

## Preliminary Environmental Inventory

Project Information					
<b>IPM ID #:</b>	113126	<b>Date:</b>	04/07/2020	<b>District SERP Coordinator:</b>	Stuck, Kenneth
<b>Project Name:</b>	Pitchkettle Road Realignment	<b>Field Review Date:</b>	01/29/2020	<b>Field Review Conducted By:</b>	Hedges, Richard L
<b>Route:</b>	604	<b>City/County:</b>	Suffolk	<b>Zip code:</b>	
<b>Road Type:</b>	Urban	<b>Lat:</b>	36°44' 08"	<b>Long:</b>	-76°35' 49"
<b>VDOT Prj #:</b>	0604-133-R93, C501, P101, R201	<b>Project Administered by Local Government:</b>			Yes
<b>Limits From:</b>	Lake Meade	<b>Target Advertisement Date:</b>			07/22/2022
<b>Limits to:</b>	West Constance Road	<b>Funding Source:</b>			State
<b>Additional Project Description:</b>	This proposed project involves the realignment of Pitchkettle Road to include turn lane, signal upgrades, asphalt, curb & gutter, closed drainage system, stormwater management, sidewalk, and street lighting.				
<b>Project Type:</b>	Construction	<b>Location Of Work:</b>	Changes to existing alignment	<b>Road Conditions:</b>	Existing      Proposed
				<b>Pavement Width (ft)</b>	
				<b>Right-of-way-width (ft)</b>	
				<b>Bridge/drainage structure?</b>	None Specified
Resource Information					
Resource	Detailed Resource Information			Level Of Impact	
<b>Potential commercial, residential, or non-profit displacements</b>	#Commercial:		#Residential:	Cannot be Concluded in SERP	
	#Non-Profit:		#Industrial:		
	Comments: VDOT Documents - The proposed project involves a realignment of the existing roadway. Currently, the new alignment has not been specifically determined although it will be within the project area reviewed. At this time, it is not known if there will be any displacements. The locality will be responsible for coordination with the appropriate agencies for displacements.				
<b>Known hazardous materials/waste sites/landfills</b>	Recorded hazmat sites:	8		Cannot be Concluded in SERP	
	Observed or potential sites:	0			

DEQ's Real Estate Search Information online database provided a list of hazardous waste notifiers, solid waste management facilities, CERCLA sites, and environmental incidents within the project area. These databases were searched for potential impacts to known hazardous material sites on 01/22/2020. This search resulted in the identification of no hazardous material sites within the project area.

Comments: DEQ 2/26/2020 - DEQ's Division of Land Protection and Revitalization (DLPR) staff conducted a search (500 foot radius) of solid and hazardous waste databases (including petroleum releases) to identify waste sites in close proximity to the project areas. DLPR staff has reviewed the submittal and has the following comments: Hazardous Waste/RCRA Facilities - none in close proximity of the project area. CERCLA Sites - none in the zip code of the project area. Formerly Used Defense Sites (FUDS) - none in close proximity of the project area. Solid Waste - none in close proximity of the project area. Virginia Remediation Program (VRP) - none is close proximity of the project area. Any soil that is suspected of contamination or wastes that are generated must be tested and disposed of in accordance with applicable Federal, State, and local laws and regulations. Some of the applicable state laws and regulations are: Virginia Waste Management Act, Code of Virginia Section 10.1-1400 et seq.; Virginia Hazardous Waste Management Regulations (VHWMR)(9VAC 20-60); Virginia Solid Waste Management Regulations (VSWMR)(9VAC 20-81); Virginia Regulations for the Transportation of Hazardous Materials (9VAC 20-110). Some of the applicable Federal laws and regulations are: the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Section 6901 et seq., and the applicable regulations contained in Title 40 of the Code of Federal Regulations; and the U.S. Department of Transportation Rules for Transportation of Hazardous Materials, 49 CFR Part 107. Please note that DEQ encourages all construction projects and facilities to implement pollution prevention principles, including the reduction, reuse, and recycling of all solid wastes generated. All generation of hazardous wastes should be minimized and handled appropriately. If you have any questions or need further information, please

contact Carlos Martinez at (804) 698-4575. VDOT HazMat 1-22-2020 - This is a locally administered project and the locality will make the Hazardous Materials clearance prior to advertisement.

