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February 9, 2017

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Re: Mountain Valley Pipeline, LLC
Docket No. CP16-10-000
Responses to Data Requests issued January 27, 2017

Dear Ms. Bose:

On January 27, 2017, the Office of Energy Projects (“OEP”) of the Federal Energy Regulatory Commission (“Commission”) issued data requests to Mountain Valley Pipeline, LLC (“Mountain Valley”) with respect to Mountain Valley’s certificate application in Docket No. CP16-10-000.

Mountain Valley submits herein responses to certain data requests issued on that date. Mountain Valley expects to submit additional responses by February 16, 2017, which is within the allotted 20-day response window.

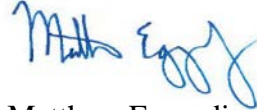
These data responses include public information, privileged information, and Critical Energy Infrastructure Information (“CEII”). The attachments that include privileged and confidential information are labeled “Contains Privileged Information – Do Not Release” or similar. The attachments that include CEII are labeled “Contains Critical Energy Infrastructure Information – Do Not Release” or similar. Mountain Valley requests that, pursuant to 18 C.F.R. § 388.112, the Commission treat the privileged information and CEII as non-public. The person to be contacted regarding the request to treat these materials as non-public is Paul Diehl, (412) 395-5540 or pdiehl@eqt.com.

Mountain Valley has attached verifications executed by the respondents.

Ms. Kimberly D. Bose
February 9, 2017
Page 2 of 2

If you have any questions, please do not hesitate to contact me at (412) 553-5786 or meggerding@eqt.com. Thank you.

Respectfully submitted,
Mountain Valley Pipeline, LLC



Matthew Eggerding
Counsel, Midstream

Attachments


cc: All Parties
Paul Friedman, OEP
Lavinia DiSanto, Cardno, Inc.
Doug Mooneyhan, Cardno, Inc.

VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Kevin Wagner, being duly sworn, upon his oath says that he is Land Director for the Mountain Valley Pipeline Project; that he is an authorized representative of Mountain Valley Pipeline, LLC; that he has read and is familiar with the foregoing responses to the Commission's January 26, 2017 data request in Docket No. CP16-10-000; that the contents of the responses are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the responses and execute this verification.


Kevin Wagner
Land Director

Subscribed and sworn before me this 8th day of February 2017.


Notary Public Travis K. Garrett
Commissioner for State of WV

Commission Expires : 4/13/2017



VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Megan Neylon, being duly sworn, upon her oath says that she is Supervisor Environmental Permitting for the Mountain Valley Pipeline Project; that she is an authorized representative of Mountain Valley Pipeline, LLC; that she has read and is familiar with the foregoing responses to the Commission's January 26, 2017 data request in Docket No. CP16-10-000; that the contents of the responses are true and correct to the best of her knowledge, information and belief; and that she has full power and authority to prepare the responses and execute this verification.



Megan Neylon
Supervisor Environmental Permitting

Subscribed and sworn before me this 8th day of February 2017.

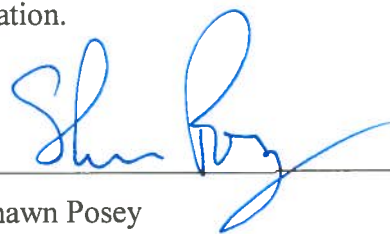


Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Melanie D. Pemberton, Notary Public
Cecil Twp., Washington County
My Commission Expires Feb. 27, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Shawn Posey, being duly sworn, upon his oath says that he is Senior Vice President - Construction and Engineering for the Mountain Valley Pipeline Project; that he is an authorized representative of Mountain Valley Pipeline, LLC; that he has read and is familiar with the foregoing responses to the Commission's January 26, 2017 data request in Docket No. CP16-10-000; that the contents of the responses are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the responses and execute this verification.

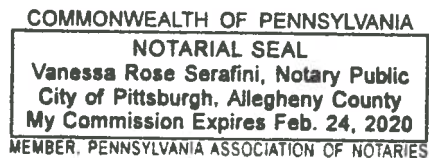


Shawn Posey
Senior Vice President - Construction
and Engineering

Subscribed and sworn before me this ^{9th ver} ~~8th~~ day of February 2017.



Notary Public



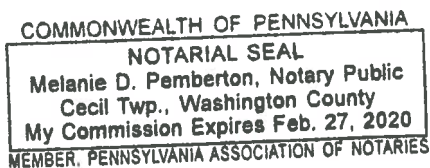
VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Ricky Myers, being duly sworn, upon his oath says that he is Engineering Manager for the Mountain Valley Pipeline Project; that he is an authorized representative of Mountain Valley Pipeline, LLC; that he has read and is familiar with the foregoing responses to the Commission's January 26, 2017 data request in Docket No. CP16-10-000; that the contents of the responses are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the responses and execute this verification.


Ricky Myers
Engineering Manager

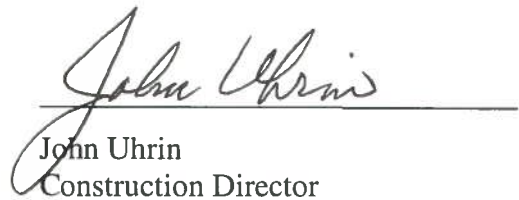
Subscribed and sworn before me this 8th day of February 2017.


Notary Public



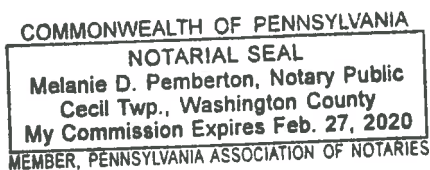
VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, John Uhrin, being duly sworn, upon his oath says that he is Construction Director for the Mountain Valley Pipeline Project; that he is an authorized representative of Mountain Valley Pipeline, LLC; that he has read and is familiar with the foregoing responses to the Commission's January 26, 2017 data request in Docket No. CP16-10-000; that the contents of the responses are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the responses and execute this verification.


John Uhrin
Construction Director

Subscribed and sworn before me this 8th day of February 2017.


Notary Public



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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

1. On June 24, 2016, Mountain Valley filed its Plan of Development (POD) for crossing federal lands. In some cases, mitigation plans included in the POD were specific to federal lands. Does Mountain Valley intend to expand those plans to apply to the entire project area, including state, municipal, and privately-owned lands along the proposed pipeline route? If not, please provide a justification. The specific plans that should be expanded to cover the entire project area include:
 - a. Environmental Compliance Management Plan;
 - b. Restoration Plan;
 - c. Stormwater Pollution Prevention Plan;
 - d. Plant and Wildlife Conservation Measures Plan;
 - e. Hazardous Materials Management Plan;
 - f. Construction Emergency Preparedness and Response Plan;
 - g. Operation, Maintenance, and Emergency Response Plan;
 - h. Framework Flagging, Fencing, and Signage Plan; and
 - i. Off-Highway Vehicle Management Plan.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

2. Document that Mountain Valley has submitted an updated SF-299 Right-of-Way Application to the U.S. Department of the Interior Bureau of Land Management (BLM) that *covers the current pipeline route* across federal lands.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

3. Address the issues raised in the following letters filed with the FERC during the draft environmental impact statement (EIS) comment period:
 - a. Accession number 20161107-0096 (U.S. Army Corps of Engineers [COE]);
 - b. Accession numbers 20161215-5124, 20161221-5281, 20161221-5281, and 20161223-5049 (BLM, U.S. Forest Service [FS], U.S. Geological Survey [USGS]);
 - c. Accession number 20161222-5394 (Commonwealth of Virginia);
 - d. Accession number 20161229-0033 (U.S. Environmental Protection Agency [EPA]);
 - e. Accession number 20160907-5211 and 20161028-5031 (re: emergency response services);
 - f. Accession number 20161222-5458 (Mr. Rubin's report);
 - g. Accession number 20161222-5459 (Roanoke County Hydrogeological Assessment);
 - h. Accession number 20161219-5056 (Johnson);
 - i. Accession number 20161222-5062 (Vance);
 - j. Accession number 20161222-5403 (Yellow Finch Lane);
 - k. Accession number 20161223-5090 (Four Corners Farm – re: shifting of alignment for Little Creek crossing);
 - l. Accession number 20161026-5020 (Bouldin); and
 - m. Accession numbers 20161222-5041 and 20161222-5118 (Besa).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

4. Address the comments provided by the following individuals during the FERC public sessions for the draft EIS:
 - a. November 2, 2016 – Rocky Mount, VA: Ginger Smithers; and
 - b. November 3, 2016 – Roanoke, VA: Martin Morrison.

Response:

- a. In the DEIS, Commission Staff recommended that Mountain Valley adopt a variation to move the pipeline farther away from the Sunshine Valley School. Subsequent to the DEIS, Mountain Valley incorporated the Sunshine Valley School Minor Route Variation into its October 2016 Proposed Route. The landowner's parcel is adjacent to the Sunshine Valley School. The landowner's requested route change would move the pipeline closer to the Sunshine Valley School, which would be contrary to Commission Staff's recommendation in the DEIS. In addition, Mountain Valley has attempted to meet on site with surveyors and other professionals to review concerns but have been denied access.
- b. Martin Morrison owns two properties that are crossed by Access Road MVP-MN-277.02 in the October 2016 Proposed Route. Parcel VA-RO-5786 was surveyed for cultural resources on October 22, 2016 and resulted in no significant findings. Mountain Valley has not conducted civil surveys on the properties. In addition, wetlands surveys have not yet been conducted, however, Mountain Valley will not fill in the referenced pond.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

5. Based on Mountain Valley's October 14, 2016 filing with the FERC, identify any new yards or access roads that would be necessary to accommodate the proposed route changes. For each new yard indicate in tabular format the milepost (MP), county/state, acres, vegetation, current land use, and data on environmental resources (waterbodies, wetlands, special status species, cultural resources, etc.) derived from surveys. For any new access roads present similar data, and indicate if it would be a temporary or permanent road.

File the results of environmental surveys for all pipeline route changes filed with the FERC by Mountain Valley on October 14, 2016, unless the route modification falls within the previous environmental survey corridor, or the data was previously provided in the public docket.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

General Project Description

6. While the draft EIS recommended that prior to construction Mountain Valley should provide the results of all environmental surveys for areas that would be affected by cathodic protection, we are now requesting that these data be provided in response to this environmental information request (EIR).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

1. Clarify whether or not the October 2016 revised proposed pipeline route would cross any state-designated aquifers. If so, provide their MP locations, and outline measures that would avoid, minimize, or mitigation project impacts on those aquifer resources.

Response:

There are no state-designated aquifers in the Project area in the state of Virginia. In addition, no state-designated aquifers or groundwater management areas are present in West Virginia based on a search of related government websites. As documented in Section 4.3.1 of the draft EIS, there are no designated sole source aquifers in West Virginia and the nearest designated sole source aquifer in Virginia is located over 100 miles from the Project area.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

2. Provide a table of septic systems within 150 feet of construction workspaces (by MP/county/state). Explain how Mountain Valley would avoid, minimize, or mitigate impacts from construction activities in close vicinity to existing septic systems.

Response:

During the land notification phase of the Project, Mountain Valley sent notices to landowners requesting certain information regarding their properties. Mountain Valley's land agents discussed with landowners whether septic systems would be located within the limit-of-disturbance. Attachment DR4 Water Resources 2 lists septic systems that landowners have identified to Mountain Valley that are within the limit-of-disturbance. In addition, Mountain Valley contacted all of the counties along the pipeline right-of-way to request mapping of any existing or planned septic systems along the Project corridor, but such information is not available in a public database.

Mountain Valley has worked with property owners to avoid and minimize any impacts to existing septic systems that are known. During construction activity, Mountain Valley will notify the property owners prior to entry of their property. At that time, Mountain Valley will inquire about any unknown obstructions in the pipeline right-of-way including any septic systems that were not previously identified. If there are septic systems or any portion of one, Mountain Valley will work with the property owner to locate the system and possibly do a minor pipeline shift within the existing right-of-way or identify other options. In addition, timber mats can be placed over the system to avoid damage to existing septic tile.

If during construction Mountain Valley damages an unidentified septic system, Mountain Valley will assess the situation, make all required notifications, and repair the system as appropriate.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

3. While the draft EIS recommended that prior to construction Mountain Valley should provide the location of all water wells, springs, and swallets within 150 feet of construction workspaces (500 feet in karst), we are now requesting that these data be provided in response to this EIR. Revise table 4.3.1-2 of the draft EIS based on survey data conducted to date along the currently proposed pipeline route. For areas that have not been surveyed, use publically available sources such as the West Virginia Geological and Economic Survey's 1986 publication, the Springs of West Virginia. Volume V-6A 1986 (associated geographic information system [GIS] data are available at West Virginia GIS Technical Center), and Mercer, Monroe, and Summers Counties by David B. Reger, Assistant Geologist, West Virginia Geological Survey 1926. Provide a site-specific justification for any missing drinking water sources.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

4. Provide by MP potential well yield ranges for the aquifers that would be crossed by the currently proposed pipeline route in West Virginia; based on publically available data, such as in the Ground-Water Hydrology of the Upper New River Basin, West Virginia (compiled by R.A. Shultz, U.S. Geological Survey 1984).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

5. In response to stakeholder comments, revise the *Water Resources Identification and Testing Plan* to include more details on the mechanism for determining compensation if a landowner's water source is impacted during construction and/or operation of the MVP.

