

WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



Wetland ID: W-MM17	Crossing Start Date: 09/29/2023	Crossing Completion Date: 10/03/2023
Milepost: 283.4	Pre-Con Assessment Date: 09/27/2023	Post-Con Assessment Date: 10/03/2023
Station: 14991+12	Cowardin Classification: PEM (PEM, PFO, PSS, POW)	Wetland Impact Area (sq ft.): 296.21
County: Franklin		

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?		X	
2.	Was the existing vegetation removed prior to initiating land disturbance within the resource?		X	
3.	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?		X	
4.	Was excess material not needed for backfill removed and disposed of in an upland area?	X		
5.	Was the top 12-inches of backfill made with clean native wetland topsoil?		X	
6.	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?		X	
7.	Was wetland topsoil replaced and temporarily seeded?		X	
8.	Was permanent seed applied to unsaturated wetlands?		X	
9.	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area.		X	
10.	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?		X	
11.	Was the pre-construction survey data provided and 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?		X	
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?		X	
13.	Was the time of disturbance minimized by conducting resource work continuously to completion?		X	
14.	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?		X	
15.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?	X		
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.			X

Item #	Biological Conditions	Pre-Con	Post-Con
17.	Wetland Saturation: <i>Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)</i>	No	No
18.	Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: <i>Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.</i> Rating: <i>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)</i>	3 - Moderate	2 - Minor
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: <i>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.)</i>	2 - Suboptimal	2 - Suboptimal

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Comments/Remarks

09-26-2023: Pre-Con meeting. Jim Parker is MVP EI, Nathan Card is Precision foreman. This resource is being crossed in conjunction with resource S-D7.

09-27-2023: Pre-construction assessment completed. Soil separation in 50' buffers and bore pit preparation. Test drilling for rock. -B. Fennell

9-28-2023: No work in the resource, prep work in upland areas adjacent to resource. -S. Johnson


9-29-2023: Dam and pump with energy dissipater installed for stream crossing. 10' buffer topsoil removed and stockpiled separately. Top 12" of wetland topsoil removed and segregated. Trench excavation completed. Pipe installed and welded. -S. Johnson

9-30-2023: Trench breakers installed. Stream bed and wetland impact area were roughed in and backfilled. Topsoil applied with required seed mixes and matting. Final restoration of resource using collected survey information. Dam and pump removed, and stream flow restored. -S. Johnson

10-3-2023: Crossing noted as completed. Post-construction assessment and documentation collected. -G. Aceves

No unauthorized discharges or impacts to biological conditions were observed during the crossing activities.

In accordance with the Mountain Valley Pipeline Consent Decree, dated October 11, 2019, 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.

<i>This report was written by</i>	George Aceves <i>Print Name</i>	 <i>Signature</i>	10/03/2023 <i>Date</i>
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Required Photos

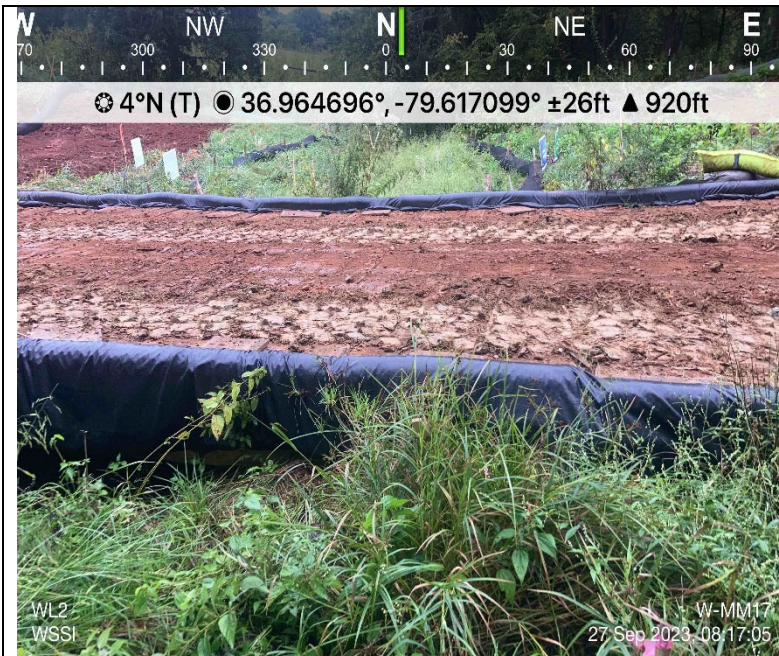


Photo Description: View of permitted resource impact area during pre-construction assessment. Majority of wetland impact area is under timber mat bridge.



Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment. Delineation indicates W-MM17 converges with S-D7 within temporary impact area.



Photo Description: View of permitted resource impact area during post-construction assessment.



Photo Description: At edge of LOD, view of unpermitted resource area conditions during post-construction assessment. Delineation indicates W-MM17 converges with S-D7 within temporary impact area.

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Optional Additional Photos



Photo Description: Buffer zone topsoil stockpiled separately from wetland topsoil.



Photo Description: Restoration of wetland and stream resources.



Photo Description: Trenchbreaker installations.



Photo Description: Wetland topsoil stockpiled and wrapped separately from subsoils.