



# Wetland Biological Conditions EA Report

<b>Project Name</b>	H-600 Pipeline Spread A	<b>AFE</b>	124300129	<b>Spread</b>	H-600 Pipeline Spread A
<b>Contractor</b>	Precision	<b>Report #</b>	46		
<b>Environmental Auditor</b>	Samantha Felix			<b>Date/Time</b>	9/7/2023 8:42 AM
<b>Wetland ID</b>	W-UU3	<b>Crossing Start Date</b>	9/11/2023	<b>Crossing Completion Date</b>	9/23/2023
<b>Milepost</b>	26.03	<b>Pre-Con Assessment Date</b>	9/7/2023	<b>Post-Con Assessment Date</b>	9/23/2023
<b>Station</b>	1374+54	<b>Cowardin Classification</b>	PFO	<b>Wetland Impact Area(acres)</b>	0.0065
<b>State</b>	WV				
<b>County</b>	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?	See Below
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	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?	Yes
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	<b>Wetland Saturation:</b> Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	Yes		Yes
18	<b>Resource Alterations:</b> Are the wetland soil conditions visibly disturbed? <b>Examples:</b> Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. <b>Rating:</b> 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	<b>Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con)</b> <b>Rating:</b> 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

<b>AFE</b> 124300129	<b>Date/Time</b> 9/7/2023 8:42 AM	<b>Report #</b> 46
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**Additional Notes**

9/7/23 - Pre-construction meeting at the site. All pre-construction pictures taken. -S.Felix

9/11/23 - Commenced crossing of wetland after installation of dam and pump due to water flow being present in wetland, 12" of wetland topsoil was segregated and stockpiled in a designated upland area separate from the other spoil. Sheet piling inside of wetland began. - S. Felix

9/12/23 - 9/14/23 - Sheet piling installation continued. -S. Felix

9/15/23 - Crew finished work on the sheet piling. Began work preparing area for pumping stream site. -M. Kastan

9/16/23 - Crew installed I-beams. -S.Felix

9/18/23 - staging and preparing for excavation -S.Felix

9/19/23 - Excavation of the rest of the soil and rock inside of the trench. Pipe was then inserted into the trench towards the end of the day. During the course of the excavation, a hydraulic line on an excavator was damaged, resulting in less than 1 gallon of hydraulic fluid being released into the excavated trench approximately 10' below the wetland surface. No fluid was released onto the wetland topsoil. The excavator was removed to an upland area for repairs, the spill was cleaned up by the contractor and reported to the WVDEP by the EI on site. -M. Kastan

9/20/23 - Welding started and continued throughout the day. -S.Felix

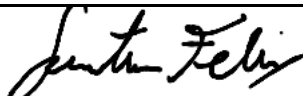
9/21/23 - Finished welding, X-Ray scanning and started filling the trench with subsoil. -S.Felix

9/22/23 - Finished backfilling, removed I-beams, tampered backfill. -J.Pokorny

9/23/23 - The crew pulled the sheet piling, removed the dam, and replaced the original 12" of segregated wetland topsoil to the wetland area and graded it to the correct contour. The upland topsoil was also replaced in adjacent upland areas and graded to the correct contour. Erosion and sediment controls were then installed around the wetland, and adjacent upland areas were stabilized with erosion control fabric with grass seed laid on each slope. -J.Pokorny

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-UU3 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
Samantha Felix		ERM	9/25/2023

**Required Photos**



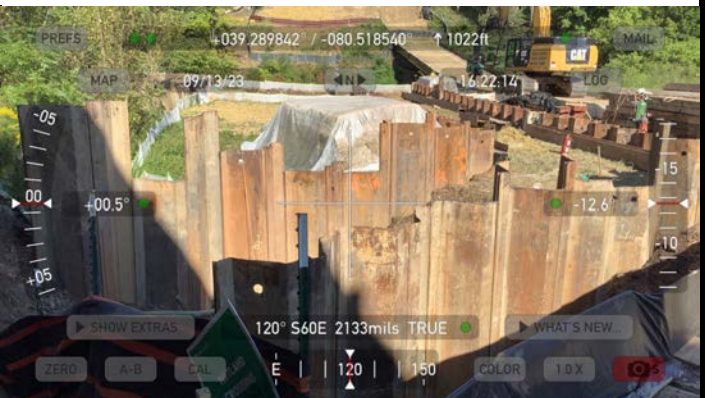
<b>GPS Location</b>	
<b>Description</b>	View of permitted resource impact area during pre-construction assessment.

<b>GPS Location</b>	
<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



<b>GPS Location</b>	
<b>Description</b>	View of permitted resource impact area during post-construction assessment.

<b>GPS Location</b>	
<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



<b>GPS Location</b>	See above.
<b>Description</b>	Sheet piling in progress.

<b>GPS Location</b>	See above.
<b>Description</b>	Continuation of sheet piling.

**Optional Photos**



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Finishing sheet piling.	<b>Description</b>	I-beams installed.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Preparation for excavation.	<b>Description</b>	Excavation of trench.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Welding.	<b>Description</b>	Backfill with subsoil.