Mountain Valley PIPELINE LLC  Wetland Biological Conditions EA Report							
Project Name H-600 Pipeline			Spread E	<b>AFE</b> 12430013	4 Spread ⊢	pread H-600 Pipeline Spread E	
	Contractor Price Gregory Report # 41						
Enviro	Environmental Auditor Kristin Duty  Date/Time 9/6/2023 8:10 A						
Wetl	and ID	W-L19	Crossing Start Date 9/8/2023 Crossing Completion Date			on Date 10/	11/2023
Milepost 147.00		147.00	Pre-Con Assessment Date 9/6/2023 Post-Con Assessment Date		ent Date 10/	11/2023	
<b>Station</b> 7761+60			Cowardin Classification PEM Wetland Impact Area(acres)0.10			060	
	State	WV					
C	County	Greenbrier					
	ha.		Resource Post-Cro				
1		equipment mats or of action and disturban	other suitable methods utiliz ce in wetlands?	ed under heavy	equipment to minimiz	e soil	Yes
2	Was t	he existing vegetation	on removed prior to initiating	land disturband	ce within the resource	?	Yes
3	Was t	he top 1-foot (12-inc	hes) of wetland soil segreg	ited and stockp	iled separate from tre	nch spoils?	Yes
4	Was excess material not needed for backfill removed and disposed of in an upland area?				N/A		
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?						
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?					Yes	
10	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 Yes 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	
	Watla	nd Saturation: Area	Biological Condition		uration	Pre-Con	Post-Con
17		? (Select Yes or No)	surface waters, the water table, an	aroi uveiaii soii sall	aratiOH	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.)					4	

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## **Additional Notes**

## Pre-Construction Notes

Pre-Constuction Meeting - 9/5/2023

Timber mat in place prior to assessment.

17. No recharge and soils are not saturated.

(9/8/2023) - First 12" of wetland topsoil removed (Photo 1) and segregated in upland area (Photo 2). Trenching began in upland area. Approximately 0.1" of rain occurred.

(9/9/2023) - Timber mats placed in wetland area to allow for additional topsoil removal.

(9/11/2023) - Approximately 0.8 inches of rain occurred. Began trenching in aquatic resource. Welding on-going outside resource.

(9/12/2023) - Welding outside of aquatic resource. Pumping of water out of trench in aquatic resource. Timber mats moved in aquatic resource.

(9/13/2023 - 9/14/2023) - Continued pumping water from the resource area. Trenching ongoing (Photo 3 and Photo 4). Additional topsoil removed from wetland resource (9/14/2023). Rain event of approximately 0.1 inches of rain on 9/13/2023.

(9/15/2023) - Bedding placed in trench in aquatic resource area. A portion of pipe lowered into trench running through aquatic resource area (Photo 5).

(9/16/2023 - 9/19/2023) - Adjustments made in the trench including lifting pipe to place additional bedding. Welding and leveling on-going.

(9/23/2023) - Morning showers. Welding of pipe that runs through aquatic resource. No other work in or adjacent to aquatic resource.

(9/24/2023) - Welding and pumping ongoing.

(9/25/2023) - Survey onsite to verify elevations. Additional padding placed in trench at aquatic resource.

(9/26/2023) - Removed timber mats and began backfilling trench in aquatic resources. Survey present.

(9/27/2023) - Trench breakers installed below aquatic resource and backfilling on-going.

(9/28/2023) - Pumping from trench in aquatic resource area and continued backfilling aquatic resources.

(9/29/2023) - Backfilling continued in aquatic resources area.

(10/2/2023) - Second trench breaker established outside wetland, backfilling continued, and test pole station installed.

(10/3/2023) - Backfilling ongoing around aquatic resource and survey established elevations. Prepping site for restoration activities in aquatic resource (Photo 6)

(10/4/2023) - Subsoils restored in aquatic resource. Survey was present to work on elevations.

10/5/2023 - 10/6/2023) - Ongoing adjustments to elevation of aquatic resource. Substantial rain event late in the day on 10/6/2023.

(10/7/2023) - Seeding occurred in aquatic resource (Photo 7).

(10/09/2023) - Additional seeding and survey in wetland completed.

(10/10/2023) - Test station in wetland must be removed, will require work in wetland boundaries.

(10/11/2023) - Test station was removed from wetland boundary (Photo 8). Wetland topsoil and subsoil were properly excavated, segregated, and then wetland was restored.

## Post Construction Notes

17. Water did not recharge in post construction test pit.

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

Timber mat 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
Kristin Duty	Muth Duty	POTESTA	10/13/2023

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AFE 124300134 Date/Time 9/6/2023 8:10 AM Report # 41 **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 conditions during pre-construction assessment. Overview of W-L19 nonimpact facing North. pre-construction assessment. Description Description Overview of W-L19 proposed trench location facing North. GPS Location See Photo **GPS Location** See Photo View of permitted resource impact area during At edge of LOD, view of unimpacted resource area conditions during post-construction assessment. Overview of W-L19 nonimpact facing North. post-construction assessment. Description Description Overview of W-L19 proposed trench location facing **GPS Location GPS Location** See Photo See Photo Photo 2. Wetland 12" topsoil segregated and Photo 1. Wetland 12" of topsoil excavation and segregation onto morooka. stockpiled in upland area. **Description Description** 

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AFE 124300134 **Date/Time** 9/6/2023 8:10 AM Report # 41 **Optional Photos** GPS Location See Photo GPS Location See Photo Photo 4: Trenching in aquatic resource from Photo 3: Adjusting timber mats for work in wetland. timber mats. **Description Description** GPS Location | See Photo **GPS Location** See Photo Photo 6. Restoration of wetland 12" topsoil to Photo 5. Installation of south trench breaker between S-L22 and W-L19. resource. Description Description GPS Location | See Photo **GPS Location** See Photo Photo 7: Seeding aquatic resources. Photo 8: Test station after removal from wetland (now outside of resource). **Description Description** 

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