Stream Biological Conditions EA Report								
Pi	roject Name H-600 Pipeline	Spread A AFE 124300129		9 Spread	H-600 Pipeline	e Spread A		
	Contractor Precision			Report #	282			
Enviror	nmental AuditorSamantha Fel	x		Date/Time	10/9/2023 4:0	0 PM		
Stre	am IDS-A11a Braid 2	Crossing Start Da	te 10/4/2023	Crossing Comple	etion Date 10/	9/2023		
Mi	lepost21.77	Pre-Con Assessment Date 9/30/2023 Post-Con Assessment Date 10				9/2023		
Station 1149+20		Bankfull Width (f			es Present?	No		
State WV		Stream Classification	Intermittent					
C	County Harrison	303(d) Impairment Listi						
		Resource Post-Cro		ons				
4	Were all applicable resour	ce specific crossing condition	•			N/A		
1	Time of Year Restrictions	(TOYR)? <u>N/A</u> Mussel I	Relocation?	/A				
2	This question is not applic	able in WV.						
3		re utilized during the stream cr Cofferdam Convention		ect one or more) zontal Directional Drill	(HDD) Bore			
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?					Yes		
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre- construction contours?					Yes		
8	-	e any field modifications to the stream implemented by project or regulatory personnel to address ntial drainage or bank restoration limitations?						
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?							
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?							
11	Was the time of disturban	ce minimized by conducting	resource work	continuously to com	pletion?	Yes		
12		cheduled to verify as-built co ct Mitigation Framework and				Yes		
13	Are bareroot saplings requ	uired and/or scheduled to be	planted for the	dormant season (1	0/1 - 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		
		Biological Condition				Post-Cor		
15	Predominant Substrate Ty (<0.1"), Mud/Silt/Clay	be (select one): Bedrock, Boulde	r (>10"), Cobble (2-	-10"), Gravel (0.1-2"), Sa	nd Mud/Silt/Cl ay	Mud/Silt/Cl ay		
16	-	J: 1-Optimal (80-100% stable banks I-Poor (20-40% stable banks), 5-Sev			1	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 Co	ntinued		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 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)							
19	along banks, concrete/gabions/conc agricultural impacts Rating: 1-Neg	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)						
	Additional Notes							
stockpi Numbe	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. 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 - 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 sta	rted to fill the trench with sub	soilS.Felix				
	3 - The trench was backfilled with ate was placed back into the strea			12" of segrega	ited waterbo	ody		
10/8/23	3 - Crew monitored the dam and p	oump, no construction acti	vity S.Felix					
10/9/23	3 - The crew installed erosion and	l sediment controls around	S-A11a Braid 2 and remove	d the dam and	pumpS.F	elix		
10/9/23 - The crew installed erosion and sediment controls around S-A11a Braid 2 and removed the dam and pumpS.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 Braid 2 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.								
	s to the resources.	Signature		pany	1	ate		
		_						
Saman	tha Felix	forthe FC	ERM		10/9/	2023		

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		Required Photos					
DO DO DO DO DO DO DO DO DO DO DO DO DO D	+017	019.3954592 000.522367 1.10561 9/20/23 2.0811 7/0 510E 2022mile TRUE	24.0 25 24.0 25 20 20	PRES AAT OC OC O OC O OC O OC O OC O OC O OC O	039.335440 / -080.522 9.30/23 231. S51W 4101 231. S51W 4101 230 24	12.07	
GPS L	ocation	See above.		GPS Location	See above.		
Des	scription	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream view of construction asses		d area during pre-
PRES PRES	+00.7	" Tant Hand a set of the	-06.6 HAT'S NEW 20X		039 335407 / -080 522 0787/23 076 N76E 1351n	1552	
GPS L	ocation	See above.		GPS Location	See above.		
Des	scription	Downstream view of permitted impace post-construction assessment.	ct area during	Description	Downstream view of construction asses		d area during post-
955 00 ¹ 0.1 2EE0	-00.5 SHOW DITHAS	243° S63W 4320mils TRUE 240° 240 W courses	HILL S NEW 103 - 10 103 - 10 205 HILL S NEW 122	PREES MAP +01.5° +05 +05 +05 +05 +05 +05 +05 +05 +05 +05	+039 335409 7 -080 522 0/05/23 0/1 609E -3040m 01 - 150 - 1 5	2854 11067h 16:54- hits TRUE-	AB 1000 1 17.81 + 20 19.81 + 20 15 10 10 10 10 10 10 10 10 10 10
GPS L	ocation	See above.		GPS Location	See above.		
Des	scription	In the process of excavating the p	pit	Description	The pipe was low welded.	vered into th	e trench and

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Optional						
-00 -00 -05 -105		LL 150 1 -1 5 -1 -1 210 POLOR		00 +01 & 3.05 • Show permas	107723	1064ft MAL 18 33.05 Loc -25 -25 -25 -25 -55 -55 -55 -55
GPS I	_ocation	See above.		GPS Location		
Des	cription	Trench being filled with substrate		Description	Adding waterbody subs	strate.
GPS I	_ocation	Insert image here		GPS Location	Insert image her	e
Des	scription			Description		
		Insert image here			Insert image her	e
GPS I	ocation			GPS Location		
Des	scription			Description		