| Mountain Valley Wetland Biological Conditions EA Report | | | | | | | | t | | |
|---|---|---|--|----------------------|-------------------|--------------------------|----------------|-----------------------|------------|----------|
| Project Name H-600 Pipeline | | | e Spread F | AFE 124300135 | | Spread | H-6 | 600 Pipeline Spread F | | |
| Contractor Price Gregory | | | | | Report # | Report # 148 | | | | |
| Enviro | nmental | Auditor Beth Burdette | Date/Time 12/4/2023 4:25 | | | | 5 PM | | | |
| Wetland ID W-G6 | | | Crossing Start Date 12/29/2023 Crossing Completion Date | | | Date 1/14 | 4/2024 | | | |
| Milepost | | 190.23 | Pre-Con Assessment Date 12/6/2023 Post-Cor | | | on Assessment Date 1/14/ | | | 4/2024 | |
| Station 1004 | | 10044+40 | Cowardin Classificati | on | PEM | Wetla | nd Impact Ar | ea(| (acres)0.0 | 684 |
| | State WV | | | | | | | | | |
| County Monroe | | | | | | | | | | |
| | lva. | | Resource Post-Cro | | | | | | 11 | |
| 1 | | equipment mats or of action and disturban | other suitable methods utiliz ce in wetlands? | zea | under neavy | equipr | nent to minim | ıze | SOII | Yes |
| 2 | <u> </u> | | g vegetation removed prior to initiating land disturbance within the resource? | | | | | Yes | | |
| 3 | Was t | he top 1-foot (12-inc | ches) of wetland soil segreg | ate | d and stockpi | led se | parate from tr | enc | h spoils? | Yes |
| 4 | Was e | excess material not i | needed for backfill removed | l an | d disposed o | f in an | upland area? | | | Yes |
| 5 | Was t | he top 12-inches of | backfill made with clean na | tive | wetland tops | oil? | | | | Yes |
| 6 | Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed? | | | | | | Yes | | | |
| 7 | Was wetland topsoil replaced and temporarily seeded? | | | | | | Yes | | | |
| 8 | Was permanent seed applied to unsaturated wetlands? | | | | | | Yes | | | |
| 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 | surfac | 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 Yes overland flow patterns? | | | | | | | | |
| 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? | | | | | | | | | |
| 13 | , , , , | | | | | 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/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. | | | | | No Post Con | | | | |
| 47 | Wetla | nd Saturation: Are s | Biological Condition surface waters, the water table, an | | overall soil satu | ration | | | Pre-Con | Post-Con |
| 17 | present? (Select Yes or No) | | | | | | Yes | | | |
| 18 | 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) | | | | | 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.) | | | | | 1 | | | | |

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| AFE | 124300135 | Date/Time | 12/4/2023 4:25 PM | Report # | 148 | | |
|------------------|-----------|-----------|-------------------|----------|-----|--|--|
| Additional Notes | | | | | | | |

Pre-Construction Notes

Pre-Construction Meeting - 12/6/2023

Recent rain/snow

- 17. Surface water only in areas.
- 19. Area is heavily vegetated. Stream (S-G42) delineated previously within wetland.

12/29/2023 - Excavated top 12 inches of topsoil from aquatic resource (Photo 1) and transport to north hill stockpile for segregated storage. Prepped for blast: drill charge holes, etc. Blasted. Removed blast mats in the vicinity of aquatic resource to install flume pipe.

12/30/2023 - Removed remaining blast mats. Placed timber mats in aquatic resource area (Photo 2). Excavated trench upslope of resources and into topsoiled aquatic resource. Subsoil transported to coming-in sidehill. Welded pipe in upland area.

12/31/2023 - Completed excavation of trench through aquatic resource (Photo 3) and relayed subsoil. Pumped water from trench to dewatering structure. Welded pipe in upland area. Timber mat bridge installed across trench for landowner to access property opposite ROW.

1/2/2024 - Pumped water from trench. Walked pipe section to upland trench. Welded pipe in upland area. No activity in aquatic resource.

1/3/2024 - Pumped water from trench. Walked pipe section to upland trench. Walked pipe section for aquatic resource area from southern work area to closer location north of the crossing. Welded pipe in upland area. No activity in aquatic resource.

1/4/2024 - Welded, jeeped, coated, and wrapped pipe with rock shield outside aquatic resource. No activity in aquatic resource.

1/5/2024 - Pumped water from trench. Walked and lowered pipe section into trench in aquatic resource area (Photo 4). Aligned pipe and prepped pipe followed by welding of pipe in upland area.

