Mountain Valley Stream Biological Conditions EA Report												
Project Name H-600 Pipeline			H-600 Pipe	eline	e Spread F AFE 12430013		E 12430013	5	Spread	H-60	0 Pipeline	Spread F
Contractor Price Gregory			Price Greg	gory	•			Report #	425			
Enviror	Environmental Auditor Mathew Huber Date/Time 12/4/2023						/2023 7:56	6 AM				
Stream ID S-C41					Crossing Start Date 12/6/2023			Cross	Crossing Completion Date 12/2			22/2023
Mi	Milepost 194.78				Pre-Con Assessment Date 12/4/2023 Pos			Post-	t-Con Assessment Date 12/2			22/2023
S	Station 10284+12				Bankfull Width (ft.) 3.0			Riffle:F	Riffle:Pool Complexes Present?			No
	State WV				Stream Classification Intermittent							
С	County Monroe				303(d) Impairment Listing No							
Resource Post-Crossing Conditions												
4	Were a	all app	licable res	sour	ce specific crossing condit	ions	satisfied?					N/A
1	Time o	of Year	Restriction	ons ((TOYR)? N/A Mussel	Rel	ocation? _ N	/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					
					Biological Condition						Pre-Con	Post-Con
15	Predor (<0.1"),			Тур	oe (select one):Bedrock, Bould	er (>	>10"), Cobble (2	-10"), Gra	avel (0.1-2"), Sai	nd	Cobble (2-10")	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					
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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	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	manmade 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 - 11/29/2023

18. Stream was dry during assessment

12/06/2023 - Top 12" of stream substrate from OHWM to OHWM was excavated (Photo 1) and segregated into upland area (Photo 2). Flume pipe along with upstream and downstream dams were constructed to accommodate any potential stream flow. Prepped for blasting outside resource area.

12/07/2023 - No flow in stream. Resource area was blasted and excavation of trench in southern riparian buffer was started. Sandbags added to trench for padding in southern riparian buffer.

12/8/2023 - No flow in stream. Flume pipe removed. Pipe lowered into trench in southern riparian buffer. Excavated through aquatic resource. Flume pipe replaced. Welding ongoing.

12/9/2023 - No flow in stream. X-rayed. Excavating outside resource area. Sandbags added to trench for padding in northern riparian buffer (Photo 3).

12/11/2023-12/12/2023 - No flow in stream. Flume pipe in place. Work ongoing outside of aquatic resource area.

12/13/2023 - No flow in stream. Removed flume pipe. Lowered pipe into trench though aquatic resource (Photo 4). Welded. Inserted trench box. Work ongoing outside of aquatic resource area.

12/14/2023-12/18/2023 - No flow in stream. Flume pipe in place. Work ongoing outside of aquatic resource area.

12/19/2023 - No flow in stream. Flume pipe in place. Began constructing trench breakers (Photo 5).

12/20/2023 - No flow in stream. Continued backfilling. Trench breaker complete. Flume pipe removed. Backfilling continued.

12/21/2023 - Completed backfilling (Photo 6). Contoured/graded channel in subsoil by machine and hand (Photo 7). Added substrate. Removed the dam.

12/22/2023 - Seeded (Photo 8). Jute added to banks. Post-construction assessment completed.

Post Construction Notes

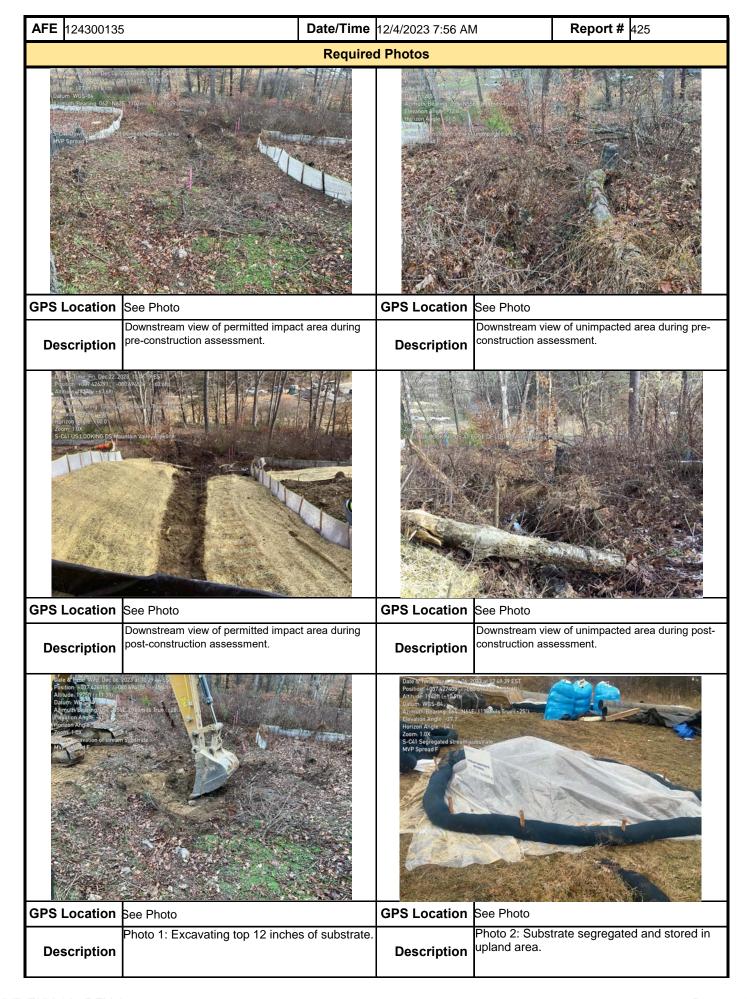
16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded.

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
Mathew Huber	Motor Han	ERM	12/22/2023

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