



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	AFE	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	167		
Environmental Auditor	Gary Cruz	Date/Time	2/7/2024 5:38 PM		
Wetland ID	W-15	Crossing Start Date	2/1/2024	Crossing Completion Date	2/7/2024
Milepost	127.30	Pre-Con Assessment Date	2/1/2024	Post-Con Assessment Date	2/7/2024
Station	6721+22	Cowardin Classification	PEM	Wetland Impact Area(acs)	0.0082
State	WV				
County	Nicholas				

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?	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/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

AFE 124300132	Date/Time 2/7/2024 5:38 PM	Report # 167
----------------------	-----------------------------------	---------------------

Additional Notes

2/1/2024 - The top 12" of the wetland soil was excavated, segregated, and stockpiled onto geotextile fabric. Contractor excavated a ditch line through the upland areas and wetland.

2/2/2024 - The wetland section of pipe was lowered-in and a weld was started on the coming in side (CIS) of the wetland.

2/3/2024 - The weld on the CIS of the wetland was complete and the tie-in weld on the going away side (GAS) of the wetland was completed.


2/5/2024 – All the welds were verified by x-rayed before coating and applying rock shields. The trench breaker on the CIS of the wetland was installed at station number 6721+12 prior to the commencement of padding and backfill of the ditch line.

2/6/2024 - The trench breaker on the GAS of the wetland was installed at station number 6721+69. During padding the pipe and backfilling of the ditch, wetland subsoil was used to within 12" from top of grade.

2/7/2024 - The wetland topsoil was replaced, and all elevations were verified by survey to pre-construction specifications. Erosion control devices were installed on the boundaries of the wetland and the proper seed mix was applied to the disturbed areas of the wetland.

Conditions 18 & 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. Wetland W-15 PEM topsoil was 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
Gary Cruz		SWCA	2/7/2024

AFE	124300132	Date/Time	2/7/2024 5:38 PM	Report #	167
------------	-----------	------------------	------------------	-----------------	-----

Required Photos

 <p>02/01/2024 09:11:12 +38.175528,-80.730896 89° E W-15-(Pre_GC)</p>		 <p>02/01/2024 09:14:18 +38.175630,-80.730688 130° SE W-15-(Pre_GC)</p>	
GPS Location	See photo above	GPS Location	See photo 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>02/07/2024 16:03:05 +38.175566,-80.730866 70° E W-15-(Post_GC)</p>		 <p>02/07/2024 16:01:38 +38.175566,-80.730706 130° SE W-15-(Post_GC)</p>	
GPS Location	See photo above	GPS Location	See photo 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>02/01/2024 11:19:58 +38.175434,-80.730198 240° SW W-15-(Dur_GC)</p>		 <p>02/02/2024 12:33:50 +38.174446,-80.731795 54° NE W-15-(Dur_GC)</p>	
GPS Location	See photo above	GPS Location	See photo above
Description	Removing the top 12" of wetland topsoil.	Description	Excavated ditch line through the wetland.

AFE 124300132	Date/Time 2/7/2024 5:38 PM	Report # 167
----------------------	-----------------------------------	---------------------

Optional Photos

			
GPS Location	See photo above	GPS Location	See photo above
Description	Wetland section of pipe being lowered into the ditch line.	Description	Padding wetland section of ditch line.
			
GPS Location	See photo above	GPS Location	See photo above
Description	Installing trench breakers on each side of the wetland.	Description	Wetland restored with subsoil within 12" to original grade.
			
GPS Location	See photo above	GPS Location	See photo above
Description	Replacing wetland topsoil within the wetland boundary.	Description	Elevations being verified by survey to pre-construction specifications.