



Mountain Valley Pipeline Project

Docket No. CP16-10-000

Implementation Plan

(Public)

October 2017

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LIST OF ACRONYMS AND ABBREVIATIONS

COE	U.S. Army Corps of Engineers
Commission	Federal Energy Regulatory Commission
dBA	A-weighted decibels
EI	Environmental Inspector
EIS	Environmental Impact Statement
FERC	Federal Energy Regulatory Commission
FWS	U.S. Fish and Wildlife Service
HDD	Horizontal Direction Drill
IFC	Issued for Construction
LiDAR	light detection and ranging
L _{dn}	day-night sound level
Mountain Valley	Mountain Valley Pipeline, LLC.
MVP	Mountain Valley Project
NSA	noise sensitive area
OEP	FERC Office of Energy Projects
order	Order Issuing Certificate for the Mountain Valley Project, Docket No. CP16-10-000, issued on October 13, 2017.
SEAP	Safety and Environmental Awareness Program
Secretary	Secretary of the Commission
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
Water Resources Plan	Water Resources Identification and Testing Plan
WVDEP	West Virginia Department of Environmental Protection
WVDNR	West Virginia Department of Natural Resources
ZCC	Zone of Critical Concern

INTRODUCTION

By order issued October 13, 2017, in Docket No. CP16-10-000 (Order), the Federal Energy Regulatory Commission (FERC or Commission) authorized Mountain Valley Pipeline, LLC (Mountain Valley) to construct and operate its proposed Mountain Valley Project (MVP or Project) subject to conditions specified in the Order. The Project includes the construction of natural gas facilities in West Virginia and Virginia:

- Approximately 303 miles of 42-inch-diameter pipeline extending from Wetzel County, West Virginia to Pittsylvania County, Virginia;
- Three new compressor stations (Bradshaw, Harris, and Stallworth);
- Four interconnections (Mobley Interconnect, Sherwood Interconnect, WB Interconnect, and Transco Interconnect);
- Three taps (Webster Tap, Lafayette Tap, Franklin Tap); and
- Related appurtenant facilities, including pig launchers and receivers, mainline block valves, cathodic protection, and communication equipment.

This Implementation Plan addresses the environmental conditions included in the Order as applicable to the MVP Project. Equitrans, L.P. will be submitting a separate implementation plan that addresses the environmental conditions included in the Order as applicable to the Equitrans Expansion Project.

IMPLEMENTATION OF CONDITIONS FROM THE ORDER

ENVIRONMENTAL CONDITION NO. 1

Mountain Valley and Equitrans shall each follow the construction procedures and mitigation measures described in their application and supplements, including responses to staff data requests and as identified in the final EIS, unless modified by the order. The applicants must:

- a. request any modification to these procedures, measures, or conditions in a filing with the Secretary of the Commission (Secretary);
- b. justify each modification relative to site-specific conditions;
- c. explain how that modification provides an equal or greater level of environmental protection than the original measure; and
- d. receive approval in writing from the Director of Office of Energy Projects (OEP) **before using that modification.**

Implementation Plan for Environmental Condition No. 1

Mountain Valley will follow the construction procedures and mitigation measures described in its application and supplements (including responses to staff data requests) and as identified in the EIS. In the event modifications to these procedures and mitigation measures are deemed to be necessary, Mountain Valley will follow the provisions (a) through (d) of this Condition.

ENVIRONMENTAL CONDITION NO. 2

The Director of OEP, or the Director's designee, has delegated authority to address any requests for approvals or authorizations necessary to carry out the conditions of the order, and take whatever steps are necessary to ensure the protection of all environmental resources during construction and operation of the project and activities associated with abandonment. This authority shall allow:

- a. the modification of conditions of the order;
- b. stop work authority; and
- c. the imposition of any additional measures deemed necessary to ensure continued compliance with the intent of the conditions of the order as well as the avoidance or mitigation of unforeseen adverse environmental impacts resulting from project construction and operation and abandonment.

Implementation Plan for Environmental Condition No. 2

Mountain Valley acknowledges the delegated authority of the Director of OEP, or the Director's designee, to ensure the protection of environmental resources during construction and operation of the MVP Project.

ENVIRONMENTAL CONDITION NO. 3

Prior to any construction, Mountain Valley and Equitrans shall each file an affirmative statement with the Secretary of the Commission (Secretary), certified by a senior company official, that all company personnel, environmental inspectors (EI), and contractor personnel will be informed of the EIs' authority and have been or will be trained on the implementation of the environmental mitigation measures appropriate to their jobs **before** becoming involved with construction and restoration activities.

Implementation Plan for Environmental Condition No. 3

Included as Attachment IP-3 is the affirmative statement, certified by a senior company official, that all company personnel, environmental inspectors (EIs), and contractor personnel will be informed of the EIs' authority and have been or will be trained on the implementation of the environmental mitigation measures appropriate to their jobs before becoming involved with construction and restoration activities.

ENVIRONMENTAL CONDITION NO. 4

The authorized facility locations shall be as shown in the EIS, as supplemented by filed alignment sheets, and shall include all of the staff's recommended facility locations identified in conditions 16, 17, and 23. **As soon as they are available, and before the start of construction,** Mountain Valley and Equitrans shall each file any revised detailed survey alignment maps/sheets at a scale not smaller than 1:6,000 with station positions for all facilities approved by the order. All requests for modifications of environmental conditions of the order or site-specific clearances must be written and must reference locations designated on these alignment maps/sheets.

The exercise of eminent domain authority granted under Natural Gas Act Section 7(h) in any condemnation proceedings related to the Mountain Valley Pipeline (MVP) Project or Equitrans Expansion Project EEP must be consistent with the facilities and locations approved in the Commission Order. The right of eminent domain granted under Natural Gas Act Section 7(h) does not authorize either Mountain Valley or Equitrans to increase the size of the natural gas pipelines approved in the Commission Order to accommodate future needs or to acquire a right-of-way for a pipeline to transport a commodity other than natural gas.

Implementation Plan for Environmental Condition No. 4

As soon as they are available, and before the start of construction, Mountain Valley will file any revised detailed survey alignment maps/sheets as required in the condition. All requests for modifications of environmental conditions of the Order or site-specific clearances must be written and must reference locations designated on these alignment maps/sheets.

