

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-B9	<b>Crossing Start Date:</b> 10/30/2023	<b>Crossing Completion Date:</b> 11/01/2023
<b>Milepost:</b> 297.4	<b>Pre-Con Assessment Date:</b> 10/16/2023	<b>Post-Con Assessment Date:</b> 11/01/2023
<b>Station:</b> 15712+41	<b>Stream Classification:</b> Perennial (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 7
<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>Yes</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	
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>	Boulder (>10")	Boulder (>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: A pre-construction meeting and auditor assessment was conducted. The MVP EI is Randy Mathews, and the Precision foreman is Brandon Methner. -K. Bryant

10/17/2023: The crossing has not started. Site conditions are good. - K. Bryant

10/18/2023: No work activity within the resource.

10/19/2023: The crossing has not started and is not anticipated to begin for several days. The site and E&S controls are in good condition. -K. Bryant

10/20-25/2023: No work activity within the resource.

10/26/2023: The topsoil was excavated from the upland areas and stabilized. Drilling and testing for rock occurred in the upland areas. Rock was encountered and blasting activity occurred. -K. Bryant

10/27-29/2023: No work activity within the resource. Pipe preparation in upland areas to reduce time that resource is dammed & pumped. -T. Turner Jr.


10/30/2023: The fish relocation crew was on site and the relocation was conducted. Upon completion of fish relocation, the bentonite dams with impervious liner were installed in the resource, topsoil and substrate were removed/stockpiled, then drilling & blasting was conducted in the resource area. -T. Turner Jr.

10/31/2023: Trench excavation is in progress. The stream is pumped around into an opened filter bag for energy dissipation. Fuel containment and a backup pump are present on site. The topsoil and substrate remain stockpiled separately from subsoil. -T. Turner Jr.

11/1/2023: The timber mat bridge was repaired, and the resource crossing was completed. The stream substrate was returned to the resource and the topsoil restored to the banks and buffer zone. Erosion control matting was installed, and seed and straw mulch was applied. The stream flow was dry throughout the crossing. The post-construction auditor assessment was completed. -T. Turner Jr.

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

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>Terrence Turner Jr</b> <i>Print Name</i>	 <i>Signature</i>	<b>11/01/2023</b> <i>Date</i>
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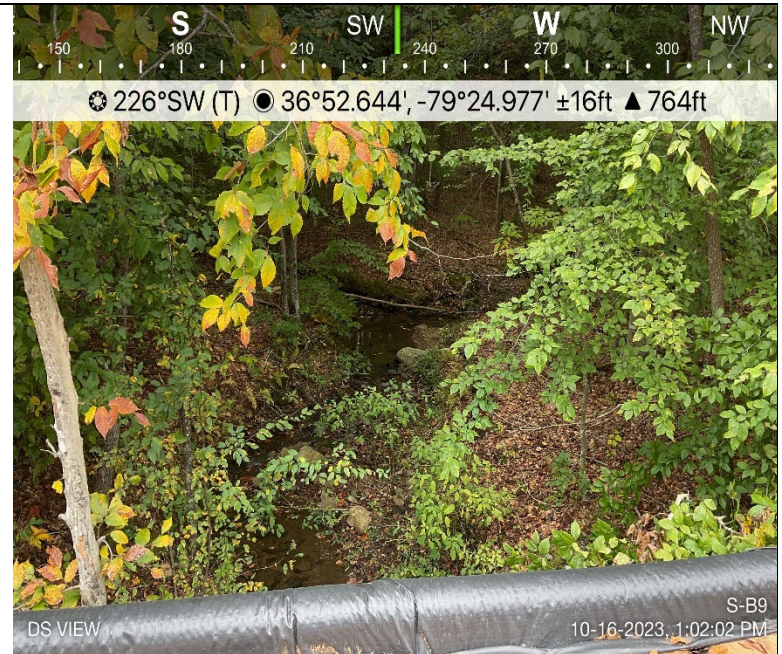
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## Required Photos



