

# WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



<b>Wetland ID:</b> W-IJ1	<b>Crossing Start Date:</b> 10/10/2023	<b>Crossing Completion Date:</b> 12/08/2023
<b>Milepost:</b> 253.9	<b>Pre-Con Assessment Date:</b> 10/02/2023	<b>Post-Con Assessment Date:</b> 12/08/2023
<b>Station:</b> 13414+11	<b>Cowardin Classification:</b> PEM (PEM, PFO, PSS, POW)	<b>Wetland Impact Area (sq ft.):</b> 1812.1
<b>County:</b> 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.	<b>Wetland Saturation:</b> Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	No	No
18.	<b>Resource Alterations: Are the wetland soil conditions visibly disturbed?</b> <b>Examples:</b> Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. <b>Rating:</b> 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)	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> 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.)	2 - Suboptimal	1 - Optimal

## Comments/Remarks

7/10/23: The original timber mat bridge crossing was scheduled.

7/11/23: Timber mat replacement begins and work continues until 7/13/23. Work was stalled due to wet conditions on 7/14/23.

MVP EI for this crossing is Matt Futkos, Foremen have been Jake King (from 10/2-10/23), Sam Grey (from 10/23-11/20), and "Box" (from 11/20-12/8)

10/2/23: The Pre-Con meeting was held and assessment was conducted. - S. Manzo

10/10/23: Equipment mats were installed to minimize impact to the wetland as the crossing begins. The top 12 inches of top soil was removed and segregated from trench spoils. Drilling rock began in preparation for blasting. The dewatering structure was constructed properly and is ready for use. S. Frost

10/11/23: Blasting within the resource area was completed. Hammering rock began in preparation for extending the ditch. No impacts to biological conditions. - A. Thorpe

10/12/23: Hammering continues. Water was pumped from the trench pit and the dewatering structure continues to function properly. - A. Thorpe

10/13/23: Hammering rock and digging trench pit continues. Dewatering structure still functioning properly. A. Thorpe

10/14/23: The next section of pipe was lowered into the pit and welding began. - A. Thorpe

10/16/23: Coating and QA/QC was completed. The next trench box was installed. - A. Thorpe

10/17/23: The impervious trench breaker on the Coming In Side (for S-IJ3 and W-IJ2) was installed. Excavation of the trench pit then began in W-IJ1 and S-IJ2. A. Thorpe

10/18/23: Excavation within the resource area continues. Hammering and drilling were implemented to get through the rock. - A. Thorpe

10/19/23: Excavation continues. - A. Thorpe

10/20/23: Work halted for rain out. - A. Thorpe

10/21/23: Hammering, drilling, and excavation of the trench pit continues. - A. Thorpe

10/22/23: Excavation continues. The area was prepped for blasting. - A. Thorpe

10/23/23: Blasting was completed. Hammering and excavation continued until the trench was completely dug out. The pipe was lowered in and welding began. - A. Thorpe

10/24/23: Welding was completed and QA/QC began. - A. Thorpe

10/25/23: The weld was sand blasted and coated. The impervious trench breaker on the Going Away Side for S-IJ2 & W-IJ1 was installed. The Coming In Side trench breaker still needs to be installed. Started backfilling the trench before the TB. - A. Thorpe

10/26/23: Backfilling continues. The Pre-Con meeting for S-IJ1 was held. - A. Thorpe

10/27/23: Backfilling continues. - A. Thorpe

10/28/23: S-IJ1 crossing started. - A. Thorpe

10/30/23: A trench box was installed and the stream bed of S-IJ1 was blasted. - A. Thorpe

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10/31/23: The upland buffer zone of S-IJ1 was blasted. A. Thorpe  
11/01/23: Began hammering rock in the trench pit to continue excavation. A. Thorpe  
11/02/23: Continued excavation with drilling rock in the trench pit. A. Thorpe  
11/03/23: Drilling continues. A. Thorpe  
11/04/23: Drilling continues. A. Thorpe  
11/06/23: Excavation of trench pit continues with hammering. Another trench box was installed and the next section of pipe was prepped for installation. A. Thorpe  
11/07/23: Excavation continues through S-IJ1. Dewatering structure continues to function properly as well as the dam & pump. A. Thorpe  
11/08/23: The next section of pipe was lowered into the trench but the engineering on the bend was wrong, so it didn't fit. A. Thorpe  
11/09/23: The crew completed E&S tasks and prepped for the coming rain. Began fixing the engineering error in the pipe section. A Thorpe  
11/10/23: Continuing to fix the engineering error in pipe. Dewatering structure still functioning properly. Prepping to excavate upland trench. A. Thorpe  
11/11/23: Pipe repair continues with QA/QC and rock shielding. Preparation continues in the upland trench area. A. Thorpe  
11/13/23: Pipe repair continues as well as hammering rock in the trench pit. A. Thorpe  
11/14/23: Successfully lowered in the pipe and began welding and QA/QC. A. Thorpe  
11/15/23: QA/QC continues and an upland pipe section was lowered in further up the hill. A. Thorpe  
11/16/23: Made final adjustments to QA/QC. Excavated the rest of the upland trench and prepped to lower in the final tie in section. A. Thorpe  
11/17/23: The final section of pipe was lowered in and welding began. A. Thorpe  
11/18/23: Completed the final tie in weld. A. Bailey  
11/20/23: Began subsequent QA/QC and prepped for the coming rain. A. Thorpe  
11/21/23-11/23/23: Work halted for 2 rain days and Thanksgiving Holiday. A. Thorpe  
11/24/23: Continued QA/QC of the final welds. The new Precision Foreman is "Box" and the EI is still Matt Futkos. A. Thorpe  
11/25/23: Began construction of the Coming In Side impervious trench breaker with bentonite bags. A. Thorpe  
11/26/23: Trench breaker construction continues, along with padding the trench. The Coming In Side trench breaker was completed. Both trench breakers have now been fully constructed (GAS TB was built on 10/25/23). A. Thorpe  
11/27/23: Padding of the trench continues and an upland trench box was removed. In the late afternoon, one of the Morookas malfunctioned, reversed off of the timber mat bridge, and fell into the downstream bed of S-IJ1 on the trench pit side (within the ROW). No immediate negative downstream impacts were observed (see additional details in the S-IJ1 report). Backfill of the trench began. A. Thorpe  
11/28/23: The Morooka was removed and the area was thoroughly cleaned. Still no negative

