

# WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



<b>H5Wetland ID:</b> W-H5	<b>Crossing Start Date:</b> 11/01/2023	<b>Crossing Completion Date:</b> 11/04/2023
<b>Milepost:</b> 290.2	<b>Pre-Con Assessment Date:</b> 10/24/2023	<b>Post-Con Assessment Date:</b> 11/06/2023
<b>Station:</b> 15348+29	<b>Cowardin Classification:</b> PEM (PEM, PFO, PSS, POW)	<b>Wetland Impact Area (sq ft.):</b> 9003.85
<b>County:</b> Pittsylvania		

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>	Yes	Yes
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>	2 - Minor	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>	2 - Suboptimal	1 - Optimal

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**Comments/Remarks**

10-24-2023: Pre-construction meeting and auditor assessment. The Precision foreman is C. Dennis, and the MVP EI is G. Morrow. This resource is being crossed in conjunction with S-H13. -K. Douglas

10-25-2023: Site preparation is beginning in the upland areas. The resource crossing is anticipated to begin later in the week. -K. Douglas

10-26-2023: The dewatering structure and pump locations were established. The crossing is anticipated to begin on Monday, 10-30-23. -K. Douglas

10-28-2023: Work in the resource began. The top 12-inches of topsoil was excavated and separated from subsoil. The blasting crew drilled and installed dynamite. The blasting was successful. -A. Rauls

10-30-2023: No activity on the site this morning. The fish relocation for stream resource is scheduled for Wednesday 11-1-23. -B. Fennell

11-1-2023: Stream resource crossing activities have begun. The topsoil and subsoils were excavated, separated, and stockpiled according to the plans. Active trenching and pipe preparation were underway. A section of pipe was lowered into the trench and a rock shield was installed. Welding activities are ongoing. The trench was dewatered as necessary. Additional rock hammering occurred to obtain the appropriate depth for the trench. In the afternoon, additional sections of pipe were transported and set into the padded trench. Welding began. -B. Fennell

11-2-2023: Welding was completed on the CIS and GAS. The welds were QA/QCed, sandblasted and coated. The CIS trench boxes were installed within 25-feet of the stream and the GAS trench boxes were installed within 25-feet of the wetland. The pipe was padded. -G. Aceves

11-3-2023: The crew completed backfilling the subsoil for the stream. The bank on the CIS was sloped 3:1 to make the stream banks as stable as possible. The top 12-inches of topsoil was replaced inside of the 10-foot buffer. The top 12-inches of stream substrate was replaced and contoured for final grade. The survey crew staked out the toe and thalweg for the stream elevation. The banks inside of the 10-foot buffer were seeded with a permanent riparian mix. Heavy duty stabilization matting was installed, and flow was restored. -G. Aceves

11-4-2023: The topsoil was backfilled in the wetland resource, seed and straw mulch was applied. A survey was conducted for as-built drawings after restoration was complete.

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

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>George Aceves</b> <hr style="width: 80%; margin: 0 auto;"/> <i>Print Name</i>	 <hr style="width: 80%; margin: 0 auto;"/> <i>Signature</i>	<b>11/06/2023</b> <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
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## Required Photos



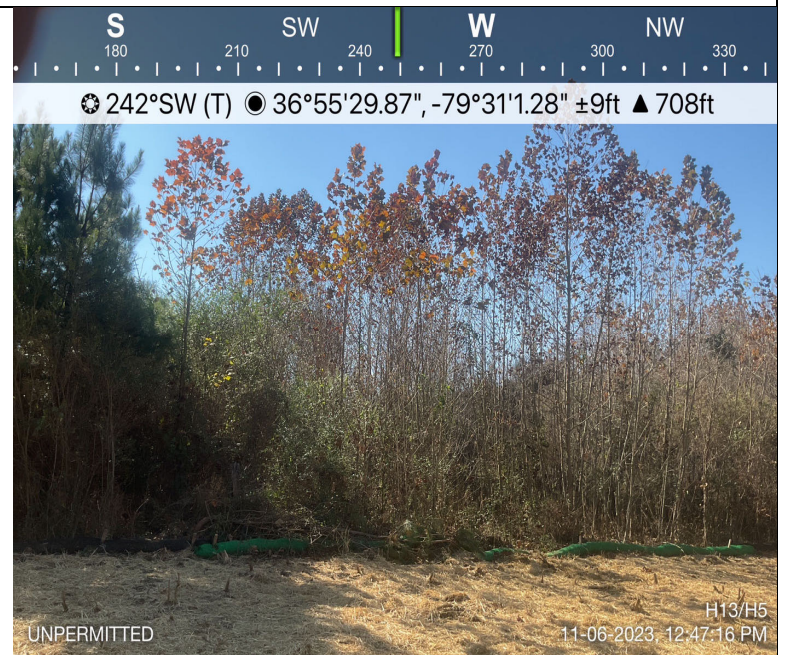
**Photo Description:** View of permitted resource impact area during pre-construction assessment.



**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:** An overview of the dewatering structure.



**Photo Description:** Wetland topsoil that has been separated and stockpiled.



**Photo Description:** An overview of the wetland as it is being backfilled.



**Photo Description:** An overview of the wetland after restoration is complete.