Response:

Mountain Valley believes that the potential for impacts to private water supplies and springs is negligible. However, if a claim is made by a water supply owner, then a thorough investigation of the alleged impact will follow standard hydrologic investigative processes. This will include a review of the timing of the claim relative to the construction schedule, detailed interview with the landowner, mechanical evaluation of the water system, possible resampling and analysis of the supply, performance of a hydrogeologic assessment, and other pertinent evaluations. Because each water supply system and hydrogeologic setting is unique, the only means to establish a clear link between a water supply quality or quantity issue and Project activities is through a comprehensive evaluation.

If Mountain Valley determines that the impact was related to its pipeline construction, then the investigations described above will provide valuable information concerning the appropriate remedies. Restoration of a water supply could include:

- temporary supplied water until the water quality returns to baseline;
- connection to secondary on-site sources, if available; and/or
- temporary treatment to establish baseline quality (or better).

If the hydrogeologic assessment indicates that a long term solution is needed, Mountain Valley would provide the following as appropriate to restore water quality and quantity to pre-construction conditions:

- a permanent treatment system; or
- a new on-site source (new water well); or
- a combination of source replacement and treatment options.

Mountain Valley has revised the *Water Resources Identification and Testing Plan* to include this information. A copy of the revised plan is included as Attachment DR4 Water Resources 5.

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Respondent: Shawn Posey

Position: Senior Vice President – Engineering and Construction

Phone Number: 412-395-3931

Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

6. Table 4.3.1-2 (Springs and Swallets Identified within 500 feet of the Mountain Valley Project Construction Work Area – updated October 2016) shows an unnamed spring located within the bounds of proposed access road MVP-SU198 at MP 161.3. Describe impacts that may occur to the spring as a result of the use and modifications to the access road, and the use of the additional temporary workspace at the confluence of MVP-SU198 and the pipeline right-of-way. Discuss the potential for alternatives that would avoid or reduce impacts on the spring (e.g., the use of access road MVP-SU199 instead of MVP-SU198).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

7. There are inconsistencies between revised table 4.3.1-2 and Appendix L (Karst Features Identified within 0.25 mile of the Mountain Valley Project – updated October 2016). For example, Appendix L shows springs within 0.25 mile of construction workspace at MP 192.0 and MP 202.7, but these are not shown in table 4.3.1-2. Update table 4.3.1-2 and Appendix L, as needed, to reflect all known springs and swallets within 500 feet of MVP construction workspaces.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

8. Provide additional information about the Lafayette Church Property identified in table 4.3.1-3 as a site with potential for contaminated groundwater within 200 feet of the MVP pipeline, including the source of potential contamination, the pollutants of concern, the date on which the case was closed, and the circumstances that facilitated the closure (e.g., permit compliance, successful cleanup, etc.).

Response:

Based on a conversation with Robert Howard of the Virginia Department of Environmental Quality on February 2, 2017, the site involved the removal of a heating oil tank at a residence where some leakage of heating oil was evident. The opening of the case was reported on May 6, 2013, and the Lafayette Church Property site was closed on September 13, 2013. The state closes these types of sites per “risk-based” requirements and makes a determination of closure in cases where the contamination would not adversely affect potential receptors. Mr. Howard also stated that heating oil tanks at residences number in the tens of thousands in the state and that migration of heating oil into groundwater is much less likely than other types of petroleum products. Therefore, the potential that the Project might encounter contaminated soil or groundwater from this site is very unlikely.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

9. The number of waterbodies that would be crossed by the MVP in table 4.3.2-2 (Number of Waterbody Crossings for the Mountain Valley Project and the Equitrans Project – updated October 2016) does not match the number of waterbody crossings in Appendix F-1 (Waterbodies Crossed by the MVP - updated October 2016). For example, table 4.3.2-2 shows that 781 minor waterbody crossings would be required, but Appendix F-1 shows 899. Revise the tables to show the correct number of waterbody crossings, by flow type and FERC size classification.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

10. List the waterbody crossings, by MP/county, for which the West Virginia Department of Environmental Quality (WVDEQ) would require consultations under its Natural Streams Preservation Act, as indicated in table 1.5-1 (Major Environmental Permits, Licenses, Approvals, and Consultations Applicable to the Proposed Projects – updated October 2016). Provide anticipated dates for the start and completion of these consultations. In addition, provide the anticipated submittal date to the WVDEQ of a Section 402 Clean Water Act National Pollution Discharge Elimination System Hydrostatic Test Discharge Permit application.

Response:

The following waterbodies are protected under the Natural Streams Preservation Act of West Virginia: Greenbrier River from its confluence with Knapps Creek to its confluence with the New River; Anthony Creek from its headwaters to its confluence with the Greenbrier River; Cranberry River from its headwaters to its confluence with the Gauley River; Birch River from the Cora Brown bridge in Nicholas County to the confluence of the river with the Elk River; and New River from its confluence with the Gauley River to its confluence with the Greenbrier River. Of these waterbodies, only the Greenbrier River is crossed by the Project at MP 171.4 in Summers County.

A West Virginia Natural Streams Preservation Act application was submitted to the West Virginia Department of Environmental Protection (WVDEP) on January 27, 2017 for the Greenbrier River crossing. Consultations with the WVDEP on this issue began in Fall 2016 and will conclude after the scheduled public meetings in March 2017. It is anticipated that the Hydrostatic Test Discharge Permit Applications will be submitted to WVDEP in April 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

11. Resolve the following apparent discrepancies between the table 4.3.2-8 (Waterbodies Crossed by the Mountain Valley Project in Areas of Shallow Bedrock – updated October 2016) and revised Appendix F-1:
 - a. Appendix F-1 shows that waterbody S-A5a (UNT to Fallen Timber Run) would be crossed at MP 2.3, while table 4.3.2-8 shows the crossing at MP 2.2;
 - b. Table 4.3.2-8 shows crossings of Right Fork Holly Creek and Barbecue Run, while Appendix F-1 only shows crossings of unnamed tributaries of these waterbodies; and
 - c. Table F-1 shows several crossings of waterbodies that are presumably in areas of shallow bedrock based on the locations at which they would be crossed (e.g., Crooked Run [MP 63.0] and Little Knaw1 Creek [MP 70.0], Elliott Run [MP 74.8], Little Kanawha River [MP 74.8]), but they are not included in table 4.3.2-8.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

12. There are several inconsistencies between information provided in table 4.3.2-11 (Proposed Waterbody Crossings in the Jefferson National Forest for the Mountain Valley Project - updated October 2016) and revised Appendix F-1. For example Appendix F-1 shows that UNT to Clendennin Creek would be crossed at MP 199.8, while table 4.3.2-11 shows the crossing at 197.8. Update the tables to reflect the correct waterbody IDs, number of crossings, and crossing locations.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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

**Response to Post-Draft Environmental Impact Statement
Environmental Information Request Issued January 27, 2017**

Water Resources

13. For the revised Vertical Scour and Lateral Channel Erosion Analyses (filed October 14, 2016), provide the following information:
- a. The channel slope value that was used to estimate a D50 value at each proposed intermediate waterbody crossing. In addition, provide the distance upstream and downstream that was used to determine the channel slope value at each crossing;
 - b. Additional details of the analysis performed to determine bedrock depths at the intermediate waterbody crossings. Specify the data inputs and sources used in a step-by-step manner (i.e. a flow chart);
 - c. Specify the exact methods and timing of how bedrock depths would be verified during construction, the approval flow to determine the depth of cover, and how this information would be reported to FERC;
 - d. Should Mountain Valley use an armoring layer at a waterbody crossing to mitigate for potential scour, provide the depth to which the armoring layer would be installed as well as distances up and downstream of the pipeline crossing;
 - e. In Appendix A, the proposed pipeline burial depth for the crossing of UNT to Bottom Creek at MP 240.8 is 1.7 feet. Indicate how MVP determined that this depth of cover complies with 49 CFR 192.327. Revise Appendix A, as appropriate, to reflect the correct pipeline burial depth; and
 - f. In Appendix A, the proposed pipeline burial depth is listed as, “3 (4 if Navigable Waterbody) for several waterbodies that are not identified in project documentation as being navigable waters under Section 10 of the Rivers and Harbors Act or as having been ‘studied for Section 10 status but official determinations have not yet been made.’ Clarify these apparent discrepancies.

Response:

- a. Mountain Valley has provided a table as Attachment DR4 Water Resources 13a with the channel slope values that were used to estimate a D50 for each proposed intermediate waterbody crossing. Channel slope estimates were calculated using points approximately 1,000 feet upstream and downstream of each proposed pipeline crossing. These distances were used to filter

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noise (i.e., pool/riffle features, nick points, large boulders, etc.) in the longitudinal profile of the stream.

- b. The flow chart is provided as Attachment DR4 Water Resources 13b.
- c. Mountain Valley expects to submit a response by February 16, 2017.
- d. Mountain Valley expects to submit a response by February 16, 2017.
- e. The updated Vertical Scour and Lateral Channel Erosion Analyses with the correct burial depth is provided as Attachment DR4 Water Resources 13e.
- f. An updated Table 5-1 is included in the updated Vertical Scour and Lateral Channel Erosion Analyses in Attachment DR4 Water Resources 13e.

The updated “Mitigation ID A” states that waterbodies with estimated scour depths shallower than 2.25 feet will be installed per 49 CFR 192.327. If there is an instance in which the waterbody does not have an official determination of its navigability, it will be buried with a minimum 4-foot depth of cover. The previous listing of “3 (4 if Navigable Waterbody)” (which has been revised in the report to list “3 or 4”) for the proposed pipeline burial depth column of Appendix A does not indicate that all waterbodies with it are navigable.

For example, Jonnikin Creek (MP 284.8) has an estimated scour depth of 1.6 feet and is not a navigable waterbody. It will be buried at a 3-foot depth. The Elk River (MP 87.3) has an estimated scour depth of 0.1 feet and is navigable, and thus, will be buried at a 4-foot depth. Both would have “3 or 4” in their respective proposed pipeline burial depth column.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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14. Provide the location for crossings by the proposed pipeline (by MP/county/state) of all first-order streams. Explain the measures that Mountain Valley would implement to avoid, minimize, or mitigate project impacts at these stream crossing locations.

Response:

Attachment DR4 Water Resources 14 provides the locations of ephemeral/intermittent streams that originate within the designated 300-foot wetland survey corridor or limit of disturbance (LOD) and maintains first order status within the LOD. Mountain Valley avoided first-order streams to the extent practicable during the routing process. Streams will be restored to original contours and impacts will be minimized by utilizing the state-approved erosion and sediment control plans, the FERC Plan and Procedures, the state-approved stormwater management plans, and best management practices.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

15. For table 4.3.2-12 (Mountain Valley Pipeline Locations Paralleling Waterbodies within 15 Feet – updated October 2016), address the following comments:
- a. Confirm whether or not route surveys were done along the proposed waterbody crossing MP 245.4 (UNT to Mill Creek). If surveys are complete, revise the site-specific justification to reflect the survey findings; and
 - b. The proposed project route parallels waterbody S-L35 (Riley Branch) near MP 124.8, but this is not reported in table 4.3.2-12. Clarify this apparent discrepancy.

Response:

- a. There are two waterbodies crossed near MP 245.4. Both of these waterbodies are an UNT to Mill Creek. S-Y8 is at MP 245.4 and S-Y9 is slightly to the north. Both were surveyed on July 14, 2015. The site-specific justification for inserting into table 4.3.2-12 is below:

State/ County	Waterbody Name	MP	Distance to Route (feet)	Acres Within 15 feet of Pipeline	Site Specific Justification
Virginia					
Roanoke	UNT/Mill Creek	245.4	10.7	0.002	Pipeline is routed to avoid impacts to inhabited residences.

- b. The identified waterbody, actually near MP 124.7, should have been included in table 4.3.2.12. The information for inserting this waterbody into table 4.3.2.12 is below:

State/ County	Waterbody Name	MP	Distance to Route (feet)	Acres Within 15 feet of Pipeline	Site Specific Justification
West Virginia					
Nicholas	S-L35 (Riley Branch)	124.7	10	0.34	Pipeline is routed to follow contours in this location and to allow for perpendicular crossings of this same waterbody on either side of the identified segment.

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Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

16. Table 4.1.1-9 (Flood Zone and Class of Pipe Crossed by the Mountain Valley Project –updated October 2016) shows a crossing of Rocky Creek at MP 287.2. However, Appendix F-1 does not include a crossing of Rocky Creek (only unnamed tributaries of Rocky Creek are listed). Clarify the apparent discrepancy.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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17. Address the following apparent discrepancies between the revised Appendix F-1 and the October 2016 alignment sheets:
 - a. The waterbody crossed at MP 1.3 is named S-J66 (unnamed tributary [UNT] to North Fork Fishing Creek) in Appendix F-1 but appears as both S-J66 and S-A4 in the revised alignment sheets (see Attachment C_01_MVP Wetzel County Alignment Sheets-1 and Attachment C_01_MVP Access Road Detail Sheets_Aerial-1, respectively); and
 - b. Appendix F-1 shows waterbody S-L35 as being crossed one time for a total of 4.2 feet. However, the October 2016 alignment sheets depict several crossings of this waterbody, which would presumably result in a greater total crossing length.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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18. There are inconsistencies between revised Appendix F-1 and the Open Water land use impacts shown in table 4.8.1-1 (Land Use Types Affected by Construction and Operation of the Mountain Valley Project and the Equitrans Expansion Project – updated October 2016). For example, table 4.8.1-1 shows there would be 0.0 acre of construction impacts to Open Water due to access roads, while Appendix F-1 shows there would be 0.7 acres of temporary impacts to waterbodies due to access roads. Clarify this apparent discrepancy, and update the table(s) to reflect accurate acreages of impacts to waterbodies.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

19. Revise Appendix F tables to provide the length of pipeline crossing for all waterbodies. Provide a site-specific reason for any missing information.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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20. Since the draft EIS was issued, Mountain Valley revised Appendix F to indicate that temporary fill would be used in waterbodies. Provide site-specific plans, including details regarding materials to be used and installation and removal methods for the use of temporary fill in waterbodies. Include a detailed analysis of all reasonable alternatives to the use of temporary fill in waterbodies. Indicate if a modification to the permit application with the COE is needed.