Mountain Valley acknowledges that the exercise of eminent domain authority granted under NGA section 7(h) in any condemnation proceedings related to the Order must be consistent with these authorized facilities and locations and that the right of eminent domain granted under NGA section 7(h) does not authorize Mountain Valley to increase the size of its natural gas pipelines or aboveground facilities to accommodate future needs or to acquire a right-of-way for a pipeline to transport a commodity other than natural gas.

ENVIRONMENTAL CONDITION NO. 5

Mountain Valley and Equitrans shall each file detailed alignment maps/sheets and aerial photographs at a scale not smaller than 1:6,000 identifying all route realignments or facility relocations, and staging areas, yards, new access roads, and other areas that would be used or disturbed and have not been previously identified in filings with the Secretary. Approval for each of these areas must be explicitly requested in writing. For each area, the request must include a description of the existing land use/cover type, documentation of landowner approval, whether any cultural resources or federally listed threatened or endangered species would be affected, and whether any other environmentally sensitive areas are within or abutting the area. All areas shall be clearly identified on the maps/sheets/aerial photographs. Each area must be approved in writing by the Director of OEP **before construction in or near that area.**

This requirement does not apply to extra workspace allowed by the FERC *Upland Erosion Control, Revegetation, and Maintenance Plan* and/or minor field realignments per landowner needs and requirements, which do not affect other landowners or sensitive environmental areas such as wetlands.

Examples of alterations requiring approval include all route realignments and facility location changes resulting from:

- a. implementation of cultural resources mitigation measures;
- b. implementation of endangered, threatened, or special concern species mitigation measures;
- c. recommendations by state regulatory authorities; and
- d. agreements with individual landowners that affect other landowners or could affect sensitive environmental areas.

Implementation Plan for Environmental Condition No. 5

Mountain Valley agrees to this condition and will implement it as written.

ENVIRONMENTAL CONDITION NO. 6

Within 60 days of their acceptance of a Certificate and before construction begins, Mountain Valley and Equitrans shall each file their respective Implementation Plans for review and written approval by the Director of OEP. Mountain Valley and Equitrans must each file revisions to their plans as schedules change. The plans shall identify:

- a. how Mountain Valley and Equitrans will each implement the construction procedures and mitigation measures described in their application and supplements (including responses to staff data requests), identified in the final EIS, and required by the Order;
- b. how the Mountain Valley and Equitrans will each incorporate these requirements into the contract bid documents, construction contracts (especially penalty clauses and specifications), and construction drawings so that the mitigation required at each site is clear to onsite construction and inspection personnel;
- c. the number of EIs assigned to each project and spread, and how Mountain Valley and Equitrans will each ensure that sufficient personnel are available to implement the environmental mitigation;
- d. company personnel, including EIs and contractors, who will receive copies of the appropriate materials;
- e. the location and dates of the environmental compliance training and instructions Mountain Valley and Equitrans will each give to all personnel involved with construction and restoration (initial and refresher training as the projects progress and personnel change) with the opportunity for OEP staff to participate in the training sessions;
- f. the company personnel (if known) and specific portion of the company's organization having responsibility for compliance;
- g. the procedures (including use of contract penalties) that Mountain Valley and Equitrans will each follow if noncompliance occurs; and
- h. for each discrete facility, a Gantt or PERT chart (or similar project scheduling diagram), and dates for:
 - i. the completion of all required surveys and reports;
 - ii. the environmental compliance training of onsite personnel;
 - iii. the start of construction; and
 - iv. the start and completion of restoration.

Implementation Plan for Environmental Condition No. 6

Mountain Valley has prepared and filed this Implementation Plan to satisfy Environmental Condition 6. Specific responses to subparts 6a through 6h are provided below.

Response to Environmental Condition 6a:

Mountain Valley will implement the construction procedures and mitigation measures described in its certificate application and supplemental filings (including responses to staff data requests), identified in the EIS, and required by the Order by incorporating them into Project construction and compliance documents and by providing training prior to the commencement of construction.

Mountain Valley will abide by the requirements detailed in FERC's Upland Erosion Control, Revegetation and Maintenance Plan and FERC's Wetland and Waterbody Construction and Mitigation Procedures, with the exception of those variances specifically requested in the Environmental Report and subsequent filings and acknowledged within the FERC's EIS. Mountain Valley will exercise appropriate oversight of construction procedures and mitigation measures, including requiring and monitoring compliance with the following:

- EIS and Permit Requirements;
- Issued for Construction (IFC) Drawings and Alignment Sheets;
- FERC Upland Erosion Control, Revegetation and Maintenance Plan;
- FERC Wetland and Waterbody Construction and Mitigation Procedures;
- Erosion and Sediment Control Plan;
- Spill Prevention, Control, and Countermeasure Plan and Unanticipated Discovery of Contamination Plan;
- Fugitive Dust Control Plan;
- Winter Construction Plan;
- General Blasting Plan;
- Residential Mitigation Plans;
- Karst Mitigation Plan;
- Exotic and Invasive Species Control Plan;
- Bureau of Land Management Right-of-Way Grant and Plan of Development (for crossing USDA Forest Service and U.S. Army Corps of Engineers (COE) Owned Properties);
- National Park Service Right-of-Way Agreement (for crossing National Park Service Owned Property);
- Landslide Mitigation Plan;
- Mining Area Construction Plan;
- Traffic and Transportation Plan;
- Migratory Bird Conservation Plan;
- Contingency Plan for the Proposed Crossing of the Appalachian National Scenic Trail;
- Vertical Scour and Lateral Channel Erosion Scour Analyses;
- Programmatic Agreement for Section 106 Consultation;
- COE Nationwide Permits;
- Virginia Department of Environmental Quality Project Specific Standards and Specifications for Virginia;
- 401 Water Quality Certifications;
- U.S. Fish and Wildlife Service (FWS) Section 7 Consultation; and
- Agreements with Public Service Districts.

Additional details are provided in responses to Environmental Conditions 6b through 6h, below.

Response to Environmental Condition 6b:

Mountain Valley will incorporate into its contract bid documents, construction contracts, and construction drawings the construction procedures and mitigation measures described in its certificate application and supplemental filings (including responses to staff data requests), identified in the EIS, and required by the Order.

