



# Wetland Biological Conditions EA Report

<b>Project Name</b>	H-600 Pipeline Spread E	<b>A/E</b>	124300134	<b>Spread</b>	H-600 Pipeline Spread E
<b>Contractor</b>	Price Gregory	<b>Report #</b>	7		
<b>Environmental Auditor</b>	Christina Moore			<b>Date/Time</b>	7/31/2023 9:29 AM
<b>Wetland ID</b>	W-J6	<b>Crossing Start Date</b>	7/31/2023	<b>Crossing Completion Date</b>	8/7/2023
<b>Milepost</b>	137.70	<b>Pre-Con Assessment Date</b>	7/31/2023	<b>Post-Con Assessment Date</b>	8/7/2023
<b>Station</b>	7270+56	<b>Cowardin Classification</b>	PFO	<b>Wetland Impact Area(acres)</b>	0.0744
<b>State</b>	WV				
<b>County</b>	Greenbrier				

### Resource Post-Crossing Conditions

1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?	Yes
2	Was the existing vegetation removed prior to initiating land disturbance within the resource?	Yes
3	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?	Yes
4	Was excess material not needed for backfill removed and disposed of in an upland area?	N/A
5	Was the top 12-inches of backfill made with clean native wetland topsoil?	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?	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	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?	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?	Yes
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	<b>Wetland Saturation:</b> Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	Yes		Yes
18	<b>Resource Alterations:</b> Are the wetland soil conditions visibly disturbed? <b>Examples:</b> Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. <b>Rating:</b> 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		4
19	<b>Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)</b> <b>Are areas properly seeded and stabilized after restoration? (Post-Con)</b> <b>Rating:</b> 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.)	1		1

<b>AFE</b> 124300134	<b>Date/Time</b> 7/31/2023 9:29 AM	<b>Report #</b> 7
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**Additional Notes**

Pre-Construction Notes  
 17. Pre-con - Water recharged into the test pit and soils were saturated (A2 and A3).  
 18- Pre-con - Timber mat present.

Day 1 (07312023)  
 Pre-construction meeting ~9:10 AM  
 Both Johnny (EI) and Jason (CEI) indicated that the site passed the MVP pre-construction checklist  
 Removed and segregated wetland soil

Day 2 (08012023)  
 Trenching  
 Excess material stored in upland area  
 Pumping excess water to dewatering structure (exits clear)

Day 3 (08022023) - Day 5 (08042023)  
 Pipe in Trench  
 Cutting, Welding, x-ray  
 Pumping excess water to dewatering structure (exits clear)

Day 6 (08052023)  
 Trench Breaks installed.  
 Backfilling of trench  
 Wetland soil utilized in wetland restoration  
 Wetland seed mix applied

Day 7 (08062023) (Off)

Day 8 (08072023)  
 Complete as-built survey to verify elevations are comparable pre and post construction.

Post Construction Notes  
 9. Does not include timber mat that remains in place for travel lane  
 17. Post-con - Water did not recharge into the test pit, but soils were saturated (A3).  
 19. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover is achieved and 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
Christina Moore		Potesta & Associates, Inc.	8/7/2023



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**Optional Photos**

<p><small>Date &amp; Time: Wed, Aug 02, 2023 at 17:42:36 EDT Position: +038.053395° / -080.732024° (-25.5ft) Altitude: 3379ft (±47.3ft) Datum: WGS-84 Azimuth/Bearing: 228° S48W 4053mils True (±1°) Elevation Angle: -06.7° Horizon Angle: +09.5° Zoom: 1.0X Pipeline in trench within wetland Mountain Valley Pipeline</small></p> 		<p><small>Date &amp; Time: Sat, Aug 05, 2023 at 16:07:19 EDT Position: +038.053369° / -080.732102° (-25.5ft) Altitude: 3383ft (±47.1ft) Datum: WGS-84 Azimuth/Bearing: 259° S79W 4604mils True (±1°) Elevation Angle: -16.1° Horizon Angle: +06.1° Zoom: 1.0X Second trench breaker installed above Mountain Valley Pipeline</small></p> 	
<b>GPS Location</b>	38.053395,-80.732024	<b>GPS Location</b>	38.053539, -80.732102
<b>Description</b>	Placing pipe into the trench	<b>Description</b>	Installation of trench breaks
<p><small>Date &amp; Time: Sat, Aug 05, 2023 at 14:40:27 EDT Position: +038.053490° / -080.732106° (-25.1ft) Altitude: 3378ft (±50.0ft) Datum: WGS-84 Azimuth/Bearing: 329° N31W 5849mils True (±4.2°) Elevation Angle: -13.9° Horizon Angle: +01.6° Zoom: 1.0X Backfilling trench within W-J6 Mountain Valley Pipeline</small></p> 		<p><small>Date &amp; Time: Sat, Aug 05, 2023 at 16:32:50 EDT Position: +038.053447° / -080.732102° (-26.4ft) Altitude: 3376ft (±55.3ft) Datum: WGS-84 Azimuth/Bearing: 190° S10W 3398mils True (±13°) Elevation Angle: -13.6° Horizon Angle: +00.0° Zoom: 1.0X Completely topsoiled W-J6 Mountain Valley Pipeline</small></p> 	
<b>GPS Location</b>	38.053490, -80.732106	<b>GPS Location</b>	38.053447, -80.732102
<b>Description</b>	Backfilling the trench	<b>Description</b>	Post-installation grading of the wetland crossing
<p><small>Date &amp; Time: Sat, Aug 05, 2023 at 16:43:02 EDT Position: +038.053267° / -080.732100° (-25.7ft) Altitude: 3363ft (±65.7ft) Datum: WGS-84 Azimuth/Bearing: 088° N89E 0514mils True (±13°) Elevation Angle: -17.4° Horizon Angle: +01.8° Zoom: 1.0X Seeding W-J6 Mountain Valley Pipeline</small></p> 		<p>Insert image here</p>	
<b>GPS Location</b>	38.053267, -80.732100	<b>GPS Location</b>	
<b>Description</b>	Seeding of wetland crossing	<b>Description</b>	