

**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
Docket No. CP16-10-000**

**Responses to Environmental Information Request  
Dated December 24, 2015**

**Federal Energy Regulatory Commission**

**Request:**

**General**

1. File copies of, or provide an anticipated submittal date for, all outstanding plans and studies that Mountain Valley indicated were pending, such as, but not limited to:

- h. Migratory Bird Habitat Conservation Plan;

**Response submitted January 15, 2016:**

The Project Migratory Bird Habitat Conservation Plan is in development. Mountain Valley expects to submit it by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The Migratory Bird Habitat Conservation Plan is attached as Attachment General 1h. This plan includes privileged information and is labeled **“Contains Privileged Information – Do Not Release.”**

- j. Mine Subsidence Plan;

**Response submitted January 15, 2016:**

The Project Mine Subsidence Plan is in development. Mountain Valley expects to submit it by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The Mining Area Construction Plan is attached as Attachment General 1j. This plan includes privileged information and is labeled **“Contains Privileged Information – Do Not Release.”** Note that any response that cites to a Mine Subsidence Plan should reference the attached Mining Area Construction Plan.

- q. Plans of Development for crossing the Jefferson National Forest.

**Response submitted January 15, 2016:**

The Preliminary Plan of Development for the Jefferson National Forest is in development. Mountain Valley expects to submit it to the United States Forest Service and FERC by January 22, 2016.

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**Supplemental Response submitted January 27, 2016:**

Mountain Valley submitted the Preliminary Plan of Development for the Jefferson National Forest to the United States Forest Service on January 22, 2016. A copy is attached as Attachment General 1q.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 1 – General Project Description**

10. Contractor yard acreages in table 1.3-4 sum to 147.0 acres, while tables 1.3-1 and 8.1-2 indicate that 228.3 acres would be impacted during construction of the contractor yards. Resolve the apparent discrepancy. In addition, forested land is included with several of the proposed contractor yards. Indicate whether trees would be cut to prepare the contractor yards. If trees would be cut, provide site-specific justification for the clearing.

**Response submitted January 15, 2016:**

Table 1.3-4 has the correct acreage for contractor yards. Mountain Valley expects to file updated Tables 1.3-1 and 8.1-2 by January 22, 2016.

The locations of the pipe/laydown yards are analyzed and selected for access to public roads and the pipeline. Mountain Valley Pipeline has analyzed and reduced work areas in forested areas to the greatest extent possible. However, at the locations where there are trees, Mountain Valley Pipeline will need to be cleared to provide adequate access area for clean storage, temporary trailer locations, and access to stored pipe. Site specific justification for pipeyards in which tree clearing is required is provided in Attachment RR1-10.

**Supplemental Response submitted January 27, 2016:**

Updated Tables 1.3-1 and 8.1-2 are included as Attachment RR1-10a and Attachment RR1-10b, respectively.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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20. Quantify impacts, to the extent possible in tabular format, on specific resources from the projects listed on 1.10-1. For each of the projects within the same watersheds as the Mountain Valley pipeline route, list the amount of impact (e.g., acreage, water volumes, sound decibels), and the duration of impact (time period, calendar year/months), for the resources listed below:
- a. erodible soils and prime farmland (by acres);
  - b. geological hazards, including karst terrain and coal mines;
  - c. waterbodies (number crossed), including impacts from sedimentation, turbidity, and water uses;
  - d. wetland, including number and acres affected;
  - e. identification of federally-listed threatened and endangered species and acres of habit affected;
  - f. historic properties potentially affected (number);
  - g. forest that would be cleared (acres); and
  - h. types and amount of pollutants emitted, and the airshed(s) that would be affected.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A revised Table 1.10-1 that includes the requested information is provided as Attachment RR1-20.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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*Appendix 1-A – Alignment Sheets*

21. Update all alignment sheets to correct the following sampling of discrepancies. This is not an exhaustive list:

Project Component	Correction Required
Mobley Interconnect	Labeled correctly but symbology is not hashed as an aboveground facility.
Bradshaw Compressor Station	Labeled correctly but symbology is not hashed as an aboveground facility. Aerial extent doesn't depict the entire facility.
<b>Access Roads</b>	
MVP-MLV-AR-04	Not depicted.
MVP-HA-031.1	Not depicted.
MVP-MLV-AR-05	At MP 34.9 not MP 34.51 as listed in Appendix 1F.
MVP-DO-048	Not depicted.
MVP-DO-049	Not depicted.
MVP-LE-057	Three MVP-LE-057's are depicted, one is likely supposed to be MVP-LE-057.1 and MVP-LE-057.3.
MVP-LE-057.1	Not depicted.
MVP-LE-057.3	Not depicted.
MVP-LE-066.01	Not depicted.
MVP-LE-076	Closer to MP 60.1 than MP 59.8.
MVP-MLV-AR-08	Closer to MP 65.6.
MVP-ANC-001	Not depicted.

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Project Component	Correction Required
MVP-WB-114.01	Not depicted.
MVP-WB-120.1	Closer to MP 89.4 than MP 89.1.
MVP-MLV-AR-11	Not depicted.
MVP-NI-136 (in Appendix 1-F)	Labeled MVP-WB-136 on alignment sheets.
MVP-NI-146	Closer to MP 115.8.
MVP-MLV-AR-14	Not depicted.
MVP-NI-154.2	Not depicted.
MVP-MLV-AR-15	Not depicted.
MVP-MLV-AR-18	Not depicted but there are two MVP-MLV-AR-17 labels.
MVP-SU-207	Not depicted.
MVP-MN-258.05	Not depicted.
MVP-ANC-002	Not depicted.
MVP-MN-277	Mislabeled as MVP-MN-227.
MVP-MN-278.01	Not depicted.
MVP-FR-308.01	Not depicted.
Giles County	File titled "Giles County Alignment Sheets_2" was not filed. Provide the missing file.
<b>Roadways Crossed</b>	
Various	Ensure roadway names in table 8-A match roadway names on alignment sheets. For example, CO RTE 44-Barnette Run Road at MP 106.83 in table 8-A is labeled CO RTE 44-Coon Creek Road in appendix 1-A.
Various	Ensure roadway labels are include in appendix 1-A. For example State Highway 20 at MP 23.06 is not labeled.

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**Additional Temporary Workspaces (ATWS)**

MVP-ATWS-1365	Mislabeled as MVP-ATWS-1362.
MVP-ATWS-458	Full extent not shown on the alignment sheets.
MVP-ATWS-762	Full extent not shown on the alignment sheets.
MVP-ATWS-763	Not depicted.
MVP-ATWS-1355	Not depicted.
MVP-ATWS-827	Unlabeled on map.
MVP-ATWS-781A	Full extent not shown on the alignment sheets.
MVP-ATWS-806	Not depicted.
MVP-ATWS-870	Not depicted.
MVP-ATWS-869	Not depicted.
MVP-ATWS-433	Not depicted.
MVP-ATWS-433A	Not depicted.
MVP-ATWS-109A	Full extent not shown on the alignment sheets.
MVP-ATWS-895	Not depicted.
MVP-ATWS-896	Not depicted.
MVP-ATWS-897	Not depicted.
MVP-ATWS-898	Not depicted.
MVP-ATWS-899	Not depicted.
MVP-ATWS-182	Unlabeled on alignment sheet.

**Waterbodies**

Various	None of the National Hydrography Dataset (NHD) waterbodies are depicted on the alignment sheets. NHD waterbodies should be included until replaced by field data.
S-L64	Not depicted.
S-R4 and SR-5	Not depicted.

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S-L20 and SL-21	Depicted on the alignment sheets but not in table 2-A-2.
Various Monroe County	Waterbodies not identified on the alignment sheet or in table 2-A-2 but depicted on the aerial background.
P-Z1B, P-EE1	Ponds in Monroe County listed in table 2-A-2 but not depicted on the alignment sheets.
S-Z9	Depicted on the Giles County alignment sheet but not in table 2-A-2.
S-F16A and S-F16B	Listed in table 2-A-2 but not depicted on the alignment sheet. Alignment sheet depicts S-F16.
S-F9B	Labeled on the alignment sheet as F-9.1.
S-F9A	Labeled on the alignment sheet as F-9.
S-B2	Labeled on the alignment sheet as S-B2A.
<b>Wetlands</b>	
Various	None of the National Wetlands Inventory (NWI) wetlands are depicted on the alignment sheets. NWI wetlands should be included until replaced by field data.
Various	Combined wetland categories [e.g., palustrine emergent (PEM)/palustrine scrub-shrub (PSS)] should be split out on the alignment sheets.
W-K32	Two separate wetlands labeled W-K32 (MP 45.9).
W-K27	Label missing from map portion of the alignment sheet.
W-A20	This wetland is PEM and PFO. Alignment sheets don't distinguish area of PEM from PFO.
W-EE3	Listed as impacted in table 2-B-1 however it is outside the survey corridor on the alignment sheet.



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**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Revised alignment sheets are included as Attachment RR1-21. A table has been provided below that provides a response for each of the identified discrepancies.

<b>Project Component</b>	<b>Correction Required</b>	<b>Data Request Response</b>
Mobley Interconnect	Labeled correctly but symbology is not hashed as an aboveground facility.	All above ground facility areas on the Alignment Sheets, Access Road Detail Sheets, and Ancillary Site Detail sheets will be corrected to show the proper symbology.
Bradshaw Compressor Station	Labeled correctly but symbology is not hashed as an aboveground facility. Aerial extent doesn't depict the entire facility.	All above ground facility areas on the Alignment Sheets, Access Road Detail Sheets, and Ancillary Site Detail sheets will be corrected to show the proper symbology. A detail sheet will be added in order to show the full extents of the facility.
<b>Access Roads</b>		
Mountain Valley Pipeline-MLV-AR-04	Not depicted.	The Access Road is labeled incorrectly on Alignment Sheet 15 of 326 as Mountain Valley Pipeline-HA-023. The label will be changed to Mountain Valley Pipeline-MLV-AR-04
Mountain Valley Pipeline-HA-031.1	Not depicted.	A portion of Mountain Valley Pipeline-HA-031.1 is shown on Sheets 24 and 25 of 326, although it is not labeled. A label will be added. The entire Access Road and Sherwood Interconnect site is shown on Access Road Detail sheet 9 of 105.
Mountain Valley Pipeline-MLV-AR-05	At MP 34.9 not MP 34.51 as listed in Appendix 1F.	Table has been revised with correct mile post.
Mountain Valley Pipeline-DO-048	Not depicted.	Access Road Mountain Valley Pipeline-DO-048 is shown on Sheet 37 of 326, although it is not labeled. A label will be added.
Mountain Valley Pipeline-DO-049	Not depicted.	Access Road Mountain Valley Pipeline-DO-049 is shown on Sheet 38 of 326, although it is missing from the file provided to FERC on October 23, 2015. A file with this sheet will be re-submitted.
Mountain Valley Pipeline-LE-057	Three Mountain Valley Pipeline-LE-057's are depicted, one is likely supposed to be Mountain Valley Pipeline-LE-057.1 and Mountain Valley Pipeline-LE-057.3.	Access Road Mountain Valley Pipeline-LE-057 is correct as shown on the Alignment Sheet. See Access Road Detail sheet 15 of 105 for an overall view of these access roads.
Mountain Valley Pipeline-LE-057.1	Not depicted.	Access Road Mountain Valley Pipeline-LE-057.01 is shown on Access Road Detail sheet 15 of 105.
Mountain Valley Pipeline-LE-057.3	Not depicted.	Access Road Mountain Valley Pipeline-LE-057.03 is shown on Access Road Detail sheet 15 of 105, although it is not labeled. A label will be added.