1/6/2024 - Rain Out. Trench contained a moderate amount of water that was clear prior to heavy rain. ECDs in place. No activity in aquatic resource.

1/7/2024 - Site was extremely muddy. Trench contained significant amount of water that ran into the upland area and bore pit.

Dewatering was ongoing. Water in structure was discharging clear. Pipe brought down and cut. Timber mats placed in trench for welders. New pipe section aligned and welded. Weld completed after dark. X-ray stayed onsite.

1/8/2024 - Site muddy due to weekend precipitation. Pumped water from trench. Dewatering structure discharge clear. Prepped pipe for weld. Welded pipe. X-rayed. No activity in aquatic resource.

1/9/2024 - Rain out. Actively pumped water from trench. No activity in aquatic resource.

1/10/2024 - Pumped water from trench. Sandblasted, jeeped, coated, and wrapped pipe with rock shield outside aquatic resource. Site cleanup. No activity in aquatic resource.

1/11/2024 - Pumped water from trench to dewatering structure. Sandblasted, jeeped, coated, and wrapped pipe with rock shield outside aquatic resource. Site cleanup. Backfilled trench. No activity in aquatic resource.

1/12/2024 - Pumped water from trench to dewatering structure. Site cleanup. Installed resource trench breakers (Photo 5). Backfilled trench (Photo 6). Rain in afternoon.

1/13/2024 - Pumped water out of trench. Backfilled with padding dirt. Survey onsite, shot elevations. Contoured and restored topsoil in aquatic resource. Seeded aquatic resource (Photo 7). Survey shot final elevations.

1/14/2024 - Verifying limits of aquatic restoration and completion of restoration.

Post Construction Notes

17. Surface water, high water table, and soil saturation observed (Photo 8).

19. Aquatic resource has been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded.

Timber mats will remain in place for travel lane.

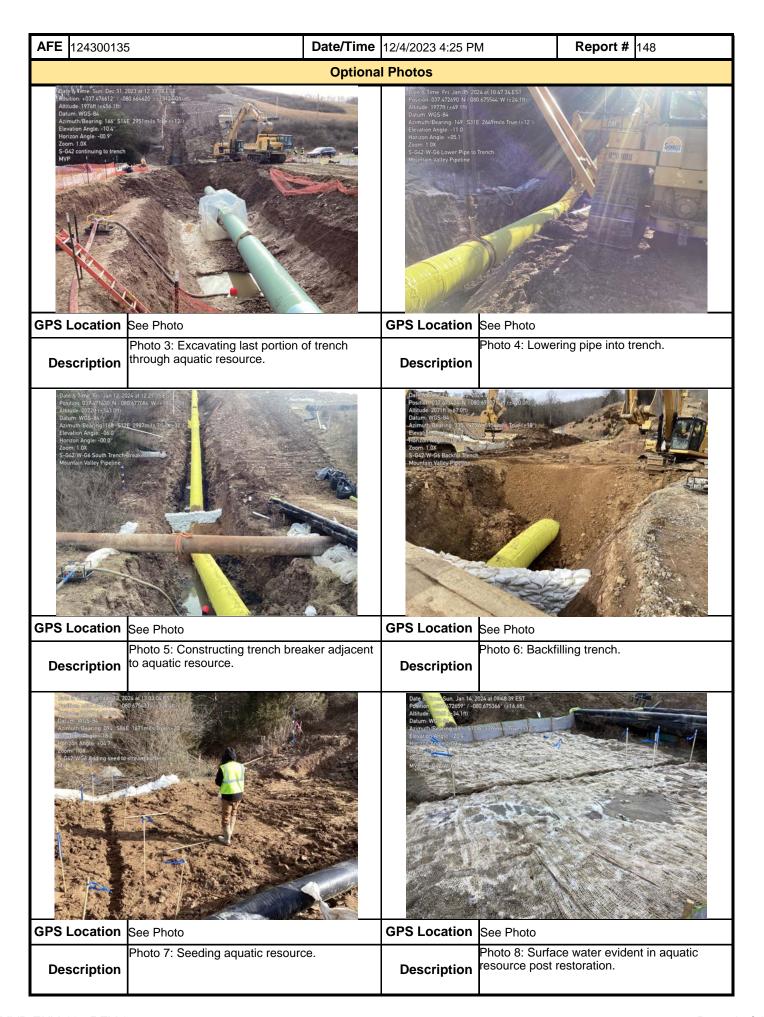
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody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

| Name | Signature | Company | Date |
|---------------|-----------|----------------------------|-----------|
| Beth Burdette | | Potesta & Associates, Inc. | 1/14/2024 |

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