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PIPEL	

Wetland Biological Conditions EA Report

Project Name H-		H-600 Pipeline	e Spread F		AFE 124300135		Spread H-600 Pipeline Sp		Spread F		
Contractor Price Gregory		Price Gregory				Report #	116				
Environmental Auditor Beth Burdette		Beth Burdette	Da				Date/Time	11/2	11/2/2023 7:21 PM		
Wetland ID W-UV8 Crossing Start Date 11/6/2023 Crossing Completion Date 12/4/202							4/2023				
Milepost 155.96				Pre-Con Assessment Date 11/3/2023 Post-Con Assessment Date 12/						4/2023	
S	station	8234+6	69	Cowardin Classificat	i on P	EM	Wetla	nd Impact A	rea(acres) ^{0.49}	913
	State	WV									
C	county	Greent	orier								
	1			Resource Post-Cr		-					
1				other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize	soil	Yes
2	Was t	he exis	sting vegetatio	on removed prior to initiatin	g lano	disturband	e withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segree	jated	and stockp	iled se	parate from tr	renc	h spoils?	Yes
4	Was e	excess	material not r	needed for backfill remove	d and	disposed o	f in an	upland area?)		Yes
5		•		backfill made with clean na							Yes
6				tion practices (disking, plo zon) implemented prior to	•	•	tilling, o	or incorporation	on o	f organic	Yes
7	Was v	vetlanc	d topsoil replac	ced and temporarily seede	d?						Yes
8	Was p	ermar	nent seed app	lied to unsaturated wetland	ls?						Yes
9			ent/timber ma gh the impact	atting removed from the we area?	tland	area prope	rly by v	ertically lifting	g, ar	nd not	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				
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?						See Below				
12	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	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?						exceed	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	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 ct Yes or No)	urface 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. 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				
19	Is vegetation present within the permitted impact area prior to disturbance? (Pre- Con)Are areas properly seeded and stabilized after restoration? (Post-Con)						1				

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Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 11/3/2023

15. Approx. 2" recharge on 12" soil pit. Vegetation indicators.

18. Trench location has been mowed, in addition to seasonal die-back.

11/6/2023 - Wetland topsoil (12 inches) excavated and segregated (Photo 1). Stockpiled within aquatic resource boundary. Silt fence installed as barrier around wetland topsoil stockpile (Photo 2). Trench and relay subsoil.

11/7/2023 - Set timber mats for welding pipe. Began welding. No other work in resource.

11/8/2023 - Welded and x-rayed pipe. No other work in resource.

11/9/2023-11/11/2023 - Welded, x-rayed, and coated pipe. Excavated bell hole outside of aquatic resource area.

11/13/2023 - Continued to weld, x-ray, and coat pipe. Worked in adjacent aquatic resource (S-UV2).

11/14/2023-11/15/2023 - Excavated subsoil in trench starting in southern most portion of aquatic resource (Photo 3). Additional work ongoing outside of aquatic resource area throughout the day.

11/16/2023 - Minimal work onsite due to utilities issue. No work in aquatic resource.

11/17/2023 - Trenching continued through aquatic resource. Additional work ongoing outside of aquatic resource area.

11/18//2023 - Sandbag "pillows" added to the trenched portion of aquatic recourse. Continued to weld and x-ray pipe.

11/20/2023 - Additional sandbag "pillows" for padding added to trench. Pipe walked to trench and lowered into trench through aquatic resource area (Photo 4). Additional work ongoing outside of aquatic resource area including welding, x-ray, sandblasting, and coating of pipe lowered into the trench.

11/21/2023 - Rain event. No work in aquatic resource.

11/22/2023 - Installed trench breaker south of aquatic resource. Backfilled portion of trench (Photo 5). Pumped water from trench. 11/24/2023 - Backfilled southernmost portion of trench in aquatic resource. Excavating in northernmost portion of aquatic resource. Adjacent resource (S-UV2) restored.

11/25/2023 - Pumped water from trench. Excavated and hammered in trench in northern portion of aquatic resource. Installed section of pipe in northern section which connects to upland. Welding ongoing. Continued to backfill southern section of trench upslope of aquatic resource.

11/26/2023 - Pumped water from trench. Welded, x-rayed, sandblasted, and coated pipe. Continued to excavate subsoil in trench. 11/27/2023 - Pumped water from trench. Excavated and hammered in trench in northern portion of aquatic resource. Jeeped and wrapped pipe. Added sandbag padding to trench. Installed portion of pipe in aquatic resource. Welded. Added padding.

11/28/2023-11/30/2023 - Cutting, aligning, welding, x-ray, sandblasting, coating, and installing rock shield on remaining sections of pipe in the aquatic resource area.

12/1/20231 - Snow flurries/rain. Pumped water from trench. Installed trench breaker (Photo 6) and padding dirt in northern end of aquatic resource. Backfilled upland trench and northern portion of wetland trench. Activities wrapped up early due to continuous rain.

12/2/2023 - Pumped water from trench. Backfilled trench (Photo 7). Restored topsoil in backfilled area. Seed northern section of restored wetland.

12/4/2023 - Pumped water from trench. Remaining trench backfilled and wetland topsoil restored. Apply wetland seed mix (Photo 8).

Post Construction Notes

11. Survey crew not utilized during restoration, but contours restored as close as practicable to pre-construction contours based on unimpacted/surrounding area contours.

17. Surface water and saturation present.

19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

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
Beth Burdette	0	Potesta & Associates, Inc.	12/4/2023

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	Required Photos								
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GPS L	ocation			GPS Location		See Photo			
Des	cription	View of permitted resource impact a pre-construction assessment.	rea during	Description	At edge of LOD, conditions during		cted resource area on assessment.		
Alinus Dalum Azındı Horaz Zoom W-UV Mount	de: 24611(1±55.5ft) m: WGS-84 uth /Bearing: 354° N06 tion Angle: +00.5° on Angle: +01.9°			Altillade, 2462ft - 52 aft) Datum, WGS-84 Maximuth Bearing, 352, NDB Elevation Angle, -00 &					
GPSL	ocation	See Photo View of permitted resource impact a	rea during	GPS Location		view of unimpa	cted resource area		
Des	cription	View of permitted resource impact a post-construction assessment.	irea during	Description	At edge of LOD, conditions during				
				And a second sec	set the desired of th				
GPS L	ocation	See Photo		GPS Location	See Photo				
Des	cription	Photo 1: Excavating top 12 inche	es of topsoil.	Description	Photo 2: Segre barrier.	gated topsoil a	and silt fence		

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Des	scription	Photo 3: Excavating trench into s portion of aquatic resource.	southern	Description	Photo 4: Trench last section of	wetland.
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GPS L	Location	See Photo		GPS Location	See Photo	
Des	scription	Photo 5: Southern trench breake Backfilling of trench in this portion resource.		Description	Photo 6: Installing northern tren	ich breaker.
Mour	Job 207511 - 39-Att mark US-38. huth Beaping: 003 No3 atron Angle - 004 No3 atron Angle - 004 Att m 2 OX V& Backfull Weltand Tree Intain Valley Pipeline	Zi anici IZ Si ESI IZESSIS W 12 IS 20 O TOTOMIC TOR 21 ZI O TOTOMIC TOTOMIC TOR 21 ZI O TOTOMIC TOTOMI		Grandina Addata (Addata) Annato Angele - 017 Zoom 100 WeVDS Seeding Mountain Valley Pipeline		
GPS L	Location	See Photo		GPS Location	See Photo	
Des	scription	Photo 7: Backfill and restore wet	tland topsoil.	Description	Photo 8: Apply wetland seed m	nix.