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<b>Project Component</b>	<b>Correction Required</b>	<b>Data Request Response</b>
Mountain Valley Pipeline-LE-066.01	Not depicted.	A portion of Mountain Valley Pipeline-LE-066.01 is shown on Sheet 49 of 326, although it is not labeled in the plan view. A label will be added. An additional amount of this access road is shown on Sheet 50 of 326. The access road in its entirety is shown on Access Road Detail sheet 49 of 105.
Mountain Valley Pipeline-LE-076	Closer to MP 60.1 than MP 59.8.	A portion of Mountain Valley Pipeline-LE-076 is labeled as Mountain Valley Pipeline-LE-077 on sheet 66 of 326. This label will be corrected.
Mountain Valley Pipeline-MLV-AR-08	Closer to MP 65.6.	Table has been updated
Mountain Valley Pipeline-ANC-001	Not depicted.	Access road Mountain Valley Pipeline-ANC-001 is shown on Ancillary Site detail sheet 1 of 3.
Mountain Valley Pipeline-WB-114.01	Not depicted.	Access Road Mountain Valley Pipeline-WE-114.01 is shown on sheet 91 of 326, although it is not labeled. A label will be added.
Mountain Valley Pipeline-WB-120.1	Closer to MP 89.4 than MP 89.1.	Table has been updated
Mountain Valley Pipeline-MLV-AR-11	Not depicted.	Access Road Mountain Valley Pipeline-MLV-AR-11 is shown on sheet 111 of 326, although it is not labeled. A label will be added.
Mountain Valley Pipeline-NI-136 (in Appendix 1-F)	Labeled Mountain Valley Pipeline-WB-136 on alignment sheets.	The label for Access Road Mountain Valley Pipeline-NI-136 (as incorrectly labeled as Mountain Valley Pipeline-WB-136 on sheet 124 of 326) will be corrected.
Mountain Valley Pipeline-NI-146	Closer to MP 115.8.	Table has been updated
Mountain Valley Pipeline-MLV-AR-14	Not depicted.	Access Road Mountain Valley Pipeline-MLV-AR-14 is shown on sheet 133 of 326, although it is not labeled. A label will be added. In addition, a portion of Access Road Mountain Valley Pipeline-NI-154 shown on sheets 111 and of 326 is mislabeled (S/B Mountain Valley Pipeline-MLV-AR-14) and the label will be corrected.
Mountain Valley Pipeline-NI-154.2	Not depicted.	Access Road Mountain Valley Pipeline-NI-154.2 (Mountain Valley Pipeline-NI-154.02) is incorrectly labeled on Access Road Detail sheet 49 of 105. This label will be corrected. In addition, the label on Mountain Valley Pipeline-NI-154.1 on sheet 133 of 326 will be corrected to Mountain Valley Pipeline-NI-154.01.
Mountain Valley Pipeline-MLV-AR-15	Not depicted.	Access Road Mountain Valley Pipeline-MLV-AR-15 is shown on sheet 152 of 326, although it is not labeled. A label will be added.
Mountain Valley Pipeline-MLV-AR-18	Not depicted but there are two Mountain Valley Pipeline-MLV-AR-17 labels.	Access Road Mountain Valley Pipeline-MLV-AR-18 shown at ~ MP 143.8 on sheet 158 of 326, is incorrectly labeled as Mountain Valley Pipeline-MLV-AR-17. This label will be corrected.
Mountain Valley Pipeline-SU-207	Not depicted.	Access Road Mountain Valley Pipeline-SU-207 is shown on sheet 188 of 326 at ~ MP 170.9, although it is not labeled. A label will be added.

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<b>Project Component</b>	<b>Correction Required</b>	<b>Data Request Response</b>
Mountain Valley Pipeline-MN-258.05	Not depicted.	Access Road Mountain Valley Pipeline-MN-258.05 is shown on sheet 240 of 326 at ~MP 218.3, although it is not labeled. A label will be added.
Mountain Valley Pipeline-ANC-002	Not depicted.	Access Road Mountain Valley Pipeline-ANC-002 is shown on Ancillary Site detail sheet 3 of 3.
Mountain Valley Pipeline-MN-277	Mislabeled as Mountain Valley Pipeline-MN-227.	The label for Access Road Mountain Valley Pipeline-MN-277 on sheet 256 of 326 will be corrected (incorrectly labeled as Mountain Valley Pipeline-MN-227).
Mountain Valley Pipeline-MN-278.01	Not depicted.	Access Road Mountain Valley Pipeline-MN-278.01 is shown on sheet 259 of 326 just past milepost 235.5.
Mountain Valley Pipeline-FR-308.01	Not depicted.	A portion of Access Road Mountain Valley Pipeline-FR-308.01 is shown on sheet 290 of 326, although it is not labeled. A label will be added. The entire extent of Mountain Valley Pipeline-FR-308.01 is shown on Access Road Detail sheet 99 of 105.
Giles County	File titled "Giles County Alignment Sheets_2" was not filed. Provide the missing file.	The missing file will be provided.
<b>Roadways Crossed</b>		
Various	Ensure roadway names in table 8-A match roadway names on alignment sheets. For example, CO RTE 44-Barnette Run Road at MP 106.83 in table 8-A is labeled CO RTE 44-Coon Creek Road in appendix 1-A.	The roadway designation/names on the alignment sheets and the table 8A have been reconciled.
Various	Ensure roadway labels are include in appendix 1-A. For example State Highway 20 at MP 23.06 is not labeled.	The roadway designation/names on the alignment sheets will be added.
<b>Additional Temporary Workspaces (ATWS)</b>		
Mountain Valley Pipeline-ATWS-1365	Mislabeled as Mountain Valley Pipeline-ATWS-1362.	Mountain Valley Pipeline-ATWS-1362 on sheet 288 of 326 will be re-labeled to Mountain Valley Pipeline-ATWS-1365.
Mountain Valley Pipeline-ATWS-458	Full extent not shown on the alignment sheets.	The alignment sheet (15 of 326) will be adjusted, or a detail sheet will be created in order to show the full extents of Mountain Valley Pipeline-ATWS-458.
Mountain Valley Pipeline-ATWS-762	Full extent not shown on the alignment sheets.	The full extent of Mountain Valley Pipeline-ATWS-762 is shown on sheet 24 of 326. When the symbology of the above ground facility is corrected, the full extents will be more evident.
Mountain Valley Pipeline-ATWS-763	Not depicted.	The full extent of Mountain Valley Pipeline-ATWS-763 is shown on sheet 25 of 326. When the symbology of the above ground facility is corrected, the full extents will be more evident.
Mountain Valley Pipeline-ATWS-1355	Not depicted.	Mountain Valley Pipeline-ATWS-1355 is shown on Access Road Detail sheet 9 of 105.
Mountain Valley Pipeline-ATWS-827	Unlabeled on map.	Mountain Valley Pipeline-ATWS-827 is shown on sheets 31 and 32 of 326, although it is not labeled. A label will be added.

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<b>Project Component</b>	<b>Correction Required</b>	<b>Data Request Response</b>
Mountain Valley Pipeline-ATWS-781A	Full extent not shown on the alignment sheets.	Access Road Detail sheet 13 of 105 will be adjusted to show the entire extents of Mountain Valley Pipeline-ATWS-781A.
Mountain Valley Pipeline-ATWS-806	Not depicted.	An Access Road Detail sheet will be added to cover Access Road Mountain Valley Pipeline-LE-069 and the extents of ATWS Mountain Valley Pipeline-ATWS-806.
Mountain Valley Pipeline-ATWS-870	Not depicted.	Mountain Valley Pipeline-ATWS-870 is shown on Access Road Detail sheet 20 of 105.
Mountain Valley Pipeline-ATWS-869	Not depicted.	Mountain Valley Pipeline-ATWS-869 is shown on Access Road Detail sheet 20 of 105.
Mountain Valley Pipeline-ATWS-433	Not depicted.	Mountain Valley Pipeline-ATWS-433 is shown on the extreme right hand side of sheet 66 of 326.
Mountain Valley Pipeline-ATWS-433A	Not depicted.	Mountain Valley Pipeline-ATWS-433A is shown on the extreme right hand side of sheet 66 of 326.
Mountain Valley Pipeline-ATWS-109A	Full extent not shown on the alignment sheets.	The alignment sheet (sheet 80 of 326) will be adjusted, or a detail sheet will be created in order to show the full extents of Mountain Valley Pipeline-ATWS-109A.
Mountain Valley Pipeline-ATWS-895	Not depicted.	ATWS Mountain Valley Pipeline-ATWS-895 was merged with Mountain Valley Pipeline-ATWS-894. The table will be revised to show the combined area.
Mountain Valley Pipeline-ATWS-896	Not depicted.	Mountain Valley Pipeline-ATWS-896 is shown on Access Road Detail sheet 25 of 105.
Mountain Valley Pipeline-ATWS-897	Not depicted.	Mountain Valley Pipeline-ATWS-897 is shown on Access Road Detail sheet 25 of 105.
Mountain Valley Pipeline-ATWS-898	Not depicted.	Mountain Valley Pipeline-ATWS-898 is shown on Access Road Detail sheet 25 of 105.
Mountain Valley Pipeline-ATWS-899	Not depicted.	Mountain Valley Pipeline-ATWS-899 is shown on Access Road Detail sheet 25 of 105.
Mountain Valley Pipeline-ATWS-182	Unlabeled on alignment sheet.	Mountain Valley Pipeline-ATWS-182 is shown on sheet 119 of 326, although it is not labeled. A label will be added.
<b>Waterbodies</b>		
Various	None of the National Hydrography Dataset (NHD) waterbodies are depicted on the alignment sheets. NHD waterbodies should be included until replaced by field data.	Alignment sheets will be updated with publically available NHD waterbodies in the areas where Mountain Valley Pipeline has not been able to gain access.
S-L64	Not depicted.	Stream S-L64 is shown on Access Road Detail sheet 22 of 105, although it is not labeled. A label will be added.
S-R4 and SR-5	Not depicted.	Streams S-R4 and S-R5 are shown on Access Road Detail sheet 30 of 105.
S-L20 and SL-21	Depicted on the alignment sheets but not in table 2-A-2.	Table 2-A-2 will be updated.
Various Monroe County	Waterbodies not identified on the alignment sheet or in table 2-A-2 but depicted on the aerial background.	NHD data has been added to the alignment sheets to exhibit potential waterbodies in the area where Mountain Valley Pipeline has not been able to gain access to survey.

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<b>Project Component</b>	<b>Correction Required</b>	<b>Data Request Response</b>
P-Z1B, P-EE1	Ponds in Monroe County listed in table 2-A-2 but not depicted on the alignment sheets.	Pond P-Z1B will be added to sheet 204 of 326 (Near Access Road Mountain Valley Pipeline-MO-221). Pond P-EE1 is shown on sheet 211 of 326 (left hand side of sheet), although it is incorrectly labeled as P-E1. This label will be corrected.
S-Z9	Depicted on the Giles County alignment sheet but not in table 2-A-2.	Table 2-A-2 will be updated.
S-F16A and S-F16B	Listed in table 2-A-2 but not depicted on the alignment sheet. Alignment sheet depicts S-F16.	Streams S-F16A and S-F16B are shown on sheet 251 of 326, although they are incorrectly labeled as S-F16. The labels will be corrected. In this same area, stream S-F15A is incorrectly labeled S-F15. This label will be corrected as well. In addition, both S-F15A and SF16A cross the entire work space. This will be corrected as well.
S-F9B	Labeled on the alignment sheet as F-9.1.	The label on S-F9B will be corrected. Currently shown as S-F9.1 on sheet 293 of 326.
S-F9A	Labeled on the alignment sheet as F-9.	The label on S-F9A will be corrected. Currently shown as S-F9 on sheet 293 of 326.
S-B2	Labeled on the alignment sheet as S-B2A.	Stream S-B2 is shown on sheet 18 of 326 at ~ MP 18.8. Stream S-B2A is correct as shown on sheet 323 of 326.
<b>Wetlands</b>		
Various	None of the National Wetlands Inventory (NWI) wetlands are depicted on the alignment sheets. NWI wetlands should be included until replaced by field data.	Alignment sheets will be updated with publically available NWI wetlands in the areas where Mountain Valley Pipeline has not been able to gain access.
Various	Combined wetland categories [e.g., palustrine emergent (PEM)/palustrine scrub-shrub (PSS)] should be split out on the alignment sheets.	Wetlands with combined categories have been separated and labeled accordingly on the alignment sheets.
W-K32	Two separate wetlands labeled W-K32 (MP 45.9).	The wetland shown at ~2400+00 in the plan view on sheet 49 of 326 should be labeled S-K31. This label will be corrected.
W-K27	Label missing from map portion of the alignment sheet.	Wetland W-K27 will be labeled in the plan view on sheet 56 of 326.
W-A20	This wetland is PEM and PFO. Alignment sheets don't distinguish area of PEM from PFO.	Wetlands with combined categories have been separated and labeled accordingly on the alignment sheets. W-A20 is located on sheet 103 of 326.
W-EE3	Listed as impacted in table 2-B-1 however it is outside the survey corridor on the alignment sheet.	Wetland W-EE3 impacts an Access Road that was removed from the project.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640

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*Ancillary Sites Detail Sheets*

22. Revise the ancillary sites maps to:
- a. correct the label for the Flatwood Contractor Yard which is currently labeled Mountain Valley Pipeline-LY-001 and it should be labeled Mountain Valley Pipeline-RD-001; and
  - b. provide a map of contractor yard Mountain Valley Pipeline-LY-004.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The requested revised ancillary site maps are provided as part of Attachment RR1-21.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640

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*Appendix 1-D – Additional Temporary Workspace (ATWS) Table*

24. As previously requested in our comments dated August 11, 2015, revise appendix 1-D to include dimensions (length and width in feet, or denote as “odd-shaped”) for each ATWS.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A revised Appendix 1-D with the requested ATWS dimensions or a notation of “odd-shaped” is included as Attachment RR1-24.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640

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*Appendix 1-E – Collocation Table*

25. As previously requested in our comments dated August 11, 2015, revise appendix 1-E to include units for all columns (feet or miles). Revise the table to remove “varies” and “unknown” and replace with a specific off-set and/or overlap between the pipeline and the edge of the right-of-way. Describe what is meant by the listing of the offset at MP 264.25 as “- 13.”

