					Stream Biological Conditions EA Report									
Project Name H-600 Pipeline			eline	Spread F AFE 124300135 Spread H				Н	-600 Pipeline Spread F					
	Contractor Price Gregory			ory							Report #	! 4:	23	
Environmental Auditor Beth Burdette Date/Time 12/4/2023 4:50 PM									50 PM					
Str	eam ID	S-G42				Crossing Start Date 12/29/2023 Crossing Completion Date 1/1						13/2024		
Milepost 190.24				Pre-Con Assessment Date 12/6/2023 Post-Con Assessment					ent Date 1/	13/2024				
9	Station	10044+	-60			Banl	kfull Width	ı (ft.)	4.0	Riffle:	Pool Complex	es	Present?	No
	State	WV			Stream Classification Intermittent									
0	County	Monroe	Э		303(c	d) Impa	airment Lis	sting	No					
						Resou	rce Post-C	Cross	sing Condition	ons				
1	Were	all app	licable res	our	ce spec	cific cro	ssing cond	lition	s satisfied?					N/A
	Time of	of Year	Restrictic	ns	(TOYR))? _N//	AMusse	el Re	location? <u>N</u>	<u>'A</u>				
2	This question is not applicable in WV.													
3	Which Dam &	crossin Pump	ig methods Flume	wer X	e utilize Coffer	d during rdam	g the stream Conventi	cros: onal l	sing? (If so sele Bore Horiz	ect one zontal [or more) Directional Dril	I (H	IDD) 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?							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?							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								N/A					
14	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					
					Bi	ologic	al Condition	ons					Pre-Cor	Post-Con
15	15 Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay						l 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						2							
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.)						1							

AFE	124300135	Date/Time	12/4/2023 4:50 P	M Repor	rt # 423				
	Biol	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 (Hab of resource)	4	4						
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	1	1						
Additional Notes									
Additional Notes Pre-Construction Meeting - 12/6/2023 Recent rain/snow 17. Heavily vegatated. Sections with slight bed/bank or deeper depressions. 18. Resource within wetland (W-G6) and lacks flow and defined bed and banks. Surface water in depressional areas. 12/29/2023 - Installed US and DS dams for aguatic resource. Flow visible above US timber mat but not visible DS of timber mat. Excavated top 12 inches of substrate (Photo 1) and transported material to north hill stockpile for segregated storage. Prepped for blast dhilcharge holes, etc. Blasted. Removed blast mats in the vicinity of aguatic resource to install filmme pipe (Photo 2). 12/20/2023 - Removed remaining blast mats. Removed filme pipe. Placed timber mats in aquatic resource area. Excavated tranch upslope of resources and into topsolid aquatic resource. Subsoli transported to coming-in sidehill. Welded pipe in upland area. 12/2012/2023 - Completed excavation of trench through aquatic resource (Photo 3) and relayed subsoli. Pumped water from trench. 12/2012/2024 - Pumped water from trench. Walked pipe section to upland trench. Welded pipe in upland area. 13/2024 - Pumped water from trench. Walked pipe section to upland trench. Walked pipe section for aquatic resource area (Photo 4). Aligned pipe an upland area. 13/2024 - Pumped water from trench. Walked pipe section to upland trench. in aquatic resource. Su activity in aquatic resources. 13/2024 - Pumped water from trench. Walked and lowered pipe section into trench in aquatic resource. Su activity in aquatic resources.									
	Name	Signature		Company	Da	ate			
Beth Bı	urdette	65	P	otesta	1/13/	2024			

AFE 12430013	5	Date/Time	12/4/2023 4:50 PN	/ Report # 423			
		Require	d Photos				
Afford of Long Verdia Long of Annual Long Verdia Long of Prime Verdia Long of Afford Verdia Long of Afford Verdia Long of Afford Verdia Long of Afford Verdia Long Of Afford Ver				RD2 a 107 37 58 ESI D75337 W 12 17 ABU E RDW			
GPS Location	See Photo	at area during	GPS Location	See Photo			
Description	pre-construction assessment.	ct area during	Description	Downstream view of unimpacted area during pre- construction assessment.			
transactions 4000-000000000000000000000000000000000	demonstrate 2120 1		undersonande Sart Jan 13, 20 paramental en anterna en anterna paramental en anterna en anterna paramental en anterna en anterna paramental de anterna en anterna Elevation Angle - 22,7 Horizon Angle - 01,9 Zoom - 10 V Sick2,0 Sick2,0 Janman,0 MVP	224 (11 8 27 46 25 1 10 0 8 26 1 10 0 10 1 10 0 10 1 10 0 10 1 10 0 10 10 1 10 0 10 10 10 10 10 10 10 10 10 10 10 10			
GPS Location	See Photo		GPS Location	See Photo			
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream view of unimpacted area during post- construction assessment.			
Die & Time, The Sec. 20 Position 0329, 722, 141 Althude 14771 (23, 24) Datum WOS Elevation Angle, 07, 04 Honzingente 14992 Zoom, 1 02 S-626, 240 Mountain Valley Pipeline S	20 de la 17 de la 16		Date of the product o				
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 1: Excavation of the top 12 substrate.	2 inches of	Description	Photo 2: Installing flume pipe post blasting.			

AFE 12430013	5	Date/Time	12/4/2023 4:50 PN	1 Report # 423			
Optional Photos							
Date & Time S (1) Dec 31 Position + 037 (2033) Attrude 1980(t) 238 Bit Dafum W65-B4 Azimuth Rearreng 180 (5) Elevation Angle - 134 Horzon Angle -			Date 6 Time Fr. Jan B: 20 Postion 037 07260 Nr 08 Altitude 1977ft (s49 1/0 Datum WOS-84 Armuth Bearing 149 Sati Elevation Angle -10 Horizon Angle -03 1 Zoom 10X S: 062/2 Vr 66 Lower Pipe to Mountain Valley Pipeline	24 sit Last 875544 W (=24 III) 2849mils True (=12) Trench			
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 3: Completing trench throu resource.	gh to aquatic	Description	Photo 4: Lowered pipe in trench through aquatic resource.			
Ders A. Times, Sold, Jan S. J. President, -4007, ADVS2VY (-1 Alitability, SDVS), 400 (-10) (-100			Control Set Junit 32 (2020) Position +0374/22100 1 -06 Ontenzia 1973/81 (248) 9th Oatum WOS-84 Asimuth Bearing 12/1 S39; Elevation Angle -07 6 Horizon Angle -02 6 Zoom 1 0X S (642) Szurvy shooling are MVP	24 al 11 28 25 25 1 0 675523 al 30 800 E 2507mils True te 15 and ete valors			
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 5: Backfilling with padding	dirt.	Description	Photo 6: Survey shooting elevations.			
Date & Tume Sat, Jan 13: Position - 4037 475649 Altitude: 1968nt - 292 20 Datum: WGS-64 Azimuth/Bearing 143 53 Elevation Angle - 16: Horizon Angle - 10: Xoom 10X S-642 Adding stream sub MVP			unto ormanica versional de la construcción de la co				
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 7: Restoring substrate.		Description	Photo 8: Removing downstream dam.			