Mountain Valley will conduct environmental training for all Environmental Inspectors (including FERC's third-party monitors), Construction Inspectors, and all contractor's lead, craft, and labor personnel. In addition, all Mountain Valley employees involved with the construction of the Project will receive training. See response to Environmental Condition 6e for more detail.

The construction contracts include corrective mechanisms for contractor noncompliance with the Project requirements (FERC Plan, Project Drawings, Permit Conditions, Certificate Conditions, Mitigations, etc.) and Federal, State and local laws as applicable. These measures include corrections at the contractor's cost, addition of more stringent work practices, removal of negligent personnel, and ultimately cancellation of the contract in its entirety.

Response to Environmental Condition 6c:

The Lead EIs will provide overall coordination for FERC reporting and FERC compliance monitoring. The Lead EIs will also be responsible for interfacing with any resource agency personnel involved with the execution of the Project, including FERC's third-party monitors. Mountain Valley expects to employ 44 EIs (both leads and non-leads), which includes one Lead Environmental Inspector (EI) per Spread and each Lead EI being supported by multiple EIs depending upon the spread, facility, and milepost. Mountain Valley will reallocate or increase manpower as necessary to support compliance and mitigation requirements.

Response to Environmental Condition 6d:

All Mountain Valley leads, environmental inspectors (including FERC's third-party monitors), construction inspectors, and contractor supervisory personnel will receive copies of the following documents:

- IFC drawing packages (detailed design drawings and typicals, station plot plans, site grading plans);
- IFC Alignment Sheets, including laydown yards and access roads;
- Project handbook that includes pertinent Project-related engineering and environmental documents;
- Landowner Worksheet Binders; and
- Residential Mitigation Plans.

Each recipient will be required to affirm his or her receipt, understanding, and intent to comply with these documents by signature prior to beginning work. In addition, copies of relevant documents will be available on-site for ready reference.

Response to Environmental Condition 6e:

All on-site Project personnel, including the Chief Inspector, non-destructive testing crews, craft inspectors, office personnel, contractor supervisors, contractor foremen and laborers, subcontractors, EIs (including FERC’s third-party monitors), and all other Project personnel will be required to attend a Safety and Environmental Awareness Program (SEAP) training session prior to entering any Project area.

During this training session, on-site personnel will be informed of the authority of the EIs and FERC’s third-party monitors and will be trained on the implementation of the environmental mitigation measures appropriate to their job responsibilities and company expectations. The requirements applicable to the individual crew member’s duties will be presented and discussed for emphasis. In addition, training will be held for all newly hired personnel before they may commence work on the Project. Follow-up refresher training will be held throughout the construction of the Project to ensure that the mitigation required for the Project is clear to onsite construction and inspection personnel.

Following each training session, all personnel will be required to acknowledge by signature that he or she understands the environmental compliance requirements associated with the Project and agrees to adhere to all requirements presented during the training session. Each individual successfully completing the SEAP training will be issued a Project hard hat sticker. Only individuals displaying the hard hat sticker will be allowed into active Project areas.

OEP personnel and other resource agency personnel are welcome to attend any or all SEAP training sessions. Visitors to the site and workers added after contractor mobilization will receive SEAP training on-site by either an EI or designated Construction Inspector utilizing Project-specific training documents.

The times and locations for the SEAP training sessions have yet to be determined. Mountain Valley will supplement this Implementation Plan with the event information.

Response to Environmental Condition 6f:

The Mountain Valley project team is responsible for permit compliance on this Project. Company personnel with designated responsibilities for compliance are listed below:

Name	Company	Position
Robert Cooper	Mountain Valley	Project Manager
John A. Uhrin	Mountain Valley	Director of Construction – Pipeline
Jeffrey Klinefelter	Mountain Valley	Director of Construction – Pipeline
Ted Charletta	Mountain Valley	Director of Construction – Compression
John Centofanti	Mountain Valley	Director of Environmental
Megan Neylon	Mountain Valley	Supervisor Environmental Permitting
Brian Clauto	Mountain Valley	Senior Environmental Coordinator
Matthew Hoover	Mountain Valley	Senior Environmental Coordinator

Response to Environmental Condition 6g:

In the event of a noncompliance issue, the Lead EI (in consultation with FERC's third-party monitors, as applicable), Chief Inspector, Superintendent, and the Mountain Valley Construction Project Manager will coordinate with the contractor to determine the appropriate resolution of the noncompliance issue, as well as the timeframe for resolving the issue. The Lead EIs will document the noncompliance issue, measures taken to resolve the noncompliance (or the date the measure will be implemented) and the effectiveness of the corrective actions taken. A summary of the noncompliance issues and corrective actions taken will be included in the Project's weekly status report.

Mountain Valley will treat any instance of noncompliance as either a noncompliance or a serious violation:

Noncompliance –small scale issues not attributed to carelessness, neglect, or to chronic and/or ongoing failure to follow best practices. In the event of these incidents, contractors will be required to correct the problem in a timely manner at their own cost. If warranted in the opinion of the EI, retraining of employees and a thorough review of the work practices involved may also be required at the contractor's cost.

Serious Violation –large scale issues attributed to carelessness, neglect, or to chronic and/or ongoing failure to follow best practices. Work stoppages will be issued in the event of these incidents. Immediate correction at the contractor's cost will be required, as well as removal of negligent personnel from the Project. In addition, the contractor will be required to submit a corrective plan with monitoring provisions prior to resuming work. The construction contract may also be terminated.

Response to Environmental Condition 6h:

Please refer to Attachment IP-6h for the milestone schedules and dates requested for each discrete facility. Tasks shown are major group compliance training events, anticipated start date of construction, and anticipated start date and completion date of restoration. As construction progresses, Mountain Valley will communicate changes to the start and end of major milestones via the weekly report.

ENVIRONMENTAL CONDITION NO. 7

Mountain Valley and Equitrans shall each employ a team of EIs for each construction spread. The EIs shall be:

- a. responsible for monitoring and ensuring compliance with all mitigation measures required by the Order and other grants, permits, certificates, or other authorizing documents;
- b. responsible for evaluating the construction contractor's implementation of the environmental mitigation measures required in the contract (see condition 6 above) and any other authorizing document;
- c. empowered to order correction of acts that violate the environmental conditions of the Order, and any other authorizing document;
- d. a full-time position, separate from all other activity inspectors;
- e. responsible for documenting compliance with the environmental conditions of the Order, as well as any environmental conditions/permit requirements imposed by other federal, state, or local agencies; and
- f. responsible for maintaining status reports.