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Attachment RR1-25 contains an updated Appendix 1-E. The revised table includes a range of distances that reflect the changing distance between (1) the centerline for the respective Mountain Valley pipeline segment or the construction right-of-way and (2) and the edge of co-located right-of-way. The listing at MP 264.25 was an error and has been corrected in the revised table.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640



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**Request:**

**Resource Report 2 – Water Use and Quality**

*Water Resources*

2. Specifically define the number and location of the “water basins” and/or watersheds crossed by the proposed pipeline route. Revise table 2.2-1 to provide beginning and ending MPs for each watershed. Indicate the gross square acre size for each watershed.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley has revised Table 2-A-1 to provide the requested information and this table is included as Attachment RR2-2.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 2 – Water Use and Quality**

*Water Resources*

6. Define the methods used to determine the hydraulic (groundwater flow) position of the public water-supply facilities listed on table 2.1-4. In addition, revise table 2.1-4 to provide distance (in feet) between the water-supply facilities and the pipeline.

**Response submitted January 15, 2016:**

The locations of public water sources (wells, springs) listed in Table 2.1-4 were identified relative to the proposed alignment using topographic mapping data. However, the water source locations are at this time approximate, and based on unverified open-source data. Mountain Valley continues its efforts to contact all public water suppliers and to meet with concerned public water suppliers in efforts to verify the actual groundwater withdrawal, surface water intakes, and spring intake locations relative to the alignment. This is part of Mountain Valley's efforts to work with public water sources to identify concerns, discuss contingencies to maintain uninterrupted water service during construction, and to conduct pre-construction baseline testing. The approximate distances listed in Table 2.1-4 between the water sources and the proposed alignment are based on visual estimates from topographic maps. Mountain Valley expects to provide an updated table 2.1-4, which provides distance in feet, by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

As requested, the approximate distance from a public water supply well or spring that appears to be located within 0.3-mile of the proposed route is listed in units of feet in the revised Table 2.1-4 (see table, below). The hydraulic position of a water supply listed in Table 2.1-4 relative to the proposed route was based on visual estimates from topographic maps. As part of this update to Table 2.1-4, distances from the route to a public well or spring were again reviewed, and the table revised accordingly. Based on the proposed route data, only one public water source (a spring owned by the Red Sulphur Public Service District) appears to be located within 0.3-mile of the proposed route (see table, below). Note that public well and spring locations presented in the original Table 2.1-4 were approximate, and taken from open-source public domain data, but not specifically verified with the public water supply owner. Since submitting the original Table 2.1-4, Mountain Valley has contacted Red Sulphur PSD (see discussion below) and visited the spring that is listed in Table 2.1-4. The distance information presented in revised Table 2.1-4 for the Red Sulphur spring was taken from field-acquired GPS data and accurate to approximately 10 feet. The other water supplies previously identified in the

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original Table 2.1-4 were reanalyzed for this revision, and determined (based on approximate location information) to be further than 0.3-mile from the proposed route, and therefore were eliminated from the revised Table 2.1-4 (table presented below). Mountain Valley continues its efforts to contact all public water suppliers to verify water supply characteristics and locations. This is part of Mountain Valley’s on-going efforts to work with public water sources to identify concerns, discuss contingencies to maintain uninterrupted water service during construction, and to conduct pre-construction baseline testing.

<b>Table 2.1-4 (revised January 27, 2016)</b>			
<b>Source Water Protection Areas or Specific Water Sources within 0.3 of a Proposed MVP Project</b>			
<b>Water Supply</b>	<b>MVP Milepost</b>	<b>Approximate Distance (from pipeline) / Approximate Gradient Relationship</b>	<b>Water Source</b>
Red Sulphur PSD, Monroe County	194.5	1,570 feet / Pipeline is sidegradient with respect to topography (located west of the spring)	Spring (located in karst terrain)

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Resource Report 2 – Water Use and Quality**

*Water Resources*

18. Clarify if the Little Kanawha River (MP 75.0) and the Pigg River (MP 286.3) are major (more than 100-feet-wide) or intermediate waterbody crossings. Revise section 2.2.1.3 and table 2.2-5, accordingly.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The Little Kanawha River has been re-classified as a major waterbody. The Pigg River has been re-classified as an intermediate waterbody. According to the FERC Wetland and Waterbody Construction and Mitigation Procedures, FERC waterbody classification is determined as the width from the water's edge at the time of crossing. As a conservative measure, waterbody width was measured in the field at bank full height in the center of the survey corridor. This is the widest width of the waterbody at normal stage, not flood stage. Therefore, during construction, the width of the water at the time of the crossing will either be equal to or less than this value of bank full width. This bank full width was used to determine the FERC classification as minor (less than or equal to 10 feet wide at the water's edge), intermediate (>10-100 feet) or major (> 100 feet). The "length of crossing" is the pipeline centerline crossing any portion of the waterbody, either perpendicular to or parallel to a portion of the waterbody. The length of the pipeline crossing differs from the waterbody width since it was not possible to design the pipeline route to cross all waterbodies exactly perpendicular.

Section 2.2.1.3 text should be revised as follows:

MVP proposes to cross intermediate waterbodies (greater than 10 feet wide but less than or equal to 100 feet wide at water's edge) and minor waterbodies (less than or equal to 10 feet wide at water's edge) by the open-cut method where a dry-ditch method is not specifically required by the FERC Procedures. Crossings of minor perennial and intermittent streams will be accomplished in accordance with FERC's Procedures and variances requested by MVP, if approved. MVP will also develop and implement its own Project-specific Erosion and Sediment Control Plan (E&SCP) that will outline BMPs to minimize impacts on various resources, including waterbodies. Major waterbodies (over 100 feet wide at water's edge) will be assessed

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on a case by case basis to determine the best crossing method and site specific construction and restoration plans. The Project will cross four major waterbodies (waterbody widths greater than 100 feet): Little Kanawha River (MP 75.0), Elk River (MP 87.4), Gauley River (MP 118.6), and Greenbrier River (MP 170.6). Site-specific construction mitigation and restoration plans for the major waterbody crossings are included in Appendix 1-C of Resource Report 1.

Mountain Valley will submit revisions to Tables 2.2-4, 2.2-5, and 2.2-6 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Resource Report 2 – Water Use and Quality**

*Wetlands*

37. Revise the analysis presented in section 2.3 and associated tables to only refer to a single wetland type (i.e., palustrine emergent [PEM], palustrine scrub/shrub [PSS], palustrine forested [PFO]). Avoid using combined PEM/PFO, PEM/PSS, PSS/PEM, PSS/PFO, PFO/PSS categories.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley will submit revisions to Tables 2.3-1 and 2-B-1 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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*Wetlands*

38. Revise the analysis presented in section 2.3.1 to provide discussion of existing wetland resources and how they would be impacted, including:
- a. acreages of wetlands affected by both construction and operation – total acreage of impacted wetlands, by state, and total by wetland type (i.e., PEM, PSS, PFO);
  - b. acreage of PFO and PSS wetlands that would be maintained in both the 10-foot-wide corridor and 30-foot-wide corridor where woody vegetation would be selectively removed; and
  - c. construction and operation acreages of impacted wetlands by facility type (i.e., aboveground facilities, access roads, pipe storage and contractor yards, ATWS, and access roads). Clarify “ancillary sites” as referred to in table 2.3-1.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley will submit revisions to Table 2.3-1 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016. See the response to Resource Report 1, Request 37.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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*Wetlands*

39. Clarify the discrepancy between table 3.2-1 and table 2-B-1. Table 3.2-1 lists construction impacts on wetlands as 1.64 acres and operational impacts on wetlands as 0.56 acre; however, table 2-B-1 lists construction impacts on wetlands as 23.86 acres and operational impacts as 9.29 acres.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Table 3.2-1 did not include temporary and permanent impacts within the right-of-way easement whereas Tables 2.3-1 and 2-B-1 did include these as impacts. Mountain Valley will submit revisions to Tables 2.3-1 and 2-B-1 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016. See the response to Resource Report 1, Request 37.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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*Wetlands*

42. Clarify the meaning of “Not Reported” wetland acreages in table 2.3-1.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley will submit revisions to Table 2.3-1 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016. See the response to Resource Report 1, Request 37.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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*Wetlands*

45. Clarify discrepancies in wetland impact totals between table 2.3-1 (Construction – 24.07 acres, Operation – 9.42 acres, Total – 33.49) and appendix table 2-B-1 (Construction – 23.86 acres, Operation – 9.29 acres, Total – 33.15 acres).

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley will submit revisions to Tables 2.3-1 and 2-B-1 with its wetland and waterbody encroachment permit applications. Mountain Valley expects to submit these applications by February 26, 2016. See the response to Resource Report 1, Request 37.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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*Wetlands*

*Appendix 2-E – Water Resources Identification and Testing Plan*

47. Revise table 5.1 in appendix 2-E to include all project components.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Revised Table 5.1 is provided as Attachment RR2-47. Table 5.1 is revised to identify private water resources (wells and springs) that appear to be located within 150 feet, and within 500 feet in karst terrain, of Project components.

Mountain Valley will be contacting these and other property owners during calendar year 2016 to confirm whether a water supply is in fact located on the property, the number and types of water supplies, characteristics, and accurate location data. Mountain Valley will also request owner permission to conduct pre-construction water supply sampling and analysis for water quality parameters as described in the Water Resource Identification and Testing Plan, Appendix 2-E, Resource Report 2.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640

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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

1. File all pending biological and botanical survey reports and related analyses, or provide a schedule for their submission, including, but not limited to:
  - a. portal surveys for bats;
  - b. surveys for raptor nests;
  - c. surveys for rare, threatened, and endangered species and their habitats;
  - d. biological evaluation for the Jefferson National Forest; and
  - e. applicant-prepared draft biological assessment developed in coordination with the FWS for the Roanoke logperch and northern long-eared bat (and other federally listed species as appropriate).

**Response submitted January 15, 2016:**

- a. Mountain Valley expects to file the portal surveys by January 22, 2016.
- b. Mountain Valley expects to file the raptor survey report by January 22, 2016.
- c. Mountain Valley expects to file the requested surveys by January 22, 2016.
- d. Mountain Valley expects to file the Biological Evaluation for the Jefferson National Forest to FERC by February 26, 2016.
- e. The applicant-prepared Biological Assessment is currently in preparation. The document will cover the Roanoke logperch, northern long eared bat, Indiana bat, and several species of mussels. Mountain Valley expects to file the document with FERC by February 26, 2016.

**Supplemental Response submitted January 27, 2016:**

- a-e. The table below summarizes the reports and submission dates (or expected submission dates). All reports and surveys filed with this response (see the last column of the table) contain privileged information and are labeled “**Contains Privileged Information – Do Not Release.**”

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<b>Habitat Assessment/Survey Report</b>	<b>Date Submitted to Agencies (or expected)</b>	<b>Date Submitted to FERC (or expected)</b>	<b>Status</b>
Bat Mist Net Studies in West Virginia	11/13/15	12/7/15	Previously Submitted
Detailed habitat assessments for Indiana and northern long-eared bats in West Virginia	1/8/16	1/27/16	Attachment RR3-1c-1
Hibernacula and Harp trap surveys in West Virginia	1/11/16	1/27/16	Attachment RR3-1a-1
Bat Mist Net Studies in Virginia	11/13/15	12/7/15	Previously Submitted
Detailed habitat assessments for Indiana and northern long-eared bats in Virginia	1/8/16	1/27/16	Attachment RR3-1c-2
Hibernacula and Harp trap surveys in Virginia	1/13/16	1/27/16	Attachment RR3-1a-2
Rare plants in West Virginia	11/13/15	12/7/15	Previously Submitted
Rare plants in Virginia	11/13/15	12/7/15	Previously Submitted
Bog turtles in Virginia	Summer 2016	Summer 2016	Summer 2016
Freshwater mussels (unionidae) in West Virginia	11/13/15	12/7/15	Previously Submitted
Freshwater mussels (unionidae) in Virginia	11/13/15	12/7/15	Previously Submitted
Habitat assessments for roanoke logperch in Virginia	11/13/15	12/7/15	Previously Submitted
Survey report for bald and golden eagle nests in West Virginia	1/6/16	1/27/16	Attachment RR3-1b
Loggerhead shrike in Virginia	11/13/15	12/7/15	Previously Submitted
USFS Biological Evaluation	1/22/16	1/27/16	Attachment RR3-1d
USFS Biological Assessment	2/26/16	2/26/16	Will be submitted under a separate report

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

*Vegetation*

7. Reconcile all discrepancies regarding the amount of impacts on vegetation types (in acres) within RR 3 and between RR 3, RR 2, and RR 8.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Tables 8.1-2 and 3.2-1 have been reconciled. Revised Table 8.1-2 is included in Attachment RR1-10b and revised Table 3.2-1 is included in Attachment RR3-7.

