

WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



Wetland ID: W-AB6-PEM-2	Crossing Start Date: 12/01/2023	Crossing Completion Date: 12/15/2023
Milepost: 243.3	Pre-Con Assessment Date: 11/18/2023	Post-Con Assessment Date: 12/16/2023
Station: 12854+27	Cowardin Classification: PEM (PEM, PFO, PSS, POW)	Wetland Impact Area (sq ft.): 14248.48
County: 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.	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>	1 - Negligible	1 - Negligible
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-Suboptimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)</i>	3 - Marginal	3 - Marginal

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Comments/Remarks

11/17/23 - Pre-Con scheduled for 11/18. El on-site is Dylan. This resource is being crossed in conjunction with seven other WL areas: AB5, AB6-PSS, AB6-PFO-1, AB6-PEM-1, AB6-PEM-2, HS02, EF42. - M. Vierra
11/18/23 - Pre-Con Assessment completed. Timber mats have been installed for wetland topsoil segregation. 1 Dewatering Structure to start, 2 Dewatering Structures will eventually book-end construction site. Initial construction scheduled for 11/20/23. - M- Vierra
11/20/23 - Initial construction was postponed due to forecasted rain; 11/24/23 is the new target start date. - M. Vierra
11/24-28/23 - Construction began on adjacent wetland, no change in resource area. - M. Vierra
11/29/23 - Construction continued on adjacent wetland, no change in resource area. 2nd Dewatering Structure constructed. - M. Vierra
11/30/23 - Construction continued on adjacent wetland, no change in resource area. - M. Vierra
12/01/23 - Construction began in resource area, Upland & WL Topsoil removed & segregated. - M. Vierra
12/02/23 - Completed upland & wetland Topsoil removal & segregation, covered topsoil piles with 6" of Clean Straw. - M. Vierra
12/04/23 - Ditched trench: upland & wetland Subsoil removed & placed as berms on timber mats. Staged pipe section for lowering. - M. Vierra
12/05/23 - Lowered pipe section into trench, welded upland GAS, coated & X-rayed. - M. Vierra
12/06/23 - Constructed trench breakers and backfilled Upland & WL Subsoil & Topsoil. - M. Vierra
12/07/23 - Installed P1 Fencing along wetland border, seeded & covered Upland buffer on GAS in Clean Straw, seeded & covered WL in Clean Straw. - M. Vierra
12/08/23 - Topographical Survey performed. - M. Vierra
12/09 - 14/23 - No change in Resource Area, waiting for construction to be completed in upland buffer CIS. - M. Vierra
12/15/23 - Final P1 fencing applied to wetland border CIS, upland buffer zone CIS seeded & strawed. Restoration completed. - M. Vierra
12/16/23 - Post-Con assessment completed. - M. Vierra

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	Matthew Vierra <i>Print Name</i>	 <i>Signature</i>	12/16/2023 <i>Date</i>
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Required Photos



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

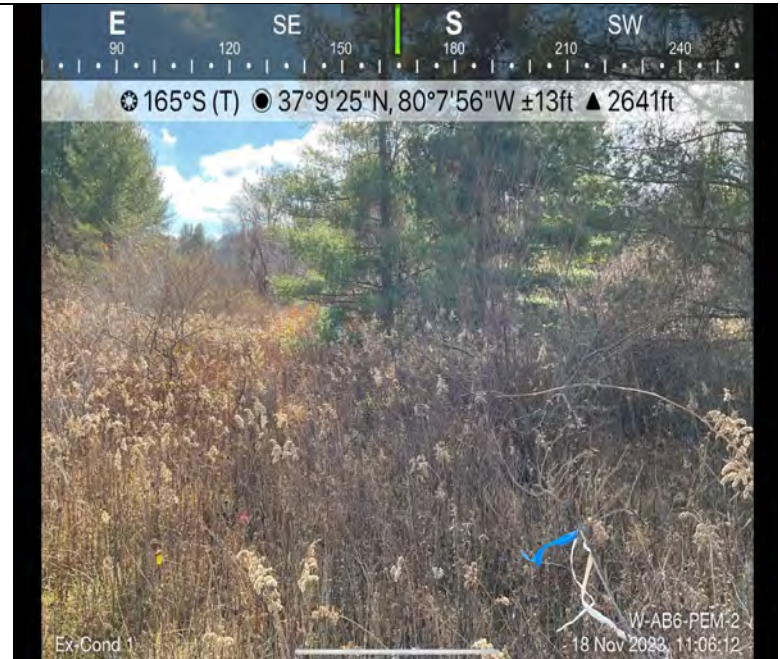


Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.



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: Upland Meadow Mix

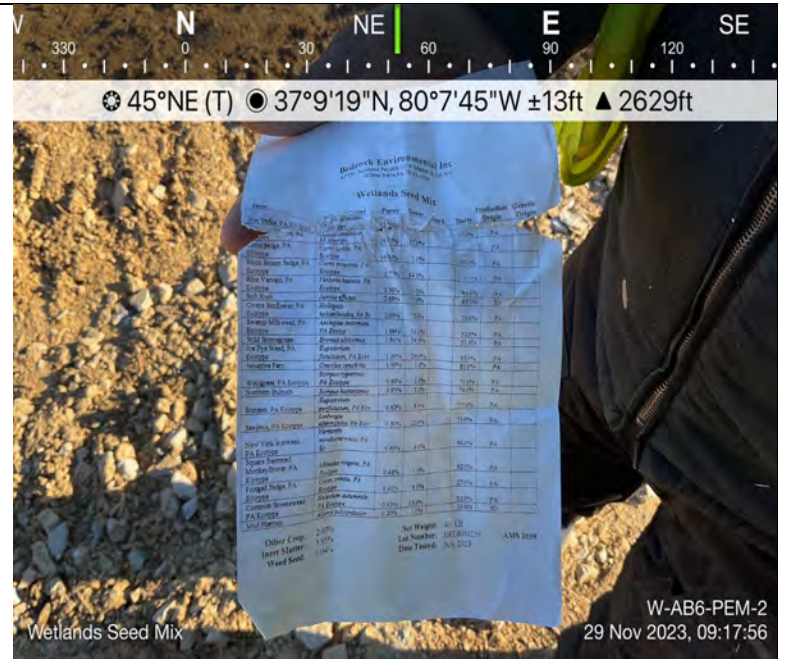


Photo Description: Wetlands Seed Mix



Photo Description: Wetland topsoil removal



Photo Description: Wetland topsoil restoration