

Mountain Valley Pipeline Project

Docket No. CP16-10-000

Attachment DR5 Alternatives 3d

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**Comparison of the Modified Variation 250
and the Proposed Route**

Feature	Modified Variation 250	Proposed Route
General		
Total length (miles)	3.2	3.0
Length adjacent to existing right-of-way (miles)	0.5	0.0
Land disturbed within construction right-of-way (acres) <u>a/</u>	48.6	45.9
Land disturbed within operation right-of-way (acres) <u>a/</u>	19.5	18.4
Non-typical work areas required (acres)	0.0	0.0
Land Use		
VADCR Slussers Chapel Conservation Site crossed (miles)	2.4	2.9
National Forest System lands crossed (miles)	2.3	0.0
National Forest Wilderness Area crossed (miles)	0.0	0.0
Residences within 50 feet of construction workspace (number)	0	0
Agricultural land affected (acres)	0.0	0.0
Populated areas within 0.5 mile (number) <u>g/</u>	0	0
Landowner parcels crossed (number)	9	16
Resources		
Forested land crossed (miles)	2.7	2.7
Forested land affected during construction (acres)	41.3	41.2
Interior Forest affected during construction (acres)	44.6	36.4
Known habitat for federally-listed species (acres) <u>e/</u>	0.0	0.0
Known archaeological or historic sites within 0.5 mile (number) <u>h/</u>	4	4
Wetlands (NWI) crossed (number) <u>b/</u>	0	0
Forested wetlands (NWI) crossed (number) <u>c/</u>	0	0
Forested wetlands (NWI) affected (acres) <u>c/</u>	0.0	0.0
Perennial waterbody crossings (number) <u>b/</u>	0	0
Intermittent waterbody crossings (number) <u>b/</u>	3	4
Major waterbody crossings (crossing width > 100 feet) (number)	0	0
Total length of all perennial waterbody crossings (feet) <u>f/</u>	0	0
Surface waters designated as public drinking water supply crossed (number)	0	0
Springs and domestic water supply wells within 150 feet of the centerline (number)	0 <u>d/</u>	1
Steep slope crossed (miles)	2.0	1.4
Side slope crossed (miles)	2.4	1.6
Shallow bedrock crossed (miles)	1.6	1.5
Landslide potential crossed (miles)	3.2	3.0
Karst (miles) <u>c/</u>	0	0
Known karst features, sinkholes, or caves within 50 feet of the construction right-of-way (number)	1 <u>d/</u>	22

Notes:

- a/ Assuming 125-foot-wide construction right-of-way and 50-foot-wide operation right-of-way.
- b/ NWI and NHD data used in order to provide a common comparison between the route adjustment and proposed route since field surveys were not conducted along the route adjustment.
- c/ National Atlas map: Engineering aspects of karst, by William E. Davies and others, 1984.
- d/ Not field delineated, except where variation is within the study area of the proposed route.
- e/ Potential Indiana bat and Virginia Tier 1 Habitats.
- f/ using estimated average crossing length of 20 feet for NHD perennial waterbodies.
- g/ City or town limits as shown in Environmental Systems Research Institute (ESRI) data.
- h/ sites identified during project-specific field surveys, which includes only the very start and end of the variation route.