These two reports are compiled utilizing National Land Cover Dataset (NLCD) data. Resource Report 2 is compiled utilized a combination of field survey data, U.S. Fish and Wildlife Service National Wetland Inventory (NWI) data and National Hydrography Dataset (NHD) data. The discrepancies lie in the different data sets utilized.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

*Wildlife*

13. Regarding section 3.3, as requested in our comments dated August 11, 2015, describe any known game corridors, herding or feeding areas, or game farms along or adjacent to the pipeline route. Outline measures Mountain Valley would implement to avoid, minimize, or mitigate impacts on harvested game species during construction and operation of the project.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The West Virginia Division of Natural Resources and the Virginia Department of Game and Inland Fisheries does not list any known game corridors, herding, or feeding areas along or adjacent to the pipeline route proposed by Mountain Valley. Two game farms are located within the proposed route. Mountain Meadow Hunting Preserve is a private, high fence, pay to hunt facility in Monroe County, West Virginia specializing in whitetail deer, fallow deer, red stag, wild boar, buffalo, and exotic animals. Another game farm known as the Trout Farm Hunting Area is in Montgomery County, Virginia and the owners run a hunting a fishing business on this property. Two other known game farms are located within 5 miles of the proposed route. It is possible that there are private properties whose landowners have leased exclusive hunting rights to individuals and private hunting clubs with property that is within and adjacent to the proposed route. These properties do not need to be registered and do not need to report to an agency. As such, the locations of all private properties utilized for hunting are not known. Additionally, there are a number of public wildlife management areas and national forest lands open to hunting that are within and near the proposed route.

Mountain Valley proposes a number of measures to avoid, minimize, and mitigate impacts to harvested game species and hunters during construction and operation of the proposed Project. Hunting seasons in Virginia and West Virginia generally occur during the fall and winter months from September through February. Deer, bear, and turkey hunting seasons run from September through the beginning of January. Small game seasons begin at the same time and run later into the winter and end in February. Spring turkey seasons run from April to May. Mountain Valley

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proposes to clear trees during February, March, and April of 2017 and January, February, and March of 2018 to minimize activity during the most active hunting seasons. Also, Mountain Valley proposes construction of the Project during the spring and summer months in order to further minimize and avoid impacts to game species. Hydrostatic testing of the pipeline is proposed to occur during October and November of 2017 and 2018. Nearly all activity during testing will occur at the filling and dewatering ends of the tested segments of pipeline. Foot and vehicular traffic within the right-of-way will be limited. Having reduced areas of activity during testing will minimize impacts to game species during the fall hunting seasons.

Impacts and construction activities associated with the Project are temporary. Immediately following the completion of construction, Mountain Valley proposes to revegetate the right-of-way with seed mixes containing blends of native seeds developed in conjunction with the Wildlife Habitat Council. These seed mixes will contain herbaceous species with maximum cover and foraging benefits to all wildlife, including game species. Many game species prefer edge habitats and will benefit from the revegetated right-of-way. Game animals are attracted to these areas in order to feed on the abundance herbaceous vegetation that may not be present in densely forested areas.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

*Wildlife*

17. Regarding section 3.3.4, discuss:
- a. whether Mountain Valley would conduct 24-hour operations during construction using artificial lighting (separate from HDD operations and aboveground facilities) that may impact nocturnal species;
  - b. the effects artificial lighting at the aboveground facilities (e.g., security lighting at compressor stations) during operation may have on local nocturnal species and migratory bird species (reference recent literature in the discussion);
  - c. the effects that noise during construction and operation may have on local species (reference recent literature in the discussion); and
  - d. measures that would be implemented by Mountain Valley to avoid, reduce, or mitigate for potential impacts due to artificial lighting and/or noise at the project facilities.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

**Supplemental Response submitted January 27, 2016:**

- a. Artificial lighting will be used during construction on a limited basis when completion of tasks warrant continued work outside normal daylight operating hours due to schedule concerns or binding regulations which mandate continuous work. This practice will be most common when completing stream crossings and during the hydrostatic testing phase. The directional luminous intensity will be proportional to work area required to complete the task.

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In general, construction will be conducted between the hours of 7:00 am and 7:00 pm, using portable light plants as necessary, unless in the case of an emergency.

- b. Artificial lighting from aboveground facilities can contribute to ecological light pollution (the alterations of the natural periods of light and dark) resulting in a wide-range of impacts to wildlife (Longcore and Rich 2004). Exposure to artificial nocturnal light can provide false cues related to photoperiod and has the potential to affect navigation, reproduction, and other behaviors of wildlife.

Some effects of artificial nocturnal lighting are well-documented in scientific literature, such as the disorientation of nocturnally migrating birds potentially leading to direct and indirect mortality (Gauthreaux and Belser 2006; Poot et al. 2008). Lights from cities, buildings, communication towers, lighthouses, off-shore oil drilling platforms, and wind turbines are known to disrupt nocturnally migrating birds. Birds can become disoriented from viewing night time lights, especially on foggy nights, and circle the illuminated areas until incidental collision or exhaustion occurs. Such events can occur in cities and populated areas making the issue highly visible.

Prey-predator relationships have been a focus of studies involving artificial nocturnal lighting. A commonly observed phenomenon involves the swarming of insects around streetlamps and other artificial lights. The phototactic behavior of moths has been shown to increase their susceptibility to predation (Eisenbeis 2006). Bats, nightjars, spiders, and other nocturnal wildlife have been observed taking advantage of this behavior. Observations have shown that diurnal insectivorous birds can also take advantage of this (Frey 1993), consequently blurring the line between the natural partitioning of food-resources that would occur between diurnal and nocturnal insectivores.

An abundance of insects can attract some species of bats that may benefit from the concentrated food resource. For example, moths are often attracted to lights and both the Indiana and northern long-eared bats (*Myotis sodalis* and *M. septentrionalis*) often eat them (Brack and LaVal 1985, Brack and Whitaker 2001, Sparks et al. 2004, Whitaker 2004, Tuttle et al. 2006).

Some bats may see better in dim light and it is possible that bats may see UV wave lengths, which are present in certain types of light. Insectivorous bats occasionally collide with stationary objects they should easily detect by echolocation and avoid. Collisions often occur with lighted objects, suggesting ambient light may deleteriously affect obstacle avoidance capabilities.

Mountain Valley will reduce effects of artificial lighting on wildlife by using the least light needed to comply with facility security requirements. The impacts from facility

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lighting are expected to be confined to relatively small areas at each facility. See additional discussion in response to part d. of this request.

References:

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- Poot, H., B.J. Ens, H. de Vries, M.A.H. Donners, M.R. Wernand, and J.M. Marquenie. 2008. Green light for nocturnally migrating birds. *Ecology and Society* 13:47.
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- Tuttle, N. M., D. P. Benson, and D. W. Sparks. 2006. Diet of *Myotis sodalis* (Indiana Bat) at an urban/rural interface. *Northeastern Naturalist* 13:435-442.
- Whitaker, J. O., Jr. 2004. Prey selection in a temperate zone insectivorous bat community. *Journal of Mammalogy* 85:460-469.

- c. Noise, as an impact to wildlife, is difficult to determine because sound is essential to survival but sounds that are intrusive, annoying, disruptive, or harmful are often referred to as noise. For this discussion, “noise” refers to sound from anthropogenic sources associated with impacts to wildlife. The loudness of a sound changes with distance from the source, temperature, humidity, topography, vegetation, the amount of pre-existing sound (i.e. ambient noise), and variety of other factors. The length of time each noise episode continues (minutes versus years), the time of day (day versus night), and frequency of occurrence (hourly versus monthly) is also important for determining

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impact. As such, most studies are associative, not correlative, where some aspect of noise is considered a stimulus against which a variety of behavioral responses are measured. The general inadequacies of studying the impacts of sound on wildlife are addressed by Pater et al. (2009) and Blickley and Patricelli (2010).

Noise, as an impact to wildlife, is likely to come from the operation of equipment during construction of the facilities, such as earthmoving activities, and from certain activities associated with operation and maintenance of the facilities, such as operation of a compressor station. While relatively little is understood about how noise from these sources impact wildlife, some of the better reviewed articles on how noise affects wildlife are Larkin (1996) for military facilities, FHWA (2011) for roads, and Barber et al. (2010) for terrestrial organisms.

- Barber, J. R., K. R. Crooks, and K. M. Fristrup. 2010. The costs of chronic noise exposure for terrestrial organisms. *Trends in Ecology and Evolution* 25:547-618.
- Blickley, J. L. and G. L. Patricelli. 2010. Impacts of anthropogenic noise on wildlife: research priorities for the development of standards and mitigation. *Journal of International Wildlife Law & Policy* 13:274-292.
- FHWA. 2011. Highway traffic noise special report - measurement, prediction, and mitigation. U.S. Department of Transportation, Federal Highway Administration, Office of Planning, Environment and Realty, Washington D.C. 58 pp.
- Larkin, R. P. 1996. Effects of Military Noise on Wildlife: A Literature Review, USACERL Technical Report 96/21 January 1996. Centre for Wildlife Ecology, Illinois Natural History Survey, Champaign, Illinois.
- Pater, L. L., T. G. Grubb, and D. K. Delaney. 2009. Recommendations for improved assessment of noise impacts on wildlife. *Journal of Wildlife Management* 73:788-795.

**d. Artificial Lighting**

MVP will utilize the following measures to control impact from artificial lighting:

- Outdoor lighting will be photocell controlled to only be on at night. (Night time lighting will be necessary to allow for the station surveillance systems to operate. It will also allow for a safer working environment for MVP staff conducting any necessary operational activities at night.)
- Outdoor lighting will be located on each station perimeter and pointed inward toward the station.
- MVP will utilize fully shielded, “full cut-off” type lighting fixtures to minimize objectionable light from each station.

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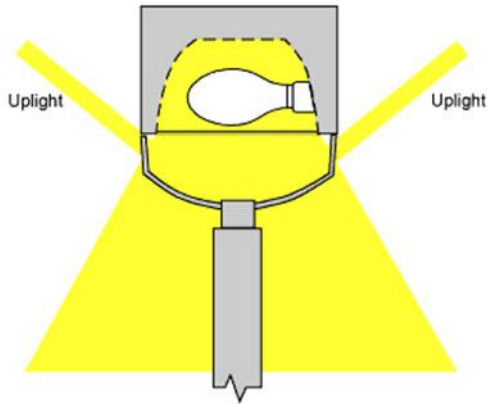
The Illuminating Engineering Society of North America (IESNA) defines several outdoor luminaire cutoff classifications, each with different photometric criteria. For these classifications, two relevant zones are defined with respect to the nadir of a luminaire (the nadir is defined as the angle that points directly downward, or 0°, from the luminaire). One zone applies to angles at or above 80° above nadir, and the second zone covers all angles at or above 90° above nadir, or above the horizontal plane of the luminaire. Light emitted in the 80° to 90° zone is more likely to contribute to glare, and light emitted above the horizontal is more likely to contribute to sky glow. The four IESNA classifications are defined as follows (IESNA 2000):

- Full cutoff—The luminous intensity (in candelas) at or above an angle of 90° above nadir is zero, and the luminous intensity (in candelas) at or above a vertical angle of 80° above nadir does not numerically exceed 10% of the luminous flux (in lumens) of the lamp or lamps in the luminaire.
- Cutoff—The luminous intensity (in candelas) at or above an angle of 90° above nadir does not numerically exceed 2.5% of the luminous flux (in lumens) of the lamp or lamps in the luminaire, and the luminous intensity (in candelas) at or above a vertical angle of 80° above nadir does not numerically exceed 10% of the luminous flux (in lumens) of the lamp or lamps in the luminaire.
- Semicutoff—The luminous intensity (in candelas) at or above an angle of 90° above nadir does not numerically exceed 5% of the luminous flux (in lumens) of the lamp or lamps in the luminaire, and the luminous intensity (in candelas) at or above a vertical angle of 80° above nadir does not numerically exceed 20% of the luminous flux (in lumens) of the lamp or lamps in the luminaire.
- Noncutoff—There is no candela limitation in the zone above maximum candela.

