

# WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



<b>Wetland ID:</b> W-KL17	<b>Crossing Start Date:</b> 12/18/2023	<b>Crossing Completion Date:</b> 12/31/2023
<b>Milepost:</b> 243	<b>Pre-Con Assessment Date:</b> 12/07/2023	<b>Post-Con Assessment Date:</b> 12/31/2023
<b>Station:</b> 12838+07	<b>Cowardin Classification:</b> PSS (PEM, PFO, PSS, POW)	<b>Wetland Impact Area (sq ft.):</b> 1894.86
<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-Suboptimal (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

12/06/23 – The pre-construction is scheduled for Thursday, 12/07/23 at 10am. The MVP EI onsite is Dylan Hooper. -T. Brodbeck

12/07/23 – The pre-construction assessment was completed. Three-inch pumps were brought on-site for the pump around with a backup pump on standby. Filter socks were previously installed for the timber mat bridge construction. Construction is anticipated to begin on Monday, 12/18/23. -T. Brodbeck

12/08-17/23 – No work activity in the resource. -T. Brodbeck

12/18/23 - Construction of the pump around has been completed. Wetland topsoil was excavated and stored on Geotech. The wetland topsoil was segregated from the stream topsoil and covered with straw mulch. Excavation and trenching began through the wetland. -T. Brodbeck

12/19/23 - Trench breakers were installed utilizing sandbags. The pipe was welded and x-rayed, and the wetland was backfilled with padding subsoil. -T. Brodbeck

12/20/23 – The stream was restored, and the riparian seed was applied to the stream bank. Curlex was applied to the stream bank. The crew began excavating topsoil from the wetland. - T. Brodbeck

12/21/23 – The resource topsoil remains excavated, stockpiled, and stabilized with straw mulch. Restoration continued for the stream resource. The P1 fencing was installed. Sediment was removed from the timber mat bridge and the matting was replaced. Restoration of the topsoil is anticipated to finish on Saturday, 12/27/23. - T. Brodbeck

12/22/23 – The timber mat bridge has been cleaned. No activity in the resource. - T. Brodbeck

12/23-27/23 – No work activity completed in the resource as most crews were in stand down for holidays. Crossing method maintained throughout break by environmental maintenance crew. -T. Brodbeck

12/28/23 – Water was pumped out of trench adjacent to the wetland. The topsoil has been stored in the buffer zone. The crew is waiting for the pipe to be placed in adjacent upland. - T. Brodbeck

12/29/23 - Welding & coating began in the adjacent upland. The wetland topsoil will be restored. In the adjacent upland, the area was backfilled and topsoiled. No change in resource conditions. - T. Brodbeck

12/30/23 - Welding & coating began in the adjacent upland. The wetland topsoil will be restored. In the adjacent upland, the area was backfilled and topsoiled. No change in resource conditions. - T. Brodbeck

12/31/23 – The resource restoration was completed. The P1 fencing was installed along the border of the wetland and upland buffer zone. Seed was applied to the wetland and upland buffer zone and straw mulch was applied. The post-construction auditor assessment was completed. No impacts to biological conditions or unauthorized discharges were observed during the crossing. - 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.

This report was written by	<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>12/31/2023</b> <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
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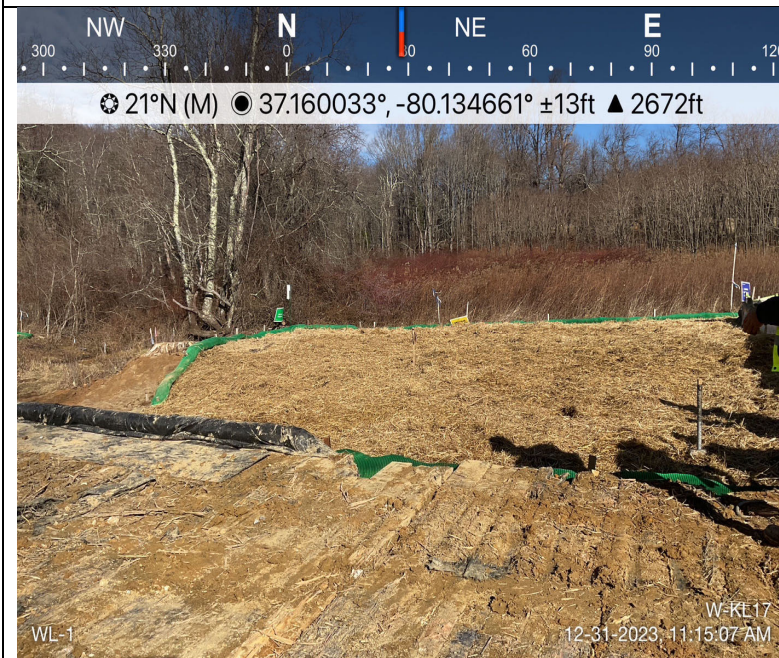
## Required Photos



**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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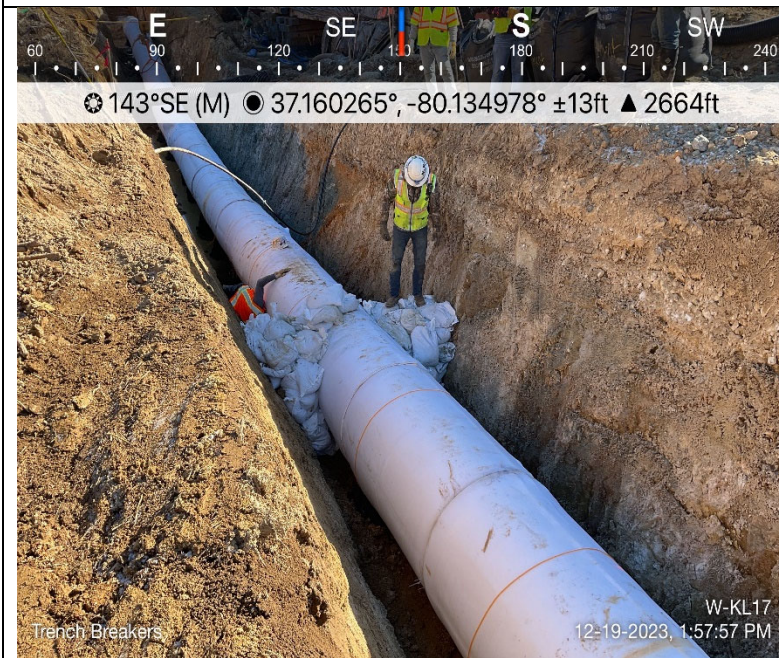
## Optional Additional Photos



**Photo Description:** The topsoil was excavated and segregated.



**Photo Description:** The segregated wetland and stream stockpiles.



**Photo Description:** Trench breakers were installed along the pipe.



**Photo Description:** The wetland topsoil was restored.