



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	AFE	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	161		
Environmental Auditor	Scott Wessel			Date/Time	1/15/2024 10:59 AM
Wetland ID	W-A15	Crossing Start Date	1/15/2024	Crossing Completion Date	2/1/2024
Milepost	115.14	Pre-Con Assessment Date	1/13/2024	Post-Con Assessment Date	2/2/2024
Station	6079+38	Cowardin Classification	PSS	Wetland Impact Area(acres)	0.0891
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 1/15/2024 10:59 AM	Report # 161
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Additional Notes

1/15/24 – The top 12" of wetland W-A15 soil was segregated and stockpiled on plastic in an upland area on the coming in side (CIS), while crews continued exposing the loose ends on the CIS and going away side (GAS) of the crossing. Stream crossing S-A73 is inside of the boundaries of wetland W-A15, therefore both resources will be carried out at the same time.

1/16/24 – No work was conducted due to inclement weather.

1/17/24 to 1/18/24 – Blasting operations were conducted throughout the resource area for the next few days.

1/19/24 & 1/20/24 – No work was conducted due to inclement weather.

1/21/24 – Spoils were removed from the resource area while the contractor focused on welding, x-raying, and coating activities of the loose ends on the CIS and GAS of the crossing.

1/22/24 – Excavation of the trench was completed and the ditch was lined with interval spaced sandbags.

1/23/24 to 1/26/24 – During this time the pipe for W-A15 and S-A73 was lowered-in, welded, x-rayed, and coated prior to rock shields being applied.

1/27/24 – Construction efforts were focused on padding the pipe inside of resource area.

1/28/24 – No work was conducted due to inclement weather.


1/29/24 to 1/30/24 – Trench breakers were installed on the CIS and GAS of the resource at station number 6079+24 and 6080+22 using Aqua-block. After the breakers were installed, padding of all exposed pipe was completed and backfilling began.

1/31/24 – Construction efforts were focused on finalizing stream S-A73. Some of the topsoil for wetland was put back that fell inside the 10ft buffer for stream crossing.

2/1/24 – The remaining backfilling for wetland W-A15 was completed prior to replacing the top 12" of wetland soil to its original elevations and contours; which were verified by survey to pre-construction specifications. Once survey staked out the wetland boundaries, the proper seed mix was applied and coconut matting and silt fence was installed.







Conditions 18 and 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-A15 PSS 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
Scott Wessel		SWCA	2/2/2024

AFE 124300132	Date/Time 1/15/2024 10:59 AM	Report # 161
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Required Photos

<p>01/13/2024 08:38:19 +38.323835,-80.670154 99° E W-A15(pre-SW)</p> 		<p>01/13/2024 08:38:14 +38.323835,-80.670154 241° SW W-A15(pre-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
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>02/02/2024 14:18:26 +38.323834,-80.670108 91° E W-A15 (Post-SW)</p> 		<p>02/02/2024 14:18:10 +38.323816,-80.670151 247° SW W-A15 (Post-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
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>01/15/2024 14:28:04 +38.324097,-80.670008 339° N W-A15(dur-SW)</p> 		<p>01/17/2024 11:06:40 +38.324097,-80.670013 197° S W-A15(dur-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Removing the topsoil from wetland to be segregated.	Description	Blasting crew on site drilling to set charges.

AFE 124300132	Date/Time 1/15/2024 10:59 AM	Report # 161
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Optional Photos

<p>01/21/2024 16:35:04 +38.323757,-80.670054 343° N W-A15(dur-SW)</p> 		<p>01/18/2024 13:02:25 +38.324639,-80.669764 124° SE W-A15(dur-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Flume pipe in place while contractor removes sub soil.	Description	Topsoil material segregated and staged on the CIS of resource.
<p>01/23/2024 13:02:30 +38.323785,-80.670034 350° N W-A15(dur-SW)</p> 		<p>01/30/2024 11:42:23 +38.326767,-80.671645 291° W W-A15(dur-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Pipe section for resource crossing after being lowered in and welded on the CIS.	Description	Aquablock trench breaker being intalled on the CIS of resource.
<p>01/31/2024 16:56:43 +38.323757,-80.670088 121° SE W-A15(dur-SW)</p> 		<p>02/02/2024 14:18:28 +38.323834,-80.670108 130° SE W-A15 (Post-SW)</p> 	
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Topsoil adjustments being made on the GAS.	Description	Restored wetland area post construction on the CIS.