	Mounta	ain /alley	Stream Biol	0	gical Co	ndit	ions EA	Report	:	
P	Project Name H-600 Pipeline		e Spread A	Spread A AFE 124300129)	Spread	H-600 Pipelin	e Spread A	
	Contractor Precision						Report #	276		
Enviro	nmental Auditor	Jake Pokorny					Date/Time	10/3/2023 9:4	0 PM	
Stre	Stream IDS-UU5		Crossing Start Da	Crossing Start Date 10/2/2023 Crossing Col			sing Comple	letion Date 10/7/2023		
Milepost 30.25			Pre-Con Assessment Da	oate 9/27/2023 Post-C			Con Assess	/9/2023		
S	Station 1597+15		Bankfull Width (ft.)	.) 4.0 Riffle:Pool Complexes Prese		es Present?	Yes		
	State WV		Stream Classification		Perennial	rennial				
C	county Harriso	n	303(d) Impairment Listi	ng	No					
	-1		Resource Post-Cre			ns				
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				N/A	
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location?N/	Α				
2	This question	n is not applie	cable in WV.							
3	Which crossin Dam & Pump		ere utilized during the stream concerned to the stream convention conventi convention convention co				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	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?					See Below				
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"), 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 1 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				

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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)	dedness, nditions in	1	4				
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	estock or pted by	1	3				
		Additional Notes						
		nents are steep but stable with adequate	e vegetative cover. N	lo livestoc	k or agricul	ltural		
impacts. Slower water velocity with stable substrate. 10/02/23 - Dam and pump was installed before disturbance in the stream. Topsoil and substrate were removed separately before trenching.								
10/03/2	23 - Trenching inside the LOD, da	m and pump system was maintained and	d stream conditions i	monitored	l.			
10/04/2 backfill		ay, coating, trench breakers installed and	d beginning to backfi	II shifted a	and paddec	d dirt for		
10/05/23 - Continued with shifted and padded dirt backfill in the trench. Trench breakers on both sides of the steam are built with sandbags.								
10/06/2	23 - The stream continued to be b	ackfilled as contours began to be reesta	blished.					
10/07/23 - The contractor backfilled the stream crossing and worked on restoration of the stream, including replacing removed substrate, reseeding, and stabilization of the banks. Pre-crossing civil survey data was used to ensure that as-built conditions met pre-construction conditions to the extent practicable, including bank and channel contours, placement of boulders, and riffle pool structure. Due to the steep angle of the banks prior to the construction, the contractor restored the banks at a shallower angle to facilitate stability and successful restoration. Following satisfactory restoration of the stream bed and bank, the contractor removed the dam and pump and restored flow to the stream.								
The EA conducted the post-construction assessment. Numbers 16, 17, and 18 were rated as "poor", "poor", and "poor" (respectively) due to the lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The S-UU5 stream bank and stream bed substrates have been stabilized (to the extent practicable without applying mulch due to the resource being located in a wetland) and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the MVP 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		Da	ate		
Jake Pokorny		th	ERM		10/13	/2023		

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		d Photos				
	P. 27, 2023 AFI 21 5 31 EDT 2015 SOESP - 18 DD 2015 ED 2010 PL 9 - 18 DD 2015 ED 2015 ED 2		Date & Time: Wed. Sep 27 Position - 4392 250 Kine of Annual Theorem - Armathing September Armathing September Herizon Angelow Herizon Angelow	2023 st 12 15 50 EDT 20 540249 ir e 17 2m 20 440249 ir e 17 2m 20 4421 miles front 20		
GPS Locatio	n See Above.		GPS Location			
Descriptio	Downstream view of permitted impartments pre-construction assessment.	ct area during	Description	Downstream view construction asse		l area during pre-
Gole à Trine Mon O Posicion 4092 2500 Attino 1 Mon Cal Datur Mon Cal Arma Obsarrier Arma Obsarrier Mon Cal Manar Cal Arma Cal Arm	AND AND SIGNATION OF AND		Constant Simma Mon. Oct 09: 2 Ann and 2032005 foot Ann My 1797n 1177 fill Charlen WOS-48 Ann Barnen 12 Foot 10 10 10 10 10 10 10 10 10 10	PP-HD-DU-27-E17 De-Source/Sit Servician		
GPS Locatio	n See Above.		GPS Location	See Above		
Descriptic	Downstream view of permitted impar post-construction assessment.	ct area during	Description	Downstream view construction asse		area during post-
Date & Time Marc D Pesition -1039 25289 Altitude: 10978 1-252 Bartum WCS-844 Astronomotion Barton Angeleration Commission - 100			zami ozi	E 0533mills True (±15)		
GPS Locatio	n See Above.		GPS Location			at dame ()
Descriptio	10/02/23 -Dam and excavation o	it stream.	Description	10/03/23 -Exca pipeline installa	vation to corre tion.	ect depth for

AFE 124300	129	Date/Time	10/3/2023 9:40 PN	/ Report # 276		
	Optional Photos					
Position -039 25255 Attivue 17291 : 25 Datum Wolsskie Azimuth Beating Of Elevation for the Azimuth Beating Of Azimuth Beating O			Date 6. Time: This Oct 05 22 Position: 1039 257966 / 108 Altuare trontile 10 7 for Datum WoSsay. Armath.Bearing Of Seat Elevaton design of the for Oct of the former 103	5005' LE 16 40'		
GPS Locatio			GPS Location			
Descriptio	10/04/23 - Pipeline installed, trer h built and backfilling begun.	ich breakers	Description	10/05/23 - backfilling completed in stream area and trench breakers completed.		
GPS Locatio	Insert image here		GPS Location	Insert image here		
Descriptio	n		Description			
	Insert image here			Insert image here		
GPS Locatio	n		GPS Location			
Descriptio	n		Description			