



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread A	A/E	124300129	Spread	H-600 Pipeline Spread A
Contractor	Precision	Report #	94		
Environmental Auditor	Danielle Payne			Date/Time	10/19/2023 11:53 AM
Wetland ID	W-J40	Crossing Start Date	10/23/2023	Crossing Completion Date	10/27/2023
Milepost	38.20	Pre-Con Assessment Date	10/17/2023	Post-Con Assessment Date	10/27/2023
Station	2016+93	Cowardin Classification	PEM	Wetland Impact Area(acres)	1.812
State	WV				
County	Lewis				

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)	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)	1		4
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.)	2		4

AFE 124300129	Date/Time 10/19/2023 11:53 AM	Report # 94
----------------------	--------------------------------------	--------------------

Additional Notes

10/23/2023
The crew removed the top 12 inches of topsoil. Topsoil was segregated from subsoil and marked accordingly. The crew began excavating the trench. One segment of pipeline was placed in the trench.

10/24/2023
The crew finished excavation and the second segment of pipeline was placed in the trench. Welding and X-RAY were completed for the first pipeline segment.


10/25/2023
Welding and X-RAY were completed for the second segment of pipeline along with coating for the first segment.

10/26/2023
Trench breakers were installed and the wetland was partially backfilled.

10/27/2023
The crew continued backfilling and placed sandbags in the trench.

10/28/2023 Post construction assessment
The top 12 inches of clean native wetland topsoil was restored to W-J40. Conditions 18 and 19 were rated "poor" due to a lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

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
Danielle Payne		ERM	10/28/2023

Required Photos		
------------------------	--	--

 <p><small>Date & Time: Tue 06/17/2023 14:11:28 EDT Position: -039.167884, -080.578069, 1316.41ft Altitude: 1100ft (=26.2ft) Datum: WGS-84 Azimuth/Bearing: 192.512W, 3413mils True (=26.6) Elevation Angle: -05.3 Horizon Angle: -00.8 Zoom: 2.0X</small></p>	 <p><small>Date & Time: Tue 06/17/2023 14:11:57 EDT Position: -039.167884, -080.578078, 1316.41ft Altitude: 1101ft (=26.2ft) Datum: WGS-84 Azimuth/Bearing: 288.588W, 1479mils True (=26.6) Elevation Angle: -03.3 Horizon Angle: -01.4 Zoom: 1.0X</small></p>
GPS Location See above photo.	GPS Location See above 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.
 <p><small>Date & Time: Sat 09/23/2023 11:53:00 EDT Position: -039.167784, -080.578069, 1316.41ft Altitude: 1059ft (=29.2ft) Datum: WGS-84 Azimuth/Bearing: 192.517W, 3582mils True (=26.6) Elevation Angle: -03.9 Horizon Angle: -00.2 Zoom: 1.0X</small></p>	 <p><small>Date & Time: Sat 09/23/2023 11:53:03 EDT Position: -039.167784, -080.578069, 1316.41ft Altitude: 1059ft (=29.2ft) Datum: WGS-84 Azimuth/Bearing: 289.517W, 5138mils True (=26.6) Elevation Angle: -03.5 Horizon Angle: -03.5 Zoom: 1.0X</small></p>
GPS Location See above photo.	GPS Location See above 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.
 <p><small>Date & Time: Mon 06/12/2023 18:02:24 EDT Position: -039.167596, -080.578005, 1316.41ft Altitude: 1144ft (=26.2ft) Datum: WGS-84 Azimuth/Bearing: 236.882W, 4071mils True (=26.6) Elevation Angle: -12.6 Horizon Angle: -01.0 Zoom: 1.0X</small></p>	 <p><small>Date & Time: Tue 06/20/2023 17:28:48 EDT Position: -039.167596, -080.577880, (Error) Altitude: 1184ft (Error) Datum: WGS-84 Azimuth/Bearing: 241.561W, 4284mils True (=26.6) Elevation Angle: -08.3 Horizon Angle: -03.6 Zoom: 1.0X</small></p>
GPS Location See above photo.	GPS Location See above photo.
Description View of area with the pipe placed within the trench.	Description View of area during construction, additional pipe had been laid down through the resource crossing.

