Mountain Valley Stream Biological Conditions EA Report														
Project Name H-600 Pipeline Spread F AFE 124300135 Spread H-60					00 Pipeline Spread F									
Contractor Price Gregory				gory				Report #	28	80				
Enviror	Environmental Auditor Beth Burdette Date/Time 10/9/2023 1:						/9/2023 1:43	3 PM						
Stre	am ID	S-N5 Cr				Crossing Start Date 10/9/2023			Cross	Crossing Completion Date 10/			14/2023	
Mi	Milepost		169.09		Pre-Con Assessment Date 10/9/2023			Post-Con Assessment Date 10/			14/2023			
-		8928+11			Bankfull Width (fi			ı (ft.)	4.0	Riffle:Pool Complexes Present?			No	
	State	WV			Stream Classification			n	Perennial					
С	County Summers			303(d) Impairment Listing None										
Resource Post-Crossing Conditions														
1	Were a	all appl	licable re	sour	ce spec	ific cross	sing cond	ditions	s satisfied?					N/A
ľ	Time o	of Year	Restriction	ons ((TOYR)	? <u>N/A</u>	Muss	el Re	location?\	I/A_				
2	This qu	This question is not applicable in WV.												
3		Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump Flume 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	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							
							Condition						Pre-Con	Post-Con
15	Predor (<0.1"),			Тур	e (selec	t one):Be	edrock, Bou	ulder (>10"), Cobble (2	2-10"), Gra	avel (0.1-2"), Sa	nd	Mud/Silt/Cl ay	Mud/Silt/Cl ay
16	Marginal unvegeta	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							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.)						2							

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	Biological Co	nditions Co	ntinued		Pre-Con	Post-Con
18	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities & depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, Varied combination of water velocities, submerged aquatic vegetation Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)					4
19	Channel Alterations: Examples: Straighte along banks, concrete/gabions/concrete block, r agricultural impacts Rating: 1-Negligible (unalte channel alterations), 3-Moderate (40-80% of	nanmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	ivestock or rupted by	1	1

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting (10/9/2023)

Pre-Construction completed 10/10/2023 due to climatic conditions.

Bank full width measured at OHWM takes at the centerline.

18. Low instream habitat score due to no flow conditions.

10/9/2023 - Heavy rain. No flow in channel prior to rain event. Stream substrate removed and segregated (Photo 1). Dams and flumes installed.

10/10/2023 - Hammering of rock material and excavating trench. Pumping as needed. Welding ongoing outside of trench. Lowered pipe into trench (outside of aquatic resource).

10/11/2023 - Dewatering of trench as needed. Continued trench excavation (Photo 2). Cutting, welding, x-ray and coating occurred outside of aquatic resource area. Installed sandbag bedding in trench (Photo 3).

10/12/2023 - Dewatering of trench as needed. Lowered pipe into trench in aquatic resource area and made necessary alignment adjustments (Photo 4).

10/13/2023 - Cutting, welding, x-ray and coating occurred in trench outside of aquatic resource area. Survey verified pipe elevations. Began construction of trench breakers and backfilling trench (Photo 5).

10/14/2023 - Trench breakers completed. Trench backfilled (Photo 6). Stream substrate and topsoil returned to channel. Survey verified elevations and placement of OHWM. Stream banks seeded (Photo 7) and curlex put in place above OHWM (Photo 8). Restoration complete.

Post Construction Notes

No stream flow present during resource crossing.

16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that no not have 80% vegetative cover within 30 days will be reseeded.

19. Does not include timber mats that remain in place for travel lane.

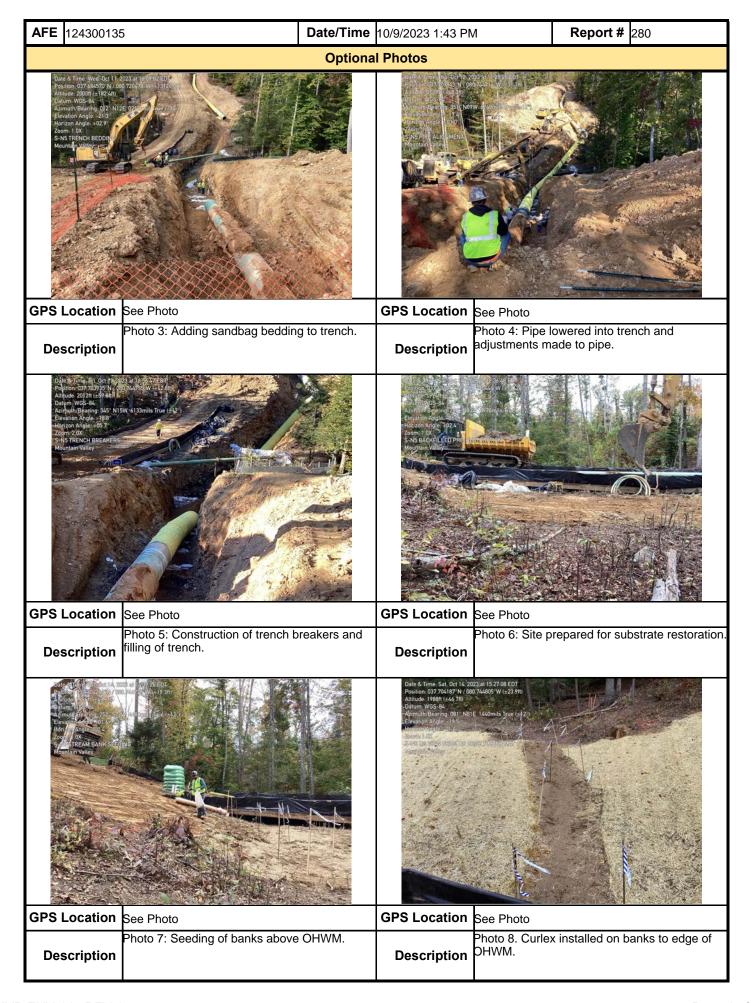
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

Name	Signature	Company	Date
Beth Burdette		POTESTA	10/15/2023

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