



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	A/E	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	143		
Environmental Auditor	Scott Wessel			Date/Time	11/18/2023 12:17 PM
Wetland ID	W-A17	Crossing Start Date	11/18/2023	Crossing Completion Date	12/1/2023
Milepost	114.83	Pre-Con Assessment Date	11/18/2023	Post-Con Assessment Date	12/1/2023
Station	6063+25	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.1300
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 11/18/2023 12:17 PM	Report # 143
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Additional Notes

11/18/23 – The top 12” of wetland topsoil was segregated and stockpiled outside of the wetland boundaries on top of plastic and surrounded by silt fence. Operations continued with exposing the loose ends of the existing pipeline on both the coming in side (CIS) and going away side (GAS) of crossing.

11/19/23 – No work was conducted on Sunday.

11/20/23 – Blasting operations commenced on the CIS and GAS of the resource. During this time pipe preparation in an upland area on the CIS was conducted with welding, x-ray, and coating operations.

11/21/23 to 11/22/23– Once blasting was completed, the trench spoils were excavated from the ditch line of W-A17 for the next couple of days. Dewatering operations were conducted on an as needed basis to a structure on the CIS of resource throughout the crossing.

11/23/23 – No work was conducted on Thanksgiving.

11/24/23 – Dewatering and final adjustments to the ditch were conducted to allow for the pipe to be lowered in the following day.

11/25/23 to 11/26/23 – The pipe for W-A17 was lowered into the ditch and welding operations on the CIS and GAS loose ends were conducted for the next couple of days. Rock shield was added to pipe once x-ray and coating operations were completed.

11/27/23 to 11/28/23 – Trench breakers were installed within 25 feet of the resource on the CIS and GAS at 6063+07 and GAS at 6064+63, respectively. Padding of the pipe inside the resource commenced once the trench breakers were completed.


11/29/23 – After the pipe was padded inside the resource area, the trench in the wetland area was backfilled to within 12” of the original grade. The crew continued padding the pipe outside of the wetland boundaries where the tie-in welds were made.

11/30/23 – The top 12” of wetland soil was replaced and verified by survey to its original elevations and contours. The proper seed was applied to the wetland prior to the installation of coconut matting. The wetland could not be completed by the end of the day due to the lack of sunlight.

12/1/23 – Once survey verified the wetland boundaries, the final installation of coconut matting and silt fence was completed.

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-A17 topsoil was properly stabilized and the disturbed areas have 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	12/1/2023

Required Photos		
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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.



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.



GPS Location See coordinates in above photo.	GPS Location See coordinates in above photo.
Description Topsoil being removed from wetland area.	Description Wetland topsoil staged on plastic and segregated from other spoils on the CIS of resource.

AFE 124300132	Date/Time 11/18/2023 12:17 PM	Report # 143
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Optional Photos

			
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Charges being set after drilling was completed by blasting crew.	Description	Trenching through wetland.
			
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Pipe section for resource crossing being lowered into ditch.	Description	Contractor adding pad dirt next to trench breaker on the GAS of wetland.
			
GPS Location	See coordinates in above photo.	GPS Location	See coordinates in above photo.
Description	Wetland topsoil being added back to resource. Survey was on site to verify pre-construction elevations.	Description	Resource area after restoration completed. Coconut matting was installed after applying proper seed mix.