**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.

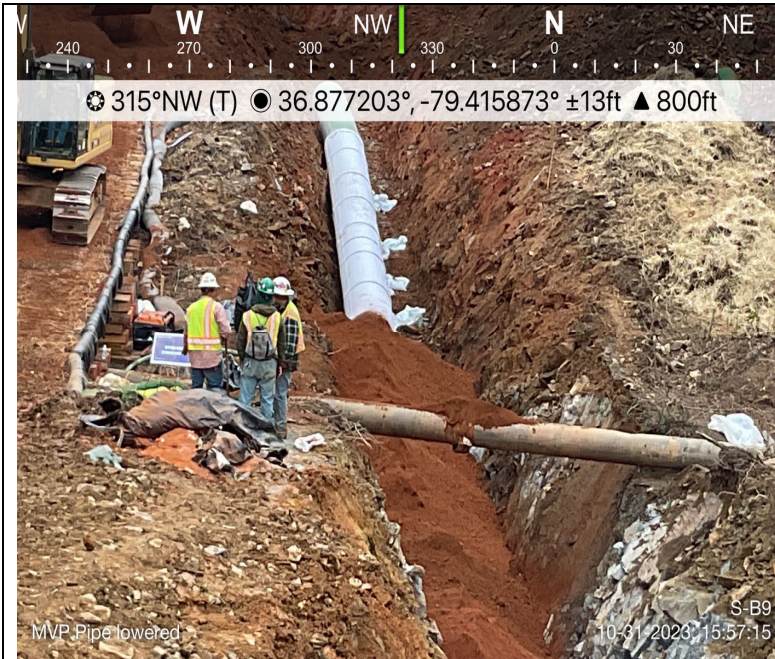


**Photo Description:** Conditions of the downstream area outside the ROW during post-construction assessment.

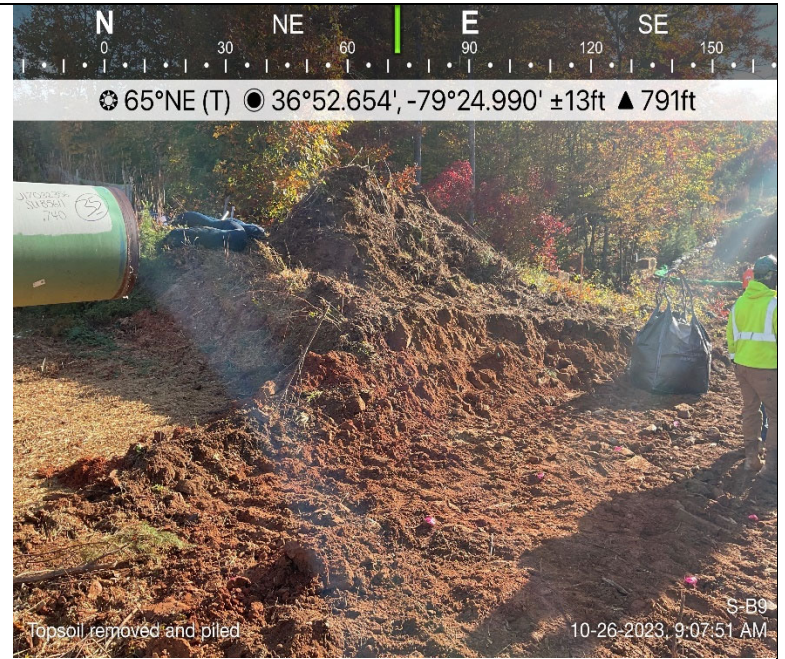
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## Optional Additional Photos



**Photo Description:** Padding and backfilling of the trench.



**Photo Description:** Topsoil that has been stored separately. Straw mulch was applied to the stockpile.



**Photo Description:** An overview of the dewatering structure.



**Photo Description:** The energy dissipater for pump around operation.