<p><b>Known underground storage tanks</b></p>	<p>Recorded tank sites: 33</p> <p>Observed or potential sites: 0</p> <p>DEQ's Leaking Underground Storage Tank database is contained in VDOT'S GIS Integrator under DEQ Petroleum Release Sites. This database was searched for potential impacts to known underground storage tanks on 01/22/2020. This search resulted in the identification of no underground storage tanks within the project area.</p> <p>Comments: DEQ 2/26/2020 - Division of Land Protection and Revitalization (DLPR) staff conducted a search (500 foot radius) of solid and hazardous waste databases (including petroleum releases) to identify waste sites in close proximity to the project area. DLPR staff has reviewed the submittal and offers the following comments: Petroleum Releases - none in close proximity of the project area. VDOT HazMat 1/22/2020 - This is a locally administered project and the locality will make the Hazardous Materials clearance prior to advertisement.</p>	<p>Cannot be Concluded in SERP</p>
<p><b>Air quality</b></p>	<p>Recorded Area : Maintenance area</p> <p>Volatile Organic Compound Y control area:</p> <p>Comments: DEQ Air (02/26/2020)- DEQ Air 2/26/2020 - During execution of the project, following Virginia Air regulations may be kept in view: 9 VAC 5-40-5600 et seq. - Open Burning, 9 VAC 5-50-60 et seq. - Fugitive Dust Emissions. In addition, all precautions are necessary to contain emissions of volatile organic compounds (VOC) and oxides of nitrogen (NOX) during project execution.</p>	<p>Cannot be Concluded in SERP</p>
<p><b>Public parks and recreation areas</b></p>	<p>Parks: Lake Kilby Recreation areas:</p> <p>LWCF Funds: No</p> <p>DCR's Virginia Outdoors Plan was searched for potential impacts to public parks and recreation areas. These resources are not present within or adjacent to the project area.</p> <p>Comments: VOP did not identify any public recreational areas</p>	<p>No Impact</p>

	within the project area.	
<b>Public waterfowl/wildlife refuges</b>	<p>Refuges: Virginia Land Holdings:</p> <p>VDGIF's online Fish and Wildlife Information Service database and DCR's Virginia Outdoors Plan was searched for potential impacts to public waterfowl/wildlife refuges and Virginia Land holdings. These resources are not present within or adjacent to the project.</p> <p>Comments: DGIF database search did not identify any wildlife refuges or Virginia Land holdings within 2.0 mile of the project area.</p>	No Impact
<b>Agricultural/forestal districts</b>	<p>Number of agricultural districts: 0</p> <p>Number of forestal districts: 0</p> <p>Anticipated # of acres impacted in Agricultural/forestal operation:</p> <p>Anticipated # of acres impacted in Agricultural/forestal district:</p> <p>Comments: VDOT Documents - GIS Integrator did not identify any agricultural/forestall districts within the project's area of potential effect.</p>	No Impact
<b>Farm land</b>	<p>Name or Location of farm:</p> <p>Acres impacted:</p> <p>Comments: VDOT Documents - GIS Integrator identified the project area as containing prime farmlands. The locality will be responsible for coordination with the Virginia Department of Agriculture to make a determination.</p>	Cannot be Concluded in SERP
<b>Forest land</b>	<p>Name or Location of forest:</p> <p>Acres impacted:</p> <p>Comments: DOF ( )- DOF ( ) - VDOT Documents - GIS Integrator identified forest land within one mile of the project area. The locality will be responsible for coordination with the Department of Forestry to make a determination. DOF has not provided comments.</p>	Cannot be Concluded in SERP
<b>Existing open space easement</b>	<p>Number and locations of easements:</p> <p>Comments: VOF ( )- VOF ( ) - VDOT Documents - GIS Integrator did not identify existing open space easements within 1.0 mile of the project area.</p>	No Impact
<b>Geology of site</b>	<p>Location of areas of concern:</p>	Cannot be Concluded in SERP

Comments: DMME ()- DMME () - VDOT Documents - GIS Integrator identified the following features: Chesapeake Group, Shirley Formation, Charles City Formation, Holocene alluvium, and Chuckatuck Formation. The locality will be responsible for coordination with the Department of Mines, Minerals, and Energy to make a determination. DMME has not provided comments.

**Public water supply**

Location of public water supply:

VDH's public water supply information is contained in VDOT's GIS Integrator under Surface Water Intake, Surface Water Intake Watersheds, Wells and Springs, and Wells and Springs Protection Zones. This database was searched for potential impacts to known public water supplies on 01/22/2020. This search resulted in the identification of potential for public water supplies within the project area.

