

## Wetland Biological Conditions EA Report

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Project Name		Name	H-600 Pipeline	ne Spread F		AFE 124300135		Spread	read H-600 Pipeline Spread		Spread F
Contractor P		Price Gregory					Report #	147	7		
Environmental Auditor Aaron Crank		Aaron Crank	Date/Time 12/4/2023 9:1					4/2023 9:23	3 AM		
Wetland ID W-MN14 Crossing Start Date 12/4/2023 Crossing Completion					tior	n Date 12/23/2023					
Milepost 185.87			Pre-Con Assessment Date 12/4/2023 Post-Con Assessment Date 12			t Date 12/2	23/2023				
Station 9		<b>on</b> 9813+69		Cowardin Classification PEM Wetland Impact Area(acres)			( <b>acres)</b> 0.03	390			
	State WV										
County Monroe											
	Resource Post-Crossing Conditions										
1				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	n removed prior to initiatin	g land	l disturband	e withi	n the resourc	e?		Yes
3	Was t	ne top	1-foot (12-inc	hes) of wetland soil segre	ated	and stockpi	iled sej	parate from tr	enc	h spoils?	Yes
4	Was e	xcess	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	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?						Yes				
7						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?						Yes				
10	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?										
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?										
13	Was the time of disturbance minimized by conducting resource work continuously to completion? Yes					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	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain						No				
				Biological Condition	າຣ			•		Pre-Con	Post-Con
17			t <b>uration:</b> Are s at Yes or No)	urface waters, the water table, a	nd/or o	verall soil satu	iration			No	Yes
18	haul roa <b>Rating</b>	ıds, farm <b>]:</b> 1-Neç	n traffic, drain tile gligible (undisturb	e the wetland soil conditions visit s, recent mowing/clear cutting, re ped/natural resource), 2-Minor (2 isturbed), 4-Poor (>80% of resou	ecent e D-40%	xcavating/disk of resource di	ing of so	oils, etc.		2	4
19	Con)A Rating Margina	<b>Are are</b> <b>3:</b> 1-Opti Il (<30%	as properly stimal (60-100% he	thin the permitted impact seeded and stabilized aft eavy vegetative cover), 2-Sub-op rage), 4-Poor (Mowed/maintained	<b>er res</b> timal (3	storation?	( <b>Post-</b> ) vegetati	<b>Con)</b> ve coverage), 3-		2	1

AFE 124300135

Date/Time 12/4/2023 9:23 AM

**Additional Notes** 

## Pre-Construction Notes

Pre-Construction Meeting - 11/29/2023

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15. No water or soil saturation observed in test pit dug in center of resource area.
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18., 19. Resource positioned within area that was formerly cattle pasture. Minimal disturbance observed, vegetation present throughout resource, though no wetland species were observed.

12/04/2023 - Excavated top 12 inches of topsoil (Photo 1). Prepped for blasting (Photo 2). Holes drilled into resource with John Henry, explosives placed for blasting (Photo 3). Blasted. Trenching and welding occurred outside resource area on coming-in side throughout the day.

12/05/2023 - Excavators removed soil displaced by blasting in aquatic resource. No additional work occurred within aquatic resource. Trenching, hammering and welding occurred outside aquatic resource area throughout the day.

12/06/2023 - Environmental crew installed silt sock along edge of non-impacted aquatic resource area. No additional work occurred within aquatic resource. Trenching, hammering and welding occurred outside aquatic resource throughout the day.

12/07/2023 - No work occurred in resource area. Trenching, hammering and welding occurred outside resource throughout the day. 12/08/2023 - Section of pipe placed on skids over aquatic resource (Photo 4). No additional work occurred within aquatic resource. Welding and coating occurred outside of aquatic resource throughout the day.

12/09/2023 - No work occurred in aquatic resource area. Welding and backfilling occurred outside aquatic resource area throughout the day.

12/11/2023 - Rain from previous day resulted in standing water throughout aquatic resource. No work occurred in aquatic resource area. Welding occurred outside aquatic resource area in buffer zone throughout the day.

12/12/2023-12/13/2023 - No work occurred in aquatic resource area. Welding, sandblasting and coating occurred outside aquatic resource area in buffer zone throughout the day.

