Mountain Valley Wetland Biological Conditions EA Report								t			
Project Name H-600 Pipeline			Spread F	<b>AFE</b> 124300135		Spread	H-6	00 Pipeline Spread F			
Contractor Price Gregory								Report #	146	5	
Environmental Auditor Aaron Crank				Date/Time 12/4/2023 9:26				6 AM			
Wetland ID W-MN15			Crossing Start Date 12/4/2023 Crossing Completion Date			n Date 12/2	Date 12/23/2023				
Milepost 185.86			Pre-Con Assessment Date 12/4/2023 P			Post-C	Post-Con Assessment Date 12/2			23/2023	
Station 9813+36			Cowardin Classification PEM Wetland Impact Area(acres)0.00					070			
	State	wv								•	
	County Monroe										
				Resource Post-Cro					_		
1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?							Yes			
2	Was the existing vegetation removed prior to initiating land disturbance within the resource?						Yes				
3				hes) of wetland soil segreg	_					h spoils?	Yes
4	Was e	excess material	not r	needed for backfill removed	d ar	nd disposed of	f in an	upland area?	)	· ·	Yes
5	Was the top 12-inches of backfill made with clean native wetland topsoil?						Yes				
6	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?						Yes				
7	Was wetland topsoil replaced and temporarily seeded?						Yes				
8	Was permanent seed applied to unsaturated wetlands?						Yes				
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?						Yes				
10	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?					Yes					
11	Was the pre-construction survey data utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?						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	Was the time of disturbance minimized by conducting resource work continuously to completion?					Yes					
14	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?					Yes					
15	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?					N/A					
16	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 No					
.=	Wetla	nd Saturation	Ares	Biological Condition surface waters, the water table, ar		r overall soil satu	ration			Pre-Con	Post-Con
17	present	? (Select Yes or N	0)							No	No
18	Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.  Rating: 1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)					4					
19	Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con)  Rating:1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)						1				

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## **Additional Notes**

## Pre-Construction Notes

Pre-Construction Meeting - 11/29/2023

15. No water or soil saturation observed in test pit dug in center of resource area.

18., 19. Resource positioned within area that was formerly cattle pasture. Minimal disturbance observed, vegetation present throughout resource, though no wetland species were observed.

12/04/2023 - Excavated top 12 inches of topsoil (Photo 1). Holes drilled into resource with John Henry, explosive placed for blasting. Blasted (Photo 2). Trenching and welding occurred outside resource area on coming-in side throughout the day. 12/05/2023 - Excavators removed soil displaced by blasting in aquatic resource. No additional work occurred within aquatic resource. Trenching, hammering and welding occurred outside aquatic resource area throughout the day.

12/06/2023 - Environmental crew installed silt sock along edge of non-impacted aquatic resource area. No additional work occurred within aquatic resource. Trenching, hammering and welding occurred outside aquatic resource throughout the day.

12/07/2023 - No work occurred in resource area. Trenching, hammering and welding occurred outside resource throughout the day. 12/08/2023 - Section of pipe placed on skids over aquatic resource. No additional work occurred within aquatic resource. Welding and coating occurred outside of aquatic resource throughout the day.

12/09/2023 - No work occurred in aquatic resource area. Welding and backfilling occurred outside aquatic resource area throughout the day.

12/11/2023 - Rain from previous day resulted in standing water throughout aquatic resource. No work occurred in aquatic resource area. Welding occurred outside aquatic resource area in buffer zone throughout the day.

12/12/2023-12/13/2023 - No work occurred in aquatic resource area. Welding, sandblasting and coating occurred outside aquatic resource area in buffer zone throughout the day.

12/14/2023 - Crew marked route of pipe centerline through aquatic resource. Trenching began in resource area. Water pumping intermittently from excavated trench throughout the day and continued overnight. No additional work occurred in resource. 12/15/23 - No flow in stream. Excavated trench. No pumping. Hammering in trench completed. Lowered pipe into trench (Photo 3). Began welding.

12/16/23 - Trenching through aquatic resource continued. Crew tried to place the pipe but due to wrong size had to begin the recutting and rewelding process.

12/18/2023 - Water pumped from trench in aquatic resource and continued overnight. Sandblasting and coating occurred outside aquatic resource area.

