

Wetland Biological Conditions EA Report

Project Name		Name	H-600 Pipeline	ne Spread B		AFE 124300130		Spread	read H-600 Pipeline Spread E		Spread B
Contractor		Precision				Report #	64	64			
Environmental Auditor Joe Ventura		Joe Ventura					Date/Time	9/21	9/21/2023 12:33 PM		
Wetla	Wetland ID W-B46			Crossing Start Date 9/22/2023 Crossing Completion Date 10/				Date 10/	12/2023		
Milepost 45.98			Pre-Con Assessment Date 9/21/2023 Post-Con Assessment Date 10				Date 10/	12/2023			
Station 2427		2427+8	36	Cowardin Classificat	Cowardin Classification PEM		Wetland Impact Area(acres) ^{0.1}			acres) ^{0.12}	255
	State										
C	County Lewis										
	h a :			Resource Post-Cr	ossin	g Conditio	ons				
1	Were compa	equipn action a	nent mats or o and disturban	other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize :	soil	Yes
2	Was t	ne exis	sting vegetatio	on removed prior to initiatin	g land	l disturband	e withi	n the resourc	e?		Yes
3	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils? Yes										
4	Was e	xcess	material not r	needed for backfill removed	d and	disposed o	f in an	upland area?)		Yes
5	Was t	ne top	12-inches of I	backfill made with clean na	tive w	etland tops	oil?			_	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? See						See Below				
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 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?										
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				
				Biological Condition	າຣ					Pre-Con	Post-Con
17	Wetla present	nd Sat ? (Selec	t uration: Are s at Yes or No)	surface waters, the water table, a	nd/or o	verall soil satu	iration			Yes	No
18	Resou haul roa Rating Modera	u rce A ids, farm 3: 1-Ne(te (40-8)	Iterations: Are n traffic, drain tile gligible (undisturb 0% of resource d	e the wetland soil conditions visib s, recent mowing/clear cutting, re bed/natural resource), 2-Minor (2 isturbed), 4-Poor (>80% of resou	ly distu ecent e 0-40% irce dis	irbed? Exam xcavating/disk of resource dis turbed)	iples: I ing of so sturbed I	Livestock preser bils, etc. by alterations), 3	nce, 3-	3	4
19	Is veg Con)A Rating Margina vegetati	etation are are g:1-Opti al (<30% ve cove	n present wit as properly s imal (60-100% he vegetative cover rage, etc.)	thin the permitted impact seeded and stabilized aft eavy vegetative cover), 2-Sub-op rage), 4-Poor (Mowed/maintained	: area er res timal (3 d area o	prior to di toration? 0-60% mixed or farmland, in	sturba (Post-(vegetati nperviou	nce? (Pre- Con) ve coverage), 3- s area, sparsely		4	4

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Additional Notes

9/21/2023: Pre-construction assessment

The weather at the time of the preconstruction assessment was 55 degrees Fahrenheit and sunny. The wetland soil in the proposed crossing area was saturated following recent precipitation. The proposed crossing area will also include the bore pit for the south side of the bore crossing of the adjacent public road and the wetland has had an equipment mat travel lane installed and left in place for multiple years (information provided by the environmental inspector) which was just recently moved off the wetlands. Due to this the previously matted area of the wetland had poor vegetative cover and was degraded relative to the surrounding wetland area in geomorphic positioning. Excluding the previously matted area, vegetation was well established in the wetland. - J.Ventura

9/22/2023

The weather was sunny and the temperatures high was 75 degrees Fahrenheit. The first 12 inches of wetland topsoil was separated and segregated away from the trench spoils and the trench was excavated. Two trench boxes were installed on the Northside of the wetlands. - J.Ventura

9/23/2023

The weather was overcast to rainy, with a high of 60 degrees Fahrenheit. The crew leveled out the floor of the trench as well as added pea gravel to the floor. In addition, the crew installed a pump to dewater groundwater from the trench. Finally, the crew placed construction mats at the bottom of the trench, tracks and piping for the boring machine. - J.Ventura

9/25/2023

The weather was overcast with a high of 75 degrees Fahrenheit. The crew lowered the boring equipment into the trench and started to bore north towards the road. They completed the section of the bore and removed equipment from the excavation before ending the day. - J.Ventura

9/26/2023

The weather was mostly sunny while in the afternoon turned to overcast with a high of 73 degrees Fahrenheit. Crew lowered in boring machine to punch through the final 10 ft of sediment. After completing the section, the crew removed the boring equipment from the trench. - J.Ventura

