

# WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



<b>Wetland ID:</b> W-AB6-PEM-1	<b>Crossing Start Date:</b> 11/23/2023	<b>Crossing Completion Date:</b> 12/02/2023
<b>Milepost:</b> 243.4	<b>Pre-Con Assessment Date:</b> 11/18/2023	<b>Post-Con Assessment Date:</b> 12/05/2023
<b>Station:</b> 1285921	<b>Cowardin Classification:</b> PEM (PEM, PFO, PSS, POW)	<b>Wetland Impact Area (sq ft.):</b> 2818.33
<b>County:</b> Roanoke		

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.	<b>Wetland Saturation:</b> <i>Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)</i>	No	No
18.	<b>Resource Alterations: Are the wetland soil conditions visibly disturbed?</b> <b>Examples:</b> <i>Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.</i> <b>Rating:</b> <i>1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (&gt;80% of resource disturbed)</i>	1 - Negligible	1 - Negligible
19.	<b>Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)</b> <b>Are areas properly seeded and stabilized after restoration? (Post-Con)</b> <b>Rating:</b> <i>1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (&lt;30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)</i>	1 - Optimal	1 - Optimal

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## Comments/Remarks

11/17/2023 - Pre-Construction meeting scheduled for 11/18. EI on-site is Dylan Hooper. - M. Vierra

11/18/2023 - Pre-Construction auditor assessment completed. Timber mats have been installed for wetland topsoil segregation. Dewatering structures installed at both ends of workspace. P1 or super silt fencing may be used to replace diversion berms during construction. Initial construction is scheduled for 11/20. - M. Vierra

11/20/2023- Initial construction postponed due to forecasted rain; 11/23/23 is the new target date. - T. Brodbeck

11/24/2023- Removing topsoil adjacent to wetland. Constructed topsoil and subsoil berms, separated with 6" of clean straw. -T. Brodbeck

11/25/2023 – Dewatering structure inspected and functioning as designed. Water has not overflowed the structure and the intake filter, filtration bag, dewatering structure, straw bales and CFS is functioning. Work being done adjacent to wetland area. - T. Brodbeck

11/26/2023 - Lowering and setting pipeline into trench. Water discharge from dewatering structure was mostly clear, and controls functioning. No change in resource conditions. -T. Brodbeck

11/27/2023 - Backfilled upland subsoil adjacent to wetland area. - T. Brodbeck

11/28/2023 – Backfilling continues adjacent to wetland area. -T. Brodbeck

11/29/2023. - Lowering and setting pipeline adjacent to WL. Timber mats in place as required to protect wetland area from compaction. -T. Brodbeck

11/30/2023 - Welding and X-ray completed. Backfilled trench with subsoil. - T. Brodbeck

12/01/2023 - Topsoiled wetland and applied seed and straw. Topographical survey completed. - T Brodbeck

12/02/2023 - Resource restoration completed. Installed P1 Fencing along border of wetland & upland buffer zone; Reseeded wetland & upland buffer zone. Cover wetland and upland buffer zone with clean straw. Second dewatering structure constructed continued construction in upland area and other resources in the proximity - T. Brodbeck

12/03/2023 - Timber mats will remain in place as travel lane for construction traffic to adjacent wetland. -T. Brodbeck

12/05/2023 – Post construction auditor assessment and documentation completed. No impacts to biological conditions or unauthorized discharges were observed. -T. Brodbeck

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.

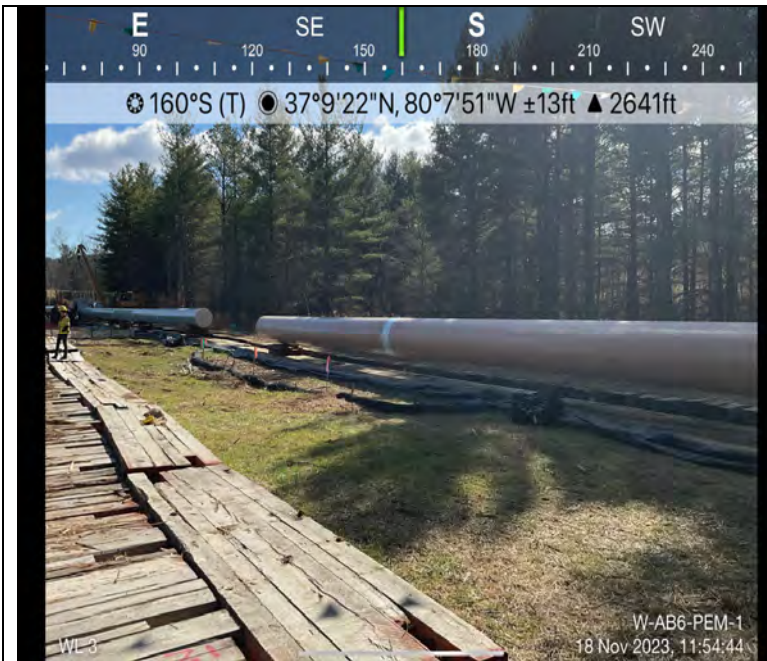
<i>This report was written by</i>	<b>Troy Brodbeck</b> <hr style="width: 80%; margin: 0 auto;"/> <i>Print Name</i>	 <hr style="width: 80%; margin: 0 auto;"/> <i>Signature</i>	<b>12/06/2023</b> <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
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## Required Photos



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



**Photo Description:** At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.



**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.



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## Optional Additional Photos



**Photo Description:** Second dewatering structure installed to assist with trench dewatering.



**Photo Description:** Survey crew on-site providing topographical data for restoration.



**Photo Description:** Erosion and sediment controls installed around re-stored wetland area.



**Photo Description:** Site overview of upland activities outside resource impact area.