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Wetland Biological Conditions EA Report

Project Name H-600 Pipeline		H-600 Pipeline	Spread E	AFE	124300134	4 Spread		Н-6	H-600 Pipeline Spread E		
Contractor Price Gregory		Price Gregory	i			Report #	56	56			
Environmental Auditor Charles Haden Date/Time 9/19/2023 8:03 A						3 AM					
Wetla	Wetland ID W-M23 Crossing Start Date 10/7/2023 Crossing Completion Date 10/19/2023									19/2023	
Milepost 137.01 Pre-Con Assessment Date 9/19/2023 Post-Con Assessment Date 10/19/20								19/2023			
S	Station 7234+05 Cowardin Classification PEM Wetland Impact Area(acres) 0.00					616					
	State WV										
C	ounty	Greent	orier								
	1.47			Resource Post-Cr		-					
1				other suitable methods utili. ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize	SOII	Yes
2	Was t	he exis	sting vegetatio	on removed prior to initiating	g lanc	l disturband	e withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segreg	ated	and stockpi	led sep	parate from tr	renc	ch spoils?	Yes
4	Was e	excess	material not r	needed for backfill removed	d and	disposed o	f in an	upland area?)		Yes
5				backfill made with clean na							Yes
6				tion practices (disking, plov zon) implemented prior to a	•	•	tilling, d	or incorporati	on d	of organic	Yes
7	Was v	vetlanc	d topsoil repla	ced and temporarily seede	d?						Yes
8	Was p	ermar	nent seed app	lied to unsaturated wetland	ls?						Yes
9 Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?						nd not	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					
 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				cheduled to verify as-built c ct Mitigation Framework an						ons in	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					
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	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.										
						Post-Con					
17	Wetland Saturation: Are surface waters, the water table, and/or overall soil saturation Yes 17 Present? (Select Yes or No) Yes						Yes				
18	8 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. 2 8 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) 2						3				
19	Is vegetation present within the permitted impact area prior to disturbance? (Pre- Con)Are areas properly seeded and stabilized after restoration? (Post-Con)						2				

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Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 9/18/2023

Timber mat bridge in place prior to assessment.

17. Standing water, soil saturation, and high water table observed in soil test pit.

10/07/2023 - Top 12 inches of topsoil removed from aquatic resource and stored in designated upland containment area (Photo 1 and Photo 2). Excavation began in aquatic resource.

10/09/2023 - Excavation of trench in resource was completed (Photo 3). Subsoil from trench transported to upland area. Trenching ongoing outside of resource. Temporary earthen barrier constructed in trench, but outside of aquatic resource, to help control groundwater seepage.

10/10/2023 - Water pumped from trench to designated dewatering structure. Pipe installed and welding occurred outside of aquatic resource. Trenching ongoing outside of aquatic resource. Sandbags for pipe bedding placed in aquatic resource area. X-ray completed.

10/11/2023 - Water pumped from trench to designated dewatering structure. Trenching ongoing outside of aquatic resource. Pipe bedding added outside of aquatic resource area.

10/12/2023 - Rain occurred overnight. Water pumped from trench to designated dewatering structure. Trench box installed. Temporary earthen barrier removed. Pipe lowered into trench in resource area (Photo 4) and prepared for welding. Welding, coating, x-ray, and hammering ongoing outside of aquatic resource.

10/13/2023 - Water pumped from trench within aquatic resource throughout the day. Welding and X-ray on-going. Sandblasting occurred within trench box with containment structure in place. Coating work initiated.

10/14/2023 - Jeeping/coating completed. Sandbag trench breakers constructed outside aquatic resource (Photo 5). Back-filling occurred in trench through aquatic resource (Photo 6). Water pumped from trench within resource throughout the day.

10/16/2023 - Trench box removed from aquatic resource. Subsoil restored in W-M23 (Photo 7). Survey marked resource for topsoil restoration.

10/17/2023 - Wetland topsoil restoration began in aquatic resource. Survey inspected boundary and elevation throughout resource.

10/18/2023 - Wetland topsoil was too wet to rake, final restoration postponed until following day.

10/19/2023 - Wetland topsoil elevations fine-tuned. Wetland seed applied to resource (Photo 8).

Post Construction Notes

17. Soil saturation observed in test pit. Standing water observed in permitted impact area and non-impacted resource area. 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
Charles Haden	Charles Hadan	Potesta & Associates	10/19/2023

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GPS I	_ocation	See Photo		GPS Location	See Photo		
Des	scription	View of permitted resource impact a pre-construction assessment.	rea during	Description	At edge of LOD, conditions during		cted resource area on assessment.
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GPS I	ocation			GPS Location			
	scription	View of permitted resource impact a post-construction assessment.	rea during	Description			cted resource area ion assessment.
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GPS I		See Photo		GPS Location			
Des	scription	Photo 1: Wetland topsoil remova	I	Description	Photo 2: Topsc upland area.	il segregated	and stored in an

AFE 12430013	4	Date/Time	9/19/2023 8:03 AM	Л	Report #	56		
Optional Photos								
Registrations educations and accession of many accession of the second s				V 3680mils True (±22')				
GPS Location			GPS Location					
Description	Photo 3: Trenching in aquatic res	source.	Description	Photo 4: Pipe I	owered into aq	uatic resource.		
GPS Location	dW /dz8mits Tode 1524"		Date of the standards to the set of the standards to the Article standards to the Article standards to the Article standards to the Article Standards to the Back Hung Standard to the Back Hung Standar					
GPS Location		nstallad on			illing of aquatic	100000		
Description	Photo 5: Trench breakers being in both sides of aquatic resource.	nstalled on	Description		illing of aquatic	resouce.		
Date & Emphasized Science - 106 (0498) Positione - 106 (0498) Altitude - 1380 (0497) Littude - 1380 (0497) Azimuth/Bearing - 224 - 54 Elevation Angle - 1083 Zoom - 100 W-M-V33 marked MVP- VM23	Ran Left Parker ID: BR 2019 - e-b.1 Bit AV 3982mils True I + 407		Date & Time. Thu. Oct 19: 20 Position - 4080 000704 / - 00 Affride 3847ft (-11) 30 Diagn. WOS-94 Browler Amile Rearing - 14/4 Horizon Andrew - 00 K2 Zoom / 10 Applying Cont 10 W-M23 HU-WOST	23 art 5 57/21-ED1 0.7222459 re15 400 E 2613mits True (± 24)				
GPS Location	See Photo		GPS Location	See Photo				
Description	Photo 7. Subsoil replaced and reamarked by survey.	source	Description	Photo 8. Topso resource.	bil restored and	seed applied to		