A	Mountain Valley Stream Biological Conditions EA Report												
Project Name H-600 Pipeline			eline	e Spread F AFE 124300135		5	Spread	H-6	H-600 Pipeline Spread F				
Contractor Price Gregory			jory	Report # 435			5						
Enviror	Environmental Auditor Eric Schicker Date/Time 12/12/2023 7						/12/2023 7:1	7 AM					
Stream ID S-MN38				Crossing S	tart Date	12/	12/2023	Cross	ing Comple	etio	n Date 12/2	21/2023	
Milepost 188.9		188.96			Pre-Con Assessment D		ite 12/11/2023 Post-Con Assessment D			nt Date 12/2	21/2023		
		19977+29			Bankfull Width (ft.) 4.0			Riffle:Pool Complexes Present?		No			
State					Stream Classification Intermittent					!			
С	County Monroe				303(d) Impairment Listing No								
Resource Post-Crossing Conditions													
1	Were	all app	licable res	sour	ce specific crossing	condition	s sa	atisfied?					N/A
'	Time o	of Year	Restriction	ons (TOYR)? N/A M	ussel Re	loca	ation? 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 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								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						
								Post-Con					
15		ninant Mud/Silt		Тур	e (select one):Bedrock	x, Boulder (>10"	'), Cobble (2-	-10"), Gra	vel (0.1-2"), Sai	nd	Mud/Silt/Cl ay	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						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.)						1						

MVP-ENV-14 REV 1 Page 1 of 4

AFE	124300135	Date/Time	12/12/2023 7:17 AM	Report	# 435	435	
	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, ragricultural 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	vestock or rupted by	1	1	

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 12/11/2023

18. Low score due to lack of flow.

Resource bordered by wetland.

12/12/2023 - Built upstream dam. Removed top 12 inches of substrate (Photo 1) and used Morooka to transport to separate containment area in upland work area. Built downstream dam and installed flume pipe.

12/13/2023 - Prepped for blasting through aquatic resource area. Flume pipe removed. Started pumping water from resource area (standing water).

12/14/2023 - Drilled for blasting (Photo 2). Mats put in place for blasting. Blasted. Mats removed. Timber mats put in place to allow for excavation. Began excavating subsoils throughout aquatic resource area.

12/15/2023 - Excavated trench in aquatic resource (Photo 3), relayed and stockpiled. Water pumped from aquatic resource. Welded. Worked outside resource area. Replaced flume pipe.

12/16/2023 - Pumped water from aquatic resource area. Work ongoing outside aquatic resource area. Adjusted dams. Flume pipe reset.

12/18/2023 - Pumped water from aquatic resource areas. Sandbags added to trench for padding (Photo 4). Flume pipe removed, no upstream flow. Lowered pipe into trench. Staged pipe and began welding. Flume pipe replaced.

12/19/2023 - Restaged pipe through aquatic resource area for welding. Welding completed. Padded and backfilled subsoil in aquatic resource area (Photo 5). X-rayed. Continued to pad and backfill.

12/20/2023 - Backfilled subsoil in aquatic resource area. Removed flume. Dammed. No flow. Replaced topsoil in aquatic resource area (Photo 6). Channel contoured.

12/21/2023 - Survey onsite. Survey evaluated elevations (Photo 7). Adjusted elevations. Restored substrate. Readjusted contours and subgrade (by hand) (Photo 8). Restored buffer area.

12/29/2023 - Site revisited for minor instream adjustments.

Post Construction Notes

- 9. Trench breakers constructed outside of wetland limits
- 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.
- Low score related to lack of flow and channel diversity.
- 19. Does not include timber mats that remain in place for travel lane.
- *Post construction photo replaced due to error.

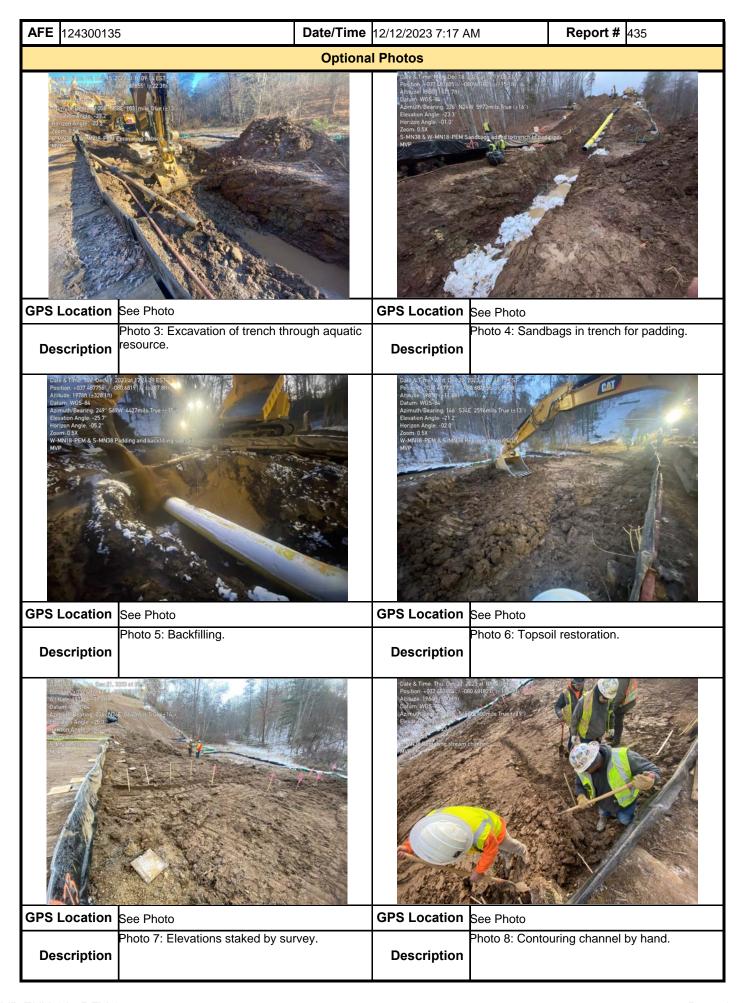
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody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

Name	Signature	Company	Date	
Eric Schicker	En Soh	Potesta	12/29/2023	

MVP-ENV-14 REV 1 Page 2 of 4



MVP-ENV-14 REV 1 Page 3 of 4



MVP-ENV-14 REV 1 Page 4 of 4