

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-A36	<b>Crossing Start Date:</b> 10/03/2023	<b>Crossing Completion Date:</b> 10/05/2023
<b>Milepost:</b> 271.4	<b>Pre-Con Assessment Date:</b> 09/29/2023	<b>Post-Con Assessment Date:</b> 10/05/2023
<b>Station:</b> 14338+58	<b>Stream Classification:</b> Ephemeral (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 4
<b>County:</b> Franklin	<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?		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>	Mud/Silt/Clay	Mud/Silt/Clay
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)	3 - Marginal	2 - Suboptimal
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.)	4 - Poor	3 - Marginal
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)	4 - Poor	3 - Marginal
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)	2 - Minor	1 - Negligible

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**Comments/Remarks**

9-29-2023: Pre-construction meeting and auditor assessment. Glen Morrow is MVP EI. PPL Foreman is Clayton "Brian" Dennis. This is an open cut.

9-30-2023: No active work in the resource.

10-2-2023: Welding in upland area. Crew noted they will start the dry crossing tomorrow. EI does not like where they marked the top of bank. It's going to be a "flume crossing" but they're just having the flume and sandbags handy (not installed the whole time) in case the stream suddenly has water then they will install it. -A. Thorpe

10-3-2023: Stripped buffer zone, segregated and covered/stabilized soils, trenched in the resource area. Dewatering structure installed, if needed. Flume and pumps on hand, if needed. Completed trenching, padded trench, lowered pipe, completed welding on both ends. Installed flume and water bars for overnight water conveyance. -A. Thorpe

10-4-2023: QA/QC, installed CIS trench breaker, coated. Began back filling. GAS trench breaker still needs one more layer. -A. Thorpe

10-5-2023: Finished GAS trench breaker and back filled. Graded banks and surveyed as-built conditions. Replaced topsoil and native stream substrate to the restored stream and applied riparian seed mix and curlex. Installed CFS and super silt fence. Completed post con auditor assessment. -A. Thorpe

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>Alessandra Thorpe</b> <i>Print Name</i>	 <i>Signature</i>	<b>10/05/2023</b> <i>Date</i>
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## Required Photos



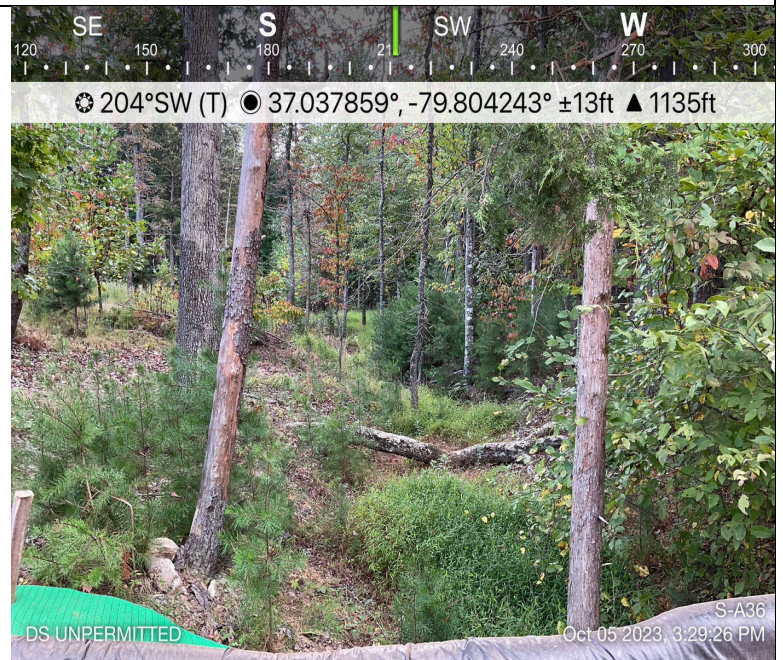
**Photo Description:** Downstream view of permitted impact area during pre-construction assessment. Typo in photo caption. Should read "DS VIEW", not "US VIEW".



**Photo Description:** Conditions of the downstream area outside the ROW during pre-construction assessment. Typo in photo caption. Should read "DS COND", not "US COND".



**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:** Dewatering structure



**Photo Description:** First and last 6 inches of stream substrate separated on Geotech



**Photo Description:** 50/50 Riparian and rye seed mix used



**Photo Description:** Flume installed