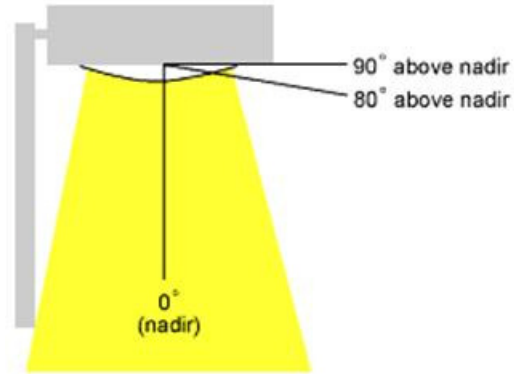
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Fully shielded but not a “full cut-off”



Fully shield AND also “full cut-off”



“Full cut-off” lighting provides the maximum possible shielding to prevent unintentional lighting of surrounding areas.

## Noise

### Noise associated with Construction

Noise generated from the construction of the pipeline and compressor stations will be temporary, short-term, and typically occur during daytime working hours (7:00 a.m. to 7:00 p.m.). Because of the temporary and generally daytime-only nature of construction activities, impact on wildlife is expected to be localized and temporary, and no special noise mitigation or noise monitoring program will be implemented during the construction phase, beyond those implemented for humans (see Resource Report 9).

MVP is not proposing to install any pipe using horizontal directional drilling (HDD) so construction noise associated with HDD will be avoided.

### Noise associated with Operation

Measureable noise will be generated during operation of the proposed compressor stations. Mountain Valley is proposing a number of measures to control operation noise from compressor stations to below levels that are regulated by FERC for human receptors, as quantified at noise sensitive areas surrounding each compressor station. See Resource Report 9 for the full discussion of existing sound measured at each compressor station, estimated operation sound, and measures to mitigate for this noise. The measures that will be implemented to reduce and mitigate noise impact on humans will also reduce and mitigate impact of noise on wildlife.

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Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

*Environmental Consequences on Jefferson National Forest Lands*

21. Regarding sections 3.5.1, 3.5.3, 3.5.4, and 3.5.5 (and/or associated tables), specify how Mountain Valley would avoid or minimize impacts on FS-specified old growth forest, and FS-designated special biological areas (such as the Slussers Chapel Conservation Site).

**Response submitted January 15, 2016:**

Mountain Valley will address this topic in the Biological Evaluation for the Jefferson National Forest, which will be submitted to the FERC by February 26, 2016.

**Supplemental Response submitted January 27, 2016:**

The Biological Evaluation for the Jefferson National Forest was submitted to the U.S. Forest Service on January 22, 2016 and is included as Attachment RR3-1d. This attachment includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**”

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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Mountain Valley Pipeline Project  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

*Environmental Consequences on Jefferson National Forest Lands*

22. Regarding section 3.5.1:
- a. provide a plan and schedule for FS-requested vegetation surveys and site index measurements for the portion of the pipeline route crossing the Jefferson National Forest. Indicate when forest survey reports would be submitted to the FERC and FS, and file the FS review of all survey reports; and
  - a. indicate if Mountain Valley would incorporate the FS recommendation regarding the replanting of shrubs along the edge of the right-of-way to reduce the sharp edge effect. Provide a planting plan for the Jefferson National Forest crossing, developed in communication with the FS.

**Response submitted January 15, 2016:**

- a. Mountain Valley will address this topic in the Biological Evaluation for the Jefferson National Forest, which will be submitted to the FERC by February 26, 2016.
- b. Mountain Valley Pipeline proposes to plant native shrubs and fast growing native vegetation with varying mature characteristics within the temporary impact area (also often referred to as the “Border Zone”) to reduce the sharp edge effect.

Mountain Valley will address the planting plan in the Biological Evaluation for the Jefferson National Forest, which will be submitted to the FERC by February 26, 2016.

**Supplemental Response submitted January 27, 2016:**

The Biological Evaluation for the Jefferson National Forest was submitted to the U.S. Forest Service on January 22, 2016 and is included as Attachment RR3-1d. This attachment includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**”

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Dated December 24, 2015**

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 4 – Cultural Resources**

30. Provide a copy of the study of cultural attachment by Applied Cultural Ecology, documentation that the study was submitted to the FS, and file the FS' comments on the report; or submit a schedule for when those tasks would be completed.

**Response submitted January 15, 2016:**

The cultural attachment study report by Applied Cultural Ecology is in preparation. Mountain Valley Pipeline anticipates submission of the report to the Forest Service and FERC by February 1, 2016. To the extent the Forest Service does not file its comments on the FERC docket, Mountain Valley Pipeline will file with the FERC comments from Forest Service once they are received.

**Supplemental Response submitted January 27, 2016:**

Attachment RR4-30 includes the cultural attachment report by Applied Cultural Ecology and Mountain Valley Pipeline's responses to the issues raised in the report. Mountain Valley Pipeline submitted the report to the Forest Service on January 26, 2016. To the extent the Forest Service does not file its comments on the FERC docket, Mountain Valley Pipeline will file with the FERC comments from Forest Service once they are received.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 5 – Socioeconomics**

4. As previously requested in our comments dated August 11, 2015, provide a detailed discussion on those counties where housing for the workforce is expected to be limited or absent (i.e., Doddridge, Monroe, and Webster Counties). Include the communities where workers are anticipated to be housed while working within these counties and the distance to the worksite. Indicate the measures that would be implemented to mitigate the impact of construction workers competing with visitors for hotel rooms, especially during peak tourist seasons.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The housing analysis included in Resource Report 5 suggests that there are adequate temporary housing resources within commuting distance of the Project, including those stretches that cross less densely populated areas and counties. In those areas workers would be expected to commute longer distances to job sites. Larger communities within commuting distance of the Project are identified in Resource Report 5. Resource Report 5 also indicates that vacation homes make up a large share of the housing in some of the counties crossed by the Project, including Doddridge and Webster counties. These units would continue to be available for recreationists and tourists, which should reduce the possibility that construction crews would displace or directly compete for temporary housing with these types of visitors. With these points in mind, Mountain Valley does not anticipate that construction workers temporarily relocating to the region will experience difficulty finding housing or displace recreationists or other tourists.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 6 – Geologic Resources**

5. As previously requested in our comments dated August 11, 2015, revise table 6.3-1 to provide the following information:
  - a. a column which identifies whether the mine is a surface or underground mine;
  - b. why so many mine statuses are identified as unknown and consult additional sources to determine if the mines listed are active; and
  - c. notes within the table to identify statuses such as completely released, reclaimed, and numerous outfalls.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

- a. Revised Table 6.3-1 is included in Attachment RR6-5. A column of the revised table provides information regarding whether the mine is a surface or underground mine where information is available. Additional information regarding these mines was not available from publically available state agency databases. As stated in Section 6.3.3: “Mine operators will be contacted to coordinate the design of any necessary mitigation measures to be used during construction and operation of the Pipeline.
- b. Mining information has been identified based on available agency digital databases. Specific information was not available for certain entries as noted in the tables. For the strip mine areas obtained via topographic maps, status information was not available and thus, the reason for the status noted as “unknown.” It is likely that these areas have been abandoned and are no longer being mined. As noted in Section 6.3.3: Mine operators will be contacted to coordinate the design of any necessary mitigation measures to be used during construction and operation of the Pipeline.
- c. Revised Table 6.3-1 (Attachment RR6-5) includes a column titled “Status” that refers to the status of the mine, or status of state-issued permits for the mine, based on publicly available data. The revised table includes additional notes to explain various entries in the “Status” column.

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Respondent: Joseph Park  
Position: Landman  
Phone Number: 304-348-5328

**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
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**Request:**

**Resource Report 6 – Geologic Resources**

7. As previously requested in our comments dated August 11, 2015, provide the following with regards to mining:
- a. specific procedures that would be used with regards to communicating with mine operators and what activities would require mine operators to notify Mountain Valley;
  - b. discussion of the potential for landslides, slumping, subsidence resulting from permitted, active, and future surface and subsurface mining activities along the proposed pipeline route;
  - c. a discussion of the issues raised in WVDEP’s May 22, 2015 letter to the FERC;
  - d. a discussion of how current and future mine hazards would be identified;
  - e. measures that would be implemented if mine hazards are encountered during pipeline installation; and
  - f. a discussion of construction and post-construction monitoring of the pipeline route over mining areas.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

- a, b, c, e, f. See the Mining Area Construction Plan attached as Attachment General 1j. This plan includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**” Note that any response that cites to a Mine Subsidence Plan should reference the attached Mining Area Construction Plan.

In consultation with active coal companies and applicable agencies (including WVDEP), Mountain Valley will supplement its Mining Area Construction Plan as necessary to address any additional hazards associated with mining.

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- d. Mountain Valley has had several meetings with subsurface mining companies to determine the locations of subsurface mining activities with respect to the affected Project area.

<b>Dates of Communication</b>	<b>Coal Company</b>
3-4-2015, 11-4-2015	Alpha Natural Resources, Coronado Coal (Greenbrier Minerals), Warrior Energy
4-16-2015, 11-12-2015, 12-10-2015	Murray Energy
5-4-2015, 12-14-2015	Arch Coal

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497



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**Request:**

**Resource Report 6 – Geologic Resources**

8. Provide maps that depict the location of all surface and subsurface coal mines (permitted, active, closed, reclaimed or currently in the reclamation process, and known abandoned) within 0.25 mile of the pipeline alignment and aboveground facilities.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Attachment 6-8 is a map depicting the location of all mine areas. The information in this map correlates with the information included in revised Table 6.3-1 (Attachment RR6-5; see the response to Resource Report 6, Request 5).

Respondent: Joseph Park  
Position: Landman  
Phone Number: 304-348-5328

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**Request:**

**Resource Report 6 – Geologic Resources**

9. Section 6.3.3 identified four underground coal mines that the pipeline alignment would cross in West Virginia and stated that Mountain Valley would develop specific mitigation measures in coordination with the mine operators. Provide an update of this coordination and outline specific mitigation measures necessary to protect the pipeline from current (ongoing) or future mining operations.

**Response submitted January 15, 2016:**

For longwall mines, Mountain Valley will monitor and mitigate potential impacts as described in the forthcoming mine subsidence plan. Mountain Valley will negotiate terms for pillar mining operations with the mine operator and mineral owners to leave the necessary support coal in place to protect the Project. Mountain Valley expects to submit the mine subsidence plan by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

See the Mining Area Construction Plan attached as Attachment General 1j. This plan includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**” Note that any response that cites to a Mine Subsidence Plan should reference the attached Mining Area Construction Plan.

Respondent: Joseph Park  
Position: Landman  
Phone Number: 304-348-5328

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**Request:**

**Resource Report 6 – Geologic Resources**

10. Section 6.6.1.2 (p. 6-40) stated that: “it is possible that ground subsidence could occur as a result of underground mining,” and that “measures are in place in West Virginia that are designed to protect the integrity and service of pipelines in areas where mining takes place.” Discuss the measures in place for West Virginia to protect pipelines that cross subsurface coal mines.

**Response submitted January 15, 2016:**

Mountain Valley will take the necessary precautions to monitor and mitigate the pipeline prior to mining advancing underneath. For longwall mining operations, Mountain Valley will be monitor and mitigating the pipeline as further described in the mine subsidence plan (see the response to Resource Report 6, Request 11(e)). Mountain Valley will negotiate terms for pillar mining with the mine operator and mineral owner to leave the necessary support coal in place to protect the Project. Mountain Valley expects to submit the mine subsidence plan by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

See the Mining Area Construction Plan attached as Attachment General 1j. This plan includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**” Note that any response that cites to a Mine Subsidence Plan should reference the attached Mining Area Construction Plan.