Comments: VDH-ODW 2/6/2020 - The Virginia Department of Health Office of Drinking Water has reviewed the project. Here are our comments as they relate to the proximity to public drinking water sources (groundwater wells, springs, and surface water intakes). Potential impacts to public water distribution systems or sanitary sewage collection systems must be verified by the local utility. The following public groundwater wells are located within a 1 mile radius of the project site: PWS ID Number 3740600 Portsmouth Well No. 4; PWS ID Number 3740600 Portsmouth Well No. 3. The following surface water intakes are located within a 5 mile radius of the project site: Pitchkettle Raw Water, Lake Meade, Lake Kilby, Western Branch and Lake Prince. The project is within the watershed of the following public surface water sources (facilities where the project falls within 5 miles of the intake and is within the intake's watershed: Pitchkettle Raw Water. Best Management Practices should be employed, including Erosion & Sedimentation Controls and Spill Prevention Controls & Countermeasures on the project site. Materials should be managed while on site and during transport to prevent impacts to nearby surface water. VDOT Documents - Potential impacts to public water distribution systems or sanitary sewage collection

Cannot be Concluded in SERP

systems must be verified by the local utility. The locality will be responsible for coordination with the local utility to make a determination.

**Scenic resources**

Wild and scenic rivers:  
 Virginia Byways:  
 DCR's Virginia Outdoors Plan was searched for potential impacts to Wild and Scenic Rivers. Virginia Byways Map was searched for potential impacts to State Scenic Byways. These resources are not present within or adjacent to the project area.  
 Comments: According to the review of the byways map and the VOP, no wild or scenic rivers or scenic byways were identified in the project area.

No Impact

**Threatened or endangered species**

DGIF identified a FE, FT, SE or ST terrestrial or aquatic species in their Collections database within a 2 mile radius of the project, therefore the project is under review by VDOT's Biologist : N

DCR identified a FE, FT, SE or ST plant or insect species in the VDACS/DCR database, therefore the project is under review by VDOT's Biologist : N

VDOT's Biologist has reviewed the available information and determined the Level of Impact at this stage : N

Comments: DCR/VDACS( )DCR/VDACS ( ) - VDOT Documents - Coordination with DCR was not required since there were no natural heritage sites located in a 100 foot radius within the project area.

VDOT (01/22/2020 )-A two-mile radius search was conducted to identify any threatened or endangered species.

The following T&E species are documented within the 2 mile search radius - - Source: T&E Form.  
 Anadromous fish, Bald Eagle

DGIF (03/20/2020 )-DGIF - Based on the project scope, and VDOT photos we do not anticipate the project to result in adverse impact to resources under our purview, provided strict adherence to these recommendations. According to VDOT, an alternatives analysis will be done by the locality. The alignment alternatives were not provided with SERP. We recommend the locality perform an Initial Project Assessment for each alternative. For guidance pertaining to development of an Initial Project Assessment (IPA), please see our website: <https://www.dgif.virginia.gov/environmental-programs/fish-and-wildlife-information-section/>. We will review the IPA and provide comments as appropriate. If wetland or stream impacts become necessary, we anticipate a Joint Permit Application will be distributed for agency review. We will review the JPA and provide comments as

Cannot be Concluded in SERP

appropriate. If tree removal or forest management is anticipated, project design and construction should adhere to our standard protocols for bat habitat assessment and protection at: <http://www.dgif.virginia.gov/wildlife/bats/little-brown-bat-tri-colored-bat-winter-habitatroosts-application/> and: <https://www.dgif.virginia.gov/wildlife/bats/northern-long-eared-bat-application/>. Incidental take and best management practices to protect bats. In addition, the project should incorporate the recommendations in the Department's Guidance Document on Best Management Practices for Conservation of Little Brown Bats and Tri-Colored Bats, at: [https://www.dgif.gov/wp-content/uploads/LBBA\\_TCBA\\_Guidance.pdf](https://www.dgif.gov/wp-content/uploads/LBBA_TCBA_Guidance.pdf) . If the project proponent elects not to adhere to these recommendations, they may opt to prepare a Conservation Plan to address incidental take of these state-endangered bats. For additional guidance we recommend the proponent refer to our Best Management Practices referenced above, and contact DGIF's Bat Biologist, Rick Reynolds, at (540) 248-9360. We recommend strict adherence to E&S controls during all land-disturbing activities, and disposal of all debris at a suitable upland site. VDOT Documents - The locality will be responsible for coordination with the resource agencies to make a determination.