Implementation Plan for Environmental Condition No. 7

Mountain Valley agrees to this condition and will implement it as written.

ENVIRONMENTAL CONDITION NO. 8

Beginning with the filing of its Implementation Plan, Mountain Valley and Equitrans shall each file updated status reports with the Secretary on a **weekly basis until all construction and restoration activities are complete**. On request, these status reports will also be provided to other federal and state agencies with permitting responsibilities. Status reports shall include:

- a. an update on the Mountain Valley and Equitrans efforts to obtain the necessary federal authorizations;
- b. the construction status of their respective project facilities, work planned for the following reporting period, and any schedule changes for stream crossings or work in other environmentally sensitive areas;
- c. a listing of all problems encountered and each instance of noncompliance observed by the EIs during the reporting period (both for the conditions imposed by the Commission and any environmental conditions/permit requirements imposed by other federal, state, or local agencies);
- d. a description of corrective actions implemented in response to all instances of noncompliance, and their cost;
- e. the effectiveness of all corrective actions implemented;
- f. a description of any landowner/resident complaints that may relate to compliance with the requirements of the Order, and the measures taken to satisfy their concerns; and
- g. copies of any correspondence received by Mountain Valley and Equitrans from other federal, state, or local permitting agencies concerning instances of noncompliance, and the responses of Mountain Valley and Equitrans to each letter.

Implementation Plan for Environmental Condition No. 8

Mountain Valley will implement the condition as written.

ENVIRONMENTAL CONDITION NO. 9

Mountain Valley and Equitrans must receive written authorization from the Director of OEP **before commencing construction of any project facilities**. To obtain such authorization, Mountain Valley and Equitrans must file with the Secretary documentation that it has received all applicable authorizations required under federal law (or evidence of waiver thereof).

Implementation Plan for Environmental Condition No. 9

Mountain Valley continues to work with respective agencies to obtain all authorizations required under federal law for the Project. The table in Attachment IP-9 summarizes the status of authorizations. Mountain Valley has filed with FERC copies of all authorizations received to date. Copies of additional authorization received will be filed with the Commission when received by Mountain Valley.

ENVIRONMENTAL CONDITION NO. 10

Mountain Valley and Equitrans must each receive separate written authorization from the Director of OEP **before placing their respective projects into service**. Such authorization will only be granted following a determination that rehabilitation and restoration of areas affected by the projects are proceeding satisfactorily.

Implementation Plan for Environmental Condition No. 10

Mountain Valley acknowledges this condition as written.

ENVIRONMENTAL CONDITION NO. 11

Within 30 days of placing the authorized facilities in service, Mountain Valley and Equitrans shall each file an affirmative statement with the Secretary, certified by a senior company official:

- a. that the facilities have been constructed in compliance with all applicable conditions, and that continuing activities will be consistent with all applicable conditions; or
- b. identifying which of the Certificate conditions Mountain Valley and Equitrans has complied or will comply with. This statement shall also identify any areas affected by their respective projects where compliance measures were not properly implemented, if not previously identified in filed status reports, and the reason for noncompliance.

Implementation Plan for Environmental Condition No. 11

Mountain Valley will comply with this condition and implement it as written.

ENVIRONMENTAL CONDITION NO. 12

Prior to construction, Mountain Valley and Equitrans shall each file with the Secretary the location of all water wells, springs, and other drinking water sources within 150 feet (500 feet in karst terrain) of construction work areas and aboveground facilities. (*section 4.3.1.2*)

Implementation Plan for Environmental Condition No. 12

Attachment IP-12 includes a table that lists information regarding private water wells, springs, and other drinking water sources within 150 feet (500 feet in karst terrain) of Project construction work areas and aboveground facilities. Mountain Valley sent letters to affected landowners and abutters to ask whether any drinking water sources are located on their property and request the location of the source and permission to sample. The table lists all sources for which Mountain Valley has been able to confirm the locations of drinking water sources within the applicable distance from the Project workspaces or facilities. Mountain Valley will supplement this table as necessary prior to construction if it confirms the locations of any additional drinking water sources.

ENVIRONMENTAL CONDITION NO. 13

Prior to construction, Mountain Valley and Equitrans shall file with the Secretary, for review and written approval by the Director of OEP, revised erosion control plans that contain only native species. (*section 4.4.2.7*)

Implementation Plan for Environmental Condition No. 13

Federal and state agencies require different seeds and seed mixes for temporary and permanent purposes. The permanent seed mixes for final restoration for the Project contain only native, non-invasive seed species. The seed mixes for temporary erosion control purposes, however, contain both native and non-native seed species.

The U.S. Forest Service specified the temporary erosion control seed mixes to use for Project activities within the Jefferson National Forest in the document *Suggested Seed Mixes for Pipeline Rights-of-Ways and Associated Disturbances on the Monongahela and George Washington-Jefferson National Forests* (November 2016), a copy of which is included as Attachment IP-13a. In that document, the Forest Service described the rationale for including non-native, non-invasive seed species in temporary seed mixes:

“[N]ative plants that provide diverse wildlife benefits and structural diversity on the landscape often do not germinate or grow fast enough to provide initial erosion control. Therefore, fast-germinating, non-invasive, annual cover crops are recommended for the first round of seeding to stabilize exposed soil. Once those have established and erosion is no longer an immediate threat, native seed mixes tailored to site-specific conditions should be installed among the erosion control species where possible.”

The document also identified four non-native, non-invasive species (annual ryegrass, german/foxtail millet, cereal rye, and browntop millet) to use for temporary erosion control purposes. The Plan of Development for the Jefferson National Forest has included these four species in the temporary seed mix.

