

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-MM15	Crossing Start Date: 09/27/2023	Crossing Completion Date: 10/06/2023
Milepost: 228.5	Pre-Con Assessment Date: 09/26/2023	Post-Con Assessment Date: 10/09/2023
Station: 12076+95	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 6
County: Montgomery	303(d) Impairment Listing: Not Impaired	Riffle:Pool Complexes Present? No

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were all applicable resource specific crossing conditions satisfied? Time of Year Restrictions (TOYR)? <u>N/A</u> Fish Relocation? <u>N/A</u> Mussel Relocation? <u>N/A</u>		X	
2.	Is this resource designated a wild or stockable trout stream?			X
3.	Which crossing methods were utilized during the stream crossing? <i>(Select one or more)</i> Dam & Pump, Flume, Cofferdam, Conventional Bore, Horizontal Directional Drill (HDD) Bore?	Dam & Pump, Flume		
4.	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?		X	
5.	Was excess material not needed for backfill removed and disposed of in an upland area?		X	
6.	Was the top 12-inches of backfill made with clean native stream substrate?		X	
7.	Was the pre-construction survey data provided and utilized during restoration in attempt to re-establish pre-construction contours?		X	
8.	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?			X
9.	Were impervious trench breakers/plugs properly installed within 25-feet of top-of-bank to prevent subsurface erosion to or from the resource area?		X	
10.	Was permanent seed and stabilization material (straw or matting) applied to riparian areas and stream banks prior to re-establishing flow to the impact area of the channel?		X	
11.	Was the time of disturbance minimized by conducting resource work continuously to completion?		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.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30)?	X		
14.	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
15.	Predominant Substrate Type (select one): <i>Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay</i>	Boulder (>10")	Cobble (2-10")
16.	Channel Conditions: Rating: 1-Optimal (80-100% stable banks), 2-Suboptimal (60-80% stable banks), 3-Marginal (40-60% stable banks), 4-Poor (20-40% stable banks), 5-Severe (0-20% stable banks, highly eroded or unvegetated banks)	2 - Suboptimal	2 - Suboptimal
17.	Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank: Rating: 1-Optimal (60-100% heavy vegetative cover), 2-Suboptimal (30-60% mixed vegetated coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetated coverage, etc.)	2 - Suboptimal	2 - Suboptimal
18.	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities/depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, submerged aquatic vegetation. Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)	4 - Poor	4 - Poor
19.	Channel Alterations: Examples: Straightened channel, non-MVP stream crossings, non-native riprap/rock along banks, concrete/gabions/concrete block, manmade embankments, constrictions w/in channel, livestock or agricultural impacts. Rating: 1-Negligible (unaltered/natural stream), 2-Minor (20-40% of resource disrupted by channel alterations), 3-Moderate (40-80% of resource disrupted), 4-Severe (>80% of resource disrupted)	1 - Negligible	1 - Negligible

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Comments/Remarks

EI on-site is Chris Seymour.

9/26/2023- Pre-con meeting and pre-con auditor assessment completed. - S. Frost

9/27/2023- Rain out. No work in the resource. - S. Frost

9/28/2023- Top soiling through 50 ft buffer area and drainage feature, dam, pump, and energy dissipater installed. 50 ft buffer topsoil segregation in an upland area. 10 ft buffer and stream bed material segregated. Trenching and hammering through 10 ft buffer.

9/29/2023- Trenched through 50 ft and 10ft buffer. Dewatering of trench. Prepping pipe to be lowered into trench. - S. Frost

9/30/2023- Installed sandbags for pipe padding. Worked on re-engineering stream section of the pipe. -S. Frost

10/1/2023- Cutting and re welding last section of pipe. - S. Frost

10/2/2023- Still cutting and welding on last section of pipe. Prepping to lower re-engineered pipe into trench. -S. Frost

10/3/2023- Coating and jeep testing of the re-engineered section of pipe. Final section of pipe lowered into trench. First weld completed. - S. Frost

10/4/2023- X-ray of first weld. Coated and jeeped first weld. Second weld completed and X-ray. X-ray machine failed and will continue once fixed. Prepping for backfill. - S. Frost

10/5/2023- X-ray machine repaired and QC process for welds was completed. Trench breaker installation and backfill started. Zinc ribbon installation into trench through trench breakers. -S. Frost


10/6/2023- Trench breakers completed and backfill started. Restoration completed. Post con assessment to be completed 10/7/23. - S. Frost

