

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-CC3	Crossing Start Date: 11/25/2023	Crossing Completion Date: 11/27/2023
Milepost: 295.3	Pre-Con Assessment Date: 11/12/2023	Post-Con Assessment Date: 11/28/2023
Station: 15599+81	Stream Classification: Ephemeral (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 8
County: Pittsylvania	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>	Mud/Silt/Clay	Mud/Silt/Clay
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.)	1 - Optimal	1 - Optimal
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	2 - Suboptimal
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

9-07-23: The timber mat bridge was replaced at the time of the inspection. -Cvaneekhout

11-11-23: The pre-construction assessment was conducted. The Precision Pipeline foreman is B. Metner, and the MVP EI is R. Mathews. The buffer zones have been established and the crossing method will be an open cut. Construction is anticipated to commence on Wednesday, 11-22. -K. DOUGLAS

11-13-23: No construction activity. -T. Turner Jr

11-14-23: No construction activity. -T. Turner Jr

11-15-23: No construction activity. -T. Turner Jr

11/18-24/23: No activity near the resource. -T. Turner Jr


11-25-23: Excavation occurred within the 10-foot buffer. The stream is now active as an open cut (OC). The crew will utilize a flume crossing method. No time of year restrictions or fish relocation was necessary for the site. The topsoil has been excavated and the energy dissipation system was installed. Pipe tie ins and welds are also being conducted. -T. Turner Jr

11-26-23: A dam and pump around was utilized in addition to the flume. The dewatering structure and energy dissipator was utilized during active welding. -T. Turner Jr

11-27-23: Welding continued. The pipe was x-rayed, jeeped, and backfilled. -T. Turner Jr

11-28-23: Restoration began on the stream banks. The top 12-inches of topsoil on the side of the stream bed was also restored. Straw matting was installed and seed was applied. Filter socks were installed to mark the 10- and 50-foot buffers. Straw mulch was applied to the buffers, and the streambanks were restored with seed and straw matting. Additionally, the restoration crew removed the upstream and downstream sandbag dams, the dam and pump, the energy dissipator, and the flume. The stream was restored to the pre-construction contours. No impacts to biological conditions or unauthorized discharges were observed during the crossing activities -T. Turner Jr

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>	<u>Terrence N Turner Jr.</u> <i>Print Name</i>	 <i>Signature</i>	<u>11/29/2023</u> <i>Date</i>
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Required Photos



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

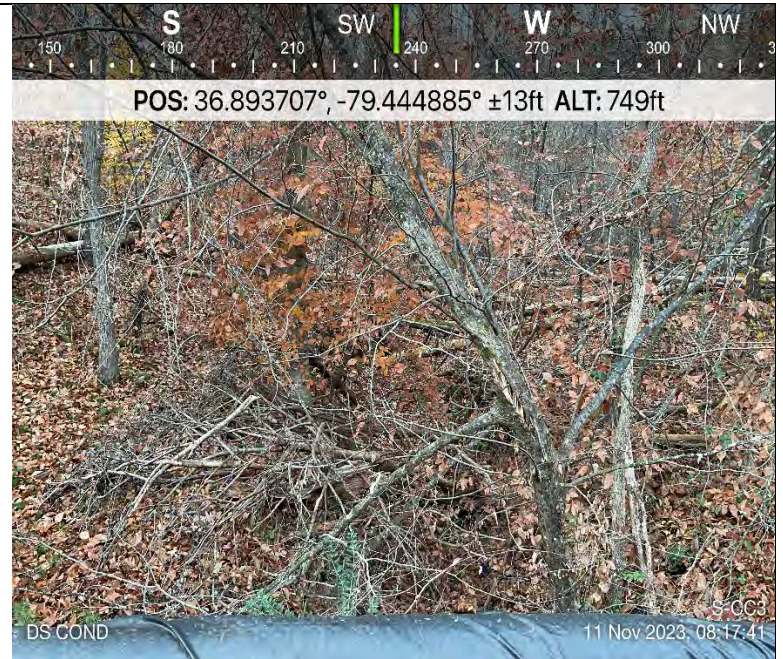


Photo Description: Conditions of the downstream area outside the ROW during pre-construction assessment.



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: An overview of the dewatering structure.



Photo Description: A flume and energy dissipator installed within the resource.



Photo Description: Topsoiling and Trench Excavation

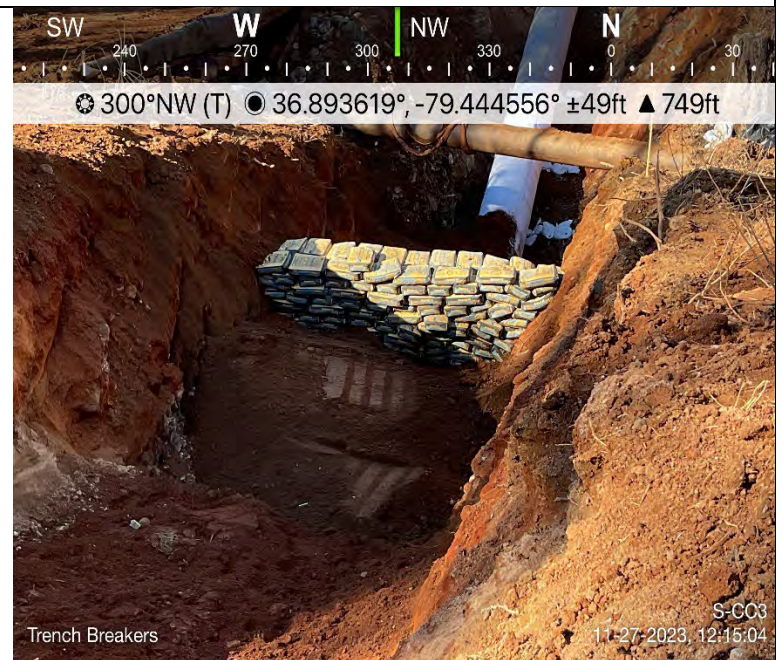


Photo Description: Trench Breakers installed within the trench.