Wetland

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Stream ID: S-C14	Crossing Start Date: 10/09/2023	Crossing Completion Date: 10/13/2023	
Milepost: 261.8	Pre-Con Assessment Date: 10/06/2023	Post-Con Assessment Date: 10/13/2023	
<b>Station:</b> 13823+04	Stream Classification: Perennial (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 50	
County: Franklin	303(d) Impairment Listing: 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)? N/A Fish Relocation? Yes Mussel Relocation? N/A		Х	
2.	Is this resource designated a wild or stockable trout stream?			Х
3.	Which crossing methods were utilized during the stream crossing? (Select one or more)  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?		Χ	
5.	Was excess material not needed for backfill removed and disposed of in an upland area?			
6.	Was the top 12-inches of backfill made with clean native stream substrate?		Х	
7.	Was the pre-construction survey data provided and utilized during restoration in attempt to re-establish pre-construction contours?		Χ	
8.	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?			Х
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?		Х	
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?		Х	
11.	Was the time of disturbance minimized by conducting resource work continuously to completion?		Х	
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?		Х	
13.	Are bareroot saplings required and/or scheduled to be planted for the dormant season $(10/1 - 4/30)$ ?		Х	
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.		_	Х

Item #	Biological Conditions	Pre-Con	Post-Con
15.	Predominant Substrate Type (select one):  Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay	Gravel (0.1-2")	Gravel (0.1-2")
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.)	3 - Marginal	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)	1 - Optimal	1 - Optimal
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	2 - Minor

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#### **Comments/Remarks**

10-06-2023: Pre-con meeting to place foreman Scooter, MVP EI David Johnston, discussed on crossing method which will be an open cut, discussed soil and water management. -D. Fraise 10-09-2023: Fish relocation took place, topsoil removed on both banks and stockpiled in 50 foot buffer zone, blasting occurred within stream impact area, slow trenching post-blasting due to large boulder that encompasses most of trench area within stream. -D. Fraise 10-10-2023: Continued excavation of rock and subsoil, laid pipe in trench. -D. Fraise 10-11-2023: Survey team on site for reconstruction, back fill of subsoil began, topsoil and streambed contours established, banks restored and stabilized with seed and matting. Dam and pump removed to restore stream flow. Right trench breaker placed. -D. Fraise 10-12-2023: Left trench breaker installed. -D. Fraise 10-13-2023: Backfilled left 50-foot buffer, super silt fence and mulched replaced at 10 & 50 ft buffer. -D. Fraise No impact to biological conditions or unauthorized discharge, were observed during the 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.

This report was written by	Darrell Fraise	Davil F	10/13/2023	
	Print Name	Signature	Date	

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**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**

