

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-C36	Crossing Start Date: 09/13/2023	Crossing Completion Date: 10/02/2023
Milepost: 229.4	Pre-Con Assessment Date: 09/11/2023	Post-Con Assessment Date: 10/02/2023
Station: 12122+00	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 3
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>	Mud/Silt/Clay	Mud/Silt/Clay
16.	Channel Conditions: Rating: 1-Optimal (80-100% stable banks), 2-Sub-optimal (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)	3 - Marginal	3 - Marginal
17.	Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank: Rating: 1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (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

El on-site is Dylan Hooper.

9/11/23- pre con meeting and auditor assessment. This crossing is in conjunction with wetlands W-C12, W-C11, & W-C12-PEM. -S. Frost

9/13/2023 through 9/14/2023- job idle/prepping. -B. Fantauzzi

9/15/2023 Attempted to trench up to resource. Excess water. Not prepped for pumping. Work stopped. B. Fantauzzi

9/18/2023 Idle worksite due to excess water in resource area. Stripping topsoil scheduled for 9-20-2023. -B. Fantauzzi

9/19/2023 Trench box installed for trench stability/safety. -B. Fantauzzi

9/20/2023- Removed and documented topsoil and stream removal. Soils segregated and stabilized. B. Fantauzzi

9/21/2023- Trenching through wetland and stream. Flume added for secondary protection along with pumping operation. Dewatering structure expanded. -S. Frost

9/22/2023- Trenching completed. Pipe padding installed. Pipe lowered into trench. Welding completed. - S. Frost

9/23/2023- Rain out. No work in the resources. - S. Frost

9/24/2023- X-ray on GAS. Welding started on CIS. - S. Frost

9/25/2023- Weld completed on CIS. X-ray, coated, jeep tested. -S. Frost

9/26/2023- Prepping for trench breaker installation. Hauled away equipment to make room in the working area. -S. Frost

9/27/2023- Rain out. No work in the resources. Crossing methods maintained. - S. Frost

9/28/2023- Trench breakers installed and partial backfill of sub soil. - S. Frost

9/29/2023- Subsoil backfill completed. Timber mats and geotech used for soil segregation removed from wetlands. - S. Frost

10/1/2023- Stream and wetlands restoration started. Survey crew shot final grade. Topsoil replaced, stream matting applied and staked with 6" pins. Seeding to be completed 10/2/23. - S. Frost

10/2/2023- Clean up of site. Seeding completed for wetlands and stream. Post Con assessment completed. - S. Frost

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 style="width: 80%; margin: 0 auto;"/> <i>Print Name</i>	 <hr style="width: 80%; margin: 0 auto;"/> <i>Signature</i>	10/02/2023 <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
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Required Photos



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

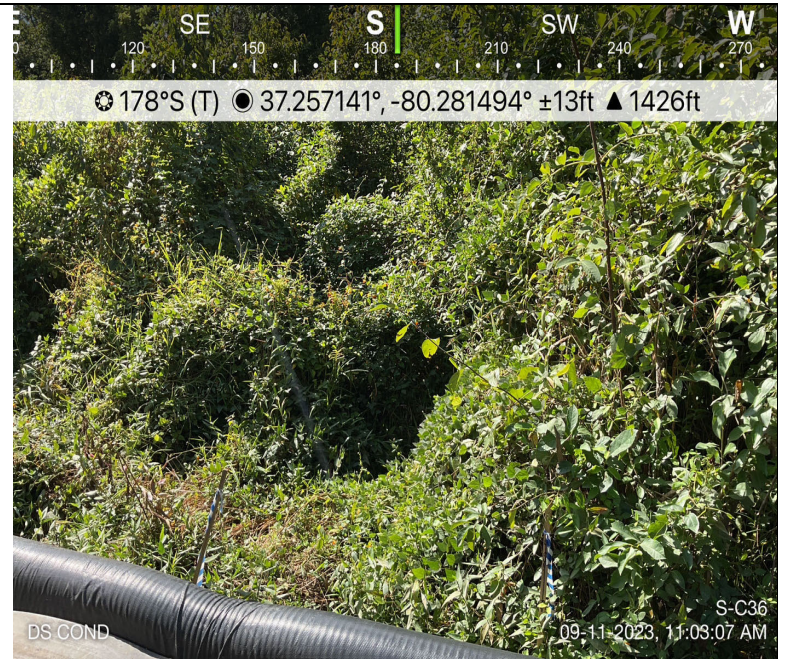


Photo Description: Conditions of the downstream area outside the ROW during pre-construction assessment.



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 material segregation and stabilization.



Photo Description: Downstream dam and energy dissipater.



Photo Description: Survey staked stream for restoration.



Photo Description: Stream seed tag for restoration and stabilization.