Stream Biological Conditions EA Report									
P	roject Name H-600 Pipel	ne Spread A	AFE 124300129			Spread	H-600 F	Pipeline	e Spread A
	Contractor Precision			-		Report #	306		
Enviro	Environmental Auditor Danielle Payne Date/Time 10/17/2023 8:3-						34 PM		
Stre	eam IDS-к94	Crossing Start Da	ate	10/23/2023	Cross	sing Comple	tion Da	ite 10/	27/2023
Mi	ilepost _{38.18}	Pre-Con Assessment Da	ate	e 10/17/2023 Post-Con Assessment Date 10				ate 10/	27/2023
s	Station 2015+74	Bankfull Width (ft.)	20.0	Riffle:Pool Complexes Present?			No	
	State₩V	Stream Classification		Perennial	<u> </u>				
C	County Lewis	303(d) Impairment Listi	Impairment Listing Fecal, Iron						
	-	Resource Post-Cr			ns				
1	Were all applicable reso	urce specific crossing condit	ions	s satisfied?					See Below
I	Time of Year Restrictior	s (TOYR)? <u>Yes</u> Mussel	Re	location? <u>N</u>	A				
2	This question is not app	icable in WV.							
3	Which crossing methods v Dam & Pump X Flume	vere utilized during the stream c Cofferdam Conventior				or more) virectional Drill	(HDD) E	Bore	
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from Yes							Yes	
5							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?								
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?								
13	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 - 4/30)?						No		
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"), Mud/Silt/Clay					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 2 4 unvegetated banks 4 4 4						4	
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 Cor	ntinued		Pre-Con	Post-Con		
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, rov vegetation Rating: 1-Optimal (Habitat 30-50% of resource), 3-Marginal (Hab of resource)	1	4					
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 3							
		Addition	nal Notes					
Stream	ded notes for question 1: n (S-K94) has a time of year restric source crossing began outside of t		construction betwe	en April 1st to June 30th (Constructior) within		
The cre segreg	10/23/2023 The crew removed the top 12 inches of the stream substrate as well as the stream bank topsoil. Topsoil and stream substrate was segregated from subsoil. A dam and pump was installed so the flow would not be impeded during construction. Dewatering efforts were also in place. The crew began excavation of the trench.							
10/24/2 The cre	2023 ew finished excavation and the pip	pe was placed in the trend	›h.					
10/25/2 The cre	2023 ew began welding and coating of t	the pipe.						
10/26/2 The cre	2023 ew backfilled the trench with subs	oil.						
The top seeded	10/27/2023 Post construction assessment The top 12 inches of clean native stream substrate and stream bank topsoil was restored to S-K94. 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.							
	Conditions 18 and 19 were rated "poor" due to a lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts.							
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	Da	ate		
Daniello	e Payne	DPay	l er	RM	10/27	/2023		

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Actinutive			<image/>				
GPS Loca	ation See above photo.		GPS Location	-			
Descrip	Downstream view of permitted impact pre-construction assessment. Downstream view of the permitted imp during pre-construction assessment.	-		Downstream vie construction ass Downstream view pre-construction	essment. v of unimpacted	d area during pre- area during	
a construction of the second sec	teore true it is a state true it if it is a state true it is it is a sta		Barg & Hime, Erin, delay Zook Position, 1939 16782 Altitude, 11281 (±3740) Datum W05384 Azimuthi Bearing, 133 SAAE Elevation Angle - 13,9 Horizon Angle - 10,5 Zoom, 103 Zoom, 103	5, 1/3.52,01 EOT 1578171 : e 16-40 2 2418mils Trae (±10)			
GPS Loca	ation See above photo.		GPS Location	See above pho	oto.		
Descrip	during post-construction assessment.	-	Description	Downstream vie construction ass Downstream view post-construction	essment. v of unimpacted	d area during post- area during	
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GPS Loca	ation See above photo.		GPS Location				
Descrip	View of trench excavation. otion		Description	View of resourd downstream da		struction and	

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	Optional Photos						
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GPS L		See above photo.		GPS Location			
Des	scription	View of resource as construction	continued.	Description	View of resource as b	ackfilling progressed.	
		Insert image here			Insert image he	ere	
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Des	scription			Description			
		Insert image here			Insert image he	ere	
GPS L	_ocation			GPS Location			
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