

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-CC10	Crossing Start Date: 11/16/2023	Crossing Completion Date: 11/24/2023
Milepost: 294.6	Pre-Con Assessment Date: 11/04/2023	Post-Con Assessment Date: 11/25/2023
Station: 15563+59	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 9
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
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)	1 - Optimal	1 - Optimal
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)	3 - Marginal	3 - Marginal
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

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Comments/Remarks

11-04-2023: The pre-construction meeting was held and auditor assessment completed. The Precision Pipeline foreman is D. Denton and the MVP EI is J. Gresham. The buffer zones were established. The crossing method will be an open cut. The work is anticipated to commence on Tuesday, 11-07. - K. Douglas

11-06-2023: The blasting crew from Hoover was onsite for a test drill. - K. Douglas

11-07-2023 through 11-15-2023: No construction activities occurred within the resource.

11-16-2023: The dam and pump set up for construction activities in the resource. Stream substrate and topsoil stripped and stockpiled separately. Blasting crew was onsite and blasting activities commenced in the stream. - G. Aceves

11-17-2023: The crew began excavating the trench. An industrial jack hammer was brought to the site to break apart rock. - G. Aceves

11-18-2023: The excavation of the trench for tie-in was completed. The tie-in pipe was lined up. The loose end of the GAS was welded. The CIS tie-in couldn't be lined up. A piece of the loose end pipe was cut out of the CIS. The GAS weld was QA/QCed, blasted, coated, and jeep tested. The crew began backfilling the GAS. - G. Aceves

11-19-2023: Continued backfilling the GAS. The stream substrate and stream bank were restored with the appropriate topsoil. The survey crews were onsite to assist with the restoration of the stream to pre-construction contours. The environmental crew seeded the stream bank with riparian seed and installed erosion control blankets. The CIS pipe tie-in is needed before trench breakers can be installed. - G. Aceves

11-20-2023: The last connection has been tied in and welding began. The weld was completed, blasted, and coated. The second weld was x-rayed and coated. The crew began padding and backfilling the trench. One trench breaker was installed. - T. Snideman

11-21-2023: Rained out, no construction activities. - T. Snideman

11-22-2023: Due to muddy conditions, the crew is not working near resource. - T. Snideman

11-23-2023: No active construction onsite today due to the Thanksgiving holiday. - K. Douglas

11-24-2023: The MVP EI has changed from J. Gresham to C. Jackson. The final trench breaker was installed on the CIS, and the stream substrate and bank topsoil were restored and stabilized. The 50-foot buffer was restored, and the crossing is considered complete. - K. Douglas

11-25-2023: The post-construction auditor assessment was conducted. - K. Douglas

No impacts to biological conditions or unauthorized discharges were observed during 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>	Keith Douglas <hr style="width: 80%; margin: 0 auto;"/> <i>Print Name</i>	 <hr style="width: 80%; margin: 0 auto;"/> <i>Signature</i>	11/25/2023 <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
-----------------------------------	---	--	--

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3

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.

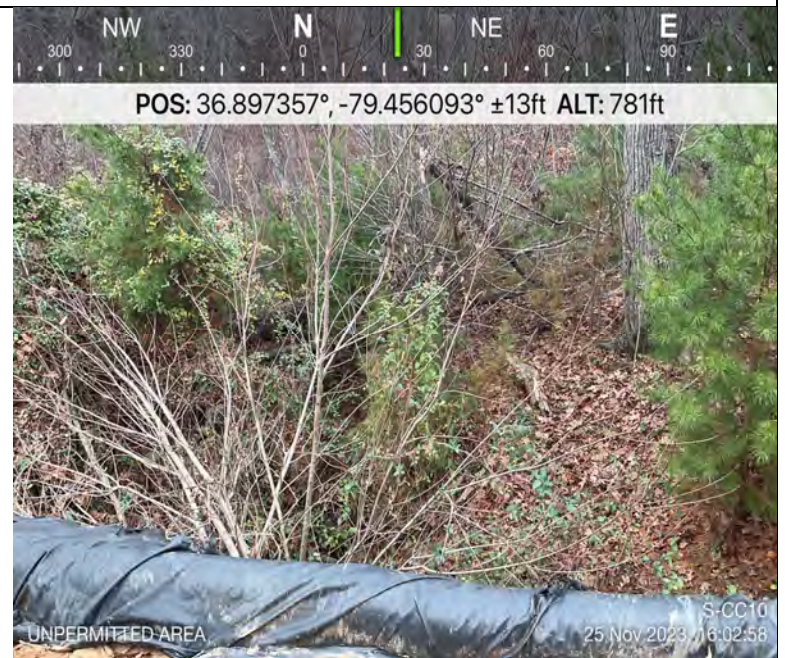


Photo Description: Conditions of the downstream area outside the ROW during post-construction assessment.

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3

Optional Additional Photos



Photo Description: The dam and pump installed and functioning.



Photo Description: An overview of the dewatering structure.



Photo Description: The CIS trench breaker after installation.



Photo Description: Restoration of the 50-foot buffer on the CIS.