



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread C	AFE	124300131	Spread	H-600 Pipeline Spread C
Contractor	Precision	Report #	102		
Environmental Auditor	Brian Montgomery			Date/Time	10/18/2023 12:42 PM
Wetland ID	W-KK3	Crossing Start Date	10/18/2023	Crossing Completion Date	10/25/2023
Milepost	82.53	Pre-Con Assessment Date	10/18/2023	Post-Con Assessment Date	10/27/2023
Station	4357+79	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.0222
State	WV				
County	Webster				

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

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Additional Notes

10-18-2023 - The top 12 inches of the substrate was segregated and stockpiled adjacent to the wetland. Excavation of the wetland was completed with the aid of a rock hammer and the subsoil was stockpiled in an upland area.

10-19-2023 – After completing trenching through the wetland, the pipe was lowered in and welding operations began on the coming in side (CIS) loose end.

10-20-2023 - No construction activities were performed due to a rain out event.

10-21-2023 – The next section of pipe from the going away side (GAS) of the wetland to the GAS loose end was lowered in and welding operations started on the wetland end of the pipe. X-ray and coating activities took place later in the day.

10-22-2023 – Welding operations started on the GAS loose end, while coating operations continued on the previously welded sections.


10-23-2023 – Welding operations were completed, and X-ray and coating operations continued throughout the rest of the day.

10-24-2023 – At the completion of x-raying and coating operations, sand bag supports and cathodic protection were installed. Bentonite trench breakers were installed at station number 4357+52 and 4358+32, while padding of the pipe and backfilling began.

10-25-2023 – Backfilling was completed to within the top 12" of grade with wetland subsoil. Survey verified that the wetland topsoil was replaced to preconstruction elevations and contours.

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. The W-KK3 PEM topsoil has been properly stabilized and the disturbed area was 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
Brian Montgomery		SWCA	10/27/2023

Required Photos

GPS Location	See photo	GPS Location	See 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 photo	GPS Location	See 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 photo	GPS Location	See photo
Description	Segregating topsoil.	Description	Hammering rock in the trench.

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Optional Photos

			
GPS Location	See photo	GPS Location	See photo
Description	Welding in the pipe section.	Description	Padding the pipe.
			
GPS Location	See photo	GPS Location	See photo
Description	Replacing prominent wetland features.	Description	Survey checking pre-construction elevations.
			
GPS Location	See photo	GPS Location	See photo
Description	Replacing topsoil.	Description	Broadcasting wetland seed mix.