Like the Forest Service, the West Virginia and Virginia state agencies recommend the use of non-native, non-invasive species for temporary erosion control purposes. The West Virginia and Virginia state agencies listed three of the four temporary seed species identified by the USDA Forest Service. To be consistent with the Forest Service, Mountain Valley requested approval from the West Virginia and Virginia state agencies for the fourth temporary seed species. The pages or sections of the revised erosion and sediment control plans related to seeds and seed mixes, including temporary and permanent mixes, are included in the following attachments:

- Attachment IP-13b (sheet detail from erosion control plan for West Virginia that includes seed mixes);
- Attachment IP-13c (sheet detail from erosion control plan for Virginia regarding seed mixes); and

- Attachment IP-13d (sheet detail from erosion control plan for Jefferson National Forest regarding seed mixes).

The West Virginia state agency approved the permanent and temporary seed mixes, including the fourth temporary seed species, in an email dated August 28, 2017. A copy of that email is included with Attachment IP-13e. Mountain Valley is awaiting final approval from the Virginia state agency for its temporary and permanent seed mixes.

ENVIRONMENTAL CONDITION NO. 14

Prior to construction, Mountain Valley and Equitrans shall each file with the Secretary copies of their environmental complaint resolution procedures. The procedures shall provide landowners with clear directions for identifying and resolving concerns resulting from construction and restoration of the projects. Mountain Valley and Equitrans shall mail copies of their complaint procedures to each landowner whose property would be crossed by the projects.

In their letters to affected landowners, Mountain Valley and Equitrans shall:

- a. provide a local contact that the landowners shall call first with their concerns; the letter shall indicate how soon a landowner shall expect a response;
- b. instruct the landowners that if they are not satisfied with the response, they shall call the Mountain Valley or Equitrans Hotline, as appropriate. The letter shall indicate how soon to expect a response from the company; and
- c. instruct the landowners that if they are still not satisfied with the response from the company Hotline, they shall contact the Commission's Landowner Helpline at 877-337-2237 or at LandownerHelp@ferc.gov.

In addition, Mountain Valley and Equitrans shall include in their weekly status reports to the FERC a table that contains the following information for each problem/concern:

- a. the identity of the caller and date of the call;
- b. the location by milepost and engineering station number from the alignment sheet(s) of the affected property;
- c. a description of the problem/concern; and
- d. an explanation of how and when the problem was resolved, will be resolved, or why it has not been resolved. (*section 4.8.2.2*)

Implementation Plan for Environmental Condition No. 14

Mountain Valley has developed environmental complaint resolution procedures. See Attachment IP-14a. Mountain Valley will mail copies of the procedures to landowners, using the template cover letter included in Attachment IP-14b, prior to construction as required in the Condition. In addition, Mountain Valley will include in its status reports to the Commission the information required in the Condition.

ENVIRONMENTAL CONDITION NO. 95

Mountain Valley and Equitrans **shall not begin construction** of facilities and/or use staging, storage, or temporary work areas and new or to-be-improved access roads **until**:

- a. Mountain Valley and Equitrans each files with the Secretary:
- b. remaining cultural resources survey reports;
- c. site evaluation reports, avoidance plans, or treatment plans, as required; and comments on the reports and plans from the appropriate State Historic Preservation Offices, federal land managing agencies, interested Indian tribes, and other consulting parties.
- d. the Advisory Council on Historic Preservation has been afforded an opportunity to comment if historic properties would be adversely affected; and
- e. the FERC staff reviews and the Director of OEP approves all cultural resources reports and plans, and notifies Mountain Valley and/or Equitrans in writing that either treatment measures (including archaeological data recovery) may be implemented or construction may proceed.

All materials filed with the Commission containing **location, character, and ownership** information about cultural resources must have the cover and any relevant pages therein clearly labeled in bold lettering: “**CUI//PRIV- DO NOT RELEASE.**” (*section 4.10.10.3*).

Implementation Plan for Environmental Condition No. 15

Mountain Valley will comply with this condition and implement it as written.

Additional letters from SHPOs are included as Attachment IP-15.

ENVIRONMENTAL CONDITION NO. 16

Prior to construction, Mountain Valley shall adopt Variation 250 into its proposed route. As part of its Implementation Plan, Mountain Valley shall file with the Secretary the results of all environmental surveys, an updated 7.5-minute USGS topographic quadrangle map, and a large-scale alignment sheet that illustrates this route change. (*section 3.5.1.11*)

Implementation Plan for Environmental Condition No. 16

Mountain Valley will address this condition in a subsequent filing.

ENVIRONMENTAL CONDITION NO. 17

Prior to construction, Mountain Valley shall file with the Secretary, for review and approval by the Director of OEP, a segment-specific construction and operation access plan for the area between mileposts 237.6 and 240.3, that includes access road MVPRO- 279.01. The plan shall incorporate the measures proposed in Mountain Valley's July 20, 2017 filing to minimize and mitigate impacts resulting from use of the road. (*section 3.5.1.12*)

Implementation Plan for Environmental Condition No. 17

Prior to construction, Mountain Valley will file with the Secretary, for review and approval by the Director of OEP, the required access plan.

ENVIRONMENTAL CONDITION NO. 18

Prior to construction, Mountain Valley shall file landowner-specific crossing plans developed in coordination with the affected landowners which contain impact avoidance, minimization, or mitigation measures, as appropriate, for review and written approval of the Director of OEP. The landowner-specific crossing plans shall be prepared in relation to the draft EIS comments in the following accession numbers: 20161024-5011 (water well), 20161212-5046 (steep ravines), 20161212-5234 (forest impacts, road frontage), 20161213-5021 (cattle and hay operations), 20161223-0033 (gravel road and reconfiguration of temporary workspaces), 20161228-0073 (water well and waterline for the campground), and 20170324-5140 (home under construction and septic system). (*section 3.5.3.1*)

Implementation Plan for Environmental Condition No. 18

A table summarizing the requested information is included as Attachment IP-18a. Specific plans and documentation of landowner coordination are referenced in the summary table and included in Attachments IP-18b through 18d.

