Stream Biological Conditions EA Report									rt	
Project Name H-600 Pipeline			e Spread E	Spread E AFE 124300134			Spread	H-600 Pipe	line Spread E	
	Contractor Price Gregory						Report #	274	74	
Enviro	invironmental Auditor Dan Miller Date/Time 10/6/2023 9:0						):06 AM			
Stre	Stream ID S-L20		Crossing Start Date 10/6/2023 Cros			Cross	sing Comple	10/14/2023		
Milepost 147.53			Pre-Con Assessment Da	)ate 10/6/2023 Post-			Con Assess	10/14/2023		
Station 7789+40		10	Bankfull Width (	ft.)	.) 8.5 Riffle:Pool Complexes Pres		s Present?	No		
	State WV		Stream Classification		Perennial					
C	County Greenb	orier	303(d) Impairment Listi	ng	N/A					
	-1		Resource Post-Cro			ns				
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				N/A	
	Time of Year	<sup>r</sup> Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location? <u>N</u>	Α				
2	This questior	n is not applic	able in WV.							
3	Which crossin Dam & Pump		re utilized during the stream c Cofferdam Convention				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?						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?							im 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			
			Biological Condition					Pre-Co		
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay					/CI 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 2						3			
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.)						3			

AFE	124300134	Date/Time	10/6/2023 9:06	6 AM	Report	<b>#</b> 274			
	Biol	ogical Conditions Co	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)	ddedness, ; nditions in	4	4					
19	Channel Alterations:Example along banks, concrete/gabions/conc agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	rete block, manmade emba igible (unaltered/natural stre	nkments, constric am), 2-Minor (20	tions w/in channel, liv 40% of resource disru	estock or upted by	2	2		
		Addition	nal Notes						
Pre-Co Bankfu 18. Lov Timber	nstruction Notes nstuction Meeting - 10/5/2023 Il width measured at OHWM takes v instream habitat score due to no mat in place prior to assessment	o flow conditions.					·		
	023 - Stream substrate was removed started and finished in resource		and stored se	parately in an uplan	d area (Ph	oto 2). Exe	cavation		
	023 - Sifting bedding into trench. De area.	Pipe lowered into trench	(Photo 4). Cutt	ing and welding of p	pipe in tren	ch outside	of aquatic		
	10/10/2023 - Additional pipe lowered into trench outside of resource area. Cutting and welding of pipe in trench outside of aquatic resource area.								
10/11/2	2023 - Welding ongoing outside of	aquatic resource area.							
and sa	10/12/2023 - Survey evaluated elevations of pipe through aquatic resource area. No realignment needed. Welding, x-ray, coating, and sandblasting on-going on both ends of pipe in trench (outside of resource area). Began backfilling and construction of first trench breaker completed (Photo 5).								
	2023 - Additionally welding and co ce area brought to elevation (Pho				n of sectio	n trench bro	eaker.		
substra	10/14/2023 - Light rain overnight. Survey delineated stream channel and OHWM. Resource area contoured (Photo 7). Stream substrate and topsoil restored (Photo 8). Banks seeded and stabilized with curlex. Additional work continued outside of resource area, but wetland restoration complete.								
18. Cro been a	onstruction Notes ossing and riparian areas have be chieved and areas that do not hav ober mat remains in place for trave	/e 80% vegetative cover			% vegetati	ve coverag	e has		
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	ite		
Dan Mi	ler	RMiller		Potesta		10/14	/2023		

AFE 124300134	4	Date/Time	10/6/2023 9:06 AN	1 <b>Report #</b> 274	Report # 274		
		Required	d Photos				
Diri 6 Jime Friderick Postopi 2017 word get Africe vor 6 19 Annue Karlow (1997) Annue Karlow (1997) Bergen (1997)	Ale an I TERE I DE Contra La casa Contra La casa Contra La casa Vita Contra La casa Vita		Antingescentin Ladit Ser Department (Ves 64) Antinetin Perating (Ser 64) Regress Antiger (Ser 64	IREURIZZYZEY* (LINYURU) IRY 6836multe ireus (LIUSY) Ined ande Iroux			
GPS Location			GPS Location				
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream view of unimpacted area du construction assessment.	uring pre-		
Elevation Angle - 1,5 Horizon Angle - 00 4 Zoom - 100 Downstream View Of prom Anntain Valley Produce	BD 7425- EE 1031 milis True (+23 )		Elevence applies 149 to 200 dense fragmente provide a series dense	1 definition of a constraint o			
GPS Location			GPS Location				
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream view of unimpacted area du construction assessment.	uring post-		
Browning Angels 495 AP			CCPS Location	SEX SEXUAL SEX			
GPS Location		e of stream	GPS Location		ad and		
Description	Photo 1: Removing first 12 inches substrate.	s of stream	Description	Photo 2: Stream substrate segregate stored in upland area.	eu ano		

AFE 12430013	34	Date/Time	10/6/2023 9:06 AN	Л	Report #	274	
		Optional	al Photos				
Distortements Sate, Oat in Danison, Oddy (Volco), Altiroda, Volco), Altiroda, Volco)	083.742594 (+29.91)		Dare S Imme Mon Octors 2 Prosten 03774586 M 104 Amudo appril 123 fin Daram WS Sa Aramati Beaning 105, M 10 Elevation Angle 181 Herroron Angle 103 Vann 2 02 Converti Maguno Pries Woman Ottors	oz) al 11 si si si si en integala Wilego en El 10284mits, tran el 12 el			
GPS Location			GPS Location				
Description	Photo 3: Trench crossing aquatic	resource.	Description	Photo 4: Movin resource area.	g pipe to lowe	r into aquatic	
Pointon 107 942-51 Pointon 107 942-51 Pointon 107 942-51 Pointon 201 11 422 Bit Annu 100 11 2 Pointon Pointon 201 Pointon Pointon 201 Pointon Pointon 201 Pointon Pointon 201 Pointon 201	20 and 20		Admusic system on Datum: WOS-84 Azimuth Bearing 317 M3 Elevation Angle: -137 Horizon Angle: -011 Zoom 10X resource backfilled prior to any P-S-120/W-L1H				
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 5: Building trench breaker resource area.	adjacent to	Description	Photo 6: Aquat to stream resto	ic resource are ration.	ea backfilled. Prior	
Date & Time, Sail, Oct 14 Poglion - 037 24/28 Antikuler 24027, 1282 310 Offum, VIGS-142 Astimulin Bearing 318 N Einsation Angle - 224 24 Jorizzo Angle - 1003 Jorn 100 - Team contour perspective Mondrain Valley Hipstern			Contract Area and a second and a	W 507mls True 1501			
GPS Location			GPS Location				
Description	Photo 7: Creating contour of strea	am.	Description	Photo 8: Strear	n substrate re	stored.	