Mountain Valley Wetland Biological Conditions EA Report							
Pı	roject Name H-600 Pipeline	e Spread C	AFE 124300131 Spread H-60		I-600 Pipeline	Spread C	
	Contractor Precision			Report # 2	6		
Enviror	nmental Auditor Alex Miller			Date/Time 8	Fime 8/15/2023 8:30		
Wetla	and ID W-H90	Crossing Start Da	ate 8/15/2023	Crossing Completi	on Date 8/2	1/2023	
Mi	lepost 74.21	Pre-Con Assessment Da	ate 8/11/2023	Post-Con Assessme	on Assessment Date 8/2		
Station 3918+33		Cowardin Classification PEM Wetland Impact Area(acres)0.03			388		
	State WV				•		
С	County Braxton						
	ha.	Resource Post-Cr					
1	Were equipment mats or compaction and disturband	other suitable methods utili: ce in wetlands?	zed under heavy	equipment to minimiz	e soil	N/A	
2	· ·	on removed prior to initiating	g land disturban	ce within the resource	?	Yes	
3	Was the top 1-foot (12-inc	hes) of wetland soil segreg	ated and stock	piled separate from tre	nch spoils?	Yes	
4	Was excess material not r	needed for backfill removed	d and disposed of	of in an upland area?	•	N/A	
5	Was the top 12-inches of I	backfill made with clean na	tive wetland top	soil?		Yes	
6	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?				N/A		
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?				N/A		
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	the corrective actions implemented in the Comments section and include additional photos.				No Post-Con		
47	Wetland Saturation: Are s	Biological Condition surface waters, the water table, ar		uration	Pre-Con		
17	present? (Select Yes or No)				Yes	Yes	
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

Dewatering of the trench was required during the day and overnight throughout the crossing, this same crew managed the pump around water as well.

8/15/23

Prior to construction entering the 10' buffer of W-H90, the stream crossing S-H123s was dammed with sandbags and a pump around was installed.

Excavation of the top 12" of wetland topsoil was removed, stored and covered on the right side of the coming in side (CIS) of the ROW form W-H90.

The top 12" of stream substrate for S-H123s was also excavated and placed in super sacks and stored next to wetland topsoil. The trench was excavated until hitting a hard rock layer and a blasting crew was brought in.

8/16/23

Excavation was complete through the wetland, stream, and going away side (GAS) of the crossing and a large section of pipe was lowered into the trench. Welding operations started tying in the GAS of the pipe.

8/17/23

Welding continued on the GAS of the cross while the excavation of the trench on the CIS was completed. The segment of pipe on the CIS was lowered into the trench and welding operations commenced.

8/18/23

Welding operations on the CIS and GAS continued in the morning. A section of pipe was required to be cut out on the CIS, but by the end of the day both the CIS and GAS welds and X-rays were completed.

8/19/23

Sand blasting and coating of the pipe was completed first thing in the morning and trench breaker was installed within 25' of the wetland boundary. The trench was backfilled by padding the pipe using a sifting bucket on an excavator up to the 10' buffer zone of the wetland. The top 12" of segregated soil was replaced in wetland (W-H90) and stream (S-H123s) to the surveyor pre-construction specifications. The pump and dam were removed, and stream flow was restored.

Super-silt was installed on both sides of the wetland, but seeding and the installation of jute was only completed on the CIS due to running out of daylight.

8/21/23

The remaining section of W-H90 was completed with the installation jute and seeding on the GAS. Curlex was installed within the 50ft riparian zone outside of the wetland.

Conditions 18 and 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. The W-H90 PEM topsoils have been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

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	
Alex Miller	alex Melhi	SWCA	8/21/2023	

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