<p><b>Natural heritage resources</b></p>	<p>Documented? :</p> <p>Site visit performed by DCR? :</p> <p>Date Site visit performed? :</p> <p>Comments: DCR (-) - DCR (-) - VDOT Documents - Coordination with DCR was not required since there were no natural heritage sites located in a 100 feet radius within the project area.</p>	<p>No Impact</p>
<p><b>Trout waters</b></p>	<p>Location :</p> <p>A search of VDGIF's online Fish and Wildlife Information Service database revealed no trout waters within 2 miles of the project area.</p> <p>Comments: DGIF database search did not identify any trout water locations within 2.0 mile of the project area.</p>	<p>No Impact</p>
<p><b>Anadromous fish</b></p>	<p>Location : Shingle Creek, Nansemond River</p> <p>A search of VDGIF's online Fish and Wildlife Information Service database revealed the above listed anadromous fish waters within 2 miles of the project area.</p> <p>Comments: DGIF database search identified Shingle Creek and Nansemond River as anadromous fish locations within 2.0 mile of the project area. The locality will be responsible for coordination with the resource</p>	<p>Cannot be Concluded in SERP</p>

	agencies to make a determination.	
<b>Known shellfish grounds</b>	Location : Comments: VMRC was not contacted for the purpose of this project as it does not involve a waterbody with a drainage area exceeding five square miles.	No Impact
<b>100-year floodplain areas</b>	FEMA FIRM Community Panel Number : 5101560095D , 5101560115E , 5101560230E Within 100-year floodplain ? N Comments: The project termini is located in Zone X.	
<b>Existing public access to waterways</b>	Access Exist? : N Recreation Use Bridge There is no bridge. Comments: Access to public waterways is unavailable in the project area.	No Impact
<b>Federal Property</b>	Name or Location : Comments: VDOT Documents - This project does not involve federal property.	No Impact
<b>Historic resource</b>	Previously recorded architectural resources ? : Yes Previously recorded archaeological resources ? : No Area of Potential Effects : The APE is the geographic area within which a project may cause alterations to the character or use of historic properties, if any are present. For archaeology, the APE is the limits of ground-disturbing activities, including all easements - construction, drainage, utility, etc. For architecture, the APE is the vicinity in which the project may diminish the feeling or setting. Effect determination : Cannot Be Concluded in SERP Studies Needed to ID Historic Properties : Comments : It will be the responsibility of the locality to consult directly with the VDHR to resolve issues concerning project effects on historic properties.	Cannot Be Concluded in SERP
<b>Water quality permits</b>	Streams involved? N If yes, name of stream(s): If yes, streamflow is: Wetlands involved? : N If yes, amount of impact: Are permits required? : N	



	If yes, type of permit required :	Cannot be Concluded in SERP
	Comments : VMRC (-)	
	DEQ-Water : (02/26/2020)-Based on the scope of work, expect minimal water quality impacts. An onsite survey should be conducted to determine the absence or location, extent, and type of wetlands or waterbodies present. Avoid and minimize impacts to surface waters to the greatest extent practicable. Based on the information provided, a VWP permit will not likely be required for the proposed project.	
	VDOT Comments : Based on a review of VDOT's Geographic Information System, streams or wetlands are mapped in the vicinity of the project. The Locality/PPTA Contractor administering this project is responsible for verifying the permit needs of the project. The Locality/PPTA Contractor is also responsible for acquiring and complying with all applicable water quality permit requirements. Information on how to comply with these requirements can be found at <a href="http://www.virginiadot.org/business/locally_administered_projects_manual.asp">http://www.virginiadot.org/business/locally_administered_projects_manual.asp</a> .	

**Overall Project Comments:**

The findings in this PEI are a preliminary step in gathering environmental information about the human and natural resources in the project study area. Continuing coordination with agencies will be necessary to verify further need for studies, surveys, permit types, and clearances. The PEI is not a substitute for the studies and agency coordination necessary to identify specific project impacts. The findings in this PEI are a preliminary step in gathering environmental information about the human and natural resources in the project study area. Continuing coordination with the agencies will be necessary to verify further need for studies, surveys, permit types, and clearances. The PEI is not a substitute for the studies and agency coordination necessary to identify specific project impacts. Project design will include all practicable measures to minimize harm to threatened or endangered species. Project design will include all practicable measures to avoid encroachment on wetlands, and if not possible, minimize those encroachments to the maximum extent practicable. Strict erosion and sediment control measures are employed and monitored by VDOT on all road construction projects. This project will be constructed in accordance with the Erosion and Sediment Control Laws and with the Stormwater Management Regulations to ensure the protection of public waters.