



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread A	AFE	124300129	Spread	H-600 Pipeline Spread A
Contractor	Precision	Report #	75		
Environmental Auditor	Jake Pokorny	Date/Time	10/2/2023 7:33 AM		
Wetland ID	W-UU4a	Crossing Start Date	10/2/2023	Crossing Completion Date	10/11/2023
Milepost	30.09	Pre-Con Assessment Date	9/27/2023	Post-Con Assessment Date	10/17/2023
Station	1588+75	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.1268
State	WV				
County	Harrison				

Resource Post-Crossing Conditions

1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?	Yes
2	Was the existing vegetation removed prior to initiating land disturbance within the resource?	Yes
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 and disposed 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?	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?	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?	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/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

Biological Conditions

		Pre-Con	Post-Con
17	Wetland Saturation: Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	No	No
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)	1	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	4

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Additional Notes

Pre-Con Assessment - No surface water present. No resource alterations observed at the time of construction. Heavy vegetative cover observed prior to disturbance.

10/02/23 - Wetland topsoil was removed and stockpiled separately from other spoils before trenching.

10/03/23 - Trenching inside the LOD, dam and pump system was maintained and stream conditions monitored.

10/04/23 - pipe installation, welding, X-ray, coating, trench breakers installed and beginning to backfill.

10/05/23 - The area continued to be backfilled.

10/06/23 - The trench box was removed and backfilling continued.

10/07/23 - The southern part of the wetland was backfilled with 12 inches of clean native backfill. The northern side had another section of pipe placed down and welding began.


10/09/23 - Welding continued on the northern side of the wetland. Pipe coating underway but not finished, X-ray inspection completed.







10/10/23 - Pipe coating completed, trench breakers constructed at the edge of the wetland barrier, rock shield applied to pipe, and backfill of the wetland with padded dirt 12" above pipe. Electrical test stations installed on the wetland surface. Began backfilling the wetland from the topsoil stockpile.

10/11/23 - The crew replaced the original 12" of segregated wetland topsoil to the wetland area and graded it to the correct contour. Erosion and sediment controls were then installed around the wetland.

Conditions 18 and 19 were given a rating of 4 during post-construction assessment due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The W-UU4a substrate has been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

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
Jake Pokorny		ERM	10/17/2023

AFE	124300129	Date/Time	10/2/2023 7:33 AM	Report #	75
Required Photos					
 <p>Date & Time: Wed, Sep 27, 2023 at 12:13:36 EDT Position: +039.253021 / -080.540592 (+76.7ft) Altitude: 1181ft (+48.5ft) Datum: WGS-84 Azimuth/Bearing: 332° N28W 5902mils True (+27.1°) Elevation Angle: -10.1° Horizon Angle: +00.7° Zoom: 1.0x</p>		 <p>Date & Time: Wed, Sep 27, 2023 at 11:11:58 EDT Position: +039.253293 / -080.540612 (+76.8ft) Altitude: 1170ft (+33.5ft) Datum: WGS-84 Azimuth/Bearing: 108° 608E 3200mils True (+12.1°) Elevation Angle: -08.3° Horizon Angle: +00.9° Zoom: 1.0x</p>			
GPS Location	See Above.	GPS Location	See Above.		
Description	View of permitted resource impact area during pre-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.		
 <p>Date & Time: Tue, Oct 17, 2023 at 8:30:36 EDT Position: +039.253014 / -080.540522 (+76.6ft) Altitude: 1174ft (+38.1ft) Datum: WGS-84 Azimuth/Bearing: 010° N10E 0178mils True (+16.0°) Elevation Angle: -11.9° Horizon Angle: +00.7° Zoom: 1.0x</p>		 <p>Date & Time: Tue, Oct 17, 2023 at 10:38:21 EDT Position: +039.253333 / -080.540569 (+40.6ft) Altitude: 1173ft (+33.9ft) Datum: WGS-84 Azimuth/Bearing: 182° S02W 3236mils True (+30.0°) Elevation Angle: -11.9° Horizon Angle: +00.7° Zoom: 1.0x</p>			
GPS Location	See Above.	GPS Location	See Above.		
Description	View of permitted resource impact area during post-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.		
 <p>Date & Time: Mon, Oct 02, 2023, 7:01:28 EDT Position: +039.252878 / -080.541155 (+16.4ft) Altitude: 1274ft (+19.7ft) Datum: WGS-84 Azimuth/Bearing: 316° N64W 5118mils True (+10.1°) Elevation Angle: -18.8° Horizon Angle: +04.0° Zoom: 1.0x</p>		 <p>Date & Time: Tue, Oct 03, 2023, 18:38:46 EDT Position: +039.252969 / -080.540468 (+30.8ft) Altitude: 1187ft (+32.8ft) Datum: WGS-84 Azimuth/Bearing: 108° 608E 3200mils True (+12.1°) Elevation Angle: -08.3° Horizon Angle: +00.9° Zoom: 1.0x</p>			
GPS Location	See Above.	GPS Location	See Above		
Description	10/02/23 - Top 12 inches of topsoil and substrate removed and piled separately.	Description	10/03/23 - Excavated down to correct depth.		

Optional Photos		
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GPS Location See Above,	GPS Location See Above.
Description 10/04/23 - trench breakers installed.	Description 10/04/23 - pipe installed, backfilling begun.



GPS Location See Above.	GPS Location See Above.
Description 10/05/23 - The area continued to be backfilled.	Description 10/09/23 - Welding efforts continued



GPS Location See Above.	GPS Location See Above.
Description 10/10/23 - The northern part of the wetland was backfilled and begun backfilling the top 12 inches of topsoil.	Description 10/11/23 - Erosion controls were reinstalled and topsoil graded to pre-construction contour