



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	AFE	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	36		
Environmental Auditor	Josh Guy			Date/Time	8/22/2023 12:07 PM
Wetland ID	W-E18-PSS	Crossing Start Date	8/22/2023	Crossing Completion Date	9/1/2023
Milepost	109.87	Pre-Con Assessment Date	8/22/2023	Post-Con Assessment Date	9/1/2023
Station	5800+91	Cowardin Classification	PSS	Wetland Impact Area(acs)	0.0538
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?	N/A
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

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Additional Notes

A flume and dam/pump around were utilized throughout the crossing as needed.

8/22/23 - Crew utilized timber mats within wetland minimizing soil compaction throughout topsoil removal process. Crew segregated wetland topsoil and staged soils in upland area. Contractor began drilling resource for blasting efforts and initiated blasting efforts within resource boundaries.

8/23/23 - Crew started ditching efforts and began conveying soils to the upland area. The contractor ran into solid rock conditions that required the blasting crew to be brought back into re-drill and blast the crossing; afterwards trenching continued.

8/24/23 – A hammer hoe was required to break up the larger boulders in the ditch line. Hammer hoe had minor hydraulic leak within the ditch and a Vac-Tron pump truck was requested to hydro excavate all contaminates from the ditch before trenching continued.

8/25/23 - Rained out day.

8/26/23 - Crew lowered in stream/wetland section beginning and completing welding efforts on the going away side (GAS) of the resource.

8/27/23 – Trench breakers were installed and surveyed on the GAS of S-E50s, and backfilling began on S-E50s and W-E18-PSS.

8/28/23 - Rained out day.

8/29/23 - Contractor decided not to restore topsoil due to recent rain event.


8/30/23 – The contractor was informed by the on-site Environmental Inspector (EI) that the coming in side (CIS) would need to be tied in and trench breaker installed before the wetlands topsoil could be established. The contractor completed the tie in on the CIS of W-E18-PSS by the end of the day.



8/31/23 - No activity within resource.

9/1/23 – The contractor installed the trench breaker on the CIS of resource boundary prior to working with survey to restoring the wetlands topsoil to pre-construction specifications. Contractor installed jute matting within the resource on GAS of S-E50s from toe of slope to GAS resource boundary.

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-E18-PSS 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
Josh Guy		SWCA	9/1/2023

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Required Photos					
<p>8/22/23 8:18 AM +38.3672N -80.6124W 55° NE Crossing ID W-E18-PSS (Pre_JG)</p> 		<p>8/19/2023 1:39 PM +38.367275 -80.612313 159° S W-E18 PSS (Pre_RG)</p> 			
GPS Location See above in photo		GPS Location See above in photo			
Description View of permitted resource impact area during pre-construction assessment. At GAS resource boundary. Viewing pre-construction current conditions.		Description At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment. At edge of LOD, viewing unimpacted resource area pre-construction.			
<p>09/01/2023 15:28:38 +38.367207 -80.612293 172° S W-E18-PSS-(Post_JGf)</p> 		<p>09/01/2023 16:57:04 +38.367203 -80.612187 153° SE WL-E18 PSS-(Post_JGf)</p> 			
GPS Location See above in photo		GPS Location See above in photo			
Description View of permitted resource impact area during post-construction assessment. At GAS resource boundary. Viewing topsoil restoration completion efforts.		Description At edge of LOD, view of unimpacted resource area conditions during post-construction assessment. At edge of LOD, viewing current conditions of unimpacted resource post construction.			
<p>8/26/23, 12:26 PM +38.367467 -80.612082 182° S W-E18-PSS (Dur_JGf)</p> 		<p>8/27/23, 10:47 AM +38.367334 -80.612220 243° SW W-E18 PSS (Dur_JGf)</p> 			
GPS Location See above in photo		GPS Location See above in photo			
Description View from CIS of resource boundary. View of contractor lowering in section through S-E50s/W-E18-PSS resources.		Description Viewing from CIS resource boundary. View of contractor backfilling resource.			

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Optional Photos

			
GPS Location	See above in photo	GPS Location	See above in photo
Description	View from GAS upland area of resource. View of backfilled resource before restoring topsoil.	Description	View from CIS W-E18-PSS boundary in upland area. View of trench breaker installation at CIS resource boundary 5800+84.
			
GPS Location	See above in photo	GPS Location	See above in photo
Description	View from CIS of resource boundary. View of contractor restoring topsoil to resource.	Description	View from GAS W-E18-PSS boundary in upland area. View of trench breaker installation at GAS resource boundary 5801+51.
Insert image here		Insert image here	
GPS Location		GPS Location	
Description		Description	