

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



|                          |   |   |
|--------------------------|---|---|
| <b>Stream ID:</b> S-KL39 | <b>Crossing Start Date:</b> 03/15/2024  | <b>Crossing Completion Date:</b> 03/18/2024 |
| <b>Milepost:</b> 265.6   | <b>Pre-Con Assessment Date:</b> 03/14/2024                                      | <b>Post-Con Assessment Date:</b> 03/20/2024 |
| <b>Station:</b> 14038+69 | <b>Stream Classification:</b> Perennial<br>(Perennial, Intermittent, Ephemeral) | <b>Bankfull Width (ft.):</b> 6.5            |
| <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?<br>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><br>Dam & Pump, Flume, Cofferdam, Conventional Bore, Horizontal Directional Drill (HDD) Bore?    | None |     |    |
| 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><br><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><br><b>Rating:</b> 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)  | 4 - Poor       | 2 - Suboptimal |
| 17.    | <b>Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank:</b><br><b>Rating:</b> 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 | 1 - Optimal    |
| 18.    | <b>Instream Habitat Conditions:</b><br><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.<br><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       | 4 - Poor       |
| 19.    | <b>Channel Alterations:</b><br><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.<br><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)  | 3 - Moderate   | 2 - Minor      |

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**Comments/Remarks**

03-14-2024: Auditor pre-construction assessment completed. MVP EI is Ben Farmer and PPL foreman is William Martin. The left bank of the resource is eroding in two separate areas and will be addressed by regrading and restabilizing the bank to a stable angle of repose. -D. Fraise

03-15-2024: Crews removed topsoil and stockpiled on subsoil with no fabric underlayment, adjacent to resource. No approved crossing method installed for in-stream work. Contractor installed bridge over stream. Removed topsoil from left bank and stockpiled adjacent to resource. Laid back bank in two separate areas to 3 to 1 slope as a stable angle of repose. -D. Fraise

03-16-2024: Anomaly dig completed. Crews applied seed to left bank and installed erosion matting on left bank. ECM was keyed in 6-inches. -D. Fraise


03-18-2024: Laid back a section of the right bank to a 3 to 1 slope. Bank was seeded and erosion matting installed on the right bank. Bridge was removed bridge from across the resource. Crews placed topsoil back on left bank, seeded and stabilized to complete the in-stream activity. -D. Fraise

3-20-2024: Post-construction auditor assessment completed. -D. Fraise

No impact to biological conditions were observed.

Item #14: Unauthorized discharge of sediment was observed during the work activities due in-stream work being performed without an approved crossing method installed.

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>Darrell Fraise</b><br><i>Print Name</i> | <br><i>Signature</i> | <b>03/21/2024</b><br><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:** Timber mat bridge installed across resource for anomaly dig and bank erosion repairs.



**Photo Description:** Bank stabilization work completed within the resource without an approved crossing method installed. Sediment from bank repairs flowed into stream and off-LOD during repair activities.



**Photo Description:** Denuded banks exposed to stream flow without an approved crossing method installed.



**Photo Description:** Topsoil stockpiled on subsoil without underlayment, adjacent to resource without sediment controls installed.