ENVIRONMENTAL CONDITION NO. 19

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval by the Director of OEP, a revised *Landslide Mitigation Plan* that includes the following best management practices and measures:

- a. describe methods that will ensure backfill, compaction, and restoration activities occur only during suitable soil moisture content conditions for steep (greater than 15 percent) slopes perpendicular to the slope contour, not just for steep (greater than 15 percent) side slopes;
- b. as identified for steep side slopes, place backfill material in compacted lifts no greater than 12 inches thick and compact using an excavator bucket, sheep's foot, roller, or similar for all steep slopes;
- c. geotechnical personnel that will be employed and onsite to prescribe additional mitigation measures for steep slopes shall have regional experience for constructing in and mitigating steep slopes and associated hazards; and
- d. monitoring of all landslide hazard areas identified in the final EIS in addition to any hazard areas identified during construction using the methods prescribed for the Jefferson National Forest. (*section 4.1.2.4*)

Implementation Plan for Environmental Condition No. 19

Mountain Valley has revised the Landslide Mitigation Plan to include all items requested in Environmental Condition 19, as listed below.

- a. Environmental Condition 19a is addressed in Section 7.0 and Section 8.0.
- b. Environmental Condition 19b is addressed in Section 8.0.
- c. Environmental Condition 19c is addressed in Section 5.0.
- d. Environmental Condition 19d is addressed in Section 6.0.

The revised Landslide Mitigation Plan is included as Attachment IP-19.

ENVIRONMENTAL CONDITION NO. 20

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval by the Director of OEP, a revised *Karst Mitigation Plan* that includes monitoring of all potential karst areas for subsidence and collapse using the same acquired Light Detection and Ranging (LiDAR) monitoring methods and procedures currently proposed to monitor for earth movements at landslide hazard areas within the Jefferson National Forest. LiDAR data shall be provided in a form that is conducive to comparison of repeat surveys, such as a Digital Elevation Model or Digital Terrain Model. (*section 4.1.2.5*)

Implementation Plan for Environmental Condition No. 20

Attachment IP-20 contains the revised Karst Mitigation Plan, which includes the February 2017 revisions shown in red text that were requested by the Commission, and current revisions shown in blue text. The current revisions include the addition of Section 5.0 to the Karst Mitigation Plan, which discusses post-construction monitoring of the right-of-way in karst terrain.

ENVIRONMENTAL CONDITION NO. 21

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval of the Director of OEP, a revised *Water Resources Identification and Testing Plan* which includes:

- a. water quality testing for oil and grease, volatile organic compounds, and hydrocarbons; and
- b. post-construction monitoring, with the landowner's permission, of all water wells, springs, and other drinking water supply sources within 150 feet of construction workspaces or 500 feet of construction workspaces in karst terrain. (section 4.3.1.2)

Implementation Plan for Environmental Condition No. 21

A revised Water Resources Identification and Testing Plan (Water Resources Plan) is included as Attachment IP-21.

- a. Table 3 of the revised Water Resources Plan includes volatile organic compounds, semi-volatile organic compounds, and total petroleum hydrocarbons (DRO/GRO/ORO). Note 1 at the bottom of Table 3 in the revised Water Resources Plan includes additional information.
- b. Section 4.0 of the revised Water Resources Plan provides that Mountain Valley will offer to conduct post-construction sampling at private water supplies that participated in the pre-construction testing program.¹

¹ In paragraph 172 of the Order, the Commission stated: "Environmental Condition Nos. 21 and 35 of this order require Mountain Valley and Equitrans to conduct post-construction testing of domestic water supplies evaluated during the pre-construction process."

ENVIRONMENTAL CONDITION NO. 22

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval of the Director of OEP, source, location, and quantities of water which would be used for dust control. (*section 4.3.2.1*)

Implementation Plan for Environmental Condition No. 22

The sources, locations, and quantities of water for dust control depend upon numerous factors, including construction locations and progress, weather, soil type, vegetation cover, and road conditions. The FEIS recognized this. *See* FEIS at 4-113 (“The amount of water that would be used for dust control is highly dependent on the conditions at the time of work”). A table listing the proposed withdrawal sources, locations, and anticipated maximum daily quantities of water that Mountain Valley expects to use for dust control is included in Attachment IP-22.

ENVIRONMENTAL CONDITION NO. 23

Prior to construction, Mountain Valley shall adopt into its proposed pipeline route the alternative alignment for the crossing of the Pigg River and adopt a horizontal directional drill (HDD) as the crossing method. As part of its Implementation Plan, Mountain Valley shall file with the Secretary a revised alignment sheet, a summary comparison of impacts between the HDD alignment and the original alignment, and an HDD Contingency Plan, for the review and approval of the Director of OEP. (*section 4.3.2.2*)

Implementation Plan for Environmental Condition No. 23

Mountain Valley will address this condition in a subsequent filing.

ENVIRONMENTAL CONDITION NO. 24

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval of the Director of OEP, water supply contingency plans, prepared in coordination with the Public Service/Supply Districts, outlining measures to minimize and mitigate potential impacts on public surface water supplies with intakes within 3 miles downstream of the workspace, and Zones of Critical Concern within 0.5 mile of the workspace. The measures shall include, but not be limited to, providing advance notification to water supply owners prior to the commencement of pipeline construction. (*section 4.3.2.2*)

Implementation Plan for Environmental Condition No. 24

- a. Public water suppliers with surface water intakes located within three miles downstream of a workspace

Mountain Valley identified public surface water suppliers that have supply intakes located within three miles downstream from where the proposed alignment or workspace crosses the source stream or river:

State / Surface Water	Nearest MP	Distance/Direction to Construction Right-of-way
West Virginia		
Gauley River, Craigsville Public Service District	110.1	0.6 mile northwest
Virginia		
Roanoke River, Western Virginia Water Authority	235.6	1.2 mile west

Mountain Valley developed water supply contingency plans in coordination with the Craigsville Public Service District and the Western Virginia Water Authority. Mountain Valley sent the plans to the suppliers for final approval. Mountain Valley will file the plans with the Commission prior to construction.

- b. Public water suppliers with surface water ZCC within 0.5 mile of the workspace

Mountain Valley identified public water suppliers in West Virginia where a Project workspace is located within 0.5-mile of a Zone of Critical Concern (ZCC) (note that there are no established ZCCs in Virginia). Mountain Valley developed water supply contingency plans in coordination with the suppliers. Mountain Valley sent the plans to the suppliers for final approval. Attachment IP-24b1 includes that status of the consultations. The finalized plans are included in Attachments IP-24b2. As Mountain Valley finalizes the remaining plans, it will file such plans with the Commission.

