

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-B8	<b>Crossing Start Date:</b> 10/23/2023	<b>Crossing Completion Date:</b> 10/28/2023
<b>Milepost:</b> 297.3	<b>Pre-Con Assessment Date:</b> 10/16/2023	<b>Post-Con Assessment Date:</b> 10/28/2023
<b>Station:</b> 15707+94	<b>Stream Classification:</b> Intermittent (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 4
<b>County:</b> Pittsylvania	<b>303(d) Impairment Listing:</b> Not Impaired	<b>Riffle:Pool Complexes Present?</b> 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.	<b>Predominant Substrate Type (select one):</b> <i>Bedrock, Boulder (&gt;10"), Cobble (2-10"), Gravel (0.1-2"), Sand (&lt;0.1"), Mud/Silt/Clay</i>	Cobble (2-10")	Cobble (2-10")
16.	<b>Channel Conditions:</b> <b>Rating:</b> 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)	1 - Optimal	1 - Optimal
17.	<b>Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank:</b> <b>Rating:</b> 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.	<b>Instream Habitat Conditions:</b> <b>Examples:</b> 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. <b>Rating:</b> 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)	1 - Optimal	1 - Optimal
19.	<b>Channel Alterations:</b> <b>Examples:</b> 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. <b>Rating:</b> 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**

10/16/2023: Pre-construction meeting. The Precision foreman is Brandon Methner, and the MVP EI is Randy Mathews. -J. Greene

10/17/2023: No crossing activities. The site is in good condition. -J. Greene

10/19/2023: No crossing activities. Construction is anticipated to begin in a couple of days. The site is in good condition. -J. Greene

10/20/2023: No crossing activities, and the resource remains in good condition. -J. Greene

10/21/2023: Construction has begun. The existing pipe was excavated and welded to the toe in pipe. -K. Bryant

10/23/2023: The stream bed was excavated, and the substrate was separated using geo-textile. Excavation of the trench determined rock was present. The rock was hammered to reach the correct trench depth of the ditch. -K. Bryant

10/24/2023: Continued rock hammering activities and dewatering of the bell hole. The bell hole was backfilled, and a flume was installed. -K. Bryant

10/25/2023: Blasting was used in the trench to remove the remaining rocks. -K. Bryant


10/26/2023: Excavation of the trench continued. -K. Bryant

10/27/2023: The pipe was lowered into the trench and welded to tie in the pipe. -K. Bryant

10/28/2023: The trench breaker was installed, and the trench was back filled. Soils were restored in the proper order, and stream substrate was returned to the resource area. Filter sock was installed and seed mixes and matting were applied. The stream bed and banks were restored and flow returned to the channel. -K. Bryant

No impact to biological conditions or unauthorized discharge, were 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>	<b>Kwame Bryant</b> <i>Print Name</i>	 <i>Signature</i>	<b>10/29/2023</b> <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

### North West Elevation

117°SE (T) 36°52.681', -79°25.078' ±13ft ▲ 776ft



Dam sandbags

S-B8  
10-23-2023 1:48:35 PM

**Photo Description:** The dam constructed with sandbags to stem stream flow.



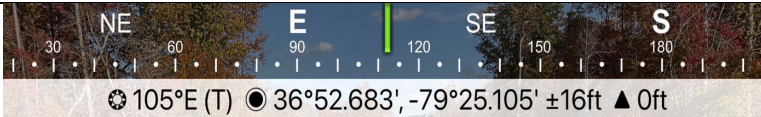
84°E (T) 36°52.674', -79°25.082' ±13ft ▲ 782ft



Excavation of ditch

S-B8  
10-26-2023 3:56:06 PM

**Photo Description:** A flume was used to allow continuous flow of the resource overnight.



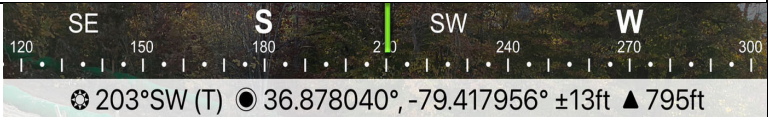
105°E (T) 36°52.683', -79°25.105' ±16ft ▲ 0ft



Pipe lowered in

S-B8  
10-27-2023 3:47:55 PM

**Photo Description:** Overview of pipe being lowered into trench.



203°SW (T) 36.878040°, -79.417956° ±13ft ▲ 795ft



DS View

S-B8  
10-28-2023 17:29:20

**Photo Description:** Restoration of the stream banks with erosion control matting.