Respondent: Joseph Park  
Position: Landman  
Phone Number: 304-348-5328

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**Request:**

**Resource Report 6 – Geologic Resources**

11. Regarding historic (abandoned, closed, and reclaimed) mines that would be crossed by the pipeline route, provide:
  - a. West Virginia agency guidance on recommended surface to top of mine minimums;
  - b. documentation of coordination with the appropriate West Virginia agency(ies) regarding recommendations for the crossing of historic mines;
  - c. a discussion of historic underground longwall and room and pillar mines that could present a subsidence hazard to the project.
  - d. a discussion of landslides, slumping, and subsidence due to the pipeline crossing previously mined areas, poorly reclaimed mining areas, and historic unknown underground mines;
  - e. a Mine Subsidence Plan;
  - f. protocol of how historic mine hazards would be identified; and
  - g. measures that Mountain Valley would implement to protect the pipeline when crossing closed and/or reclaimed mines.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

- a. A search of guidance and handbooks available at the WV DEP’s Division of Mining and Reclamation (<http://www.dep.wv.gov/dmr/Pages/default.aspx>, accessed January 3, 2016) did not yield specific guidance or recommendations for “surface to top of mine minimums”. It is likely that such “minimums” would be based on specific geotechnical data and other engineering design information. Specific concerns for underground mining areas would also be dependent on the specific surface activity proposed above the mining area.
- b. MVP will coordinate with the West Virginia Mine Health and Safety (WV MHST), State Historic Preservation Organization (SHPO), Abandoned Mine Lands (AML), and any other pertinent state organizations. MVP will utilize their recommendations

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- to help minimize any impacts created by the pipeline if it crosses any historic mine properties.
- c, d, e, g. See the Mining Area Construction Plan attached as Attachment General 1j. This plan includes privileged information and is labeled “**Contains Privileged Information – Do Not Release.**” Note that any response that cites to a Mine Subsidence Plan should reference the attached Mining Area Construction Plan.
- f. The proposed pipeline route was reviewed against historical mine maps, field reviews, and permit maps that were either obtained from the State of West Virginia or mine operators.

Respondent: Joseph Park  
Position: Landman  
Phone Number: 304-348-5328

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 7 – Soils**

2. As previously requested in our comments dated August 11, 2015, revise and update tables and appendices to provide the information requested below:
  - a. temporary and permanent acreage impacts on soils for all project components, including meter stations, compressor stations, pipe storage and contractor yards, temporary and permanent access roads, and cathodic protection sites; and
  - b. impacts should be listed on a table formatted to address the following soil limitations: prime farmlands and farmlands of statewide importance, compaction potential, water erosion potential, wind erosion potential, revegetation potential, hydric soils, rocky/stony soils, shallow depth to water table, and poor drainage potential. Hazard potentials can be evaluated using the following criteria:
    - i. Prime Farmland Soils includes both prime farmlands and farmlands of statewide importance, as designated by the U.S.D.A. Natural Resources Conservation Service;
    - ii. High Compaction Potential include soils identified as clay loam or finer texture and somewhat poor, poor, or very poorly drained drainage class;
    - iii. High Water Erosion Potential should be determined via the FS method for determining soil erosion hazard as per the FS general comment;
    - iv. High Wind Erosion Potential for wind erodible soils include those with wind erodibility groups of 1 or 2; and
    - v. Poor Revegetation Potential reports soils with a poor revegetation potential for grasses.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The requested information has been included in Table 7-2 in Attachment RR7-2.

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Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

1. Clarify the following discrepancies between tables 3.2-1 and 8.1-2 and tables 1.3-1 and 1.3-2. Provide updated tables where necessary:
  - a. tables 1.3-1 and 1.3-2 report the total land required for construction of compressor stations and meter stations as 94.6 acres, while tables 3.2-1 and 8.1-2 report construction impacts from permanent aboveground facilities as 0.0 acres; and
  - b. tables 1.3-1 and 1.3-2 report the total land required for operation of compressor stations and meter stations as 22.3 acres, while tables 3.2-1 and 8.1-2 report operation impacts from permanent aboveground facilities as 20.52 acres.

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Updated Tables 3.2-1 and 8.1-2 are included as Attachments RR3-7 and RR1-10b, respectively.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

2. Update table 8.1-2 to include impact acreages by state/county and land use type for each of the three compressor stations and four meter stations. If there are no impacts in a county from any aboveground facilities, do not include in the table under that heading.

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The revised Table 8.1-2 is included in Attachment RR1-10b. For counties that have no acreage impacts for a particular facility type, such counties remain in the table to show that all counties were reviewed for impacts.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

3. Clarify the following discrepancies between appendix 1-C-1 and table 8.1-2:
  - a. table 8.1-2 listed impacts for contractor and staging yards in Fayette County, West Virginia and Pittsylvania, Virginia; however appendix 1-C-1 does not include aerial maps for contractor yards in these counties. Provide the missing aerial maps or update table 8.1-2; and
  - b. verify that all project-related impacts listed in table 8.1-2 are based on current land use for each state/county, correlated to recent aerial map data. For example, table 8.1-2 indicated that 23.17 acres of forested land, 5.46 acres of open land, and 2.95 acres of agricultural land would be impacted by contractor yards in Wetzel County, West Virginia. However, the aerial maps in appendix 1-C-1 depict a single contractor yard in Wetzel County located on predominantly industrial land.

**Response submitted January 15, 2016:**

- a. There are no contractor and staging yards in Fayette County, West Virginia or Pittsylvania County, Virginia. Mountain Valley is updating Table 8.1-2 and expects to file the updated table by January 22, 2016.
- b. All Project-related impacts listed in Table 8.1-2 are based on existing NLCD land use data. No aerial interpretation was completed for land use GIS calculations.

**Supplemental Response to subpart a submitted January 27, 2016:**

- a. The revised Table 8.1-2 is included in Attachment RR1-10b.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

4. Table 8.1-2 listed 0.0 acres of total construction impacts due to aboveground facilities, and 20.52 acres of operation impacts. Since construction impacts should include both temporary and permanent impacts, clarify why there are permanent impacts but no construction impacts. Verify that construction impacts throughout the table include both temporary and permanent acres, and provide a revised table 8.1-2 containing the appropriate corrections.

**Response submitted January 15, 2016:**

Mountain Valley expects to file a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The revised Table 8.1-2 is included in Attachment RR1-10b.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

5. Clarify the discrepancy between tables 1.3-1, 3.2-1, and 8.1-2 and table 1-D. Tables 1.3-1, 3.2-1, and 8.1-2 list construction impacts associated with additional temporary work space areas as 738.2 acres, while the total area of impacts listed in table 1-D is 723.5 acres.

**Response submitted January 15, 2016:**

Mountain Valley expects to file a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A revised Appendix 1-D is included as Attachment RR1-24. Revised Tables 1.3-1 and 8.1-2 are included as Attachments RR1-10a and 1-10b, respectively.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

9. Table 8.1-4 listed 261 public roadway crossing, while table 8-A (appendix 8-A) listed 247 crossings. Clarify the apparent discrepancy and provide updated tables as necessary.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A revised Table 8.1-4 is included as Attachment RR8-9. Table 8-A includes 220 public roadways crossed. This number does not include railroads or duplicate crossings of the same road.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

10. Table 8.1-5 listed 10 railroad crossing sites, while table 8-A (appendix 8-A) listed 11 railroad crossings. Clarify the apparent discrepancy and provide updated tables as necessary.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A revised Table 8.1-5 is included as Attachment RR8-10.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

11. As previously requested in our comments dated August 11, 2015, there are several special use and recreation areas discussed in section 8.4.3 as being crossed or within 0.25 mile of the pipeline, but are not listed in table 8.3-1 or discussed in section 8.3. Revise table 8.3-1 to include these areas and provide an updated discussion related to potential project impacts on all special use and recreation areas crossed or in close proximity to the pipeline. Outline measures Mountain Valley would implement to avoid, minimize, or mitigate impacts on these special use facilities and recreation areas (such as, but not limited to the Staunton-Parkersburg Turnpike, Interstate 79, and the Coal Heritage Trail/Midland Trail).

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Table 8.3-1 lists public lands, recreational lands, and other designated areas, including ownership of those lands, that are crossed by or located within 0.25 mile of the Project. Resources located greater than 0.25 mile from the Project were discussed with regards to visual impacts in Section 8.4 as no direct construction or operation acreage impacts to these areas are expected. While there is some overlap between resources listed in Table 8.3-1 and discussed in Section 8.3 and those discussed in Section 8.4.3, the analysis provided in each section addresses different resources of concern and is therefore based on different buffers around the resource.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

15. Identify, in communication with the FS, any Forest-specific amendments to the Land and Resource Management Plan for the Jefferson National Forest that may be necessary to allow for the crossing of the pipeline.

**Response submitted January 15, 2016:**

Mountain Valley included the consistency analysis in Appendix 8-E of its certificate application. Mountain Valley will continue to work with the Forest Service on its Management Plan amendments following submittal of the SF-299, which it expects to submit by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley submitted the SF-299 to the United States Forest Service on January 22, 2016. A copy is attached as Attachment RR8-15.

Mountain Valley submitted the Preliminary Plan of Development for the Jefferson National Forest to the United States Forest Service on January 22, 2016. A copy is attached as Attachment General 1q.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

16. Document that Mountain Valley submitted its plan for crossing the Appalachian Trail to the FS, the NPS, and the Appalachian Trail Conservancy, and file their comments on the plan.

**Response submitted January 15, 2016:**

The application (SF-299) for authorization to construct and operate the Project across the Appalachian Trail is in preparation. Mountain Valley expects to submit the SF-299 to the United States Forest Service Jefferson National Forest office by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley submitted the SF-299 to the United States Forest Service on January 22, 2016. A copy is attached as Attachment RR8-15.

Mountain Valley submitted the Preliminary Plan of Development for the Jefferson National Forest to the United States Forest Service on January 22, 2016. A copy is attached as Attachment General 1q.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

21. Document that Mountain Valley provided the Virginia Outdoors Foundation with plans for crossing open space parcels (at sites 3333 and 1871), and file the Foundation's comments on the plans.

**Response submitted January 15, 2016:**

Mountain Valley Pipeline has been in contact with the Virginia Outdoors Foundation (VOF) since June 2014. Mountain Valley Pipeline notified the VOF of its FERC application filing on October 23, 2015, and that the application included Mountain Valley Pipeline's proposed route and access roads, which would cross three VOF easements. Mountain Valley Pipeline presented to the VOF Energy and Infrastructure Committee on November 5, 2015 to introduce the Project to the VOF Board of Trustees and exhibit the three proposed easement crossings. Mountain Valley Pipeline received formal comments from VOF on November 30, 2015 regarding each of these easements and their respective application requirements. Mountain Valley Pipeline and VOF are continuing to communicate on these proposed easement crossings, and Mountain Valley Pipeline is preparing and expects to submit the relevant VOF applications by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley submitted the applications to VOF on January 22, 2016. Copies of the applications are included as Attachment RR8-21. The applications included privileged information and are labeled "**Contains Privileged Information – Do Not Release.**"

Respondent: Kevin Wagner  
Position: Land Director  
Phone Number: 304-627-6431

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

***Appendix 8-B – Site Specific Residential Construction and Mitigation Plans***

23. In all cases, where the pipeline would be within 50 feet of a house, explain why an alternative route elsewhere on the property further away from the residence or reduction in workspace width (i.e., a neckdown) is not feasible. In those situations where a reroute away from a house is possible, provide a site-specific alternatives analysis.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Attachment RR8-23 includes the requested information where the pipeline would be within 50 feet of a house.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

***Appendix 8-B – Site Specific Residential Construction and Mitigation Plans***

27. In the case of Mountain Valley Pipeline-GB-193, workspaces such as Mountain Valley Pipeline-ATWS-1203 appear to touch or even envelope houses. In a narrative discussion to accompany this plan, explain how Mountain Valley would mitigate for impacts on these houses.

Resolve any instances where affected landowners are listed as “Property Owner – Unknown.”

