Stream Biological Conditions EA Report									rt
Project Name H-600 Pipeline			e Spread A	e Spread A AFE 124300129			Spread	H-600 Pipel	ne Spread A
	Contractor	Precision			•		Report #	239	
Environmental Auditor Devin Jen Date/Time 9/18/2023 11:33 A									1:33 AM
Stre	eam ID S-K75		Crossing Start Da	Crossing Start Date 9/21/2023 Crossing Completion Date 10					
Milepost 31.42		Pre-Con Assessment Da	Pate 9/18/2023 Post-Con Assessment Date			0/26/2023			
S	Station 1658+98		Bankfull Width (	<b>ft.)</b> 3.	3.0 Riffle:Pool Complexes Present?			No	
	State₩V		Stream Classification	In	Intermittent				
C	County Harrison	ו	303(d) Impairment Listi	ng N	I/A				
			Resource Post-Cr	ossir	ng Conditio	ns			
1	Were all appli	icable resol	rce specific crossing conditi	ions	satisfied?				Yes
I	Time of Year	Restrictions	(TOYR)? <u>Yes</u> Mussel	Relo	cation?N/	<u>A_</u>			
2	This question	is not applie	cable in WV.						
3	Which crossing Dam & Pump		ere utilized during the stream c Cofferdam Conventior				or more) irectional 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			backfill made with clean na						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?						S 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?						m <sub>Yes</sub>		
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		
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay						Cl 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						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			

AFE	124300129	Date/Time	9/18/2023 11:3	3 AM	Report # 239				
	Biol	ogical Conditions Cor	ntinued			Pre-Con	Post-Con		
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, ro- vegetation Rating: 1-Optimal (Habitat 30-50% of resource), 3-Marginal (Hal of resource)	ledness, ditions in	3	3					
19	Channel Alterations:Example along banks, concrete/gabions/conc agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	stock or oted by	1	1					
	Additional Notes								
9/16/2023 The pre-construction meeting was held and pre-construction assessment took place. The stream has time of year restrictions from April 1 to June 30D. Jen 9/20/2023									
	ntractor installed the dam and pur	np.							
The co	9/21/2023 The contractor removed the topsoil from the stream and stockpiled it in a designated upland area and began work on sheetpiling installationA. Dunn								
	9/22/2023-10/5/2023 The contractor continued work on installation of the sheet piling and dewatering of groundwater as necessaryA. Dunn, M. Kastan								
	10/6/2023-10/9/2023 The contractor worked on excavating the trench through the stream/wetland complexM. Kastan								
The co	10/10/2023-10/17/2023 The contractor worked on installing the pipe through the stream/wetland complex crossing, including welding, x-ray, and coating. -M. Kastan								
	10/18/2023-10/25/2023 The contractor worked on backfilling the trench and removing sheetpilingM. Kastan								
10/26/2023 The contractor finished replacing the original 12" of segregated stream substrate and graded it to the correct contour using pre-construction survey data. Bank stabilization measures, and erosion and sediment controls were then installed and the dam and pump were removedM. Kastan									
Post construction assessment Conditions 16 and 17 were given a rating of 4 during post-construction assessment due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing efforts. The S-K75 stream banks have been properly restored and stabilized and 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 FrameworkM. Kastan									
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	te		
Devin J	en	X		ERM		10/26	/2023		

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	Required Photos								
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GPS I	ocation	See photo		GPS Location	See photo				
Des	scription	Downstream view of permitted impac pre-construction assessment.	t area during	Description	Downstream view of unimpacted area during pre- construction assessment.				
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GPS I	ocation	See photo		<b>GPS</b> Location	See photo				
Des	scription	Downstream view of permitted impact post-construction assessment.	t area during	Description	Downstream view of unimpacted area during post- construction assessment.				
PREPS	HAP 0 HOURS SHOW EXTRAS A-B	+039 243422 / -080 554045 + 1+581 9/21/23	Mall L06 -25 -201 -205 -15	-05 03-2 00 > SHOW EXTRAS	+039.243569 / -080.553959				
GPS I	ocation	See photo		GPS Location					
Des	scription	This photo shows the topsoil rem stream/wetland complex	oved from the	Description	This photo shows sheetpiling installed in the stream crossing				

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		l Photos	I			
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GPS Location			GPS Location	See photo		
Description	This photo shows additional tops removed from the stream/wetland to being stockpiled in a designate	d complex prior	Description	This photo show welding the pip	ws the contrac e	tor working on
DO- DO -	-039 243837 / -080 554012	MAIL LOG 1 05 202.22 00 00 00 00 00 00 00 00 00	PREPS MAP 11 -05 -00 00 10 -00 10 -00 -00 -00 -00 -00 -00 -00 -00 -00 -	+039.243732* / -080 D/23/23	15.59:	02.8
GPS Location	See photo		GPS Location	See photo		
Description	This photo shows the partially ba in the stream/wetland complex	ckfilled trench	Description	This photo show removing sheet complex	ws the contrac piling from th	tor working on e stream/wetland
PREPS	+039 243534° 1-080 554086° 1186ft 10/26 23 13:11:33 099 - S81E 1760mils TRUE CAL 0 E 120 COLOR	-10 -10 -04 -05 -00 -00		Insert ima	age here	
GPS Location	See photo		GPS Location			
Description	This photo shows the restored str stabilized banks	ream and	Description			