12/19/2023 - Water pumped from trench in aquatic resource. Trench box installed. Welding, coating and X-ray inspection occurred outside resource area.

12/20/2023 - Water pumped from trench in aquatic resource. Pipe lowered into trench (Photo 4). Welding occurred outside aquatic resource area.

12/21/2023 - Backfilling, sandblasting and coating occurred outside aquatic resource area. No work occurred in aquatic resource. 12/22/2023 - Water pumped from trench in aquatic resource. Trench breaker installed. River weights placed over pipe on coming-in and going-away side of resource. Backfilling ongoing (Photo 5). Second trench breaker installed (Photo 6). Topsoil restored (Photo 7). Environmental crew installed P1 silt saver fence along boundary (Photo 8). Environmental crew installed jute. Backfilling and coating occurred outside resource throughout the day.

12/23/2023 - Environmental crew applied seed. No additional work

01/02/24 - Post-construction assessment revisited. Resource has been permanently seeded and proper ECDs installed.

## Post Construction Notes

17. Test pit did not recharge, soils were not saturated.

19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

Timber mat bridge remains in place for travel lane.

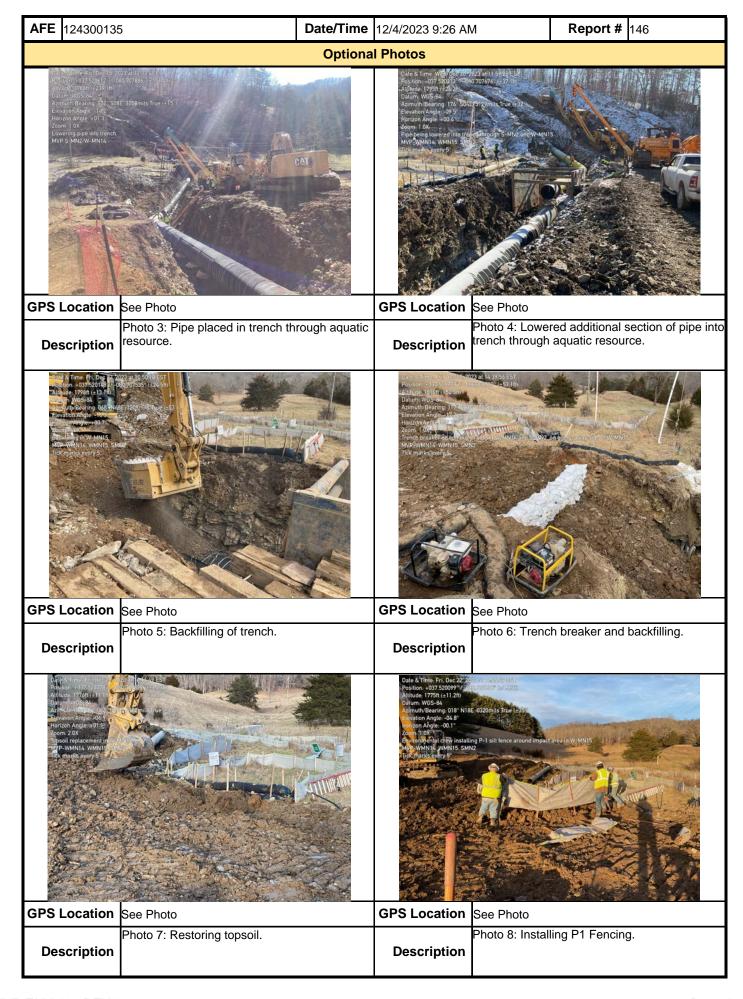
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody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

Name	Signature	Company	Date
Aaron Crank	Cara	Potesta	1/2/2024

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**AFE** 124300135 Date/Time 12/4/2023 9:26 AM Report # 146 **Required Photos** GPS Location See Photo **GPS Location** See Photo View of permitted resource impact area during At edge of LOD, view of unimpacted resource area pre-construction assessment. conditions during pre-construction assessment. **Description Description GPS Location GPS Location** See Photo See Photo View of permitted resource impact area during At edge of LOD, view of unimpacted resource area post-construction assessment. conditions during post-construction assessment. **Description Description GPS Location** GPS Location See Photo See Photo Photo 1: Excavation of top 12 inches of topsoil Photo 2: Aquatic resource post blast. from aquatic resource. **Description Description** 

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