Response:

As defined by the COE, “temporary fills must consist of materials, and be placed in a manner, that will not be eroded by expected high flows. After construction, temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations.” Temporary fill does not include soil.

Temporary fill will be placed as necessary within streams that cannot be easily spanned and may need either instream supports or culvert placement. Crossing details for the placement of fill within waterbodies is included as Attachment DR4 Water Resources 20. Stream crossings will be completed in the following manner:

1. All material, including spill kits, E&S BMPs (such as turbidity curtains, timber mats, compost filter socks, belted silt fences, etc.), pipes, water pumps, secondary containment units, and fittings shall be placed on site before starting the installation;
2. Install temporary equipment bridge, bypass hose, flume, pump, or cofferdam as described in stream crossing details around the work area;
3. Dewater work area utilizing pump water filter bags. Where possible, excavation will be from the top of the stream bank. Stockpile stream bed material separately from other soils to be used during stream restoration;
4. Install trench plugs, pipe, and backfill;
5. Stabilize channel excavation and stream banks prior to redirecting stream flow. Stockpiled stream bed material will be the last material restored in the stream channel; and
6. Remove bypass hose, flume, pump, and temporary dam as needed.

Stream crossing applications, which would include temporary fill, have been submitted to state and federal agencies with jurisdiction over these resources. There will be no long term impacts for the use of temporary fill as a result of the use of Best Management

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Practices and restoring waterbody contours to pre-existing conditions. No revisions to the state or federal permits due to temporary fill are anticipated.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

21. In response to comments on the draft EIS, provide a discussion of flash floods in the project area during the Summer of 2016. Identify by MP/county/state areas along the currently proposed pipeline route that may be susceptible to flash flooding in the case of heavy rainfall events. Outline measures that Mountain Valley would implement to avoid, minimize, or mitigate impacts from flash floods; especially in areas of steep slopes during construction.

Response:

Although the June 2016 event was a thousand-year event, Mountain Valley has plans in place in the event of flash floods. The following outline details the measures that Mountain Valley will implement to avoid, minimize, or mitigate impacts from flash floods. Mountain Valley plans to monitor the National Weather Service for advanced warning of such an occurrence. In the event that a significant rain event is predicted, Mountain Valley will take the following precautions regarding personnel:

- all personnel would be notified through communication via cell phones and/or radio;
- all personnel would be evacuated to safe locations; and
- all personnel will be accounted for post-muster.

To the maximum extent practicable, Mountain Valley will take the following precautions:

- construction equipment will be moved out of the 100 year flood plains;
- construction materials will be moved out of the 100 year flood plains;
- all environmental controls will be checked and stabilized as necessary; and
- all environmental controls will be monitored during the rain event.

In addition, Mountain Valley's construction procedures include provisions to install each stream crossing as quickly as possible utilizing dedicated crews, which would mitigate the effects of construction in flood-prone areas.

As part of Mountain Valley's Erosion and Sedimentation Plans, which were submitted to the Commission on February 26, 2016, a provision is included for installing trench breakers and water bars along the pipeline. These devices are meant to inhibit water flowing along the pipeline and right of way and are placed at closer spacing in steeper terrain.

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In order to protect the pipeline post installation, Mountain Valley has performed a scour analysis for the potential of both vertical and lateral stream scour. The review included a stream-by-stream analysis to mitigate future impacts to the facility during flood events.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

22. In response to comments received on the draft EIS, clearly identify each inter-basin transfer of water that may or would occur associated with the withdrawal and discharge of hydrostatic test water. Describe potential impacts on aquatic resources resulting from the inter-basin transfer of water. Outline measures that Mountain Valley would implement during hydrostatic testing to avoid, minimize, or mitigate such impacts. Provide the status of any required agency coordination and permitting for hydrostatic testing not previously documented in this docket.

Response:

Mountain Valley has revised DEIS Table 4.3.2-10 to reflect the current withdrawal and discharge information. The revised table is included as Attachment DR4 Water Resources 22. The majority of withdrawals are from Municipal sources and not basins. Mountain Valley does not expect any inter-basin transfers of water associated with hydrostatic testing. In the event inter-basin transfers are necessary, Mountain Valley will adhere to the sampling, testing, and discharge requirements associated with West Virginia and Virginia's regulations.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Water Resources

23. As previously requested by the COE, provide site-specific details regarding the three open-cut wet waterbody crossings (Gauley River, Elk River, and Greenbrier River). Include details regarding specific equipment to be used, placement of the equipment (on the waterbody bank or inside the waterbody), construction methods, blasting, possible use of a temporary instream work platform (such as temporary placement of riprap), disposition of spoil (stored within or relayed to outside the waterbody), seasonal timing, expected duration of instream construction, measures used to minimize mobilization of sediment and turbidity to areas downstream of the work area, and details regarding methods to return the waterbody to pre-construction elevations.

Response:

Mountain Valley has revised the crossing method at these three crossings to be open-cut dry. See also the response to Fisheries, Question 1.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Water Resources

24. As previously requested by the COE, provide additional information regarding the extent and characteristics of streams and wetlands at the site located at 37.673207 Latitude, -80.729775 Longitude.

Response:

Stream L4 is at this specific location. The surveys from this area are documented in the Aquatic Resource Reports that will be filed with the COE as part of the Nationwide Permit.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

25. Provide the anticipated submittal date for updated COE permit applications.

Response:

Mountain Valley anticipates submitting the COE permit applications to the Pittsburgh and Huntington Districts by February 17, 2017 and to the Norfolk District by March 1, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Water Resources

26. Provide the sedimentation analysis requested by the FS in its letter dated December 20, 2016.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Wetlands

1. Table 4.3.3-2 currently shows that there are no operational (permanent) impacts to wetlands by access roads, which is inconsistent with the 0.8 acres of permanent wetland impacts by access roads currently indicated in Appendix G-1. Resolve the apparent discrepancy and update tables accordingly.

Response:

Mountain Valley expects to submit a respond by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Wetlands

2. Clarify the following on Appendix G-1:
 - a. Footnote #6 refers only to PEM wetlands being temporarily impacted, which is not consistent with what is indicated within that column (for example, W-A20-PFO with 0.0187 acres of construction impact only);
 - b. Footnote #7 refers only to PSS and PFO wetlands being permanently impacted and permanent impacts being only due to conversion, which is not consistent with what is indicated within that column (for example, PEM wetland W-A1a has 0.0003 acres of operational impact within the permanent pipeline right-of-way).
 - c. Footnote #6 on Appendix G-1 states that construction impacts include those within the permanent right-of-way; there are several instances where operational impacts are larger than construction impacts, which should not be the case if construction impacts include the permanent right-of-way as indicated by the footnotes (for example, W-A27-PEM – should be 0.0497 acres of PEM wetland impacts during construction, 0.0337 acres of which would be permanently impacted during pipeline operation; therefore, the 0.0337 acres of operation impact in the permanent pipeline right-of-way should be included as a construction impact as well; another example, W-K25 – should be 0.055 acres of PEM wetland impacts during construction, 0.0312 acres of which would be permanently impacted during pipeline operation; therefore, the 0.0312 acres of operation impact in the permanent pipeline right-of-way should be included as a construction impact as well). Revise the table to present “Construction Impacts” as combined construction and operational impacts.
 - d. Define ‘span’ as a crossing method in Appendix G-1.

Response:

- a. Mountain Valley expects to submit a respond by February 16, 2017.
- b. Mountain Valley expects to submit a respond by February 16, 2017.
- c. Mountain Valley expects to submit a respond by February 16, 2017.
- d. Mountain Valley expects to submit a respond by February 16, 2017.

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Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Wetlands

3. Footnote 'c' on table 4.3.3-2 states that "construction impacts include those within the operational footprint," inconsistent as in Table G-1 as outlined in the above comment #3(c).

Response:

Mountain Valley expects to submit a respond by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Wetlands

4. There is an apparent discrepancy between table 4.4.2-1 and table 4.3.3-2. Understanding that wetland numbers in table 4.4.2-1 are derived from a database, there still seems to be a large disparity between the stated 42.4 acres of wetland construction impacts and 14.3 acres of wetland operational impacts, which includes the 0.8 acres of operational impacts from access roads, and table 4.3.3-2 which states 24.41 acres of wetland construction impacts and 12.14 acres of wetland operational impacts, which does not include the 0.8 acres of operational impacts from access roads. Resolve the apparent discrepancy or provide an explanation for the discrepancy.

Response:

Mountain Valley expects to submit a respond by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Wetlands

5. Provide information concerning hydrological resources requested by the FS in its letter dated December 20, 2016.

Response:

Mountain Valley expects to submit a respond by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Fisheries

1. While the draft EIS recommended that prior to construction Mountain Valley should provide the results of quantitative modeling for turbidity and sedimentation associated with wet open-cut crossings of the Elk River, Gauley River, and Greenbrier River, in response to comments, including from the EPA, Mountain Valley should now provide the analyses in response to this EIR. The analysis should include the duration, extent, and magnitude of turbidity levels and assess the potential impacts on resident biota. In addition, assess whether a dry open-cut crossings would be feasible at the Elk, Gauley, and Greenbrier Rivers, including the possible use of coffer dams to allow construction on one-half of the waterbody crossing at a time.

Response:

Mountain Valley has revised the proposed crossing method for the Elk River, Gauley River, and Greenbrier River to be open-cut dry. Because the dry-ditch crossing technique significantly reduces the amount of sedimentation and turbidity, a quantitative analysis is not necessary.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Fisheries

2. In response to comments on the draft EIS (see accession number 20161222-5487), would Mountain Valley agree to pursue natural streambank restoration in Virginia in coordination with VDGIF and VDEQ similar to Mountain Valley's existing commitment for such restoration in West Virginia in coordination with WVDEQ? Further, indicate whether Mountain Valley would be willing to implement the subject seasonal restrictions upon hydrostatic test water discharges into the two designated trout streams.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Vegetation

1. Provide a list of commercially gathered (non-timber) forest products, such as ginseng and mushrooms, and other plants used for local medicinal purposes in the project area, as mentioned by Mary Scott in her December 20, 2016 letter to the FERC (accession number 20161220-5024), and identify the locations of these plants along the MVP pipeline route (by MP). Indicate the measures that Mountain Valley would implement to avoid, reduce, or mitigate impacts to these plants.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Vegetation

2. In response to comments on the draft EIS, suggesting that two years of monitoring for invasive species would not be sufficient, indicate whether Mountain Valley would agree to increase the duration of invasive plant species monitoring within the maintained right-of-way and temporary workspaces after initiation of service.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Shawn Posey

Position: Senior Vice President – Engineering and Construction

Phone Number: 412-395-3931

Date: February 9, 2017

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Vegetation

3. Provide the results of surveys (or a schedule for filing reports) for the following rare plants in Virginia as requested by the Virginia Department of Conservation and Recreation (VADCR):
- Chestnut lip fern (Ellison Quad);
 - Piedmont fameflower (Boone’s Mill Quad); and
 - Weak bluegrass and Prairie dropseed (Penhook Quad).

Response:

The four species mentioned are identified by the VADCR in a letter dated April 6, 2015 as potentially occurring in conservation sites adjacent to the proposed Project. This includes the Elliston Glades Conservation Site, Grassy Hill Conservation Site, and Jacks Creek Conservation Site. The Project avoids all four of these conservation sites; therefore, no surveys were conducted for these areas. The species were not observed during other plant surveys in Virginia.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Vegetation

4. A number of commentors, including the Commonwealth of Virginia, requested mitigation for direct, indirect, fragmentation, and edge effects resulting from forest clearing. Discuss measures that Mountain Valley could adopt that would minimize or mitigate for forest impacts.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Vegetation

5. Provide the protocol Mountain Valley would follow in circumstances where unforeseen additional tree clearing during construction may be required between April 1 and July 31.

Response:

In the event unforeseen additional tree clearing is needed during construction between April 1 and July 31, Mountain Valley will coordinate directly with the FWS to determine the best course of action.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Wildlife

1. Attachment A of Mountain Valley's October 27, 2016 filing states that tree clearing during the migratory bird nesting season may apply to areas in addition to those identified in the draft EIS (e.g., between MPs 23.2 and 25.9, MPs 71.3 and 73.4, MPs 108.3 and 115.6, and MPs 297.0 and 301.0). However, the updated Migratory Bird Conservation Plan filed on October 20, 2016 indicates that tree clearing during the migratory bird nesting season may be limited to the single area between MP 103.4 and 104.4. Resolve the apparent discrepancy and identify the specific areas Mountain Valley intends to clear trees within the migratory bird nesting season. Also provide a detailed explanation and rationale, beyond citing schedule requirements, for why tree clearing in these areas cannot be conducted outside of the migratory bird nesting season. Revise the Migratory Bird Conservation Plan, as necessary, to address comments from EPA and Virginia Department of Environmental Quality (see accession numbers (20161221-5087 and 20161222-5394)).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Threatened and Endangered and Special Status Species

1. File a public version of the Biological Evaluation for the Jefferson National Forest (JNF). Include an updated discussion, and any correspondence with the FS not previously filed, outlining the location and mitigation measures proposed for the population of Rock Skullcap identified during plant surveys in the JNF.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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2. Provide an assessment as to whether Locally Rare Species and Management Indicator Species would be expected to increase, decrease, or be unaffected by the MVP, based on anticipated changes to habitat resulting from the project.

