Mountain Valley Stream Biological Conditions EA Report														
Project Name H-600 Pipeline			eline	e Spread A AFE 124300129			9	Spread	H-6	H-600 Pipeline Spread A				
Contractor Precision								Report #	19	19				
Enviror	Environmental Auditor Samantha Felix Date/Time 8/4/2023 4:42								1/2023 4:42	PM				
Stream ID S-A124				Crossing Start Date 8/4/2023 Crossing Completion					n Date 8/6/	Date 8/6/2023				
Mi	Milepost 5.00				Pre-Con Assessment Date 8/3/2023				Post-Con Assessment Date 8/6/2			2023		
Station		264+00)		Bankfull Width		(ft.)	t.) 12.0 Riffle:		Pool Complexes Present?		No		
State		WV			Stream Classification		n	Intermittent						
С	County Wetzel				303(d) Impairment Listing No									
Resource Post-Crossing Conditions														
1	Were	all app	licable res	sourc	ce specifi	c crossing cond	itions	s sa	tisfied?					N/A
'	Time o	of Year	Restriction	ons (TOYR)?	N/A Musse	l Re	loca	ation? <u>N</u>	<u>'A</u>				
2	This qu	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?							Yes						
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	Was the time of disturbance minimized by conducting resource work continuously to completion?						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								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	Predor (<0.1"),			Тур	e (select o	one):Bedrock, Bou	lder (>10"), Cobble (2-	·10"), Gra	avel (0.1-2"), Sa	ınd	Cobble (2-10")	Cobble (2-10")
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						5							
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.)						4							

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	Pre-Con	Post-Con				
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, Varied combination of water velocities, 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)					
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	nanmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	ivestock or rupted by	1	1

Additional Notes

- 8/3/23 Pre-construction meeting for crossing S-A124. Pre-construction assessment conducted and pictures taken. Channel conditions were given a sub-optimal rating due to preexisting bank erosion -S.Felix
- 8/4/23 Commenced crossing of waterbody after installation of dam and pump, 12" of waterbody substrate was segregated and stockpiled in a designated upland area separate from the other spoil. Trench excavation was completed near the end of the day. -C.Winchester
- 8/5/23 Contractor worked on installing pipe in the trench and making tie-in weld. -S.Felix
- 8/6/23 The trench was backfilled with subsoil. After the subsoil was properly compacted, the 12" of segregated waterbody substrate was placed back into the stream bank to match pre-construction contours. All large rocks removed prior to construction were put back in place using pre construction pictures as a reference guide. -S.Felix

Numbers 16, 17, and 18 were rated "poor", "severe", and "poor" (respectively) due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The S-A124 stream bank and stream bed substrates have been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

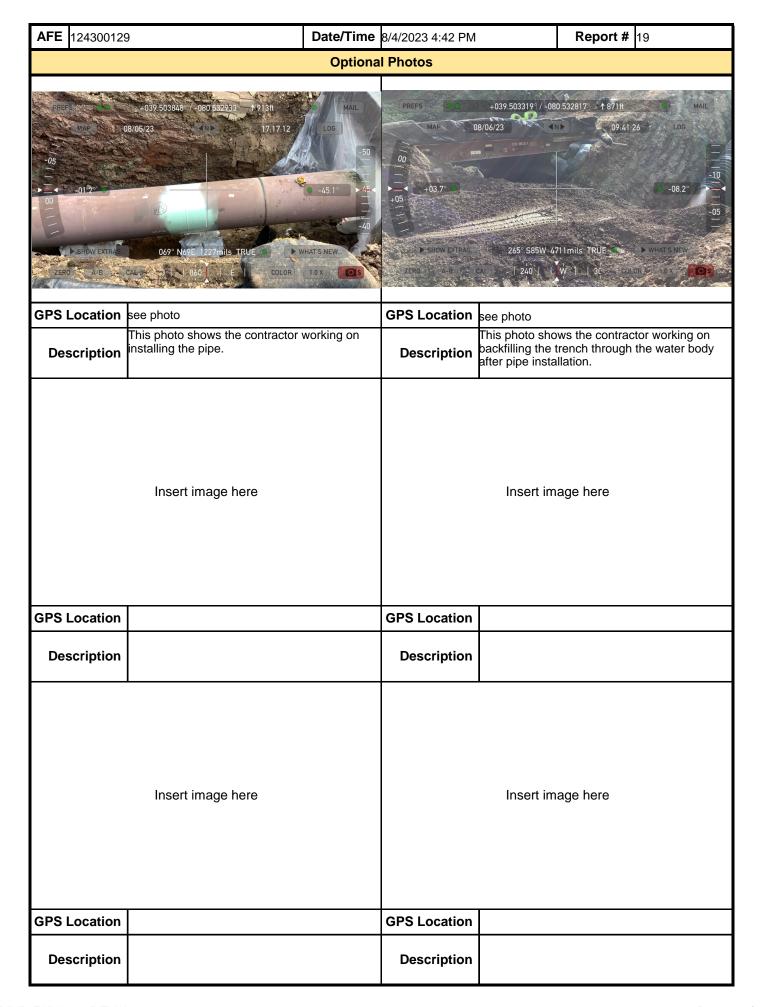
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

Name	Signature	Company	Date
Samantha Felix	futbatek	ERM	8/7/2023

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