\	Mountain Valley Stream Biological Conditions EA Report												
Project Name H-600 Pipeline			eline	e Spread C AFE 124300131			1	Spread	H-6	H-600 Pipeline Spread C			
Contractor Precision				Report # 256				6					
Enviror	Environmental Auditor Kyle Gillow Date/Time 9/27/2023 2:0							7/2023 2:04	₽M				
Stream ID S-A96/A103			Crossing Start Date 9/27/2023 Crossing Completion D				n Date 10/2	2/2023					
Milepost 80.					Pre-Con Assessment Date 9/26/2023			Post-Con Assessment Date 10/			5/2023		
s	tation	n 4270+42			Bankfull Width (ft.) 5.0		Riffle:Pool Complexes Present?			No			
	State	WV	Stream Classification		Epl	Ephemeral							
С	County Webster				303(d) Impairment Listing No								
Resource Post-Crossing Conditions													
1	Were	all app	licable re	sour	rce specific crossing cond	dition	s sa	atisfied?					N/A
ı	Time o	of Year	Restriction	ons	(TOYR)? N/A Muss	el Re	loc	ation? <u>N</u>	/A_				
2	This question is not applicable in WV.												
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump Flume Cofferdam Conventional Bore Horizontal Directional Drill (HDD) Bore												
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?							Yes					
5	Was excess material not needed for backfill removed and disposed of in an upland area?							N/A					
6	Was the top 12-inches of backfill made with clean native stream substrate?							Yes					
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre- construction contours?						Yes						
8	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?						No						
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?							Yes					
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?							Yes					
11								Yes					
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?							Yes					
13	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 - 4/30)?							N/A					
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.							No					
									Post-Con				
15		minant Mud/Silt		э Тур	pe (select one):Bedrock, Bo	ulder (>10'), Cobble (2-	-10"), Gra	vel (0.1-2"), Sai	nd	Mud/Silt/Cl ay	Mud/Silt/Cl ay
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						1						
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.)						3						

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	Pre-Con	Post-Con				
18	Instream Habitat Conditions: Examples: depths, presence of woody/leafy debris, stable su shade protection, undercut banks, root mats, Var vegetation Rating: 1-Optimal (Habitat conditions procedure), 3-Marginal (Habitat condition of resource)	eddedness, c onditions in	2	3		
19	Channel Alterations: Examples: Straighte along banks, concrete/gabions/concrete block, r agricultural impacts Rating: 1-Negligible (unalte channel alterations), 3-Moderate (40-80% of	vestock or rupted by	1	2		

Additional Notes

- 9/27/23 Due to stream S-A96/A103 being a dry crossing, the flume along with the pump and dam were set up the day prior to the crossing date. The top 12" of soil between the high-water marks was removed and placed in super sacks and stockpiled just upstream. Blasting crew began drilling on going away side of feature while crew began trenching on coming in side of feature.
- 9/28/23 Crew continued digging on the coming in side of feature while the blasting crew dealt with some charging issues that were resolved late in the day. After blasting, trenching on the going away side of the stream began. Dewatering of the trench was required and continues throughout the crossing as needed.
- 9/29/23 Trenching was completed and the ditch was padded with sandbags in preparation for lowering of the pipe. After pipe was lowered in, welding started on the coming in side of the crossing. Due to welding issues, the restoration of the stream was not able to begin.
- 9/30/23 Restoration of S-A96/A103 began with the padding of the pipe beyond both 10' buffer zones and the trench breaker on the coming in side was installed. The top 12" of soil was restored between high water marks and verified by survey to the pre-construction specifications. Due to the lack of time at the end of the day, the environmental crew was not able to complete the 10' buffer zone on the going away side of the crossing but did install standard silt fence on both sides of the feature in case of rain. The dam and flume continue to be in place.
- 10/1/23 No work. Sunday.
- 10/2/23 The going away side 10' buffer was completed, and the environmental crew seeded and installed Curlex on the banks. Super silt fence was re-installed on coming in side of feature and standard silt fence on going away side. Once completed, the pump and flume were removed from feature. The stream continued to not have flow. The trench breaker on the going away side of S-A96/A103 could not be installed at the time that the pump and dam were removed, due to lack of space and the need to maneuver the pipe for the next crossing.
- 10/5/23 The trench breaker on the going away side of S-A96/A103 has been installed.

In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, 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.

	Name	Signature	Company	Date
Ky	yle Gillow	40	SWCA	10/5/2023

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