ENVIRONMENTAL CONDITION NO. 25

Prior to construction, Mountain Valley shall file with the Secretary, for review and approval by the Director of OEP, either a plan to maintain a 15 foot buffer from the tributary to Foul Ground Creek or proposed mitigation measures to minimize impacts on the waterbody. (*section 4.3.2.2*)

Implementation Plan for Environmental Condition No. 25

Mountain Valley will address this condition in a subsequent filing.

ENVIRONMENTAL CONDITION NO. 26

Prior to construction, Mountain Valley shall file with the Secretary, for review and written approval by the Director of OEP, site plans and maps that illustrate how permanent impacts on wetlands W-EE6 and W-EE7 will be avoided at the Stallworth Compressor Station. (*section 4.3.3.2*)

Implementation Plan for Environmental Condition No. 26

Impacts to wetlands W-EE6 and W-EE7 are not associated with the Stallworth Compressor Station. Wetlands W-EE6 and W-EE7 were incorrectly listed as being within the construction area for the Stallworth Compressor Station. The impacts to these wetlands are associated with the access road to the station and not the station itself. The attached Stallworth Compressor Station erosion and sediment control plans (Attachment IP-26 (CEII)) show the location of wetlands W-EE6 and W-EE7, access road, and compressor station. As a result, in compliance with Section VI.A.6 of FERC's Procedures, there are no aboveground facilities at the Stallworth Compressor Station that are sited within a wetland.

Mountain Valley notes that the Commission has approved permanent wetland impacts associated with access roads throughout the Project area, including W-IJ31, W-WX4, W-A39, W-ST12-PSS, W-K52, W-A23, W-I22-PEM, W-K28, W-L41, W-H98, W-VV11, W-VV12, W-IJ26, W-EF9, W-KK2, W-H69, W-H70, W-H71, W-H72, W-H73, W-H74, W-O13, W-E28, W-F40, W-K23, W-H45-PFO, W-QR2, W-L7, W-L6, W-IJ47-PEM, W-W11, W-W10, W-W9, W-I10, and W-A13.

ENVIRONMENTAL CONDITION NO. 27

Prior to construction, Mountain Valley shall file with the Secretary its final *Migratory Bird Conservation Plan*. The plan shall include impact avoidance, minimization, restoration, and/or mitigation measures for the impacts on migratory birds and it shall be prepared in coordination with the U.S. Fish and Wildlife Service (FWS), West Virginia Department of Natural Resources, and the Virginia Department of Game and Inland Fisheries. Appendix D (Restoration and Rehabilitation Plan) of the final Migratory Bird Conservation Plan shall be modified to match the seed list in appendix N-14 and N-15 of the EIS; and shall include only native species, as required in Environmental Condition 13 of this order.. (*section 4.5.2.6*)

Implementation Plan for Environmental Condition No. 27

Mountain Valley filed the final Migratory Bird Conservation Plan on May 11, 2017. The FWS issued a letter to FERC on September 8, 2017 (Accession No. 20170911-0008) affirming components of the plan including Mountain Valley's commitment to avoidance, minimization, restoration, and mitigation measures for impacts on migratory birds. Mountain Valley met with West Virginia Department of Natural Resources (WVDNR) and Virginia Department of Game and Inland Fisheries on multiple occasions and incorporated comments from these agencies into the final plan. Mountain Valley provided copies of the final plan to both agencies. With regard Appendix D, see the Implementation Plan for Environmental Condition No. 13, in particular Attachment IP-13e, where the WVDEP approved the seed mixes in the May 2017 version of the Restoration and Rehabilitation Plan.

ENVIRONMENTAL CONDITION NO. 28

Mountain Valley shall not begin construction of the proposed facilities **until**:

- a. all outstanding and required biological surveys for federally listed species are completed and filed with the Secretary;
- b. the FERC staff completes any necessary Endangered Species Act Section 7 informal and formal consultation with the FWS; and
- c. Mountain Valley has received written notification from the Director of OEP that construction and/or use of mitigation (including implementation of conservation measures) may begin. (*section 4.7.1.3*)

Implementation Plan for Environmental Condition No. 28

Mountain Valley will comply with this condition and implement it as written.

ENVIRONMENTAL CONDITION NO. 29

Prior to construction, Mountain Valley shall file with the Secretary the results of all remaining environmental surveys (water resources, wetlands, cultural resources, and threatened and endangered species) for all cathodic protection groundbeds. (*section 4.8.1.2*)

Implementation Plan for Environmental Condition No. 29

The results of wetland and waterbody surveys (Table 29-1), cultural resource surveys (Table 29-2) and rare, threatened and endangered species surveys (Table 29-3) for cathodic protection groundbeds are included in Attachment IP-29. All surveys are complete.

ENVIRONMENTAL CONDITION NO. 30

Prior to construction, Mountain Valley shall file with the Secretary evidence of landowner concurrence with the site-specific residential construction plans for all locations where construction work areas will be within 10 feet of a residence. Mountain Valley shall also file with the Secretary a site-specific residential construction plan, including site-specific justification for locating project components within 50 feet of structures located on parcel VA-GI-5673 at about MP 216.6. (*section 4.8.2.2*)

Implementation Plan for Environmental Condition No. 30

Site-Specific Residential Construction Plans for Work Areas within 10 Feet of Residence	Status of Landowner Concurrence
RSS-H600-175	Signed
RSS-H600-005	Signed
RSS-H600-098	Signed
RSS-H600-099	Signed
RSS-H600-038	Signed
RSS-H600-173	Signed
RSS-H600-044	Signed
RSS-H600-012	Signed
RSS-H600-009	Signed
RSS-H600-010	Signed
RSS-H600-203	Signed
RSS-H600-061	Signed
RSS-H600-067	Signed
RSS-H600-105	Signed
RSS-H600-204	In Progress
RSS-H600-065	In Progress
RSS-H600-033	In Progress
RSS-H600-034	In Progress

The signed plans are included as Attachment IP-30a (PRIVILEGED). Mountain Valley will file the outstanding plans when they are signed.

With regard to parcel VA-GI-5673, the site-specific residential construction plan is included as Attachment IP-30b. Access road MVP-CR-258.01 is necessary due to this portion of the pipeline being isolated upstream and downstream of MP 216.8 by numerous stream road crossings. Additionally, Mountain Valley proposed this existing road as access to avoid the environmental impacts that would accompany new road construction. Mountain Valley has committed to narrowing the limits of disturbance along the section of road nearest the structures on the property, will place construction safety fence at the edge of the LOD, and will maintain full access to the property during construction activities. Mountain Valley will also use the existing road with only minor upgrades to the extent practicable, including only minor limb clearing where necessary.