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impacts to the resource were observed. A. Thorpe  
 11/29/23: The final trench box was removed and backfill of the trench began. A. Thorpe  
 11/30/23: Final restoration of S-IJ1 was completed. Preparation for the restoration of S-IJ2 & W-IJ1 began by backfilling the area with subsoil. A. Thorpe  
 12/1/23: Survey staked the subsoil to grade for the top of bank and the wetland boundary. The top 12 inches of clean native wetland (W-IJ1) topsoil was then placed within the boundary and survey verified the grade. The top 12 inches of stream (S-IJ2) fill was made with native stream substrate and survey verified the grade. The downstream dam was deconstructed and the stream banks were seeded and curlexed. The wetland topsoil was raked, seeded, and strawed. CFS were placed along the wetland boundaries. The CIS 50 foot buffer was seeded and strawed. A. Thorpe  
 12/2/23: E&S work was completed to prep for the upcoming rain. The post con assessment was made today and pics will be taken as soon as the bridge and buffer zones are cleared from excess material. A. Thorpe  
 12/4/23: The GAS 50 foot buffer zone was re-topsoiled, seeded, and strawed. Materials remain on the bridge and in the buffer zone. A. Thorpe  
 12/5/23: The CIS 50 foot buffer for S-IJ1 was seeded and curlexed. Leftover E&S materials (CFS wrapping, curlex, empty supersaks, & used stakes) remain in the way of taking the post con photos for S-IJ2 and W-IJ1. A. Thorpe  
 12/6/23: The materials are being used in other areas and there is no word on when they will be moved. A. Thorpe  
 12/7/23: Materials remain on the bridge and in the buffer zone after being asked to remove them yesterday. A. Thorpe  
 12/8/23: Post con photos were taken following removal of materials. A. Thorpe

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	Alessandra Thorpe <i>Print Name</i>	 <i>Signature</i>	12/09/2023 <i>Date</i>
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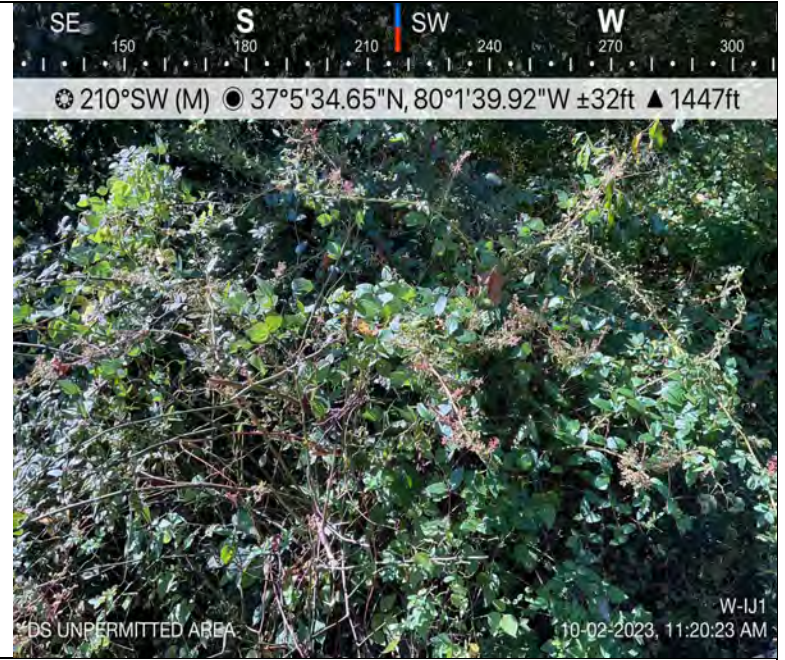
**Required Photos**

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**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.

## Optional Additional Photos

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**Photo Description:** Upstream view of permitted area



**Photo Description:** Additional downstream view of unpermitted area



**Photo Description:** Raking and staking wetland elevations and topsoil.



**Photo Description:** Staking W-IJ1 Boundary