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

Respondent: Kevin Wagner  
Position: Land Director  
Phone Number: 304-627-6431

**Supplemental Response submitted January 27, 2016:**

Mountain Valley will make every effort to limit disturbance to homes. In the event the limits of a proposed ATWS are within close proximity to housing, safety fencing will be utilized around the perimeter of structures to shield them from construction activity and provide safe passage to and from the residence.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

**Mountain Valley Pipeline, LLC  
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**Responses to Environmental Information Request  
Dated December 24, 2015**

**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

*Appendix 8-F – Visual Simulations*

30. Provide a visual simulation of the communication towers from nearby roads, points of interest, and residences.

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Additional field work is required to provide the requested simulations. Mountain Valley anticipates providing the requested simulations by February 26, 2015.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

*Appendix 8-F – Visual Simulations*

31. Provide visual simulations for all key observation points that have a high potential for visual impacts as discussed in section 8.4.3, such as the pipeline crossings at:
- a. North Bend Rail Trail;
  - b. Tully Ridge adjacent to I-79;
  - c. Weston Gauley Turnpike;
  - d. Red Spring Mountain adjacent to I-64;
  - e. Greenbrier River;
  - f. Farm Heritage Road;
  - g. Mountain Shadow Trail;
  - h. Roanoke River;
  - i. Blackwater River B; and
  - j. Pigg River.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Additional field work is required to provide the requested simulations. Mountain Valley anticipates providing the requested simulations by February 26, 2015.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 9 – Air Quality and Noise**

*Air Quality*

1. According to section 1.4.1.1, burning would be used to dispose of brush and slash from clearing; however, section 9.1.6 stated that: “Mountain Valley Pipeline will mulch the piles generated during construction to ensure particulate matter emissions are minimized.” Resolve the apparent discrepancy. In addition, revise tables 9.1-10 through 9.1-13, and appendix 9-A, to include estimates and methodology used to calculate emissions from open burning for each area of occurrence and discuss the effects upon associated permitting.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

MVP will dispose of the trees and shrubs cleared during construction in accordance with landowner requests. MVP will continue to mulch piles generated during construction to minimize emissions. However, MVP has assumed that a certain amount of material will be burned during the construction phase. Emissions from the burning have been included and the construction tables have been updated accordingly. MVP will comply with federal, state, and local requirements for opening burning, including obtaining the necessary authorizations from the regulatory agencies. No construction air permit authorization is required for the open burning proposed. See revised Tables 9.1-10 through 9.1-11 in Attachment RR9-1.

Tables 9.1-12 and 9.1-13 were not updated because those tables reflect construction emissions occurring in 2018 and 2019, respectively, and no open burning is anticipated to occur during those years.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Responses to Environmental Information Request  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 9 – Air Quality and Noise**

*Air Quality*

4. As identified in tables 9.1-6, 9.1.7, and 9.1-8 of RR 9, discuss potential air quality impacts on all Class I areas within 100 kilometers of the pipeline, and provide copies of correspondence with the federal land managers of the Class I areas as appropriate.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

As the Project does not trigger Prevention of Significant Deterioration, no formal correspondence with the federal land managers is required due to the distance.

Nonetheless, an analysis of the Project impacts versus the Class I area significant impact levels (SILs) was conducted as summarized in Table 9.1-8a included in Resource Report 9. Listed concentrations are reflective of maximum AERMOD output concentrations predicted at receptors 50 kilometers from each proposed compressor station. Since all Class I areas are more distant than 50 kilometers and the concentration generally decreases over distance, these values are used as a conservative assessment. In all cases, this conservative review yields results at a fraction of the Class I SIL thus demonstrating the Project's insignificance at Class I areas.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 10 – Alternatives**

3. As previously requested in our comments dated either March 13, 2015 or August 11, 2015, supplement all alternative comparison data tables to also include the following parameters: steep side slopes, not just steep vertical slopes (miles); areas with landslide potential (feet or miles); interior forest (miles and acres affected during both construction and operation); major river crossings (number); number (and length crossed) of NRHP listed or eligible sites; and streams with drinking water designation (number).

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Attachment RR10-3 includes the alternative comparison tables from Resource Report 10 supplemented with the requested additional environmental data where available.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 10 – Alternatives**

4. Provide a table that compares the “straight line” alternative to Mountain Valley’s proposed route. The table should include length (miles); miles of steep side slopes crossed; acres of forest cleared; number of waterbodies crossed; number of wetlands crossed; federally listed threatened and endangered species and miles of habitat crossed; number of historic properties affected; miles of National Forest system lands crossed; other recreation or special use areas crossed; and number of residences within 50 feet. On a map, illustrate the straight line alternative in comparison to Mountain Valley’s proposed route.

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A table of environmental features crossed and a map depicting the “straight line alternative” in comparison to the Proposed Route are included as Attachments RR10-4a and RR10-4b, respectively.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 10 – Alternatives**

5. Identify the roads that could be followed by an “all highway” alternative. On a map, illustrate the highway alternative in comparison to Mountain Valley’s proposed route. Provide a table comparing impacts on the environmental resources listed above in question 10-4. Discuss the laws and regulations that may impede installing a natural gas pipeline adjacent to or within an access-controlled highway right-of-way easement.

**Response submitted January 15, 2016:**

A map that illustrates a conceptual “all highway alternative” is included in Attachment RR10-5. Roads followed by this alternative include U.S. Highway 250, U.S. Highway 19, Interstate 79, Interstate 77, U.S. Highway 58, and U.S. Highway 29. Short sections of new right-of-way would also be required at both ends of the alternative to connect the Mountain Valley Pipeline start and end points to the nearest highways. Mountain Valley expects to provide a table that compares the “all highway alternative” to the Proposed Route by January 22, 2016.

Regulations generally restrict the placement of a natural gas pipeline longitudinally within an access-controlled highway easement. There are generally no regulations that restrict placement of a natural gas pipeline adjacent to but outside of access-controlled highway rights-of-way, however paralleling a highway right-of-way has other constraints such as highway cuts and fills, elevated roadway sections, bridges, overpasses and underpasses, clover leaf and other interchanges, and adjacent commercial, industrial, and residential developments. Laws and regulations are summarized below.

The Federal Highway Administration (FHWA) historically prohibited the installation of new utility facilities within the rights-of-way of access-controlled freeways except in some extraordinary cases. This prohibition was consistent with the American Association of State Highway Transportation Officials (AASHTO) policies for longitudinal accommodation. However, with a 1988 amendment to the FHWA regulations, the FHWA's policy changed to allow each state to decide whether to permit new utility facilities within these rights-of-way, or continue to adhere to the stricter AASHTO policies (FHWA 2013).

State policies for utility installation within access controlled highways in West Virginia are described in the manual *Accommodation of Utilities on Highway Right of Way and Adjustment and Relocation of Utility Facilities on Highway Projects* (WVDOT 2007). According to WVDOT policy, with the exception of telecommunications facilities, utility installations are not be allowed longitudinally inside controlled access right of way, including the median.

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The Virginia DOT's policy and procedure affecting the accommodation of utilities within controlled access right of way are included in the Land Use Permit Regulations (24 VAC 30-151), and are summarized in the manual *Utility Manual of Instructions, Utility Relocation Policies & Procedures* (Virginia DOT 2011). The policies outlined in the VDOT utility manual apply to all investor-owned and publicly-owned utilities, but can be used as a guide in dealing with privately-owned utilities during right of way and construction activities. According to VDOT policy, new utilities will not be permitted to be installed longitudinally within the controlled access lines of any highway, except that in special cases such installations may be permitted under strictly controlled conditions and then only with the approval of the Chief Engineer. However, in each such case the utility owner must show the following:

1. That the accommodation will not adversely affect maintenance safety, design, construction, operation or stability of the highway;
2. That the accommodation will not interfere with or impair the present use or future expansion of the highway;
3. That any alternative would be contrary to the public interest; and
4. In no case will parallel installations be permitted which involves tree removal or severe tree trimming.

FHWA. 2014. Guidance on Utilization of Highway Right-of-Way, Longitudinal Accommodation of Utilities in the Interstate System Right-of-Way. Updated: 09/05/2014. Website: [http://www.fhwa.dot.gov/real\\_estate/right-of-way/policy\\_and\\_guidance/guidutil\\_a.cfm](http://www.fhwa.dot.gov/real_estate/right-of-way/policy_and_guidance/guidutil_a.cfm)

West Virginia Department of Transportation. 2007. Accommodation of Utilities on Highway Right of Way and Adjustment and Relocation of Utility Facilities on Highway Projects. WVDOT, Railroads and Utilities Unit, Division of Highways, June.

Virginia Department of Transportation. 2011. Utility Manual of Instructions, Utility Relocation Policies & Procedures. 10<sup>th</sup> Edition. January. [http://www.virginiadot.org/business/resources/right\\_of\\_way/utility\\_manual02132012\\_techrev.pdf](http://www.virginiadot.org/business/resources/right_of_way/utility_manual02132012_techrev.pdf)

**Supplemental Response submitted January 27, 2016:**

A table that compares the “all highway alternative” to the Proposed Route is included as Attachment RR10-5a.

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**Responses to Environmental Information Request  
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Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 10 – Alternatives**

8. Revise the environmental resources tables for all alternative routes in comparison to the proposed route to include data on the miles of side slopes crossed. Use that newly supplied data to support the contention that some of the alternatives (such as Alternative 1, Modified Alternative 1, and Hybrid Alternative 1) located along severe side slopes would not be suitable because they “represented insurmountable construction challenges.”

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Miles of side slopes crossed by each pipeline alternative and variation has been added to the revised environmental resource tables included in response to Resource Report 10, Question 3 (see Attachment RR10-3). Based on this new data Alternative 1 would cross about 165.1 miles of side slope, or about 51 percent of the route. As described in Section 10.5.2.1 and 10.5.2.2 of Resource Report 10, areas of side slope are crossed by both the Modified Alternative 1 and Hybrid Alternative 1, and use of either of these alternatives would not avoid construction issues associated with side slope.

Respondent: John Uhrin  
Position: Construction Director  
Phone Number: 724-873-3497

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**Federal Energy Regulatory Commission**

**Request:**

**Resource Report 10 – Alternatives**

16. As previously requested in our comments dated August 11, 2015, include applicable information for all proposed and alternate compressor station sites as described in section 10.4 of our *Guidance Manual for Environmental Report Preparation* (such as land availability, wetlands, waterbodies, and zoning) and provide comparative data in tables including total parcel size, area disturbed during construction, and area used during operation. Include information on the location and number of NSAs for all four directions (not just the closest). Show the actual size and shape of the specific parcels for the proposed and alternative compressor station sites on figures 10.7-1a, 10.7-1b, 10.7-2a, 10.7-2b, 10.7-3a, and 10.7-3b not just map dots or generic rectangles.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Tables providing available comparative data for alternative compressor station sites are included in Attachment RR10-16a. The location and number of NSAs in all four directions, not just the closest, are shown on Figures 10.7-1b, 10.7-2b, and 10.7-3b that were included with Resource Report 10. Attachment RR10-16b includes revised figures showing the outlines of the calculated area of disturbance required for construction of the proposed sites, and the estimated area of disturbance for construction of the alternative sites, as well as the location of the compressor station during operation at each site. Note that the “generic rectangles” shown on the figures are the actual size and shape of the sites required for operation of each compressor station (see also the compressor station plot plans included with Appendix 1C2 of Resource Report 1).

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 10 – Alternatives**

20. Evaluate the feature “Old growth forest crossed within National Forest” for all alternatives that cross National Forest System lands. For example, the feature is presented in table 10.6-4 but it is not presented in table 10.5-4 with the East Tennessee Natural Gas (ETNG) Alternative crossing National Forest System lands.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley received data from the Jefferson National Forest on old growth forest crossed by the proposed route and variations 110, 110J, and 110R. This data formed the basis for Mountain Valley’s evaluation of the old growth forest crossed by the proposed route and variations 110, 110J, and 110R in Section 10.6-4 and Table 10.6-4 of Resource Report 10. Mountain Valley does not have access to similar data for other pipeline alternatives or variations, and has not been able to identify a publicly-available source for this data. Therefore Mountain Valley is not able to evaluate this feature for other alternatives and variations.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



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**Request:**

**Supplemental Filing – December 7, 2015**

*Waterbody Crossing Drawings*

1. On December 7, 2015, Mountain Valley filed site-specific waterbody crossing profile drawings for the Elk River, Gauley River, Greenbrier River, Little Kanawha River, and Pigg River. Table 2-A-2 lists the crossing length for the Pigg River as 83 feet. Clarify why a site-specific drawing was provided for this crossing. Also, according to table 2-A-2 the Left Fork Holly River has a crossing length of 151 feet. Provide a site-specific crossing plan for this waterbody.

**Response submitted January 15, 2016:**

Mountain Valley expects to provide a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The Pigg River was erroneously classified as a major waterbody and has been re-classified as an intermediate waterbody and no longer requires a site-specific drawing. Left Fork Holly River was also erroneously labeled as having a crossing length of 151 feet. The correct Left Fork Holly River bank width is about 60 feet and is therefore considered an intermediate waterbody; therefore, a site-specific crossing plan for Left Fork Holly River was not developed.