Response:

National Forests (in this case Jefferson National Forest [JNF]) identifies species under various designations based on their current status, distribution, and management goals. Sensitive species are designated by the Regional Forester as species with range-wide viability concerns. Locally rare species are designated by each Forest due to concerns about their viability, specifically on Forest property. Management Indicator Species (MIS) are identified to assist with Forest planning as forest management activities may have an impact on species populations.

Two Forest sensitive species were identified during surveys on JNF: rock skullcap (*Scutellaria saxatilis*) and American barberry (*Berberis canadensis*). One population of rock skullcap is located along the proposed alignment and Pocahontas Road. This population spans approximately 3.58 acres; however, only an approximate 1.94 acres are within the construction right-of-way (ROW) as the proposed alignment was shifted in this area to avoid the majority of the population. Additionally, the construction footprint of the pipeline ROW in this area was reduced to 75 feet to minimize impacts to this species. The population identified will be decreased in this area. A second population of rock skullcap was identified on an abandoned alternative and will not be impacted by the proposed alignment. Four locations of American barberry were also observed but they are along an abandoned alternative and will not be impacted by the proposed alignment.

No locally rare plant or avian species were identified during surveys along the proposed alignment on JNF; however, an Allegheny woodrat (*Neotoma magister*) midden was identified on a crossing route variation in Giles County, Virginia. No individuals were observed and no signs of the species were identified along the proposed alignment. Most locally rare species will be unaffected by the Project as any potential impacts would be temporary. Additionally, some locally rare species (such as the Olympia marble) may increase due to the creation of suitable habitat (openings and rights-of-way).

There are thirteen MIS listed for the JNF. Biologist observations were documented during survey efforts on the JNF. Numerous sightings and calls were documented for the pileated woodpecker (*Hylatomus pileatus*), ovenbird (*Seiurus aurocapilla*), chestnut-sided warbler (*Setophaga pensylvanica*), Acadian flycatcher (*Empidonax virescens*), hooded warbler (*Setophaga citrina*), scarlet tanager (*Piranga olivacea*), pine warbler

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(*Setophaga pinus*), eastern towhee (*Pipilo erythrophthalmus*), and eastern wild turkey (*Meleagris gallopavo*). Additionally, numerous sightings (and signs – scat/tracks) of white-tailed deer (*Odocoileus virginianus*) and black bear (*Ursus americanus*) were recorded. The remaining two MIS (wild trout and Peaks of Otter salamander [*Plethodon hubrichti*]) were not observed.

Activities associated with the construction of the pipeline may result in the creation of foraging or nesting areas that could benefit MIS such as the white-tailed deer and eastern wild turkey. Locally rare species and MIS that may be negatively affected by the Project within the JNF include the pileated woodpecker and rock skullcap; however, these negative impacts are expected to be temporary.

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3. Provide information regarding the effects of the MVP on little brown bats and tri-colored bats, and document communications with the Virginia Department of Game and Inland Fisheries (VDGIF) about impacts on those species and the development of measures to avoid, reduce, or mitigate those impacts.

Response:

Correspondence with VDGIF is provided as Attachment DR4 RTE 3 and Mountain Valley will continue to coordinate with VDGIF regarding avoidance and minimization strategies for all state listed species, including the tri-colored and little brown bats.

According to VDGIF's online *Little Brown Bat and Tri-colored Bat Winter Habitat and Roosts Application* (accessed January 27, 2017), the Project does not cross within 0.5 mile of any known little brown or tri-colored bat hibernaculum. However, the Project does cross within the larger 5-mile protective buffer associated with Tawney's Cave, a cave known to host both federal and state listed bat species. Mountain Valley will adhere to FWS's time-of-year restriction for tree clearing, which is from April 1 – November 15, within 5 miles of Tawney's Cave, unless continued discussions with USFWS results in an alternative restriction.

In the event that little brown or tri-colored roosts are identified within the Project right-of-way, Mountain Valley will adhere to the following conservation measure recommended by the VDGIF to avoid take of individuals:

Between June 1 and July 31, implement a 150-foot radius buffer zone with the following restrictions: no tree removal, prescribed fire, or land disturbance within the buffer zone. This will protect the known roost tree(s) and foraging habitat close to the roost tree during the maternity season. Tree removal and prescribed fire are permitted outside these dates.

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Threatened and Endangered and Special Status Species

4. File any outstanding 2016/2017 species survey reports, including, but not limited to, survey reports for bog turtles, bald and golden eagles, and Ellett Valley millipedes in the vicinity of the MVP. Document communications with the VDGIF and the U.S. Fish and Wildlife Service (FWS) regarding those surveys, and file the agencies review of the reports.

Response:

Outstanding reports for 2016/2017 species surveys as well as communications with the respective federal and state agencies are included as Attachment DR4 RTE 4 (PRIVILEGED). Surveys for Ellett Valley millipedes have not been conducted.

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5. In response to comments on the draft DEIS, indicate whether the MVP would affect the candy darter or diamond darter. Outline measures that Mountain Valley would implement to avoid, minimize, or mitigate impacts on those species. File copies of communications with applicable resource agencies regarding impacts on those species, not previously documented in the docket.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

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Threatened and Endangered and Special Status Species

6. Document that informal consultations have been completed between Mountain Valley and the FWS regarding threatened and endangered species. File copies of the FWS review of Mountain Valley's draft Biological Assessment, not previously placed into the public docket.

Response:

Documentation of informal consultations between Mountain Valley and the U.S. Fish and Wildlife Service, including their review of the Mountain Valley draft Biological Assessment, is included in Attachment DR4 RTE 6.

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Cultural Resources

1. Refresh outreach with Indian tribes by documenting recent communications between Mountain Valley and tribes listed on table 4.10.4-2 in the draft EIS and recording their responses to the project. In particular, document conversations with the Tribal Historic Preservation Office of the Seneca Nation of New York, which indicated to the FERC staff that they would like to review copies of cultural resources reports.

Response:

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Cultural Resources

2. Document that post-application (after October 2015) Mountain Valley contacted local governments, Certified Local Governments, and local historical or archaeological organizations in West Virginia as requested by the West Virginia State Historic Preservation Office (SHPO), and file copies of correspondence with those local governments and organizations not previously in the public record.

Response:

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Cultural Resources

3. Update cultural resources data up to January 2017 in tabular format. This should include:
 - a. Miles of proposed pipeline route inventoried by Mountain Valley by county by the end of January 2017 for each county (and percent);
 - b. Number of shovel probes excavated by Mountain Valley's consultants in each county (positive/negative) during surveys (excluding site-specific evaluative testing);
 - c. Inventories completed by Mountain Valley by the end of January 2017 at all proposed ATWS, aboveground facilities, staging areas, yards, cathodic protection beds, and new or to-be-improved access roads (listed by county);
 - d. A list of all pipeline route segments, aboveground facilities, and ancillary work areas where inventories have not yet been completed (include an anticipated completion date);
 - e. All archaeological sites identified by the end of January 2017 within the direct area of potential effect (APE – 150 feet from centerline), listed by county/state, site number, cultural type, recorder company, date of recordation, MP, distance (in feet) from centerline, and evaluation; and
 - f. All historic architectural sites identified by the end of January 2017 within the direct APE, listed by county/state, site number, cultural type, recorder company, date of recordation, MP, distance (in feet) from centerline, and evaluation.

Response:

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Respondent: Megan Neylon
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Cultural Resources

4. Revise the “Master List of Identified Historic Resources,” filed on October 27, 2016, to include all sites recorded through January 2017, and add columns for 1) MP location; 2) distance (in feet) to the pipeline centerline; and 3) assessment of project effects.

Response:

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Cultural Resources

5. Clarify how many previously recorded (prior to the initiation of the FERC’s environment review of the MVP in October 2014) archaeological sites and historic architectural structures were relocated by Mountain Valley’s cultural resources consultants within the direct APE during surveys conducted between 2014 and 2017. Provide a list of all the previously recorded resources relocated by Mountain Valley’s consultants by MP, county/state, site number, cultural type, recorder and date of recordation, distance (in feet) from pipeline, and SHPO evaluation.

Response:

The requested information is summarized in the table below.

Archaeological Sites and Historic Architectural Structures Re-Located by Mountain Valley’s Cultural Resources Consultants within the Direct Effects APE <u>a/</u>							
MP	County	Site Number	Cultural Type	Originally Recorded in State Files	Relocated by MVP Consultant (Date)	Distance (ft) From Centerline	SHPO Evaluation
West Virginia							
174.2	Summers	46SU78	Prehistoric site	12/11/1980	SEARCH (1/6/2016)	0	Recommending not eligible – SHPO pending
171.6	Summers	46SU147	Prehistoric site	4/5/1981	SEARCH (1/6/2016)	0	T(2)Unevaluated T(1) Not Eligible
167.0	Summers	46SU153	Prehistoric site	4/17/1981	SEARCH (1/6/2016)	0	Not Eligible
162.9	Summers	46SU526	Prehistoric site	No Data	SEARCH (1/6/2016)	3,100	Not Eligible
114.7	Nicholas	NI-0025-0064	Historic residence	1/29/2002	Tetra Tech (10/2/2015)	100	Not Eligible
66.9	Braxton	NR 98001430	Turnpike	2/15/1998	Tetra Tech (9/15/2015)	0	Listed <u>a/</u>
59.8	Lewis	LE-0021-002	Historic residence	6/12/2000	Tetra Tech (7/6/2015)	1,330	Not Eligible
53.1	Lewis	NR 85001583	Church and cemetery	2/4/1985	Tetra Tech (7/6/2015)	95	Listed <u>a/</u>
11.2	Harrison	HS-0495-006	Historic residence	6/16/2002	Tetra Tech (6/15/2015)	160	Not Eligible
0.7	Wetzel	46WZ79	Historic site	1/19/2011.	Tetra Tech (6/18/2015)	0	Not eligible

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Archaeological Sites and Historic Architectural Structures Re-Located by Mountain Valley's Cultural Resources Consultants within the Direct Effects APE <u>a/</u>							
MP	County	Site Number	Cultural Type	Originally Recorded in State Files	Relocated by MVP Consultant (Date)	Distance (ft) From Centerline	SHPO Evaluation
Virginia							
298.7	Pittsylvania	071-5311	Historic residence	July 2011	New South (June 2015)	895	Not eligible
298.4	Pittsylvania	118-5286	Historic District	Nov. 2007	New South (June 2015)	0	Not eligible
259.0	Franklin	44FR0191	Prehistoric site	1987	Tetra Tech (5/31/2016)	0	Recommended not eligible--- SHPO Pending
255.7	Franklin	033-0389	Historic farmstead	1995	New South (June 2016)	0	Eligible <u>a/</u>
246.3	Franklin and Roanoke	080-5161	Historic district	Aug. 2007	New South (June 2015)	0	Eligible <u>a/</u>
235.4	Montgomery	44MY0054	Prehistoric site	4/11/1979	SEARCH (9/21/2106)	0	Not evaluated Avoided
221.9	Montgomery	060-0333	Historic residence	April 1986	New South (June 2016)	50	Not Eligible
226.3— 228.4	Montgomery	060-0574	Rural Historic District	1998	New South (June 2016)	0	Listed <u>a/</u>
210.8— 217.0	Giles	035-0412	Rural Historic District	2000	New South (Feb. 2016)	0	Listed <u>a/</u>
211.0	Giles	035-0005	Covered bridge	No Data	New South (Feb. 2016)	300	Eligible <u>a/</u>
206.7— 207.4	Giles	035-0018	Historic farm	1996	New South (Feb. 2016)	0	Eligible <u>a/</u>
196.35	Giles	021-5012	Appalachian Trail	2006	New South (Feb. 2016)	0	Eligible <u>b/</u>
<p>Notes:</p> <p>a/ Shading indicates resources addressed in <i>Criteria of Effects Report for the Mountain Valley Pipeline Project, Wetzel, Harrison, Doddridge, Lewis, Braxton, Webster, Nicholas, Greenbrier, Fayette, Summers, and Monroe Counties, West Virginia</i> (Tetra Tech February 2017) or <i>Mountain Valley Pipeline Criteria of Effects – Tasks 1-4 Assessment Reports for Virginia</i> (Tetra Tech February 2017).</p> <p>b/ The Appalachian National Scenic Trail is under the jurisdiction of the U.S. Forest Service (USFS). As per USFS request, Tetra Tech, on behalf of Mountain Valley, performed a Visual Impact Analysis (VIA) which assessed the potential visual impacts of the Project using the visual inventory and assessment methodology developed by the USFS. See <i>Mountain Valley Pipeline Project Appalachian National Scenic Trail Visual Impact Analysis</i> (Tetra Tech 2017).</p>							

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Cultural Resources

6. Document that relevant cultural resources reports (for the appropriate counties) were sent by Mountain Valley to all entities that signed confidentiality agreements and requested copies of reports. In particular, document that reports were sent to the following local governments or historical organizations (including citation of the report sent, and date of submittal to each organization for each report):
 - a. Roanoke Valley Preservation Foundation; and
 - b. Roanoke County Board of Supervisors.

