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Wetland Biological Conditions EA Report

Project Name H-6		H-600 Pipeline	e Spread A		AFE 124300129		Spread H-600 Pipelin		Spread A		
Contractor Precision		Precision				Report #	39	39			
Environmental AuditorSamantha Feli			Samantha Feli	x Date/Time 9/2/2					2023 6:51 PM		
Wetla	Wetland ID W-A1a Crossing Start Date 8/22/2023 Crossing Completion Date 9/2/2023										
Mi	Milepost 0.65 Pre-Con Assessment Date 8/26/2023 Post-Con Assessment Date 9/5/						2023				
Station 34+32 Cowardin Classification PEM Wetland Impact						nd Impact A	rea	(acres) 0.00	038		
State WV											
C	County Wetzel										
	1.47			Resource Post-Cr		-					
1		•••		other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize	soil	Yes
2				on removed prior to initiatin	-						Yes
3			•	hes) of wetland soil segree			-			h spoils?	Yes
4				needed for backfill removed		•		upland area?)		Yes
5				backfill made with clean na						<u>, </u>	Yes
6				tion practices (disking, plo zon) implemented prior to	•	•	tilling, (or incorporation	on c	of organic	Yes
7	Was w	vetland	topsoil repla	ced and temporarily seede	d?						Yes
8	8 Was permanent seed applied to unsaturated wetlands?							No			
9	9 Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?							Yes			
10	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			
 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	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			
Biological Conditions Pre-Con							Post-Con				
17			t uration: Are s at Yes or No)	surface waters, the water table, a	nd/or o	verall soil satu	iration			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. 1 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) 1						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								
8/22/23 - Pre-construction meeting and took pre-construction pictures of siteS.Felix								
8/26/23 - Dam and pump was installed. Tw downstream from constructionS.Felix	8/26/23 - Dam and pump was installed. Two dams were created to catch water. Aquatic organisms were caught and released downstream from constructionS.Felix							
8/27/23 - Commenced sheet pile installation after checking again for aquatic organisms. Before each section of sheet pile was installed, 12" of waterbody substrate was segregated and stockpiled in a designated upland area separate from the other spoil. S.Felix								
	8/28/23 - Continued sheet pile installation. The top 12" of wetland substrate was segregated and stockpiled in a designated upland area separate from the other spoil before each section of sheet pile was installedS.Felix							
8/29/23 - Finished sheet pile installation. C	Commence	ed the extraction of subsoil	S.Felix					
8/30/23 - Installed pipe and started welding	gS.Felix							
8/31/23 - Finished welding and started fillin	ng the trer	nch with subsoilS.Felix						
9/1/23 - Continued filling the trench with su	ubsoilS.	Felix						
9/2/23 - After the subsoil was properly com waterbody substrate were placed back ont survey data and pre-construction pictures.	to the wet							
9/5/23 - Post-construction pictures taken.								
Conditions 18 and 19 were given a rating of permitted impact area following the comple- bed substrates have been properly stabilized accordance with Appendix B: Restoration N Monitoring, Restoration and Mitigation Fran	etion of th zed and th Work Plar	e crossing and restoration eff e disturbed area has been se	orts. The adjacent S- eded with the approp	-A1a stream priate perma	bank and stream nent seed mix in			
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			
Samantha Felix	Ja	The Levi	ERM		9/5/2023			

AFE 124300129)	Date/Time	9/2/2023 6:51 PM	Report # 39			
Required Photos							
10 SW 240	W0 S00 NW 450 • 299 W (1) • 39.553956, -80.545001 #7 m 2 230 m • 230 m • 100 m • 299 W (2) • 200 m • 200 m • 200 m • 200 m	9:07:50 AM	De eo	E 0 122 SE 150 S 100 0 112*E (T) • 39.553937, 80.544973 ±7 m ▲ 229 m 0 112*E (T) • 39.553937, 80.544973 ±7 m ▲ 229 m 22 Aug 2023, 9.08.00 AM			
GPS Location			GPS Location	See above.			
Description	View of permitted resource impact a pre-construction assessment.	irea during	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.			
00 +01.4 +01.4 +05 SHOW EXTRAS, ZERO A-B	1039.653911*/ 0.00 5/2/3 1.865/1 9/05//3 1.3.51.42 3/07 3/07 1.3.51.42	HAIL LOG -13 -10 -09.1° -10 -05 -05 -05 -05 -05 -05 -05 -05 -05 -0	100 100 100 100 100 100 100 100 100 100	+039 553899 7-080.544982 1 885ft 1 00 0705/28 1 3.51.36 00 02.12 00 02.12 00 145 535E 2578mils TRUE • WHAT'S NEW 120 50 5 COLOR 103			
GPS Location	See above.		GPS Location	See above.			
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.			
NAP DO DO STANIS SHOVE Z TRAS ZEBO 4-B	1039.554101° / -080.544977° 1 900tt 18:05:19 043° N43E 0764mils TRUE 043° N43E 0764mils TRUE		PERSONAL AND	+039.553853* 7 -080.544768 t 893ft 8 27723 to 13.31.27 to 10 13.31.27 to 10 10 08.6 10 10 10 10 10 10 10 10 10 10			
GPS Location	See above.		GPS Location	See above.			
Description	This photo shows the dam and p for the wetland and stream cross	ump installed ing		This photo shows the contractor working on installing sheet piling.			

AFE 124300129 Date/T			9/2/2023 6:51 PM	1 Report # 39		
Optional			al Photos			
PRES MAP 00 +019 SHOK EXTRAC	4.039.553854 / -080.544724 1 889ft 17.23.59 17.23.59 101.059W 551mils TRUE 011.059W 551mils TRUE 011.059W 551mils TRUE 011.059W 551mils TRUE	00 -10 -07.7 -05 HAT'S NEW	PREFS - MAP OU 00 + 02 4* + 02 4* + 05 + 05 + 05 + 05 + 02 4* + 05 + 05 + 05 + 05 + 05 + 05 + 05 + 05	+039.553908* / -080.544921		
GPS Location			GPS Location			
Description	This photo shows the contractor of work on the sheet pile installation			This photo shows the contractor continuing work on the sheet pile installation.		
	039 554211 7 -080 5450 75° 1 - 929 H 19 30 / 23 203 523W 3609 mils TRUE 203 523W 3609 mils TRUE 2 5 1 2 20 2 0000	-1-5 -1-5 -1-5 -1-5 -1-1-5 -1-5 -1-5 -1-		1099-554 19-7-080-544904 1.8951 B8/31 20 2367 556W 4196mils TRUE 210 240 w		
GPS Location	See above.		GPS Location	See above.		
Description	This photo shows the contractor v excavating the trench	working on	Description	This photo shows the contractor working on installation of pipeline.		
	4039.553904 / 080.544722 1899ft 9/01/23 ET 0.4518 04 NB6W 5404m1s TRUE 04 NB6W 5404m1s TRUE 04 00 00 00 000 20			1039.554152 -080.544925 19/02/23 20/ 207 527W 3680mils TRUE 207 527W 3680mils TRUE 207 527W 3680mils TRUE		
GPS Location	See above.		GPS Location	See above.		
Description	This photo shows the contractor v backfilling the trench with soil.	working on	Description	This photo shows the completed crossing.		