

Mountain Valley Pipeline Project

Docket No. CP16-10-000

Attachment DR5 Alternatives 2a

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(Updated March 2017)**

**Comparison of Alternatives in the Area of Slussers Chapel Conservation Site
and the October 2016 Proposed Route**

Feature	DCR Slussers Chapel Variation	Alternative 250	October 2015 Proposed Route	October 2016 Proposed Route
General				
Total length (miles)	6.8	6.3	6.2	6.6
Length adjacent to existing right-of-way (miles)	1.6	0.1	2.7	0.1
Land disturbed within construction right-of-way (acres) <u>a/</u>	102.5	95.7	94.4	99.9
Land disturbed within operation right-of-way (acres) <u>a/</u>	41.0	38.3	37.8	40.0
Non-typical work areas required (acres)	0.0	0.0	0.0	0.0
Land Use				
VADCR Slussers Chapel Conservation Site crossed (miles)	2.3	2.7	3.1	3.0
National Forest System lands crossed (miles)	2.54	0.04	0.05	0.04
National Forest Wilderness Area crossed (miles)	0.0	0.0	0.0	0.0
Residences within 50 feet of construction workspace (number)	0	0	0	0
Agricultural land affected within construction right-of-way (acres)	9.6	9.6	32.2	9.6
Populated areas within 0.5 mile (number) <u>g/</u>	0	0	0	0
Landowner parcels crossed (number)	14	21	30	23
Resources				
Forested land crossed (miles)	5.1	5.5	3.6	5.7
Forested land affected during construction (acres)	78.5	82.3	54.2	86.5
Interior Forest affected during construction (acres)	86.1	78.7	35.1	14.2
Known habitat for federally-listed species (acres) <u>b/</u>	0.1	0.1	2.2	0.1
Known archaeological or historic sites within 0.5 mile (number)	8	9	16	9
Wetlands (NWI) crossed (number) <u>c/</u>	1	1	1	1
Wetlands (NWI) crossed (feet) <u>c/</u>	44	44	44	44
Forested wetlands (NWI) crossed (number) <u>c/</u>	0	0	0	0
Forested wetlands (NWI) affected (acres) <u>c/</u>	0.0	0.0	0.0	0.0
Perennial waterbody crossings (number) <u>c/</u>	0	0	0	2
Intermittent waterbody crossings (number) <u>c/</u>	2	3	7	6
Major waterbody crossings (crossing width > 100 feet) (number)	0	0	0	0

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Total length of all waterbody crossings (feet) <u>d/</u>	40	30	70	60
Surface waterbodies designated as public drinking water supply crossed (number)	0	0	0	0
Springs and domestic water supply wells within 150 feet of the centerline (number)	0 <u>e/</u>	1 <u>e/</u>	0	1
Steep slope crossed (miles)	1.6	1.9	2.1	1.9
Side slope crossed (miles)	3.3	2.1	2.2	2.2
Shallow bedrock crossed (miles)	4.5	3.5	3.4	3.5
Landslide potential crossed (miles)	6.8	6.3	6.2	6.6
Karst (miles) <u>f/</u>	0.0	0.0	0.0	0.0
Known karst features, sinkholes, or caves within 50 feet of the construction ROW (number)	70	78	317	84

Notes:

a/ Assuming 125-foot-wide construction right-of-way and 50-foot-wide operation right-of-way.

b/ Potential Indiana bat and Virginia Tier 1 Habitats.

c/ NWI and NHD data used in order to provide a common comparison between the route adjustments and proposed route since field surveys were not conducted along the route adjustments. Exception is for perennial waterbodies crossed by the October 2016 Proposed Route which is based on field survey data.

d/ using estimated average crossing length of 10 feet for NHD waterbodies.

e/ Field survey only conducted for the portion of alternative that shares same route as Proposed Route.

f/ USGS, 2014. Mineral Resources Program data available at <https://mrdata.usgs.gov/geology/state>.

g/ City or town limits as shown in Environmental Systems Research Institute (ESRI) data.