12/14/2023 - Crew marked route of pipe centerline through aquatic resource. Trenching began in resource area (Photo 5). Water pumping intermittently from excavated trench throughout the day and continued overnight. No additional work occurred in resource. 12/15/2023 - No flow in stream. Excavated trench. No pumping. Hammering in trench completed. Lowered pipe into trench. Began Welding.

12/16/2023 - Trenching through aquatic resource continued. Crew tried to place the pipe but due to wrong size had to begin the recutting and rewelding process.

12/18/2023 - Water pumped from trench in aquatic resource and continued overnight. Sandblasting and coating occurred outside aquatic resource area.

12/19/2023 - Water pumped from trench in aquatic resource. Trench box installed (Photo 6). Welding, coating and X-ray inspection occurred outside resource area.

12/20/2023 - Water pumped from trench in aquatic resource. Pipe lowered into trench. Welding occurred outside aquatic resource area.

12/21/2023 - Backfilling, sandblasting and coating occurred outside aquatic resource area. No work occurred in aquatic resource. 12/22/2023 - Water pumped from trench in aquatic resource. Trench breaker installed (Photo 7). River weights placed over pipe. Backfilling ongoing (Photo 8). Second trench breaker installed. Topsoil restored. Environmental crew installed P1 silt saver fence along boundary. Environmental crew installed jute. Backfilling and coating occurred outside resource throughout the day. 12/23/2023 - Environmental crew applied seed. No additional work

01/02/2024 - Post-construction assessment revisited. Resource has been permanently seeded and proper ECDs installed.

Post Construction Notes

17. Test pit did not recharge, soils were not saturated.

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.

Timber mat bridge 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
Aaron Crank	a	Potesta	1/2/2024

<b>AFE</b> 1243001	35	Date/Time	12/4/2023 9:23 AN	M Report # 147			
		Required	d Photos				
Industry of the second			Attitude 1722/17 double Datum WG5-84 Azimuth Baring, 100 N00 Elevation Angle: -4012 Zoom -103 W-MNTe unempacted resolu MVP-VMN12 Thomas very 5	TOURS WORLT E of proposed r, pe routs			
GPS Location			GPS Location				
Descriptior	View of permitted resource impact a pre-construction assessment.	area during	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.			
Der Vitres Lue, And Series Vitres Lue, And Vitres Vi			Abbude 127mil (e) 84.829 Distance (e) 84.92 Honorhy Bearing (e) 94.92 Honorhy Bearing (e) 94.92	IE SUCCESSION IN CASE AND			
GPS Location			GPS Location				
Descriptior		area during	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.			
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GPS Location	See Photo		<b>GPS</b> Location	See Photo			
Descriptior	Photo 1: Excavated top 12 inche	s of topsoil.	Description	Photo 2: Blasting crew marking aquatic resource for drilling.			

AFE 124300135	24300135 Date/Time		12/4/2023 9:23 AM		Report # 147		
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GPS Location			GPS Location				
Description	Photo 3: Drilling for blasting in ac resource.	quatic	Description	Photo 4: Pipe plac resource area.	ed on skids in aquatic		
Date & Time Thu Dec 3t Position regardings of the Animage scient of the Datum Weshes Azimuth/Bearing 519- N41 Elevation Angle -24.3 Horizon Angle -24.3 Trenchigar in W-NN12 MUC WMMT4 VMNT5 SN Tie mat/Science 0			Pediator 4057 v20034 - 102 Annual Market Market Market Market Annual Period 2014 Market Provide Angle - 10, 1 Horizon Angle - 1, 1 Horizon Angle -				
GPS Location			GPS Location	See Photo			
Description	Photo 5: Excavating trench throu resource.	gh aquatic	Description	Photo 6: Trench bo	ox in aquatic resource.		
Date & timb Pri Dec 22 st Position - 1037 550007 - 00 Antique 1800 - 122 st Pathwest 4 Common Prince 33 Position Angle - 032 Zoom 103 Prenchoreakor installer Prenchoreakor installer Prenc	an market of a second sec						
GPS Location			GPS Location				
Description	Photo 7: Trench breaker installec	1.	Description	Photo 8: Backfilling	g in aquatic resource area.		