



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	AFE	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	83		
Environmental Auditor	Gary Cruz			Date/Time	10/2/2023 8:14 PM
Wetland ID	W-J8	Crossing Start Date	10/2/2023	Crossing Completion Date	10/11/2023
Milepost	119.93	Pre-Con Assessment Date	10/2/2023	Post-Con Assessment Date	10/11/2023
Station	6332+05	Cowardin Classification	PFO	Wetland Impact Area(acres)	0.0533
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)	Yes		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)	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 10/2/2023 8:14 PM	Report # 83
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Additional Notes

10/2/2023 - The top 12" of the wetland soil was excavated, segregated, and stockpiled onto geotextile fabric. Blasting crew drilled test holes and determined that blasting was not needed.

10/3/2023 - No construction activities were conducted within the wetland feature. The contractor lowered-in a section of pipe in the upland area on the going away side (GAS) of the feature to make tie-in welds.

10/4/2023 – The contractor excavated the ditch line and lowered-in the section of pipe within the wetland.

10/5/2023 - No construction activities were conducted within the wetland feature. The contractor completed the tie-in welds on the GAS of the wetland in the upland area, while excavation of the trench outside of the wetland on the coming in side (CIS) continued.

10/6/2023 - No construction activities were conducted within the wetland feature. The contractor started the tie-in welds on the CIS of the wetland in the upland area, while backfilling operations started in the upland area on GAS of the wetland.

10/7/2023 – No construction activities were conducted within the wetland feature. The contractor continued the tie-in welds on the CIS of the wetland in the upland area, while backfilling operations continued in the upland area on GAS of the wetland.


10/9/2023 - No construction activities were conducted within the wetland feature. The contractor continued the tie-in welds on the CIS of the wetland in the upland area.

10/10/2023 – Trench breakers were installed on the CIS and GAS of the wetland at station number 6332+90 & 6331+95 respectively. Using the wetland subsoil, the contractor padded the pipe and started backfilled the trench.

10/11/2023 – Backfilling of the trench was completed using wetland subsoil to within 12" from top of grade. The wetland topsoil was replaced, and all elevations were verified by survey to pre-construction specifications. Erosion control devices were installed on the GAS boundary of the wetland only, due to S-J28 abutting the CIS of the wetland crossing. 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. The W-J8 PFO topsoil 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
Gary Cruz		SWCA	10/11/2023






AFE 124300132	Date/Time 10/2/2023 8:14 PM	Report # 83
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Required Photos

 <p>10/02/2023 09:00:08 +38.263104,-80.687848 322° NW W-J8-(Pre-GC)f</p>		 <p>10/02/2023 09:01:56 +38.263059,-80.687969 259° W W-J8-(Pre-GC)f</p>	
GPS Location	See photo above	GPS Location	See photo above
Description	View of permitted resource impact area during pre-construction assessment. Photo taken from the left side of ROW from the GAS of the wetland.	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment. Photo taken from right edge of LOD looking off LOD.
 <p>10/11/2023 15:39:57 +38.263025,-80.687768 324° NW W-J8-(Post-GC)</p>		 <p>10/11/2023 15:40:42 +38.263141,-80.687948 265° W W-J8-(Post-GC)</p>	
GPS Location	See photo above	GPS Location	See photo above
Description	View of permitted resource impact area during post-construction assessment. Photo taken from the left side of ROW from the GAS of the wetland.	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment. Photo taken from right edge of LOD looking off LOD.
 <p>10/02/2023 11:50:56 +38.263221,-80.687896 151° SE W-J8-(Dur-GC)</p>		 <p>10/03/2023 16:22:50 +38.263233,-80.687985 154° SE W-J8-(Dur-GC)</p>	
GPS Location	See photo above	GPS Location	See photo above
Description	Contractor removing topsoil of wetland.	Description	Timber mats were installed within the wetland to minimize soil compaction.

AFE 124300132	Date/Time 10/2/2023 8:14 PM	Report # 83
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Optional Photos

 <p>10/04/2023 12:32:49 +38.263121,-80.687809 329° NW W-J8-(Dur-GC)</p>	 <p>10/04/2023 16:46:01 +38.263304,-80.687958 164° S W-J8-(Dur-GC)</p>
<p>GPS Location See photo above</p>	<p>GPS Location See photo above</p>
<p>Description Contractor excavating ditch line within the wetland.</p>	<p>Description Section of pipe has been laid within the wetlands ditch.</p>
 <p>10/10/2023 13:51:17 +38.263235,-80.687910 190° S W-J8-(Dur-GC)</p>	 <p>10/10/2023 15:28:14 +38.263143,-80.687955 135° SE W-J8-(Dur-GC)</p>
<p>GPS Location See photo above</p>	<p>GPS Location See photo above</p>
<p>Description Operator padding the ditch line within the feature.</p>	<p>Description Impervious trench breaker has been installed at 6332+90.</p>
 <p>10/11/2023 12:51:28 +38.263140,-80.688072 218° SW W-J8-(Dur-GC)</p>	 <p>10/11/2023 14:45:37 +38.263279,-80.687879 193° S W-J8-(Dur-GC)</p>
<p>GPS Location See photo above</p>	<p>GPS Location See photo above</p>
<p>Description Survey shooting the grade of the wetland to original grade.</p>	<p>Description Wetland has been restored to its pre-construction grade according to survey.</p>