Stream Biological Conditions EA Report								
P	roject Name H-600 Pipeline	e Spread A	Spread A AFE 124300129			Spread	H-600 Pipeline	e Spread A
	Contractor Precision					Report #	266	
Enviro	Environmental Auditor Samantha Felix Date/Time 10/4/2023 7:					10/4/2023 7:1	2 AM	
Stre	eam IDS-A11a	Crossing Start Date 10/4/2023 Cros			Cross	sing Comple	9/2023	
Mi	ilepost21.77	Pre-Con Assessment Da	ate 9/30/2023 Post-Con Assess			ment Date 10/	9/2023	
S	Station 1149+23	Bankfull Width (ft.) 1	.) 12.0 Riffle:Pool Complexes Pres		es Present?	No	
	State₩V	Stream Classification	F	Perennial			Į	
C	County Harrison	303(d) Impairment Listi	ng F	ecal, Iron				
		Resource Post-Cro	ossi	ng Conditio	ns			
1	Were all applicable resou	rce specific crossing conditi	ons	satisfied?				N/A
I	Time of Year Restrictions	(TOYR)? <u>N/A</u> Mussel	Relo	ocation? <u>N/</u>	<u>A</u>			
2	This question is not applic	able in WV.						
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump X 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?						See Below	
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	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	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1")					Sand (<0.1")		
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 2 unvegetated banks 2					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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	Biol	ogical Conditions Continued			Pre-Con	Post-Con			
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, ro vegetation Rating: 1-Optimal (Habita 30-50% of resource), 3-Marginal (Ha of resource)	ddedness, c onditions in	1	4					
19	Channel Alterations:Example along banks, concrete/gabions/conc agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	1	1						
		Additional Notes							
10/4/23 - 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. Aquatic organisms were caught and released downstream from construction. Trench excavation was completed near the end of the day. Number 16 was rated a "sub-optimal" rating due to heavily eroded stream banksS.Felix									
10/5/23	10/5/23 - The pipe was placed in the trench and was weldedS.Felix								
10/6/23	3 - The pipe was x-rayed and coat	ted, and then the crew started to fill the te	rench with subsoil.	-S.Felix					
10/7/23 - The trench was backfilled with subsoil. After the subsoil was properly compacted, half of the stream was completed. The 12" of segregated waterbody substrate was placed back into the stream bank to match pre-construction contours S.Felix									
10/8/23	3 - Today was Sunday, so no in-si	tream construction took place. Crew mor	nitored the dam and	l pump.					
10/9/23 - The rest of the 12" of segregated waterbody substrate was placed back into the stream bank to match pre-construction contours. Due to stability concerns, the bank on the east side and west side of the crossing were restored at a shallower angleS.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-A11a 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	Compan	y	Da	ate			
Saman	tha Felix	Centre Jelij	ERM		10/9/	2023			

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		d Photos				
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GPS Location	See Photo		GPS Location	See Photo		
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass	•	l area during pre-
DO DOT	-039 335457 / -080 522385 1 10560 1009/23 11 15 50 01 048: N48E 0853mils TRUE 1, 030 040 000 0000	LOG -22.9° -22.9° 20 HAT 5 NEW 10 X		+039 335601 * / -080 0.09/23 0.00/ NB0E 14 -060 NB0E 14		
GPS Location	See Photo		GPS Location	See Photo		
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream vie construction ass		l area during post-
PREPS ADP DO DO DO DO DO DO DO DO DO DO DO DO DO	099.335569 080.52232 1 1041H 004/03 243° 563W 4320mils TRUE 243° 563W 4320mils TRUE	Hall 103 -16 103 -10 205 HATS NEW 107	HREES MAP +01.5 +05 +05 +05 +05 +05 +05 +05 +05 +05 +0	0/05/23	522854 11067h 16:54 4 40mits TRUE 5 1 14 20	19.8 + 29 19.8 + 29 19.8 + 29 15 19. WHATS NEW 15 15 15 15 15 15 15 15 15 15
GPS Location	See above.		GPS Location	See above.		
Description	In the process of excavating the p	oit.	Description	The pipe was I welded.	owered into the	e trench and

AFE	124300129)	Date/Time	10/4/2023 7:12 AN	M Report # 266			
			Optiona	al Photos				
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GPS I	Location	See above.		GPS Location				
Des	scription	Trench being filled with subsoil.		Description	Adding waterbody substrate.			
GPS I	Location	Insert image here		GPS Location	Insert image here			
	scription			Description				
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GPSI	Location			GPS LOCATION				
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