| Mountain Valley PIPELINE LLC  Wetland Biological Conditions EA Report |  |  |   |                        |                    |                   |                       |  |  |
|---|--|--|---|------------------------|--------------------|-------------------|-----------------------|--|--|
| Project Name H-600 Pipeline   |  | e Spread F   | <b>AFE</b> 124  | 300135                 | Spread             | H-600 Pipel       | 600 Pipeline Spread F |  |  |
|   | Contractor Price Gregory   |  |   |                        | Report #           | 145               |                       |  |  |
| Enviror   | nmental Auditor Mathew Hube  | Date/Time 12/3/2023 8:   |   |                        |                    | :30 PM            |                       |  |  |
| Wetland ID W-C13  |  | Crossing Start Date 12/11/2023 Cro   |   | <b>Crossing Comple</b> | tion Date          | n Date 12/22/2023 |                       |  |  |
| Mi  | lepost 194.73  | Pre-Con Assessment Da  | ate 12/4/20   | 23                     | Post-Con Assessm   | ent Date          | 2/22/2023             |  |  |
| <b>Station</b> 10281+97   |  | Cowardin Classificati  | Cowardin Classification PEM Wetland Impact Area(acres)0.21          |                        |                    |                   |                       |  |  |
|   | State WV   |  |   |                        |                    |                   |                       |  |  |
| C   | County Monroe  |  |   |                        |                    |                   |                       |  |  |
|   | N/org agricum and made ar  | Resource Post-Cro  |   |                        |                    | i=a aail          |                       |  |  |
| 1   |  | quipment mats or other suitable methods utilized under heavy equipment to minimize soil stion and disturbance in wetlands? |   |                        |                    |                   | Yes                   |  |  |
| 2   | Was the existing vegetation  | on removed prior to initiating   | n removed prior to initiating land disturbance within the resource? |                        |                    |                   |                       |  |  |
| 3   | Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?  |  |   |                        |                    |                   | ? Yes                 |  |  |
| 4   | Was excess material not  | needed for backfill removed  | l and dispo   | sed of                 | in an upland area? |                   | Yes                   |  |  |
| 5   | Was the top 12-inches of backfill made with clean native wetland topsoil?  |  |   |                        |                    |                   | Yes                   |  |  |
| 6   | Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?   |  |   |                        |                    |                   | C Yes                 |  |  |
| 7   | Was wetland topsoil replaced and temporarily seeded?   |  |   |                        |                    |                   |                       |  |  |
| 8   | Was permanent seed applied to unsaturated wetlands?  |  |   |                        |                    |                   |                       |  |  |
| 9   | Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?  |  |   |                        |                    |                   | Yes                   |  |  |
| 10  | Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?  |  |   |                        |                    |                   | Yes                   |  |  |
| 11  | Was the pre-construction survey data utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?  |  |   |                        |                    |                   | Yes                   |  |  |
| 12  | Have civil surveys been scheduled to verify as-built conditions meet pre-construction conditions in accordance with the project Mitigation Framework and federal/state permit requirements?  |  |   |                        |                    |                   | Yes                   |  |  |
| 13  | Was the time of disturbance minimized by conducting resource work continuously to completion?  |  |   |                        |                    | Yes               |                       |  |  |
| 14  | Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?  |  |   |                        |                    | Yes               |                       |  |  |
| 15  | Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?   |  |   |                        |                    | n<br>N/A          |                       |  |  |
| 16  | Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain the corrective actions implemented in the Comments section and include additional photos.  Biological Conditions  Pre-Con   |  |   |                        |                    | No n Post-Con     |                       |  |  |
| 47  | Wetland Saturation: Are  | surface waters, the water table, ar  |   | soil satu              | ration             |                   |                       |  |  |
| 17  | present? (Select Yes or No)  Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.  Rating: 1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed) |  |   |                        |                    | Yes<br>4          |                       |  |  |
| 19  | Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con)  Rating:1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)                                    |  |   |                        |                    |                   | 4                     |  |  |

vegetative coverage, etc.)

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| <b>AFE</b> 124300135  | <b>Date/Time</b> 12/3/2023 8:30 PM | <b>Report #</b> 145 |  |  |  |  |  |  |  |  |
|---|------------------------------------|---------------------|--|--|--|--|--|--|--|--|
| Additional Notes  |                                    |                     |  |  |  |  |  |  |  |  |
| Pre-Construction Notes<br>Pre-Construction Meeting - 11/29/2023<br>17. Soil saturation present; groundwater recharge observed in soil test pit (Photo 1).<br>18. Livestock have access to resource. |                                    |                     |  |  |  |  |  |  |  |  |

