Stream Biological Conditions EA Report										
Project Name H-600 Pipeline			e Spread F AFE 124300135			5	Spread	H-600 P	ipeline	e Spread F
	Contractor	Price Gregory	1				Report #	351		
Enviro	Environmental Auditor Allyson Kincaid Date/Time 11/10/2023 9:04							04 AM		
Stre	eam ID S-I20		Crossing Start Date 11/20/2023 Cro			Cross	rossing Completion Date 12/7			7/2023
Milepost 163.20			Pre-Con Assessment Da	ent Date 11/10/2023 Post-Con Assessment Date				te 12/	7/2023	
S	Station 8616+9	96	Bankfull Width (ft.)	11.5	Riffle:Pool Complexes Present?			t?	No
	State WV		Stream Classification		Perennial	J				
C	County Summe	ers	303(d) Impairment Listi	ng	No					
			Resource Post-Cre	oss	ing Conditio	ons				
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?					N/A
	Time of Year	^r Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location? <u>N</u>	Α				
2	This question	n is not applie	cable in WV.							
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump X Flume X Cofferdam Conventional Bore Horizontal Directional 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?						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		
14	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						Cobble (2-10")			
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						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.)						2			

AFE	124300135	Date/Time 11/10/2023 9:04 AM Report		t # 351						
	Biologi		Pre-Con	Post-Con						
10	velocities & eddedness, tic conditions in s in 0-10%	4	4							
19	Channel Alterations: Examples: S along banks, concrete/gabions/concrete agricultural impacts Rating: 1-Negligibl channel alterations), 3-Moderate (40	livestock or srupted by	1	1						
	Additional Notes									
inches dams a 11/21/2 11/22/2 11/24/2 No a.m 2). End 11/25/2 placed initiated 11/26/2 11/27/2 area. A 11/28/2 from tre trench. 11/29/2 11/30/2 12/2/20 opposit (Photo 12/6/20 rocks a Post Cr 16., 17 been a 19. Doo	Additional Notes Pre-Construction Notes Pre-Construction Meeting - 10/30/2023 11/20/2023 - No water in resource. No changes in resource since assessment (11/10/2023). Built US and DS dams. First 12 inches of substrate (Photo 1). Drilled holes for blasting. Mats placed over pumps and materials. Blasted. Made adjustments to dams as needed for placement of flume. 11/21/2023 - Heavy rain event. No work in aquatic resource. 11/22/2023 - No work being conducted in aquatic resource. 11/22/2023 - No low ork being conducted in aquatic resource due to unsafe conditions on slope leading to resource area (Photo 2). No a.m. work in resource - still drying out. Pumped water from ternch. 11/25/2023 - Water pumped from trench (almost continuously). Namb removed to increase depth of cover. Additional excavation completed. 11/25/2023 - Water pumped from trench. 11/25/2023 - Water pumped from trench. 11/25/2023 - Water pumped from trench. 11/26/2023 - Water pumped from trench. 11/26/2023 - Water pumped from trench. 11/26/2023 - Work delayed due to unsafe/slick conditions from snow. 11/26/2023 - Norkel and results 11/26/2023 - Work delayed gue to line up for cut. Worked reminder of day trying to cut and align pipe. 11/26/2023 - Verkel day exary completed. 11/26/2023 - Verkel day exary completed. 11/26/									
	Name	Signature	Compar	ıy	Da	ate				
Allyson	Kincaid	Ma	POTESTA		12/7/	2023				

AFE 12430013	124300135 Date/Time			M	Report # 351		
			d Photos				
Bitterie Terrer (E.C. Moz TM Position - 2027 / 13-50 - Minden 243 Bit Terroris (E.C. Altrinoth Bearing (E.T. Moz Elements Bearing (E.T. Moz Biostinistica) - 2008 -	VY S2/mils fage 1 2/1						
GPS Location			GPS Location				
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass		area during pre-	
Date & Time: Thu: Dec 07 Position 4027 771499 Alticule 292411427 ettp Palminv65-84 Animath Beaman 2016 Bearston Angle - 24 0 Bearston Angle - 24 0 Bearsto	2022 al 14 14 00 EST 080 7331 d'1 2 25 90 591 5422miles true province de la constance de la co						
GPS Location	See Photo		GPS Location	See Photo			
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream vie construction ass		area during post-	
 And Same Math. Res. 10 Andrew Straff, Same Mat							
GPS Location	See Photo		GPS Location	See Photo			
Description	Photo 1: Removing top 12 inches	s of substrate.	Description	Photo 2: Excav resource.	vating trench in	aquatic	

AFE 12430013	5	Date/Time	11/10/2023 9:04 A	AM Report # 351				
		Optiona	I Photos					
And on the second			0 73"					
GPS Location			GPS Location					
Description	Photo 3: Sandbag pillows placed	in trench.	Description	Photo 4: Trench breaker on RDB. River weights.				
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GPS Location	See Photo		GPS Location	See Photo				
	Photo 5: Backfilled subsoil and flu replaced.	umed	Description	Photo 6: Survey present onsite.				
Among of 25 Units of 16,25 Evolution Andre - 25 Forda Andre - 20 Packet of Packet of P		PAT	and a second sec					
GPS Location			GPS Location	See Photo				
Description	Photo 7: Restoring substrate.		Description	Photo 8: Seeding buffer.				