



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread F	A/E	124300135	Spread	H-600 Pipeline Spread F
Contractor	Price Gregory	Report #	153		
Environmental Auditor	Eric Schicker			Date/Time	12/13/2023 2:57 PM
Wetland ID	W-MN24	Crossing Start Date	12/14/2023	Crossing Completion Date	12/22/2023
Milepost	191.05	Pre-Con Assessment Date	11/28/2023	Post-Con Assessment Date	12/22/2023
Station	10087+62	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.0100
State	WV				
County	Monroe				

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?	Yes
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?	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	Wetland Saturation: Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	No	No
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)	1	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) 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.)	1	1

AFE 124300135	Date/Time 12/13/2023 2:57 PM	Report # 153
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Additional Notes

Pre-Construction Notes
 Pre-Construction Meeting - 11/28/2023
 17. Test pit augured - soil not saturated, no resurgence observed.
 S-MN45 fell within W-MN24

12/14/2023 - Timber mats placed in wetland for equipment. Top 12 inches of topsoil soil removed (Photo 1) and Marooka used to relay to containment area for segregation (Photo 2).

12/15/2023 - No work in resource. Flume remained in place.

12/16/2023 - No work in resource. Flume remained in place.

12/18/2023 - Trench through aquatic resource began (Photo 3) and completed. Sandbags added to trench for pipe padding and support (Photo 4). Pipe section transported and lowered into trench (Photo 5). Welding began to tie pipe into existing pipe.

12/19/2023 - Finished welding. P1 repair along ROW where it was dislodged transporting pipe to resource.


12/20/2023 - Checked substrate stockpile, properly segregated. X-ray performed on weld at resource. Sandblasting and coating ongoing.

12/21/2023 - Welds being coated. Trench breakers installed. Trench padded and backfilled within trench breakers (Photo 6).

12/22/2023 - Wetland topsoil restored (Photo 7). Surveyed. Surfaces contoured and resurveyed. Wetland seeded (Photo 8). Jute added to stabilize area adjacent to banks. P1 fence installed/repared.

Post Construction Notes:
 17. No hydrology indicators post-construction.
 19. Crossing has been recently restored and 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
Eric Schicker		Potesta	12/22/2023

Required Photos					
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GPS Location	See Photo	GPS Location	See Photo
Description	View of permitted resource impact area during pre-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.
GPS Location	See Photo	GPS Location	See Photo
Description	View of permitted resource impact area during post-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.
GPS Location	See Photo	GPS Location	See Photo
Description	Photo 1: Removal of top 12 inches of topsoil.	Description	Photo 2: Marooka used to relay topsoil.

Optional Photos					
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<p><small>Date & Time: Mon, Dec 18, 2023 09:35:07 EST Position: +037.462876 N, -080.670062 W (-17.6) Altitude: 2090ft (-236.9ft) Datum: WGS-84 Azimuth/Bearing: 247.567W 4397mils True (-16) Elevation Angle: -03.1 Horizon Angle: -01.6 Zoom: 1.0X W-MN24 trenching Mountain Valley Pipeline</small></p> 	<p><small>Date & Time: Mon, Dec 18, 2023 11:18:58 EST Position: +037.462868 N, -080.670038 W (-17.6) Altitude: 2084ft (-111.3ft) Datum: WGS-84 Azimuth/Bearing: 239.559W 4249mils True (-15) Elevation Angle: -14.2 Horizon Angle: -01.8 Zoom: 1.0X W-MN24 adding sandbag pillows Mountain Valley Pipeline</small></p> 		
GPS Location	See Photo	GPS Location	See Photo
Description	Photo 3: Trenching through aquatic resource.	Description	Photo 4: Adding sandbags to trench for padding.
<p><small>Date & Time: Mon, Dec 18, 2023 12:54:18 EST Position: +037.462854 N, -080.670647 W (-15.24) Altitude: 2115ft (-115ft) Datum: WGS-84 Azimuth/Bearing: 109.657W 1892mils True (-43.7) Elevation Angle: -09.3 Horizon Angle: -00.6 Zoom: 1.0X W-MN24 setting pipe in trench Mountain Valley Pipeline</small></p> 	<p><small>Date & Time: Thu, Dec 21, 2023 10:24:06 EST Position: +037.462772 N, -080.670026 W (-17.6) Altitude: 2086ft (-58.3ft) Datum: WGS-84 Azimuth/Bearing: 208.586W 4729mils True (-14) Elevation Angle: -07.9 Horizon Angle: -02.4 Zoom: 1.0X W-MN24 completed trench breakers Mountain Valley Pipeline</small></p> 		
GPS Location	See Photo	GPS Location	See Photo
Description	Photo 5: Lowering pipe into trench through aquatic resource area.	Description	Photo 6: Backfilling in resource area.
<p><small>Date & Time: Fri, Dec 22, 2023 at 12:57:38 EST Position: 037.462779 N, -080.670137 W (-17.6) Altitude: 2086ft (-111.7ft) Datum: WGS-84 Azimuth/Bearing: 259.597W 4604mils True (-13.5) Elevation Angle: -08.5 Horizon Angle: +02.1 Zoom: 1.0X W-MN24 topsoil restoration Mountain Valley Pipeline</small></p> 	<p><small>Date & Time: Fri, Dec 22, 2023 at 15:56:28 EST Position: +037.462712 N, -080.670245 W (-17.9) Altitude: 2084ft (-115.3ft) Datum: WGS-84 Azimuth/Bearing: 332.528W 5902mils True (-11) Elevation Angle: -11.6 Horizon Angle: -00.8 Zoom: 1.0X W-MN24 seeding in resource area Mountain Valley Pipeline</small></p> 		
GPS Location	See Photo	GPS Location	See Photo
Description	Photo 7: Topsoil being restored.	Description	Photo 8: Wetland seeded.