Mountain Valley expects to provide a revised Table 2-A-2 by February 26, 2016. The above information will be reflected in the revised table.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Responses to Environmental Information Request  
Dated December 24, 2015**

**U.S. Environmental Protection Agency Comments on the Application**

**Request:**

**Resource Report 1 – General Project Description**

General        The Purpose and Need Statement (P&N) should present the need, “problem” or deficiency for energy conveyance, the need for the project in the proposed location and the need for the project at this time, including the market. It would be useful to explain to the public how the project fits into the network of pipelines, how need is demonstrated to FERC and the public in light of other proposed projects. The purpose and need should go beyond the applicant’s need for the project and should for example include addressing specific quantifiable, measurable energy demand for the target area.

Questions are presented below. Some responses may be appropriate in the P&N, other responses may be addressed in other chapters of the Draft EIS. It might be helpful to cite in Executive Summary and early chapters where additional information can be found in the EIS (body, appendices or Resource Reports) when it is prepared.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley has further addressed the purpose and need for the Project in an Answer submitted on the FERC docket on January 27, 2016. Attachment RR1-EPA1 includes a copy of the Answer.

Respondent: Shawn Posey  
Position: Senior Vice President - Construction and Engineering  
Phone Number: 412-395-3931

**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
Docket No. CP16-10-000**

**Responses to Environmental Information Request  
Dated December 24, 2015**

**U.S. Environmental Protection Agency Comments on the Application**

**Request:**

**Resource Report 1 – General Project Description**

Page 1-23      Any chemicals and waste caused from welding and construction of the pipeline should be discussed. This description should include any environmental effects on water output from hydrostatic testing.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Any remaining debris from the welding and construction of the pipeline would be in a solid state and if external to the pipeline would be collected and disposed of per governing regulations in each state. The pipeline will be cleaned with multiple cleaning pig runs. The pipeline will then be hydrostatically tested with water. The test water will be pushed into holding tanks for solid debris settling. The water will then be pumped out of the tanks through a filter system to collect any carryover debris prior to permitted discharge back into the environment. The settled tank material and filtered material will be disposed of per governing regulations in each state.

Respondent: Shawn Posey  
Position: Senior Vice President - Construction and Engineering  
Phone Number: 412-395-3931

**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
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**Request:**

**Resource Report 1 – General Project Description**

Page 1-23      The chemical properties and use of the epoxy coating in the construction process should be described in the draft EIS.

**Response submitted January 15, 2016:**


Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

FERC can elect to address this comment in the EIS. For supporting information pertaining to this statement, Mountain Valley currently plans to use a two-part epoxy product called Denso Protal 7200, which is VOC-free and described as “Safe and environmentally friendly.” A copy of the product data sheet is included below.

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PRODUCT DATA SHEET	
<h1>PROTAL 7200</h1> <h2>Fast Cure, High Build Pipeline Coating</h2>	
<b>Description</b>	Protal 7200 is a VOC free, 100% solids, 2 part epoxy coating specially formulated to compliment FBE coated pipe. It is a high build liquid coating that is brush or spray applied (referred to as Protal 7250 in Canada) in one coat in the field or shop. It cures very fast to allow quick handling and backfill times.
<b>Uses</b>	On-site protection of girth welds, tie-ins, welds for boring applications, repairs to FBE, push-rack applications, station piping, fittings and fabrication. Also used for main line pipe coating, sacrificial coating for directional drill (ARD) and road bore pipe, and rehabilitation of existing pipelines.
<b>Features</b>	<ul style="list-style-type: none"><li>• Fast touch dry and set times</li><li>• High temperature resistance up to 203°F (95°C)</li><li>• High build (up to 50 mils in one coat)</li><li>• Excellent adhesion (compliments FBE coated pipe)</li><li>• High abrasion resistance for drilling applications</li><li>• Can be used as an abrasion resistant coating (ARO)</li><li>• Safe and environmentally friendly</li><li>• Does not shield cathodic protection</li><li>• Can be applied with brush, roller or spray</li><li>• Available in a variety of packaging options</li><li>• Meets AWWAC-210-92 specifications</li></ul>
<b>Application</b>	<p><b>Brush:</b> Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10/NACE No. 2. Appropriate angular grit shall be used to achieve a 2.5 to 5 mil anchor profile. Initially stir the base and hardener. Add the hardener to base and mix at a slow speed until a constant color is achieved making sure all sides of container are scraped. Apply mixed material onto surface and brush, trowel or roll to required mil thickness. A wet-film thickness gauge shall be used to measure mil thickness. If surface temperature falls below 50°F (10°C), surface should be preheated to achieve faster cure. Preheat may be achieved with a propane torch or induction coil. Resin and hardener component shall be kept warm, at a minimum of 60°F (15°C), to mix easily.</p> <p><b>Spray:</b> Prepare surfaces by grit blasting to a clean near-white finish, SSPC-SP 10/NACE No. 2. The equipment should be a plural component airless spray unit with a proportioning pump capable of a volume mixing ratio of 3:1. Standard ancillary equipment should include minimum 10 gallon hoppers, 2 ea. static mixers, 25 ft. max x 1/4" whip hose, and mastic gun with a 19 to 27 thou tip. (Applicator should consult with Denso regarding recommended equipment). Part A should be heated to 140°F-160°F and Part B heated to 100°F-110°F. Hose bundle shall be set at 140°F-150°F. A wet on wet spray technique should be used to achieve a minimum thickness of 20 mils. The coating thickness should be measured using a wet-film thickness gauge. The equipment settings are only guidelines and may vary based on equipment.</p> <p>For complete application instructions please refer to Protal 7200 application specifications.</p>
	

Respondent: Shawn Posey  
Position: Senior Vice President - Construction and Engineering  
Phone Number: 412-395-3931

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**Request:**

**Resource Report 1 – General Project Description**

Page 1-26      Unsaturated wetlands may depend on the time of year, conditions and weather at the time. Additionally, wetland soils that are observed as “unsaturated” may still be hydric and delineated as wetlands. Mountain Valley Pipeline should consider building practices that protect wetland soils beyond wetlands with standing water.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A discussion on construction in unsaturated and saturated wetlands is provided in Resource Report 1, Section 1.4.1.1. Mountain Valley will adhere to the FERC Plan and Procedures to minimize impacts on hydric soils.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 1 – General Project Description**

Page 1-39      The document should mention how much of the pipeline’s route might fall under the exception in herbaceous vegetative cover. Regarding the statement that some right-of-way will not be returned to the original land contours to prevent erosion, approximately how much of the pipeline’s route might fall under this exception?

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

The pipeline right-of-way will be maintained with herbaceous vegetation. Where necessary, topographic contours may not be returned to pre-existing conditions in order to prevent or minimize the potential for erosion.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 1 – General Project Description**

Page 1-40      To what extent would soil compaction prevent successful and natural revegetation. Explain if monitoring of succession will take place and if there are contingencies if it is prevented.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A discussion on soil compaction is provided in Section 7.1.2.3 of Resource Report 7. Mountain Valley will adhere to the FERC Plan, which outlines monitoring and maintenance requirements.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 1 – General Project Description**

Page 1-61      Under “Projects Geology and Soils,” is there evidence from past pipeline projects to say how long “temporary” construction impacts last? Although construction of two projects in proximity to each other may not overlap in time, their impacts may overlap in time.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A discussion on restoration following construction of the Project is provided in Section 1.4.3 of Resource Report 1. In addition, Mountain Valley will adhere to the FERC Plan, which outlines measures for restoration.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 1 – General Project Description**

Page 1-62      The value and functions of interior forest loss should be characterized and quantified; the replacement by alternative habitat does not necessarily replace functions. Recommendations for replacement of forest and interior forest in particular should be made (e.g. identifying areas of “holes” in resources that could be restored and preserved). Edge effects may increase habitat for species that prefer open areas, but edge also favors establishment of invasive species.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

This information is provided in the Migratory Bird Habitat Conservation Plan, which is attached as Attachment General 1h.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 2 – Water Use and Quality**

Page 2-23      Soil compaction is likely neither minor nor temporary creating more water runoff. Please discuss effects of soil compaction on water resources and reference potential mitigation measures for soil compaction as it relates to water infiltration.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A discussion on soil compaction is provided in Section 7.1.2.3 of Resource Report 7. Mountain Valley will adhere to the FERC Plan, which outlines monitoring and maintenance requirements.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 2 – Water Use and Quality**

Section 2.3.2 Beyond presenting the acreage of wetlands affected by the project, it is important to know the condition of the resource and the functions and value of the wetlands to the watershed. Mountain Valley Pipeline should inventory for these factors in order to properly analyze the effects the project will have on wetland systems and the effects of any lost functions of the wetlands to the watershed.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Mountain Valley has performed wetland delineations where access has been granted by landowners. Information regarding the condition of the resource and functions and values was collected during the wetland delineations. This information is contained within the wetland reports generated that will be submitted to the USACE with Mountain Valley's Nationwide Permit applications.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

Page 3-4      This section should include if there is any known population that fish for food and their population. Subsistence fishing should be discussed and the effects the project has on populations that use fisheries to live.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Subsistence fishing potentially occurs within the vicinity of the Project; however, research from publicly available sources has not identified any human populations or demographics that rely on fisheries to live.

According to a Federal Advisory Committee report commissioned by the EPA titled *Fish Consumption and Environmental Justice*, literature on subsistence fishing practices and consumption rates is limited, and what is available is heavily focused on coastal and/or indigenous communities. The majority of formal research addresses long term disturbance issues in relation to subsistence fishing. As such, no analogous comparisons can be used to identify potential consequences to local human residents or the local fish population in the Project area. Inquiries have been made to the WVDNR and VDGIF inquiring about any known records or information regarding subsistence fishing but no reply has yet been received.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

Page 3-2      A map should illustrate the closest EFH location to the project, the distance to the closest EFH, and if there are any waterbodies impacted by the project flows to EFH streams/waterbodies.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

There are no known EFH locations in the vicinity of the Project.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 3 – Fisheries, Vegetation and Wildlife**

Page 3-44 Mountain Valley Pipeline should consider revising the impacted acreage for bats, as the trees that actually represent suitable habitat will not grow back in a reasonable timeframe. In this case, the construction right-of-way impacts may not be “temporary” because trees require a large amount of time to grow and become hollow or fall (i.e., the suitable habitat).

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

A full discussion of impacts to bat habitat is addressed in the Biological Assessment. The Biological Assessment will be filed with the Secretary once completed. See the response to Resource Report 3, Request 1.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 7 – Soils**

Section 7.3.1 There should be a calculation of the area/volume of disturbed soil from the project and an estimate of how much soil area/volume will be restored. Mountain Valley Pipeline should discuss the effectiveness of soil restoration techniques to reduce compaction and bring function back to pre-construction use.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Impacts on soils are discussed in Resource Report 7, Section 7.3. A discussion on restoration following construction of the Project is provided in Section 1.4.3 of Resource Report 1. In addition, Mountain Valley will adhere to the FERC Plan, which outlines measures for restoration.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645



**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 7 – Soils**

Page 7-19      The document should cite or describe the number of acres that will have soil compaction in the body of the document. The document should describe how 80 acres was calculated. Is this acreage of total construction impact from the project?

**Response submitted January 15, 2016:**

Section 7.3.1.3 states that *Based on the particle size, soil description of the various soil types presented by milepost in Appendices 7-A1 and 7-A2, it is expected that approximately 80 percent of the pipeline route could see some evidence of compaction.*

Mountain Valley expects to submit to FERC a table with the percentage of compacted soil by project component by January 22, 2016. See the response to Resource Report 7, Request 2.

**Supplemental Response submitted January 27, 2016:**

A table with the data on compacted soil by Project component is provide in Attachment RR7-2.

Respondent: Megan Neylon  
Position: Senior Environmental Coordinator  
Phone Number: 724-873-3645

**Mountain Valley Pipeline, LLC  
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**Request:**

**Resource Report 8 – Land Use, Recreation and Aesthetics**

Page 8-35      The sentence “Due to screening and lack of contrast there would be no visual impacts to the WMA,” should be clarified for the reader and explain in more detail. The height of the screens, what the screens will look like, and why the lack of contrast does not impair visual resources should also be described.

**Response submitted January 15, 2016:**

Mountain Valley expects to submit a response by January 22, 2016.

**Supplemental Response submitted January 27, 2016:**

Screening refers to natural vegetation in the surrounding area that will obstruct the view of the pipeline from the WMA.

Respondent: Ricky Myers  
Position: Engineering Manager  
Phone Number: 724-873-3640