Response:

Mountain Valley has provided copies of privileged and confidential cultural resources reports to the entities that have signed confidentiality agreements. Table 6-1 included in Attachment DR4 Cultural Resources 6 lists the counties, report titles, entities to which various confidential reports have been sent, and the dates the reports were sent. Table 6-2 included in Attachment DR4 Cultural Resources 6 lists future reports that will be prepared and anticipated dates future reports will be sent. Mountain Valley will continue to send all confidential reports, as appropriate, to these entities as they are filed with the Commission.

The tables included in Attachment DR4 Cultural Resources 6 highlights reports previously sent to and anticipated to be sent to:

- a. Roanoke Valley Preservation Foundation; and
- b. Roanoke County Board of Supervisors.

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Cultural Resources

7. Mountain Valley should provide Tunis McElwain and Maury Johnson, individuals who requested copies of cultural resources survey reports in letters dated December 1 and 5, 2016, with an opportunity to sign a confidentiality agreement. If they sign the agreement, document that Mountain Valley sent them copies of the cultural resources survey reports for Webster and Monroe Counties, West Virginia, respectively.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

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Cultural Resources

8. File copies of reviews by the respective SHPOs of the following cultural resource investigation reports:
 - a. Espino et al. June 2016, Mountain Valley Pipeline Project, Phase II Archaeological Investigations, Sites 46DO94, 46HS100, 46HS101, 46HS104, 46HS109, 46HS125, and 46LE77, Doddridge, Harrison, and Lewis Counties, West Virginia;
 - b. Clement et al. July 2016, Mountain Valley Pipeline Project, Phase II Archaeological Investigations, Site 46WB407, 46WB414, 46WB416, 46WB433, Webster County, West Virginia;
 - c. Espino et al. November 2016. Addendum I to Volume I, Cultural Resources Survey, Mountain Valley Pipeline Project, Wetzel, Harrison, Doddridge, and Lewis Counties, West Virginia;
 - d. Freedman et al. November 2016. Addendum I to Volume II, Cultural Resources Survey, Mountain Valley Pipeline Project, Braxton and Webster Counties, West Virginia;
 - e. Freedman et al. December 2016. Addendum I to Volume IV, Cultural Resources Survey, Mountain Valley Pipeline Project, Summers and Monroe Counties, West Virginia;
 - f. Reeve et al. November 2016. Mountain Valley Pipeline Project, Phase I Archaeological Investigations, Craig Creek to Brush Mountain Route Survey in Jefferson National Forest, Monroe County, West Virginia, and Giles County, Virginia;
 - g. Reeve et al, November 2016, Mountain Valley Pipeline Project, Phase I Archaeological Investigations in Blue Ridge Parkway, Roanoke and Franklin Counties, Virginia;
 - h. Reeve et al. November 2016. Mountain Valley Pipeline Project, Phase IB Archaeological Survey Report Addendum 2, and Phase II Archaeological Evaluation, Site 44PY0442, Pittsylvania County, Virginia;
 - i. Reeve et al. December 2016. Mountain Valley Pipeline Project, Phase IB Archaeological Survey Report Addendum 1, and Phase II Archaeological Evaluations, Sites 44CG0253, 44CG0254, 44GC0255, Craig County, Virginia;

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- j. Reeve et al. December 2016. Mountain Valley Pipeline Project, Phase IB Archaeological Survey Report Addendum 1, Franklin County, Virginia; and
- k. Espino et al. January 2017. Addendum 1 to Volume III, Cultural Resources Survey, Mountain Valley Pipeline Project, Nicholas, Greenbrier, and Fayette Counties, West Virginia.

Response:

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9. File the comments of the FS archaeologist on:
 - a. The FS78 Variation route survey report (Reeve et al. September 2016), filed with the FERC on October 27, 2016, and submitted to the JNF on October 10, 2016;
 - b. Craig Creek to Brush Mountain Route Survey in Jefferson National Forest, (Reeve et al. November 2016), and
 - c. The ARPA permit for Phase II testing of sites within the JNF submitted by Search on October 19, 2016 (copy of cover letter filed with the FERC on October 27, 2016). Also, provide the results of the testing, or a schedule for filing that report, together with reviews by the FS and SHPO.

Response:

- a. Mountain Valley has not yet received comments from the FS on the referenced report. When comments are received from the FS, Mountain Valley will file them with the Commission.
- b. Mountain Valley has not yet received comments from the FS on the referenced report. When comments are received from the FS, Mountain Valley will file them with the Commission.
- c. The referenced permit was approved by the FS on January 11, 2017. The signed permit is included as Attachment DR4 Cultural Resources 9c. Phase II fieldwork was initiated in January 2017 and is ongoing. A report is anticipated in March 2017. The report will be provided to the FS and will be filed with the Commission.

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Cultural Resources

10. File the comments of the National Park Service (NPS) on the Archaeological Investigation of the Blue Ridge Parkway Crossing (Reeve et al. August 2016).

Response:

Mountain Valley has received two comment letters from the NPS on the referenced report and the revision to that report. These letters are included as Attachments DR4 Cultural Resources 10a and 10b.

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11. File the results of Phase II archaeological testing at unevaluated sites along the proposed MVP pipeline route, or a schedule for when the reports would be filed, including for site 46BX114 in Braxton County, sites 46NI1846 and 1847 in Nicholas County, sites 46GB493, 498, 499, 500, 503, 504, 505, and 536 in Greenbrier County, sites 46SU78, 147, 239, 717, 722, and 724 in Summers County, and sites 46ME281 283, 284, 285, and 307 in Monroe County, West Virginia, and sites 44GS226, 227, 229, 230, 231, 232, 235, 236, and 237 in Giles County, site 44RN383 in Roanoke County, and sites 44FR360, 363, 365, 366, 370, 373, and 376 in Franklin County, Virginia, and file the reviews of the reports by the SHPOs.

Response:

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Cultural Resources

12. File the results of archival research or other Phase II evaluative investigations at historic architectural standing structures identified along the proposed MVP pipeline route in Virginia as recommended by Mountain Valley's consultants, or file plans to avoid those sites, or a schedule for submitting the research reports or avoidance plans, including for the Berean Baptist Church (35-34) and Warthen House (35-5106) and the proposed Big Stony Creek Rural Historic District (35-5127) in Giles County; Little Hope Primitive Baptist Church (80-580), Unnamed 1900 House (80-488), Elijah Henry House (80-5297) and the WDBJ Television-WSLQ Radio Transmitting Facility (8-5675) in Roanoke County; Norfolk & Southern Railroad (60-5170, 5171, and 5172) in Montgomery County; historic sites 33-5304, 33-5325, 33-5329, 33-5398, and 33-5400 in Franklin County, and file reviews of the reports or plans by the SHPO.

Response:

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Cultural Resources

13. File plans to avoid the Sam's Run Historic District (starting at Site 188) in Wetzel County, the Wiseman Residence (Historic Site 4) in Summers County, and Tilley Farmstead (Historic Site 233) in Monroe County, West Virginia; and avoidance plans for sites 46SU725, 739, and 740 in Summers County, West Virginia, and file the SHPO's review of the plans.

Response:

Attachment DR4 Cultural Resources 13 provides an aerial-based map book depicting the avoidance of the Sam's Run Historic District (Historic Site 188) in Wetzel County, the Wiseman Residence (Historic Site 4) in Summers County, and Tilley Farmstead (Historic Site 233) in Monroe County, West Virginia.

The avoidance plans for sites 46SU725, 739, and 740 in Summers County, West Virginia were provided in Addendum I to Volume IV Cultural Resources Survey, Mountain Valley Pipeline Project, Summers and Monroe Counties (Freedman et. al. December 2016). The report was filed with FERC on December 22, 2016 (Accession # 20161222-5442). Comments were received from the West Virginia Division of Culture and History on January 17, 2017 (see Attachment DR4 Cultural Resources 13).

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14. File Treatment Plans or Avoidance Plans for sites 46HS101 in Harrison County and 46LE77 in Lewis County, West Virginia, and the Road Trace at Adlai Jones Farm (35-412-466) in Giles County, and Flora Farm (33-389) in Franklin County, Virginia; and file the SHPOs' review of those plans.

Response:

Sites 46HS101 and 46LE77 were both recommended eligible for listing in the National Register of Historic Places in the report entitled Mountain Valley Pipeline Project, Phase II Archaeological Investigations, Sites 46DO94, 46HS100, 46HS101, 46HS104, 46HS109, 46HS125, and 46LE77, Doddridge, Harrison, and Lewis Counties, West Virginia (Espino et. al June 2016). In both cases the West Virginia Division of Culture and History (WVDCH) concurred that there would be no adverse effect because the Phase II investigations were extensive enough to recover the significant information. The WVDCH comments were filed with FERC July 18, 2016. Since there will be no adverse effects, no Treatment or Avoidance plans are required.

The Adlie Jones Farm (035-0412-0010) road trace (035-0412-0466) was recommended for Phase II study in the report entitled Phase I Reconnaissance Architectural Survey for the Mountain Valley Pipeline, Craig and Giles Counties, Virginia and the Virginia Department of Historic Resources (VDHR) concurred with those recommendations by letter dated May 25, 2016. The results of subsequent research, which included a review of historic USGS quadrangle maps and aerial photographs, did not confirm the presence of a historic-era road in this location. Instead, the research indicated that the alleged road trace is a tractor path or unimproved driveway providing access to the eastern portion of the property. The results of this research were provided to VDHR via email February 1, 2017 along with the recommendation that the Criteria of Effects assessment focus only on the Adlie Jones Farm (035-0412-0010) as a whole and not on the road trace (035-0412-0466), since it does not meet the requirements to be considered individually NRHP-eligible. As such, there is no adverse effect to the road trace and an avoidance plan is not required. This email correspondence is provided as Attachment DR4 Cultural Resources 14a.

An aerial map book depicting avoidance of the Flora Farmstead (033-0389) is included as Attachment DR4 Cultural Resources 14b.

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Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Cultural Resources

15. Address the letter from Stephen and Anne Bernard dated September 14, 2016 (accession number 20160919-0013) regarding archaeological site 44FR191. This site was not listed in Appendix 4F of Mountain Valley's application to the FERC and was not described in the Phase 1B archaeological survey of Franklin County, Virginia (Reeve, et al., September 2015). Explain in what filings with the FERC, Mountain Valley has documented that site 44FR191 is within the APE, has been evaluated for eligibility to the National Register of Historic Places (NRHP) with concurrence from the SHPO, document that a testing plan was presented for review, and if testing was conducted at this site file the results and SHPO review.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Cultural Resources

16. Address the letter from Alan O’Hara filed December 12, 2016 (accession number 20161207-0049). Mr. O’Hara claims there are archaeological sites on his land. Indicate if archaeological sites on Mr. O’Hara’s land were identified by Mountain Valley’s contractor, and provide the reference for where those sites were discussed in cultural resource survey reports previously filed with the FERC. If archaeological sites were not recorded on Mr. O’Hara’s property, explain why.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Cultural Resources

17. Address the letter from Zane Lawhorn, filed December 20, 2016 (accession number 20161220-5062), with regards to an historic road on the Oak Hill Farm in Monroe County, West Virginia, which he claims would be crossed by the MVP pipeline route. Indicate if this historic road was identified by Mountain Valley's contractor, and provide the reference for where the site was discussed in cultural resource survey reports previously filed with the FERC. If this historic road was not recorded, explain why. Provide the distance (in feet) from the historic road to the boundaries of MVP work areas.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Cultural Resources

18. Address the letter from Maury Johnson, dated December 5, 2016 (accession number 20161205-5227), with regards to archaeological sites on his land in Monroe County, West Virginia. Indicate if archaeological sites on Mr. Johnson's land were identified by Mountain Valley's contractor, and provide the reference for where those sites were discussed in cultural resource survey reports previously filed with the FERC. If archaeological sites were not recorded on Mr. Johnson's property, explain why.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

19. Address the letter from Dale Angle, dated December 16, 2016, with regards to archaeological sites on his land in Franklin County, Virginia. Indicate if archaeological sites on Mr. Angle's land were identified by Mountain Valley's contractor, and provide the reference for where those sites were discussed in cultural resource survey reports previously filed with the FERC. If archaeological sites were not recorded on Mr. Angle's property, explain why.

Response:

Attachment DR4 Cultural Resources 19 (PRIVILEGED) provides excerpts, tables and maps from reports that detail the archaeological investigations on the Angle property and in Franklin County.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

20. Landowners have mentioned that they reside in historic houses located in proximity to the pipeline. Indicate the distance (in feet) between the proposed pipeline and the following houses:
- a. House of Virginia McWharter at 497 Blue Grass Trail, Newport, Virginia built in 1875 (known as Willow Springs);
 - b. House of Mr. Berkley in Pence Springs, West Virginia, on Kenney's Knob, built in 1825;
 - c. House of Rebecca Dameron on Bent Mountain, built in 1865 (see letter filed November 22, 2016);
 - d. Samuel Gwinn Plantation at Old Brick Manor Farm, near Lowell, West Virginia, dating to 1868 (mentioned by David and Jeanne Schumauss in their November 17, 2016 letter);
 - e. Old home sites owned by Tunis McElwain in Webster County, West Virginia; and
 - f. House of Stephen Bernard, built in 1880, in Boone's Mill, Virginia.

