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Stream ID: S-0014		Crossing Start Date: 10/23/2023	Crossing Completion Date: 10/28/2023		
Milepost: 216.6		Pre-Con Assessment Date: 10/16/2023	Post-Con Assessment Date: 10/30/2023		
Station: 11448+93 County: Giles		Stream Classification: Perennial (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 4		
		303(d) Impairment Listing: Not Impaired Riffle:Pool Complexe		es Present? No	
ltem #		Resource Crossing Conditions	N	/A YES	NO
1.	Were all applicable resource spo Time of Year Restrictions (TOYR	ecific crossing conditions satisfied?)? <u>N/A</u> Fish Relocation? <u>Yes</u> Mussel Relo	cation? <u>N/A</u>	x	
2.	Is this resource designated a wild or stockable trout stream?				Х
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?				
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	
_	Was the pre-construction survey data provided and utilized during restoration in attempt to re-establish pre-construction contours?			х	
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	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.)		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)	2 - Suboptimal	2 - Suboptimal
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

10/16/23- Pre-construction meeting held, and the pre-assessment was completed. The resource crossing will not start until S-OO12 and S-OO13 are completed. The bell-hole between OO13 and OO14 will be left open in between tie ins. -A. Breeding

10/23/22- Per Edge, the fish relocation was completed on 10/16/23 with the removal from S-OO13. Dam and pumps installed on 10/23/23. The excavation of topsoil from the buffer zones began. -A. Breeding

10/24/23- The excavation of the topsoil is complete; soils were properly segregated and stabilized. Wetland soil was removed, segregated, and seeded per the plan. The stream substrate was removed and properly segregated. Trenching for ditch began. -A. Breeding

10/25/23- Trenching complete. Some sloughing of the trench wall occurred. Excess material was removed from the trench and there was no impact on biological conditions. Installed the first section of pipe and the first weld was complete. Installed the second section and began the second weld. -A. Burgess

10/26/23- Welding of the pipe continued and backfilling of the trench began. -C. Stanley

10/27/23- Padding and backfill was completed. The crew began final contouring of the site. The stream substrate was restored. -A. Breeding

10/28/23- Final contouring and restoration of the site was complete. The flow was restored to the stream. -A. Burgess

No impact to biological conditions or unauthorized discharge, were observed during the crossing activities.

Item #8- Field modification to 1825/1826 cross section, top of bank 27524, was 0.6 feet above grade due to large rock restored along the stream bank.

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	Allie Breeding	Um Bry	10/30/2023
	Print Name	Signature	Date

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Required Photos



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Optional Additional Photos

