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Wetland Biological Conditions EA Report

| Project Name H-600 Pipeline Sp | | Spread E | AFE | 124300134 | 1 | Spread H-600 Pipeline | | Spread E | | | |
|--|--|--|--|--|---------------------------|----------------------------------|------------------------------|---------------------------------|---------|------------|-----|
| Contractor Price Gregory | | | | | | Report # | 73 | | | | |
| Environmental Auditor Charles Haden Date/Time 10/2/2023 9:47 | | | | | | Y AM | | | | | |
| Wetla | Wetland ID W-M20 Crossing Start Date 10/4/2023 Crossing Completion Date 10/18/2023 | | | | | | | | | | |
| Mi | Milepost 137.05 Pre-Con Assessment Date 10/2/2023 Post-Con Assessment Date 10/18/2023 | | | | | | | | 18/2023 | | |
| S | Station 7236+15 Cowardin Classification PEM Wetland Impact Area(acres) | | | | | | | | | | |
| | State WV | | | | | | | | | | |
| C | county | Greent | orier | | | | | | | | |
| | | | | Resource Post-Cr | | - | | | | | |
| 1 | | | | other suitable methods utili ce in wetlands? | zed u | nder heavy | equipr | nent to minim | nize | soil | N/A |
| 2 | Was t | he exis | sting vegetatio | on removed prior to initiatin | g land | d disturband | ce withi | n the resourc | e? | | Yes |
| 3 | Was t | he top | 1-foot (12-inc | hes) of wetland soil segree | ated | and stockp | iled se | parate from tr | renc | h spoils? | Yes |
| 4 | Was e | excess | material not r | needed for backfill removed | d and | disposed o | f in an | upland area? |) | | N/A |
| 5 | | | | backfill made with clean na | | | | | | | Yes |
| 6 | | | | tion practices (disking, plo zon) implemented prior to | | | tilling, o | or incorporati | on o | of organic | N/A |
| 7 | Was v | vetlanc | d topsoil repla | ced and temporarily seede | d? | | | | | | Yes |
| 8 | Was p | ermar | nent seed app | lied to unsaturated wetland | ls? | | | | | | Yes |
| 9 | | | ent/timber ma gh the impact | atting removed from the we area? | tland | area prope | rly by v | vertically lifting | g, ar | nd not | N/A |
| 10 Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area? | | | | | | N/A | | | | | |
| 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 | | | | ce minimized by conductin | - | | | - | • | | 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 | ¹⁵ Are bareroot saplings required and/or scheduled to be planted for the dormant season $(10/1 - 4/30)$ in PFO classified wetlands? | | | | | | No | | | | |
| 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 | | | | |
| Biological Conditions Pre-Con | | | | | | Post-Con | | | | | |
| 17 | | | turation: Are s ct Yes or No) | surface waters, the water table, a | nd/or o | verall soil satu | Iration | | | Yes | No |
| 18 | haul roa Rating | ads, farn g: 1-Ne | n traffic, drain tile gligible (undisturt | e the wetland soil conditions visib s, recent mowing/clear cutting, re bed/natural resource), 2-Minor (2 isturbed), 4-Poor (>80% of resou | cent e 0-40% | xcavating/disk of resource di | ing of so | oils, etc. | | 2 | 3 |
| 19 | Con)A Rating Margina | Are are g: 1-Opti al (<30% | eas properly s imal (60-100% he | thin the permitted impact seeded and stabilized aft eavy vegetative cover), 2-Sub-op rage), 4-Poor (Mowed/maintained | er res timal (3 | storation? 80-60% mixed | (Post-) vegetati | Con) ve coverage), 3- | | 1 | 3 |

AFE 124300134

Date/Time 10/2/2023 9:47 AM

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 9/18/2023

17. Surface water, soil saturation and groundwater recharge observed in soil test pit (Photo 1).

10/04/2023 - Contractor developed plans to minimize the impact to the permitted impact area of the wetland resource; however, due to its proximity to the centerline wetland topsoil was removed (Photo 2) Soil segregated and stored in upland area (Photo 3). Resource protected from on-going activities with the installation of P1 fencing (Photo 4).

10/05/2023-10/17/2023 - Minimization measures were successfully implemented and other than topsoil removal, wetland resource was not disturbed (Photos 5 and 6). Trenching, hammering, bedding installation, pipe installation, welding, x-ray, sandblasting, coating, the construction of trench breakers, and the backfilling of the trench were all ongoing outside of aquatic resource during this timeframe.

10/18/2023 - Wetland topsoil restoration (Photo 7). Survey of elevation and boundary was completed. Seed applied to resource (Photo 8). Silt sock installed around perimeter of the restored wetland resource.

Post Construction Notes

17. Water did not recharge in post construction test pit.

18. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. Trenching did not occur in resource so Condition Nos. 1, 4, 6, 9, and 10 do not apply.

| n accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation |
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| 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 |
| mpacts to the resources. |

| Name | Signature | Company | Date |
|---------------|---------------|----------------------|------------|
| Charles Haden | Challes Hoden | Potesta & Associates | 10/18/2023 |

| AFE 124300134 Date/T | | | 10/2/2023 9:47 AN | 1 | Report # | 73 | |
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| GPS Location | See Photo | | GPS Location | See Photo | | | |
| Description | View of permitted resource impact a pre-construction assessment. | rea during | Description | At edge of LOD, conditions during | | cted resource area n assessment. | |
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| Description | View of permitted resource impact a post-construction assessment. | rea during | Description | At edge of LOD, conditions during | view of unimpac g post-constructi | cted resource area on assessment. | |
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| GPS Location | See Photo | | GPS Location | See photo | | | |
| Description | Photo 1: Wetland test pit. | | Description | Photo 2: Wetla | nd topsoil remo | oval. | |

| AFE 124300 | E 124300134 Date/Time | | | Л | 73 | | |
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| | | | Il Photos | | | | |
| Date & Time: Wed. Or Position =:030.01192 Althude:34581 (41) 34 Althude:34581 (41) 34 Althude:34581 (41) 34 Althud: Bearing: 25 Elevation Angle =:05 Horizon Angle =:05 Ve-M20 topsoil conta W-M20 topsoil conta W-W20 topsoil conta | 5 575W 4533mils (7ue (±35)) | | Arte 4. Lines Voir Dot 96.2 Arte Voir State Arte Voir Dot 96.2 Arte Voir State Arte Voir Arte | 223 at (13.54 TB EDT D 723084 - TB EUT C 72084 - TB EUT C | | | |
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| GPS Locatio | | | GPS Location | | | | |
| Descriptio | Photo 5: Wetland resource undis 10/9/2023. | turbed | | Photo 6: Wetla 10/14/2023. | nd resource ur | ndisturbed | |
| Albren start in GAS Double WES 540 Elevation Angle - 00 Horizon Angle - 00 Topsoil replaced in W MVP-WM23 | 2300 (Silonis Inpele55) | | Elevator Argiel - 102 2007 1100 Sodiof in WHAD MUP WH2 | See Photo | | | |
| GPS Locatio | | ion | GPS Location | | applied to wat | land resource | |
| Descriptio | Photo 7: Wetland topsoil restorat | | Description | Photo 8: Seed | applied to wet | ianu resource. | |