Document if these historic houses were recorded and evaluated by Mountain Valley's cultural resources contractor, and provide the site number and report citation. If not recorded, explain why.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

21. Address the Tom King report filed by Matthew Fellerhoff on August 30, 2016 (accession number 20160830-5133). In particular, provide details about the Coles-Terry Rural Historic District in Roanoke County, Virginia, and indicate the distance (in feet) between resources in the District and the pipeline. Provide an assessment of project effects for the Coles-Terry Rural Historic District, including on the rural historic landscape and built environment, and file the SHPO's review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

22. Address the comments of the Greater Newport Rural Historic District Committee (GNRHDC) filed with the FERC on October 24, 2016 (accession number 20161024-5068). In particular, focus on table 1 of the GNRHDC letter, listing the resources, their evaluation, and distance in feet to the boundary of work spaces. Given that the October 14, 2016 filing with the FERC by Mountain Valley changed the proposed pipeline route within the Greater Newport Rural Historic District in Giles County, Virginia, provide a table that lists all cultural resources within the indirect APE (0.5 mile from the pipeline) in the Historic District, and their distance (in feet) from the edge of the construction right-of-way and the centerline of the newly proposed route. Also, address the comments of the GNRHDC on the draft EIS, filed December 21, 2016 (accession number 20161221-5365). Provide an assessment of project effects for the Greater Newport Rural Historic District, including on the rural historic landscape and built environment, and file the SHPO's review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

23. Address the letter of Donald Wayne Jones dated December 19, 2016 (accession number 20161219-5105) concerning the Adlai Jones Farm in Giles County, Virginia, and provide a table that lists the historic sites mentioned in his letter, and the distance (in feet) to workspaces and centerline, for:
- a. 1880s ditch;
 - b. Adlai Jones house purchased in 1923;
 - c. William Arkennedy Jones barn;
 - d. Adlai and Everett Jones house dating to 1926;
 - e. Uncle Bub Jones house;
 - f. Denny Jones corn crib;
 - g. Denny Jones house foundation;
 - h. John Jones rock wall fence;
 - i. Camper dwelling at Road Trace;
 - j. Camper dwelling at Billy Spring;
 - k. Slave quarters at Leffell farm;
 - l. Dude Smith dwelling; and
 - m. Fisher cemetery.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

24. Address the J.D. Pezzoni report filed by the Water and Power Law Group on May 9, 2016 (accession number 20160509-5155) that requested a finding of project effects for specific resources within the Greater Newport Rural Historic District and the Newport Historic District in Giles County, Virginia. Using the revised pipeline route filed October 14, 2016, recalculate the distance (in feet) between the MVP pipeline and workspace area boundaries and the historic resources listed in the Pezzoni report.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

25. Clarify the MP location and distance (in feet) of the revised proposed pipeline route filed October 14, 2016 to the exterior boundary of the Newport Historic District in Giles County, Virginia (from edge of the construction right-of-way and centerline). Illustrate the relationship of the pipeline to the Historic District boundary on a copy of a 7.5-minute USGS topographic quadrangle map. Document the distance, in feet, from workspaces to any resources in the indirect APE (0.5-mile from centerline) within the Newport Historic District. Provide an assessment of project effects for the Newport Historic District, including on the rural historic landscape and built environment, and file the SHPO's review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

26. Given that the October 14, 2016 proposed route along the adopted Mount Tabor Sinkhole Plain Variation would change the crossing of the North Fork Valley Rural Historic District, in Montgomery County, Virginia, provide a table that lists all cultural resources within the indirect APE in the Historic District, and their distance (in feet) from the edge of workspaces and the centerline. Also, provide the MPs for the segment of pipeline route that would cross through the North Fork Valley Rural Historic District, and illustrate the relationship of the pipeline to the Historic District boundary and contributing elements of the Historic District in the indirect APE on a copy of a 7.5-minute USGS topographic quadrangle map. Provide an assessment of project effects for the North Fork Valley Rural Historic District, including on the rural historic landscape and built environment, and file the SHPO's review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

27. Address the December 19, 2016 letter from Preserve Bent Mountain (accession number 20161220-5042) that requested a study of “cultural attachment” for the Bent Mountain and Poor Mountain communities in Roanoke County, Virginia. Also provide the results of additional research about the Bent Mountain Rural Historic District, as recommended by New South Associates (Turco, March 2016), and concurred with by the Virginia SHPO. Provide an assessment of project effects for the Bent Mountain Rural Historic District, including on the rural historic landscape and built environment, and file the SHPO’s review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

28. Given that the October 14, 2016 filing with the FERC by Mountain Valley changed the proposed pipeline route between about MPs 246.1 and 246.6 within the Blue Ridge Parkway Historic District in Roanoke and Franklin Counties, Virginia, provide a table that lists all cultural resources within the indirect APE (0.5 mile from the pipeline) in the Historic District, and their distance (in feet) from the edge of the construction right-of-way and the centerline of the newly proposed route. Provide an assessment of project effects for the Blue Ridge Historic District, including on the rural historic landscape and built environment, and file the NPS review of that assessment.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

29. If a SHPO makes a finding of adverse effect for any Historic District, file a District-specific treatment plan, and the SHPO's review of the plan.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

30. Address the comments of Georgia Haverty filed with the FERC on November 10, 2016 (accession number 20161110-5022). Document whether or not the Doe Creek Farm (VADHR File No. 35-18) was recorded and evaluated as an historic site by Mountain Valley's cultural resources contractor. If so, provide the report citation. If not, explain why. Indicate the distance (in feet) from Site 35-18 to MVP work area boundaries.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

31. Revise Phase IB Archaeological Survey Report Addendum 1, and Phase II Archaeological Evaluations, Sites 44CG0253, 44CG0254, 44GC0255, Craig County, Virginia (Reeve et al., December 2016) to include:
- a. Dates of the investigations;
 - b. Site number and site form for the rock shelter;
 - c. Site forms for the historic architectural sites (022-5039; 022-5042, 022-5043, and 022-5044);
 - d. Avoidance plans for the rock shelter and the four historic architectural sites (022-5039; 022-5042, 022-5043, and 022-5044); and
 - e. Copies of 7-5-minute USGS topographic quadrangle maps that illustrate the location of: 1) all areas covered by cultural resources inventories; and 2) all cultural resources identified within the survey areas.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

32. Revise Phase IB Archaeological Survey Report Addendum 1, Franklin County, Virginia (Reeve et al., December 2016) to include:
- a. Dates of the investigations;
 - b. Site numbers and site forms for the 12 historic architectural sites;
 - c. Avoidance plans for prehistoric sites 44FR387, 392, 394, and 407; and
 - d. Copies of 7-5-minute USGS topographic quadrangle maps that illustrate the location of: 1) all areas covered by cultural resources inventories; and 2) all cultural resources identified within the survey areas.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Cultural Resources

33. Revise Addendum 1 to Volume III, Cultural Resources Survey, Mountain Valley Pipeline Project, Nicholas, Greenbrier, and Fayette Counties, West Virginia (Espino et al. January 2017) to include:
- a. Dates of the investigations;
 - b. Areas surveyed, by MP, including length and acres;
 - c. Avoidance plan for cemetery in Nicholas County; and
 - d. Copies of 7-5-minute USGS topographic quadrangle maps that illustrate the location of: 1) all areas covered by cultural resources inventories; and 2) all cultural resources identified within the survey areas.

Response:

Mountain Valley has updated the referenced addendum as requested. The updated portions of the revised report are included as Attachment DR4 Cultural Resources 33a, 33b, and 33c (PRIVILEGED).

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Geology

1. Address the letter filed with the FERC by Coronado Coal on November 14, 2016 (accession number 20161114-5272). In particular, document recent communications with Coronado Coal towards reaching an agreement to cross their coal reserves and compensate for impacts. Specify (by MPs/county/state) where the proposed pipeline route would cross the Pocahontas No. 6 & No 7 coal seams, and the acres of coal reserves that may be impacted by project construction and operation at those locations.

Response:

Pocahontas No. 6 and No. 7 Coal Seam Crossings			
MP	County	State	Description
135.1	Greenbrier	WV	Enter Poca 7
139.15	Greenbrier	WV	Leave Poca 7
135	Greenbrier	WV	Enter Poca 6
135.7	Greenbrier	WV	Leave Poca 6

On November 23, 2016, a Coal Subsidence Agreement was provided to Coronado. The terms of this agreement would compensate Coronado at the time of mining for any coal that is left in-place to support the surface in the area of the proposed pipeline in both the Pocahontas 6 and 7 seams. Mountain Valley received a response from Coronado on December 13, 2016 concerning the agreement. Negotiations are ongoing.

Coronado does not have any active permits or permit applications for these coal seams, so any mining that could affect the pipeline is entirely speculative. Mountain Valley has estimated the reserve impacts to be 53,404 tons in the Pocahontas 6 and 514,547 tons in the Pocahontas 7, but actual impacts will not be able to be determined until a final mine plan is decided and the coal is or can be physically mined.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

2. Several discrepancies were observed in table 4.1.1-14 (Summary of Shallow Bedrock along the Mountain Valley Project filed on October 20, 2016). Provide a revised table or clarify the following:
 - a. The totals presented for West Virginia, Virginia, and Project Total in table 4.1.1-14 do not match the sums of the column;
 - b. The totaled distance values for both county, state, and project total in Appendix M (Shallow Bedrock along the Mountain Valley Project) do not match the county, state, and project totals presented in table 4.1.1-14; and
 - c. According to the revised Vertical Scour and Lateral Channel Erosion Analysis (filed on October 14, 2016) it is estimated that shallow bedrock (bedrock within 7 feet of the ground surface) would occur at several waterbody locations. The crossing MPs identified in the scour analysis occur outside of the shallow depth to bedrock identified in Appendix M. Provide a revised table 4.1.1-14 and Appendix M that include potential shallow depth to bedrock as identified in the scour analysis.

Response:

- a. Table 4.1.1-14 has been revised to reflect the data in Appendix M:

TABLE 4.1.1-14 (REVISED February 2017) Summary of Shallow Bedrock along the Mountain Valley Project (February 2017 Update)	
State/County	Miles of Shallow Bedrock
West Virginia	88.8 179.8
Wetzel	44.8 88.8
Harrison	20.4 22.2
Doddridge	8.3 4.6
Lewis	24.2 5.6
Braxton	5.5 13.1
Nicholas	4.6 21.4
Greenbrier	4.4 20.2
Summers	4.1 5.1
Monroe	9.4 19.9
Virginia	29.9 29.4
Giles	3.6 6.7

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TABLE 4.1.1-14 (REVISED February 2017) Summary of Shallow Bedrock along the Mountain Valley Project (February 2017 Update)	
State/County	Miles of Shallow Bedrock
Craig	0.4 0.6
Montgomery	11.9 13.0
Roanoke	3.2 3.1
Franklin	3.2 12.1
Pittsylvania	10.8 0.6
Mountain Valley Project Total	41.8 216.0
Source: USDA, 2015	
Note: Columns may not total correctly due to difference cause by rounding.	

- b. Table 4.1.1-14 has been revised to correctly reflect the data in Appendix M. See the response to sub-part (a).
- c. Table 4.1.1-14 and Appendix M and the associated text acknowledge the limitations of the shallow bedrock data as obtained from the USDA. This data is only intended to provide a general indication of where shallow bedrock might be encountered. The more detailed studies in the vicinity of waterbody crossing locations or any other locations required prior to Project construction is not inconsistent with the generalized information presented in the table. The waterbody crossing areas require more detailed depth to bedrock data due to scour concerns. Therefore, these concerns have been appropriately addressed in relation to the waterbody crossings in related sections of the draft EIS.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Geology

3. Table 4.1.2-2 (Steep Slopes along the MVP Pipeline Route on the JNF) appears to have an error as the start MP 197.5 is greater than the end MP 197.4. Resolve this apparent discrepancy.

Response:

The correct end MP is 197.8.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Geology

4. Provide updated crossing distances (miles/counties) for the Millboro Shale, Needmore Shale, and Ashe formation.

Response:

The updated bedrock geology crossing distances have been updated for Table 4.1.1-3, included as Attachment DR4 Geology 4a and in the more detailed Table 6-A-1, included as Attachment DR4 Geology 4b. The updates include crossing distances, county information, and MP start/end information for these geologic formations.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Geology

5. Provide an updated distance for the closest uranium deposit in proximity to the MVP.

Response:

The current location of the Proposed Route does not change the previously reported information regarding the closest uranium deposit. The two uranium deposits at Coles Hill in Pittsylvania County are still the closest uranium deposits located 3.8 miles from the Project.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

6. Provide updated MPs for the area of the Giles County Seismic Zone where peak horizontal ground acceleration would be on the order of 0.14 force of gravity.

Response:

For the October 2016 Proposed Route, the area between approximate MP 192 and MP 210 is mapped as a portion of the Giles County Seismic Zone associated with peak horizontal ground acceleration greater than 0.14 force of gravity.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

7. Provide updated MPs for the slopes identified to exceed the 1,580 feet length for triggered slope displacement hazards.

Response:

The only parallel slope in the Giles County Seismic Zone greater than 1,580 feet in length is located between MP 162.3 and MP 162.9 of the October 2016 Proposed Route.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Geology

8. Address the issues raised by the Indian Creek Watershed Association on December 21, 2016 (accession number 20161221-5434) and the attached report entitled “Hydrogeological Assessment of the Proposed Mountain Valley Pipeline Routes Through Subwatersheds with Tributaries to Indian Creek, Monroe County, WV” by Pamela Dodds.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

9. In response to comments on the draft EIS, provide a discussion of potential impacts due to the occurrence of a seismic event and landslide at the same time and place. Outline measures that Mountain Valley would implement to avoid, minimize, or mitigate impacts on steep slopes resulting from earthquakes and landslides.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

10. Provide the cross section results of the electrical resistivity study and analysis conducted along the Mount Tabor Variation.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

11. Mountain Valley indicated LIDAR data was not publically available for karst areas in proximity to the MVP. Provide an updated fracture trace analysis utilizing the publically available LIDAR data identified in public comments made by Mode Johnson (accession number 20161222-5305) and Pamela Ferrante (accession number 20161220-5368).