9/27-9/30/2023

The crew worked on welding pipe segments for the road bore section and pushing completed segments through the bore casing. At the completion of construction efforts on each day, the contractor removed the boring machine and placed in a nearby upland staging area. - J.Ventura

10/2/2023

The contractor worked on excavating the trench through the adjacent access road and adjacent upland area to prepare to tie-in the road bore with the previously installed crossing for stream S-B67 and wetland W-B47. No construction activity or ground disturbance was observed in the previously crossed resources. - R.Ellis

10/3-10/7/2023

The wetland crossing remained open while pipe was installed through the adjacent access road and tied into the previously installed pipe section through stream S-B67 and wetland W-B47. On 10/7 the contractor completed work on the tie-ins and began padding the pipe with sifted subsoil in preparation for backfill. - C.Winchester

10/9 Backfill of subsoil over pipe underneath wetland commenced. - C. Biden

10/10 Backfill continued and concluded. Wetland soil has begun to be added and replaced back to grade. - C. Biden

10/11 The contractor replaced the original 12" of segregated wetland topsoil to the wetland area and graded it to the correct contour. Erosion and sediment controls were then installed around the wetland.

Conditions 18 and 19 were given a rating of 4 during post-construction assessment due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The disturbed wetland 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. -C Biden

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
Joe Ventura	Ŵ	ERM	10/12/2023

AFE 124300130)	Date/Time	9/21/2023 12:33 F	PM Report # 64		
Required Photos						
SE 120 15 150 1 - 1 - 1 - 1 C 20 C 20 C 20 C 20 C 20 C 20 C 20 C 20	S 180 210 240 210 240 240 11°S (T) • 39.080048, -80.581312 ±7 m ▲ 309 m 11°S (T) • 39.080048, -80.581312 ±7 m ▲ 309 m 210 520 2028	W 270 10 10 10 1	0 14 0 14 0 14	SE 100 100 100 100 100 100 100 10		
GPS Location	See photograph		GPS Location	See photograph		
Description	View of permitted resource impact a pre-construction assessment.	rea during	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.		
PREFS	+039.080240 / 080.581194 1.1103ft 0/12/23 12.14.08 213° S33W 2787mits TRUE 5 210 240			1039 080043 / 1080 581262 1 1044 1210.48 1200.48 1200.		
GPS Location	See photograph		GPS Location	See photograph		
Description	View of permitted resource impact a post-construction assessment.	rea during	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.		
GPS Location	1 ²⁰		GPS Location	10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2		
GPS Location	See photograph	working on	GPS Location	See photograph		
Description	removing the wetland from the to excavating the trench.	working on psoil prior to	Description	I his photo shows the excavated trench in the wetland with trench boxes installed.		

AFE 12430013	0	Date/Time	9/21/2023 12:33 F	PM Report # 64			
Optional Photos							
W-B46	NW 330 N 0 NE 50 N 0 0 NE 50 N 0 0 NE 50 N (T) 39.079408, 80.581431 ±150 m 297 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ео м м м у м у м у м у р-в , 5:50:55 РМ	O 19 OU UN WB46 Menters	North Elevation ** (*) * 39.080056, *80.581261 ±9 m * 302 m			
GPS Location	See photo		GPS Location	See photo			
Description	This photo shows the pipe install road bore section north of the we	ed through the atland.	Description	This photo shows the pipe installed through the road bore section north of the wetland.			
Date & Time Tube Res Inc. Position - 4000 King State Attitude 11100 (-245-59 Attitude 11100 (-245-59 Attitude 11100 (-245-59 Attitude 11100 (-245-59 Attitude 1210) Constant State Constant State Constate Constant State Constant State Constant Stat	VZE LOVAL AND LOVAL		Poist annual and a second seco	Zzz arouz z z z z z z z z z z z z z z z z z z			
GPS Location	See photo		GPS Location	See photo			
Description	This photo shows the excavated the wetland and adjacent access	trench through road.	Description	This photo shows the excavated trench through the wetland and adjacent access road.			
Date & time tri 0 0016 a Position 039 0016 a Althode 1031ft 442 4ft Annother W03-84 Comm 04 a Comm 04 a Co							
GPS Location	See photo		GPS Location	See photo			
Description	This photo shows the contractor welding the tie-in section to conn bore and adjacent stream crossir	working on ect the road ng.	Description	The photo shows the backfilled soil and the removal of the equipment mat travel lane through wetland feature.			