not limited to: silt fence installation, temporary sediment traps and basins, and temporary and permanent seeding. In addition, construction of the project shall adhere to VDOT's Road and Bridge Specifications and Best Management Practices. The following shall be adhered to during construction: Open Burning (9 VAC 5-130 et seq.); Fugitive dust & emission control (9 VAC 5-50-60 et seq.).

Compensation:

credits. The project stream impacts were assessed using the USM and the project will provide 2,285 stream credits.