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

12. Provide the protocol Mountain Valley would follow in circumstances where unforeseen mine pools are encountered. File an unanticipated mine pool mitigation plan, and document its development in communication with applicable resource agencies.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

13. File a final Blasting Plan. Document that the plan was developed in communications with applicable resource agencies.

Response:

Mountain Valley has updated and finalized the General Blasting Plan in accordance with comments received from Virginia Department of Game and Inland Fisheries, Virginia Department of Mines, Minerals, and Energy (Accession 20161222-5394), and the United States Forest Service (Accession 20161223-5049). The final General Blasting Plan is included as Attachment DR4 Geology 13.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

14. Between MPs 196.9 and 197.4 the pipeline route descends steep slopes where National Forest System (NFS) lands are part of the temporary construction right-of-way. Revise table 4.1.2-2 from the draft EIS to include those steep slopes.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Geology

15. In response to the FS request dated December 20, 2016 for site-specific designs at high-hazard locations, Mountain Valley did not include data to show the effectiveness of its proposed measures. Document communications with the FS on this issue, and provide the requested information.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Soils

1. Updated Appendices N-1 and N-2 filed on October 20, 2016 have several instances of MPs with no Map Unit ID or soil name to accompany the entry (e.g., MP 65.4 has no soil name but impacts are listed). Clarify this apparent discrepancy and include an explanation that specifies why no map unit or soils series are identified for blank entries.

Response:

Appendix N-1 and N-2 have been updated to include all map units and soil names and are included as Attachment DR4 Soils 1a and 1b, respectively.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Soils

2. The total presented for stony/rocky soils (50.5 acres) in Appendix N-2 (Soils and Soil Limitation Crossed by the Mountain Valley Project in Virginia in Acres filed October 20, 2016) differs greatly from the summed value of that column (120 acres) resolve the apparent discrepancy.

Response:

A revised Appendix N-2, included as Attachment DR4 Soils 1b, has been updated to address the discrepancy for stony/rocky soils.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Soils

3. The prime farmlands and stony/rocky soil columns in Appendix N-4 (Soils and Soils Limitations at the Mountain Valley Project Access Roads in Acres filed October 20, 2016) contains blank cells with no symbol stating no impact. Clarify these apparent discrepancies.

Response:

A revised Appendix N-4, included as Attachment DR4 Soils 3, has been updated to address the blank cells after further review of the updated SSURGO data.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Soils

4. The total presented for shallow depth to water table (0 acres) in Appendix N-7 (Soils and Soil Limitations Crossed by the MVP Contractor Yards in Acres filed October 20, 2016) does not match the summed value of that column (4.1 acres). Resolve the apparent discrepancy.

Response:

A revised Appendix N-7, included as Attachment DR4 Soils 4 has been updated to resolve the discrepancy with shallow depth to water table.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Soils

5. Multiple discrepancies exist between the values presented in table 4.2.1-1 (Soil Limitations along the Mountain Valley Project [in acres] filed October 20, 2016) and Appendices N-1 through N-8. Specifically errors were found between the totals reported in the tables for the following facilities and categories:
- a. Pipeline Right-of-Way: prime farmland; compaction potential; water erosion potential; revegetation potential; poor drainage; and stony/rocky soils;
 - b. Compressor Stations: stony/rocky soils (temporary and permanent impacts);
 - c. Meter Stations: Compaction Potential (permanent impacts); and
 - d. Construction Yards: water erosion potential (temporary impacts).

Provide revised tables that resolve these apparent discrepancies.

Response:

Appendices N-1 through N-8 have been reviewed and Table 4.2.1-1 has been updated to reflect changes from updated SSURGO. However, the data reported in Attachments N-1 and N-2 reflect the area the pipeline crosses (50 feet). This area will be restored and no permanent impacts are expected. The temporary impact area of the pipeline is 125 feet in width and is reported in Table 4.2.2-1. A revised table, also including changes made in October 2016, with references and a note describing the above has been included as Attachment DR4 Soils 5.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Soils

6. See Table 4.2.1-1 in the draft EIS, page 4-56. Include a similar table in the JNF section 4.2.1.5.

Response:

A table similar to Table 4.2.1-1 for the JNF has been included as Attachment DR4 Soils 6.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Soils

7. See the draft EIS, page 4-64, Section 4.2.2. Provide a discussion of access roads to construction activities including effects to soil resources from construction and/or improvement of access roads, as occurs in other resource areas of the document.

Response:

Construction or improvements of access roads will affect approximately 905 acres. This activity will result in vegetation clearance that could potentially increase erosion and allow for soil compaction. After pipeline installation, approximately 688 acres of temporary roads will be returned to their previous condition and use. Mitigation measures such as those in the FERC Plan and the Project-specific Erosion and Sediment Control Plan, which include measures for the installation of erosion control devices, topsoil segregation, soil de-compaction, and revegetation, will mitigate potential impacts resulting from the temporary use of access roads.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

1. According to a filing with the FERC on October 14, 2016, Mountain Valley sent copies of its revised Traffic and Transportation Management Plan to various state and local government agencies via letters dated October 12, 2016. File copies of agency reviews of the revised plan, such as letters from the Virginia Department of Transportation, and Mountain Valley's responses to those comments.

Response:

Mountain Valley sent the initial cover letter to the Virginia Department of Transportation and the counties that are within the Project development area. These letters are included as Attachment DR4 Land Use 1a along with Mountain Valley's acknowledgement of the comments from the agencies through February 2, 2017. Mountain Valley has incorporated the comments received from the Virginia parties that have responded and have sent a revised Traffic and Transportation Management Plan which is also included as Attachment DR4 Land Use 1b.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

2. In response to comments on the draft EIS (see accession number 20161222-5415), indicate whether Mountain Valley, when crossing railroads, would commit to adhering to applicable Federal Railroad Administration safety-related requirements, and other procedures requested by companies that own or operate the railroads or rights-of-way being crossed.

Response:

Mountain Valley will adhere to the applicable Federal Railroad Administration safety-related requirements when crossing railroad property or rights-of-way.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

3. File an analysis of recreational use of the Gauley River in West Virginia, including for white-water rafting, such as the number of river users and season of use. Explain how Mountain Valley would reduce or mitigate impacts on recreational users of the Gauley River during its construction across the river at about MP 118.6.

Response:

The Gauley River is used for recreational purposes, including organized white-water rafting. The Summersville Dam, which is the closest point on the Gauley River for organized white-water rafting, is located approximately 10 miles downstream of MP 124; therefore, no impacts to white-water rafting are expected on the Gauley River.

The pipeline route would cross the Gauley River near MP 118.9 in West Virginia using the open-cut dry ditch method. This section of the Gauley River from Cherry River (Curtin Bridge) to Persinger Creek in Nicholas County, West Virginia was identified as a “known kayaking area” by Joseph Herbstritt (Accession # 20160909-5158); however, there is limited publicly available information regarding the accessibility and/or popularity of rafting along this section of the river (American Whitewater 2017). By using the open-cut dry crossing method, Mountain Valley will utilize coffer dams, which will limit construction to half of the waterbody at a time and hence will maintain water access through the pipeline crossing area for recreational users.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

4. Indicate if the MVP pipeline route would cross Lowell Road in the vicinity of MP 173 in Summers County, West Virginia. Determine if Lowell Road has been officially designated as a “West Virginia Backway,” as claimed by David and Jeanne Schmauss in their November 17, 2016 letter to the FERC (accession number 20161125-0016).

Response:

The pipeline route would cross Lowell Road (County Road 15) near MP 171.9 in Summers County, West Virginia.

Previously, Mountain Valley reviewed publicly available datasets, including West Virginia State Scenic Byways (WV Department of Transportation), National Scenic Byway Program All Byways and Scenic Byways (US Census Bureau, US National Scenic Byway Program) as well as West Virginia Managed Lands, West Virginia State Parks (WV Division of Natural Resources) and the Protected Areas Database (USGS Gap Analysis Program). None of these datasets identified Lowell Road as a “West Virginia Backway;” however, according to the *West Virginia Byways & Backways* guide, State Road 3 and County Roads 12, 15 and 17 on the northern/western side of the Greenbrier River are part of the state-designated Lower Greenbrier River Byway and the Lowell Backway (West Virginia n.d.).

Literature Cited:

West Virginia. n.d. West Virginia Byways and Backways. Available online at: <http://documentslide.com/documents/wv-byways-and-backways-guide.html>. Accessed on January 31, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

5. Utilizing the most correct route of the Appalachian National Scenic Trail (ANST, Forest Trail #1) is critical to visual analyses. Provide current ANST centerline data that is available from the Appalachian Trail Conservancy (ATC), which must be utilized to meet the FS criteria. Obtain FS approval on the data and any updated maps and figures before filing the data with FERC.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

6. Address the letter from the ATC, filed December 8, 2016 (accession number 20161208-5043), and the letter from the FS filed December 12, 2016. In particular, provide updated visual impact analyses of the ANST, using both “leaf-on” and “leaf-off” simulations of the pipeline route at the crossing location, and from other Key Observation Points (KOP) at highly visited nearby locations along the ANST, including Angels Rest, Dragon Tooth, Kelly Knob, and “middle ground” and background views within the JNF.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

7. Attachment A of Mountain Valley’s December 22, 2016 filing restates coordination with the ATC and local chapters that occurred before the release of the draft EIS and states that Mountain Valley provided information from July to the NPS in early December 2016. Document communications with the NPS, FS, ATC, and local clubs that occurred after the release of the draft EIS on September 16, 2016 regarding visual simulations and KOP related to the ANST, that are not already in the public record for this proceeding. Address:
- a. The December 22, 2016 comments of the NPS (Accession No. 20161223-5049) that “The NPS, ATC, and local trail clubs have not been consulted on the change that was adopted in July 2016, prior to release of the DEIS. This plan was just recently submitted to the NPS and we will need more time to review this information beyond the DEIS comment period and review process;”
 - b. The December 14, 2016 comments of the ATC (Accession No. 20161215-0009) that as of the date of that filing “no coordination with the ATC or local ATC clubs has occurred;” and
 - c. The December 20, 2016 comment of the Roanoke Appalachian Trail Club (Accession No. 20161220-5163) that “MVP has made no contact nor any attempt at coordination with RATC, and it would now be too late for any meaningful contact,” and that “The only visual impact photo supplied by FERC or the applicant is not even located at the proposed ANST crossing (because both locations we saw flagged were primarily in clearings), was taken when the leaves were on, and makes no attempt to satisfy criteria provided by the USFS in the March 9, 2016 comments on the original MVP Resource Reports.”

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

8. Attachment B of Mountain Valley’s December 22, 2016 filing states that “Mountain Valley has consistently been conducting visual simulations at KOP’s defined by the Forest Service over months of coordination.” Indicate:
- a. The dates of these visual simulations;
 - b. Whether the KOP were limited to those defined by the FS; and
 - c. The “dozens of points already reviewed” related to the ANST.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

9. Per the letter dated December 12, 2016 from the FS, update the “seen area” analysis using the currently proposed pipeline route, and perform leaf-off surveys to field verify potential impacts on scenery (including but not limited to views of Sinking Creek and Brush Mountains from State Route 42 and residences along Craig Creek; and roads, trails and communities in valleys on either side of Peters Mountain). Mountain Valley should field verify travelways on NFS lands, including roads and trails, photographing the locations. The narrative analysis should discuss the lengths along those travelways, duration of view, and angle and aspect of view where the pipeline corridor would be visible along those travelways, in order to assess whether the JNF Scenic Integrity Objectives (SIO) would be met. Document communication with the FS and BLM before completion of the updated seen area analysis to ensure that meets agency requirements.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

10. File an analysis of the locations and acres of the pipeline route visible on the JNF from the ANST where the Scenic Integrity Objective (SIO) would be changed from High or Moderate to a lower SIO as a result of proposed Plan Amendment 1 to reallocate 186 acres to prescription area 5C.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Land Use, Transportation, Recreation, and Visual Resources

11. Address the letter dated December 19, 2016 from the Virginia Outdoors Foundation (VOF, accession number 20161219-5102). In particular, provide an analysis of project impacts from a proposed access road across VOF Parcel #102-00-01-02-0000; and a copy of a 7.5-minute USGS topographic quadrangle map showing the access road in relationship to the VOF parcel and Honeysuckle Road.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

12. Acreage impacts from access roads provided in the updated land use impact tables filed on October 20, 2016 (DEIS table 2.3-1 and DEIS table 4.8.1-1) are not consistent with the total acreage impacts calculated from the updated access road table (DEIS Appendix E-1) also filed on October 20, 2016. Many of the access roads in the updated Appendix E-1 still contain “TBD” for information such as status, existing surface type, proposed modifications, and anticipated acres of improvements. Additionally, due to formatting or other reasons many of the updates provided in the updated Appendix E-1 are not visible. Provide an updated access road table with the missing information and provide revised tables for access roads and/or land use that consistently report the acreage impacts from access roads. For access roads that have not yet been surveyed, use a desktop analysis to estimate acreage impacts and potential need for upgrades. Ensure the table is formatted to show all updates.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

13. Several tables from the October 2016 submittal included updated acreage numbers but had project total or subtotal rows or columns that were not updated. Ensure all tables contain updated subtotals and totals to reflect the new acreages impacted, including, but not limited to, tables: 2.3-1, 4.3.3-1, 4.4.2-1, and 4.8.1-1.