- 12/11/2023 First half of aquatic resource topsoil excavated (top 12 inches) and segregated, placed in upland work area. Excavated other aquatic resources and outside of aquatic resources.
- 12/12/2023 Second half of aquatic resource excavated (top 12 inches) (Photo 2) and segregated. Drilled for blasting. Prepped for blasting with rubber mats. Blasted.
- 12/13/2023 Drilled for blasting in buffer. Rubber mats placed. Blasted. With timber mats in place, excavated through aquatic resource. Excavating outside of aquatic resource continued. Trench box placed in trench. Welding ongoing.
- 12/14/2023 Excavated in aquatic resource and adjacent area. X-rayed. Pumped water from trench. Continued to excavate through aquatic resource and adjacent area (Photo 3). Excavation completed.
- 12/15/2023 Pumped water from trench. Pipe placed in trench. Welding ongoing. Bedding/padding (dirt) added to trench.
- 12/16/2023-12/18/2023 Pumped water from trench. Welding, x-rayed, cutting, jeeping outside of aquatic resource. Additional sections of pipe added to trench in aquatic resource area (Photo 4) (12/16/2023).
- 12/19/2023 Pumped water from trench. Welding and X-ray ongoing. Bedding and sandbags (as bedding) added to trench (Photo 5). Began constructing trench breakers on the southern end of resource area (also northern trench break for S-C41). Trench backfilled. River weights added.
- 12/20/2023 Continued to backfill (Photo 6). Trench breaker completed.
- 12/21/2023 The crew replaced the top 12 inches of topsoil to the wetland area (Photo 7) and graded it to the correct contour. The upland topsoil was also replaced in adjacent upland areas and graded to the correct contour.
- 12/22/2023 Aquatic resource seeded (Photo 8) and appropriate erosion control measures put in place.

## Post Construction Notes

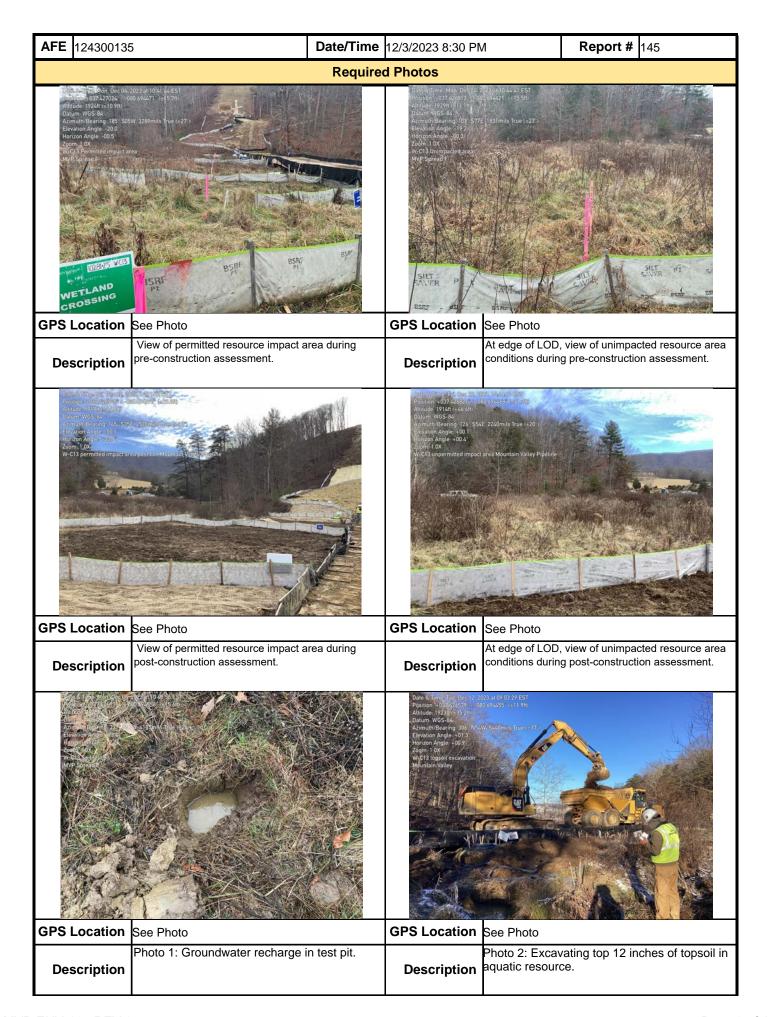
- 17. Saturated soils.
- 18. Rating due to lack of vegetation in disturbed area.
- 19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

Timber mat bridge remains in place for travel lane.

In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

| Name         | Signature  | Company | Date       |
|--------------|------------|---------|------------|
| Mathew Huber | Inder Habe | ERM     | 12/22/2023 |

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AFE 124300135 **Date/Time** 12/3/2023 8:30 PM Report # 145 **Optional Photos GPS Location** GPS Location See Photo See Photo Photo 4: Pipe lowered into trench into aquatic Photo 3: Excavating through aquatic resource. resource area. **Description Description** GPS Location See Photo **GPS Location** See Photo Photo 5: Padding and sandbags in trench. Photo 6: Backfilling of trench. **Description Description** GPS Location See Photo **GPS Location** See Photo Photo 7: Restoring topsoil. Photo 8: Seeding aquatic resource. **Description Description** 

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