ENVIRONMENTAL CONDITION NO. 31

Prior to construction, Mountain Valley shall file with the Secretary documentation that the U.S. Highway 50 and North Bend Rail Trail Crossing Plan was provided to the West Virginia Department of Transportation and WVDNR for review and comment. (*section 4.8.2.4*)

Implementation Plan for Environmental Condition No. 31

The U.S. Highway 50 road crossing permit and North Bend Rail Trail agreement are included as Attachment IP-31.

ENVIRONMENTAL CONDITION NO. 32

Prior to construction, Mountain Valley shall file with the Secretary documentation that The Nature Conservancy (TNC) Property Crossing Plan was provided to the TNC for review and comment. (*section 4.8.2.4*)

Implementation Plan for Environmental Condition No. 32

Documentation that the TNC Property Crossing Plan was provided to The Nature Conservancy for review and comment is included in Attachment IP-32.

ENVIRONMENTAL CONDITION NO. 33

Prior to construction of the Pig River Horizontal Directional Drill (HDD) crossing, Mountain Valley shall file with the Secretary an HDD noise analysis identifying the existing and projected noise levels at each noise sensitive area (NSA) within 0.5 mile of the HDD entry and exit site. If noise attributable to the HDD is projected to exceed a day-night sound level (L_{dn}) of 55 decibels on the A weighted scale (dBA) at any NSA, Mountain Valley shall file with the noise analysis a mitigation plan to reduce the projected noise levels for the review and written approval by the Director of OEP. During drilling operations, Mountain Valley shall implement the approved plan, monitor noise levels, and make all reasonable efforts to restrict the noise attributable to the drilling operations to no more than an L_{dn} of 55 dBA at the NSAs. (*section 4.11.2.3*)

Implementation Plan for Environmental Condition No. 33

Mountain Valley will address this condition in a subsequent filing.

ENVIRONMENTAL CONDITION NO. 34

Prior to construction, Equitrans shall offer to conduct, with the landowner's permission, post-construction monitoring of all water wells, springs, and other drinking water supply sources within 150 feet of construction workspaces or 500 feet of construction workspaces in karst terrain. (*section 4.3.1.2*)

Implementation Plan for Environmental Condition No. 34

This Environmental Condition applies only to Equitrans.

ENVIRONMENTAL CONDITION NO. 35

Prior to construction, Equitrans shall file with the Secretary, for review and written approval by the Director of OEP, a plan to identify septic systems and avoidance, minimization, and mitigation measures. (*section 4.3.1.2*)

Implementation Plan for Environmental Condition No. 35

This Environmental Condition applies only to Equitrans.

ENVIRONMENTAL CONDITION NO. 36

Prior to construction, Equitrans shall file with the Secretary the results of all environmental surveys (water resources, wetlands, cultural resources, and threatened and endangered species) for the New Cline Variation. (*section 4.3.2.1*)

Implementation Plan for Environmental Condition No. 36

This Environmental Condition applies only to Equitrans.

ENVIRONMENTAL CONDITION NO. 37

Prior to construction, Equitrans shall file with the Secretary, for the review and written approval of the Director of OEP, a crossing plan for the Riverview Golf Course that includes mitigation measures and documentation that the plan was reviewed by the landowners. (*section 4.8.2.4*)

Implementation Plan for Environmental Condition No. 37

This Environmental Condition applies only to Equitrans.

ENVIRONMENTAL CONDITION NO. 38

Prior to construction of the South Fork Tenmile Creek and Monongahela River HDD crossings, Equitrans shall file with the Secretary, for the review and written approval by the Director of OEP, an HDD noise mitigation plan to reduce the projected noise level increase attributable to the proposed drilling operations at the NSAs. **During drilling operations**, Equitrans shall implement the approved plan, monitor noise levels, include noise levels in weekly reports to the FERC, and make all reasonable efforts to restrict the noise attributable to the drilling operations to no more than a 10 dBA increase over ambient noise levels at the NSAs. (*section 4.11.2.3*)

Implementation Plan for Environmental Condition No. 38

This Environmental Condition applies only to Equitrans.

ENVIRONMENTAL CONDITION NO. 39

Mountain Valley shall file noise surveys with the Secretary **no later than 60 days** after placing the equipment at the Bradshaw, Harris (including the WB Interconnect), and Stallworth Compressor Stations into service. If full load condition noise surveys are not possible, Mountain Valley shall provide interim surveys at the maximum possible horsepower load **within 60 days** of placing the equipment into service and provide the full load survey **within 6 months**. If the noise attributable to the operation of all of the equipment at each station under interim or full horsepower load exceeds an L_{dn} of 55 dBA at the nearest NSA, Mountain Valley shall file a report on what changes are needed and shall install the additional noise controls to meet the level within **1 year** of the inservice date. Mountain Valley shall confirm compliance with the above requirement by filing a second noise survey with the Secretary for each station **no later than 60 days** after it installs the additional noise controls. (*section 4.11.2.3*)

Implementation Plan for Environmental Condition No. 39

Mountain Valley will comply with this condition and implement it as written.

ENVIRONMENTAL CONDITION NO. 40

Equitrans shall file a noise survey with the Secretary **no later than 60 days** after placing the Redhook Compressor Station into service. If a full load condition noise survey is not possible, Equitrans shall provide an interim survey at the maximum possible horsepower load **within 60 days** of placing the Redhook Compressor Station into service and provide the full load survey **within 6 months**. If the noise attributable to operation of the equipment at the Redhook Compressor Station exceeds an L_{dn} of 55 dBA at the nearest NSA, Equitrans shall file a report on what changes are needed and shall install the additional noise controls to meet the level **within 1 year** of the in-service date. Equitrans shall confirm compliance with the above requirement by filing a second noise survey with the Secretary **no later than 60 days** after it installs the additional noise controls. (*section 4.11.2.3*)

Implementation Plan for Environmental Condition No. 40

This Environmental Condition applies only to Equitrans.