Response:

Tables 2.3-1, 4.3.3-1, 4.4.2-1, and 4.8.1-1 have been revised to reflect updated subtotals and totals and are provided as Attachment DR4 Land Use 13. Mountain Valley reviewed all other tables and did not find errors in the totals or subtotals.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

14. Clarify the following issues with the residential site specific plans and table 8-C:
- a. Drawing number RSS-H600-138 shows a structure labelled as a “House” within 44.6 feet of work space as well as three other structures but the drawing number is not listed in table 8-C. Update table 8-C to include a reference to this drawing number and these structures; and
 - b. Residential site specific plans are included for structures labelled “Building” in drawing numbers RSS-H600-030 and RSS-H600-085. Clarify whether these structures are residences.

Response:

- a. Drawing number RSS-H600-138 filed on April 21, 2016 identified several structures within 50 feet of the construction workspace for access road MVP-MN-264. As indicated in Appendix E-1 (Access Roads for the Mountain Valley Pipeline) filed on October 20, 2016 for the October 2016 Proposed Route, access road MVP-MN-264 has been removed from the Project; therefore, the structures identified on drawing RSS-H600-138 are no longer within 50 feet of the construction workspace for the Project.
- b. The structure identified as a “Building” in drawing RSS-H600-030 is a shed, not a residence. In drawing RSS-H600-085 the “Building” shown is a residence. This drawing has been updated to reflect that clarification, and is included as Attachment DR4 Land Use 14b.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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Land Use, Transportation, Recreation, and Visual Resources

15. Provide a discussion of visual impacts associated with the crossings of the Lower Greenbrier River Byway (MP 171.3) and the Lowell Backway (MP 171.9). Include measures that would be implemented by Mountain Valley to avoid, minimize, or mitigate impacts on those by-way crossing locations.

Response:

Mountain Valley expects to submit a response by February 16, 2017

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Land Use, Transportation, Recreation, and Visual Resources

16. In response to comments received, provide a discussion of visual impacts that may occur for hikers on the Alleghany Trail (F.T. #701), Cascades National Recreation Trail (F.T. #70), and the Mountain Lake Wilderness looking at the pipeline corridor. Include measures that Mountain Valley would implement to avoid, minimize, or mitigate project-related visual impacts on those trails and their users.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Land Use, Transportation, Recreation, and Visual Resources

17. Document communications with the FS and BLM regarding the currently proposed pipeline route crossing of Craig Creek. Mountain Valley indicated to the FS that it went back to the original October 2015 route for the crossing of Craig Creek. The shapefiles submitted to the FS do not satisfy the FS requests, and that part of the route is inconsistent with Forest Plan standards and other guidance. That route also crosses an unnamed tributary which the FS said should be avoided.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Megan Neylon
Position: Supervisor - Environmental Permitting
Phone Number: 724-873-3645
Date: February 9, 2017

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Alternatives

1. Attachment B (Minor Route Variations and Deviations Incorporated into the October 2016 Proposed Route), filed on October 13, 2016, indicates that 45 new landowners could be affected by the route modifications. Indicate the number of these new landowners that have signed an easement agreement with Mountain Valley.

Response:

Upon further review, the total number of newly affected landowners has been reduced from 45 to 44. Mountain Valley has signed five easement agreements with these landowners.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Alternatives

2. Revise Attachment B (Minor Route Variations and Deviations Incorporated into the October 2016 Proposed Route), filed on October 13, 2016, to add a column for parcel numbers for each data row, and denote which parcel numbers are new.

Response:

Attachment B has been revised to note the parcels affected by the route change and denotes the new parcels in red font. The revised Attachment B is provided as Attachment DR4 Alternatives 2.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

**Mountain Valley Pipeline, LLC
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Alternatives

3. Address the September 9, 2016 letter from the VADCR (accession number 20160909-5315). In particular, conduct an analysis of the VADCR's recommended route realignment around the Slussers Chapel Conservation Site in comparison to the corresponding segment of the currently proposed route (filed October 14, 2016) between about MPs 220.7 to 227.3 in Montgomery County, Virginia, the October 14, 2016 proposed route, and the October 2015 application route. Include a copy of a 7.5-minute USGS topographic quadrangle map illustrating the VADCR alternative route, October 2016 route, and October 2015 route in this area. The analysis should include the following comparative information in tabular format:
 - a. length (in miles) of the VADCR's suggested Slussers Chapel Conservation Site Avoidance Alternative route in comparison to the comparable portions of the October 2016 proposed route and October 2015 application route;
 - b. acreage of both the permanent and construction rights-of-way;
 - c. total size (acres) of non-typical work areas required;
 - d. distance (miles) of crossing of VADCR-designated conservation sites;
 - e. number of residences within 50 feet of the edge of the construction right-of-way;
 - f. number of springs and domestic water supply wells within 150 feet of the centerline;
 - g. number of waterbodies crossed, and total length (in feet) of all waterbody crossing combined;
 - h. number of wetlands crossed, total length (in feet) of all wetland crossings combined, and total wetland acres affected;
 - i. number of karst features, sinkholes, or caves within 50 feet of the construction right-of-way;
 - j. acres of habitat for federally listed species;
 - k. number of known archaeological or historic sites;
 - l. miles of federal lands crossed;
 - m. miles of federally-designated Wilderness Areas crossed;
 - n. acres of agricultural land affected

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- o. acres of forest cleared; and
- p. miles of right-of-way that would be parallel or adjacent to existing rights-of-way.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Alternatives

4. Provide an undated analysis of the October 14, 2016 proposed route in comparison to the Hybrid 1A and 1B alternatives previously filed by Mountain Valley on April 21, 2016. Again, include appropriate maps, a narrative discussion of the alternatives, and a table comparing impacts on specific environmental resources, as listed in Alternatives Question #3 above.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Alternatives

5. Provide an environmental, technical, and feasibility comparison of an alternative route that would leave the proposed route between MP 238 to MP 239, progress eastward or southeastward approximately 2.2 miles to an existing powerline corridor, follow along the west and/or east side of that corridor and then turn westward to parallel the north side of the existing powerline corridor that intercepts the proposed route near MP 242.1. Include appropriate maps, a narrative discussion, and a table comparing impacts between the October 14, 2016 proposed route and this alternative route on specific environmental resources, as listed in Alternatives Question #3 above.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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6. Based on comments received from an affected landowner (see accession number 20161223-5085), evaluate alternatives to using proposed access road MVP-RO-279.01 located near MP 239.3 that crosses through a VOF conservation easement. Confirm whether MVP-RO-279.01 would follow an existing road and provide details regarding any disturbance associated with constructing, improving, or connecting the road to the right-of-way. Also confirm whether MVP-RO-279.01 would be a temporary or permanent access road.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Alternatives

7. Provide an analysis of the October 14, 2016 proposed route in comparison to alternative routes suggested by the NPS for crossing the Blue Ridge Parkway (BRP). Document all communications with the NPS regarding the crossing of the BRP.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Alternatives

8. Attachment B of Mountain Valley's December 22, 2016 filing indicates that Mountain Valley is revising the POD for the FS to remove open trenching as an alternative means of crossing the ANST. Mountain Valley states that an HDD under the ANST is not a feasible alternative because of engineering reasons. Therefore, provide an alternative plan and methods for crossing the ANST in the event that the proposed bore fails.

Response:

See Attachment DR4 Alternatives 8 for the Bore Contingency Plan for the ANST crossing.

Respondent: John Uhrin
Position: Construction Director
Phone Number: 724-873-3497
Date: February 9, 2017

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Alternatives

9. Update table 3.5.3-1 filed on December 22, 2016 (Attachment DEIS Recommendation-16), with conclusions wherever possible and/or new information, for pending minor route variations. For example:
 - a. Landowner negotiations were ongoing for issues associated with parcels noted in accession numbers 20150316-5023 and 20150609-5017;
 - b. Provide the apparently missing analyses associated with “Variation 82” as mentioned for accession number 20160601-5121;
 - c. The response for accession number 20150616-5100 only mentions access roads (confirm the apparent assertion that Mountain Valley would use only existing access roads on these parcels and clarify and provide details if there would be any disturbance associated with constructing, improving, or connecting any access road on these parcels), but makes no mention of alternative pipeline right-of-way routing analyses; and
 - d. Mountain Valley indicated that it “continues to evaluate” the parcels associated with accession number 20160406-5119.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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Alternatives

10. Provide an analysis (similar in the format to table 3.5.3-1 from the draft EIS) for any other updated or newly reported landowner or land manager requested minor route variations submitted after the issuance of the draft EIS on September 16, 2016. Address accession numbers 20161221-5350, 20161219-5368, 20161207-0035, 20161201-5118, 20160920-5007, 20161017-0031, 20161220-5182, 20161212-5034 and 20161021-5169. If Mountain Valley cannot make the route adjustments requested by these landowners, explain why.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Kevin Wagner
Position: Land Director
Phone Number: 304-627-6431
Date: February 9, 2017

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Reliability and Safety

1. In response to a stakeholder comment, provide details regarding the frequency of overflights during operations to monitor the pipeline. Include measures, as appropriate, that Mountain Valley would implement to minimize overflight noise and address privacy concerns.

Response:

Mountain Valley will conduct aerial surveys at least twice per year to ensure safety of the pipeline and compliance with regulations. Aerial patrols and surveys compliment ground-based efforts, and prove to be a safe and effective method to assess the pipeline.

Federal Aviation Administration (FAA) licensed aerial services with gas pipeline survey experience will be utilized, and will follow all applicable FAA rules and regulations governing fixed wing and helicopter aircraft, as appropriate. While conducting surveys, aircraft fly during daylight hours at low altitude and reduced speed directly over the pipeline right of way. Pictures are used on a limited basis to capture specific aspects of the right-of-way or pipeline that may require attention. Per FAA regulations, pilots avoid or increase altitude when approaching congested areas, and all aircraft meet noise certification standards based on aircraft type.

Respondent: Shawn Posey

Position: Senior Vice President – Engineering and Construction

Phone Number: 412-395-3931

Date: February 9, 2017

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Reliability and Safety

2. In response to comments on the draft EIS, discuss how Mountain Valley would determine compensation for affected parties should an incident occur.

Response:

Parties affected by an incident would be compensated for the amount of the loss, as governed by common law or statute. Mountain Valley will have insurance for covered losses, both personal injury or property damage, caused by its operations.

Respondent: Shawn Posey

Position: Senior Vice President – Engineering and Construction

Phone Number: 412-395-3931

Date: February 9, 2017

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Reliability and Safety

3. In response to comments on the draft EIS, revise DEIS table 4.12.1-3 to provide the name of each high consequence area (HCA) as well as the class location for each. As requested by Giles County, include a discussion of the Newport Recreation Center, Newport-Mount Olivet Methodist Church, and Doe Creek Farm as Class 3 HCAs.

Response:

Mountain Valley expects to submit a response by February 16, 2017.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017

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Reliability and Safety

4. We received a comment that the remote signal to close an MLV in the event of an incident would not work if the local area was experiencing a power outage or interruption of cellular service. Provide a discussion of the necessary power and cellular system including backup systems both in the area of the MLV and in the area of the remote control center.

Response:

All MLV sites will have primary and back-up sources of power and telecommunications. Because of the redundancies built in to the station designs, a power outage or interruption of telecommunication service would not affect Mountain Valley's ability to close an MLV. See below for further details.

MLV Power:

The primary power source will be from the local electric utility and the back-up power source will be from solar panels except in the cases where an MLV is adjacent to a compressor or measuring station. The primary power source and back-up power sources will feed into a common distribution block which provides continuous power to the MLV site. Therefore, if one of the sources experiences an outage, the other source continues to provide power to the MLV site. In the unlikely event of a primary power outage and lack of solar power, a battery bank will provide power to the MLV site.

The MLVs adjacent to a compressor or measuring station will be supplied power from the station itself. These stations also have primary and back-up power sources. The process of switching from primary to back-up power sources works in a similar manner as previously stated.

MLV Telecommunications:

The primary telecommunications source will be from either a Very Small Aperture Terminal (VSAT) or cellular service and the back-up telecommunications source will be from the local service provider except in the cases where an MLV is adjacent to a compressor or measuring station. The primary and back-up telecommunication sources will feed into a common router which provides continuous telecommunications to the MLV site. Therefore, if one of the sources experiences an outage, the other source continues to provide telecommunications to the MLV site.

The MLVs adjacent to a compressor or measuring station will be supplied telecommunications from the station itself. These stations also have primary and back-up

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telecommunication sources. The process of switching from primary to back-up telecommunication sources works in a similar manner as previously stated.

Remote Control Center:

Mountain Valley has a primary gas control center and a fully-functional redundant backup gas control center located at a remote facility. Both gas control centers have similar primary and back-up power and telecommunications systems in place.

Reference Material:

Mountain Valley created a table for each MLV site documenting the primary and back-up sources of power and telecommunications. The table is included as Attachment DR4 Reliability and Safety 4a.

Mountain Valley has updated information concerning non-jurisdictional facilities for the October 2016 Proposed Route for the MLVs, Measuring Stations (Interconnects), and Compressor Stations. Mountain Valley has developed the designs and plans for the non-jurisdictional facilities in consultation and coordination with the applicable local utility companies. The site-specific details on planned service equipment and details are located in Attachment DR4 Reliability and Safety 4b (filed as CEII).

Mountain Valley also updated the draft EIS language regarding communication towers, back-up communications, and non-jurisdictional facilities. These updates are in Attachment DR4 Reliability and Safety 4c and Attachment DR4 Reliability and Safety 4d.

Respondent: Ricky Myers
Position: Engineering Manager
Phone Number: 724-873-3640
Date: February 9, 2017