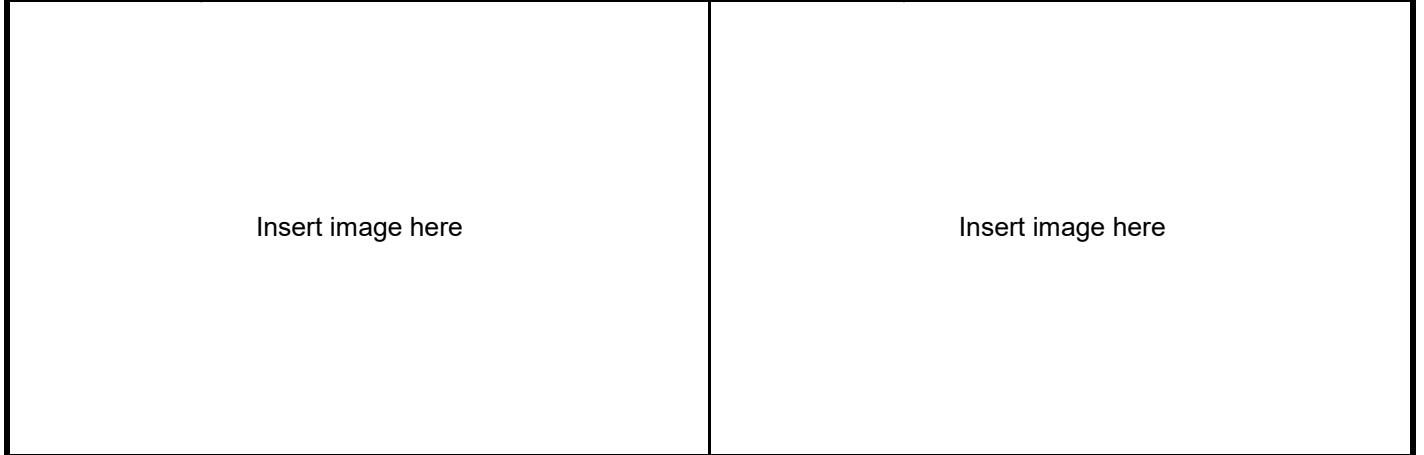
AFE	124300129	Date/Time	10/19/2023 11:53 AM	Report #	94
------------	-----------	------------------	---------------------	-----------------	----

Optional Photos



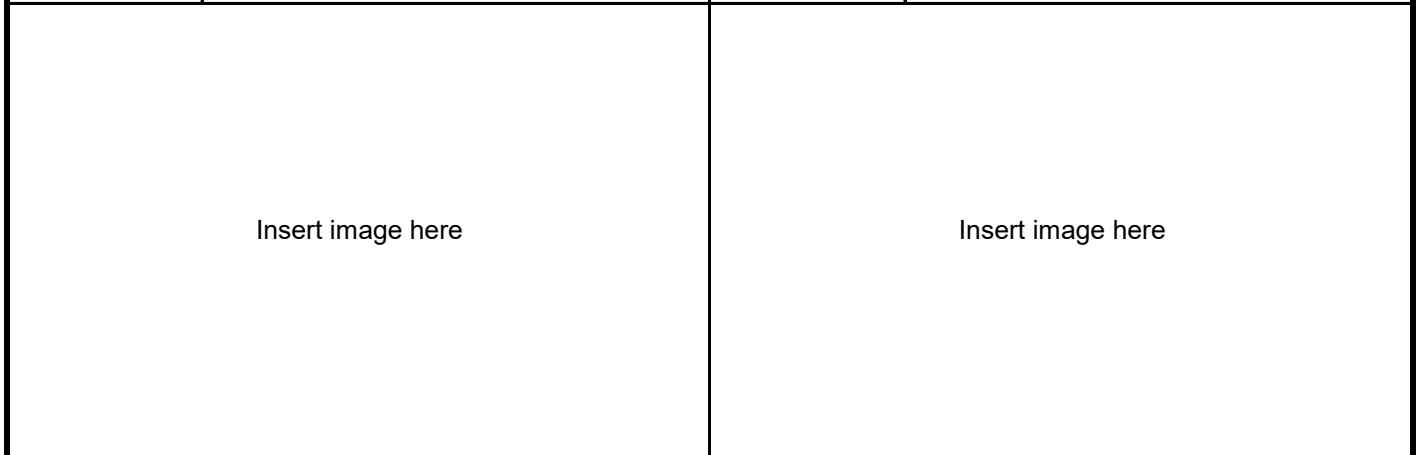
GPS Location	See above photo.	GPS Location	See above photo.
---------------------	------------------	---------------------	------------------

Description	View of pipe as construction continued.	Description	View of area while backfilling progressed.
--------------------	---	--------------------	--



GPS Location		GPS Location	
---------------------	--	---------------------	--

Description		Description	
--------------------	--	--------------------	--



GPS Location		GPS Location	
---------------------	--	---------------------	--

Description		Description	
--------------------	--	--------------------	--