10/7/2023- Post con assessment completed. - S. Frost

10/9/2023- Post con photos retaken due to poor quality. - S. Frost

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

In accordance with the Mountain Valley Pipeline Consent Decree, Case No. CL18006874-00, (Issued 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>	Summer Frost <hr/> <i>Print Name</i>	 <hr/> <i>Signature</i>	10/10/2023 <hr/> <i>Date</i>
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Required Photos

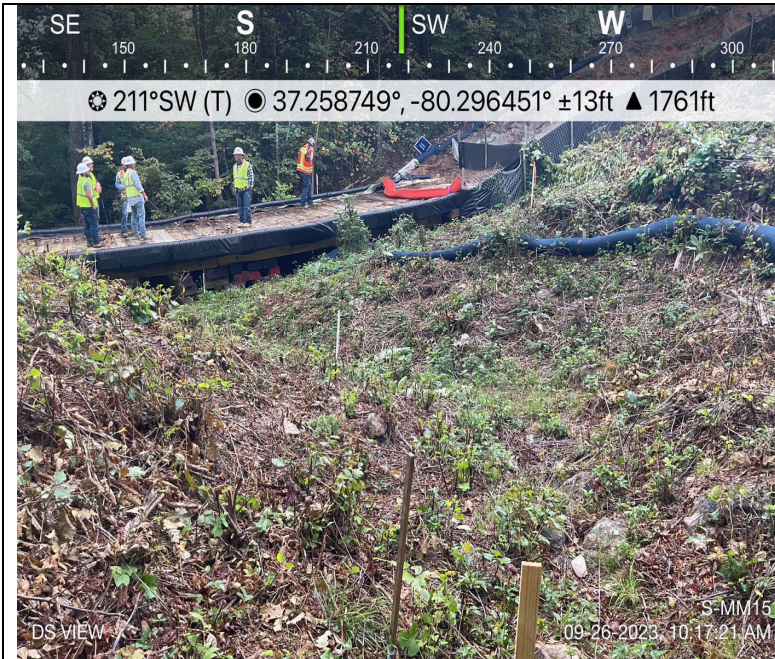


Photo Description: Downstream view of permitted impact area during pre-construction assessment.



Photo Description: Conditions of the downstream area outside the ROW during pre-construction assessment.



Photo Description: Downstream view of permitted impact area during post-construction assessment.



Photo Description: Conditions of the downstream area outside the ROW during post-construction assessment.

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Optional Additional Photos

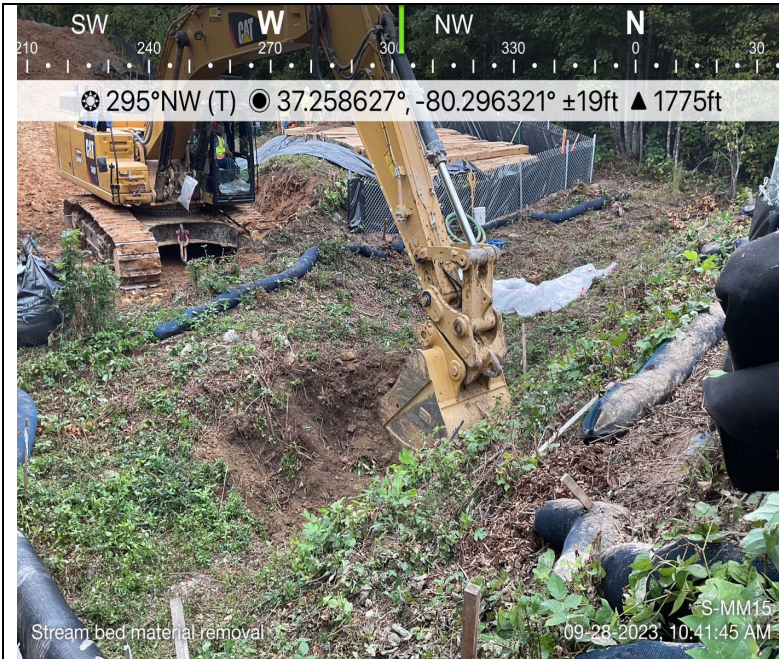


Photo Description: Stream bed topsoil removal.



Photo Description: Segregated topsoil piles.



Photo Description: Dewatering sled.



Photo Description: Final grade survey shots.