



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread C	A/E	124300131	Spread	H-600 Pipeline Spread C
Contractor	Precision	Report #	144		
Environmental Auditor	Curtis Barbacci			Date/Time	11/30/2023 10:30 PM
Wetland ID	W-H75	Crossing Start Date	11/25/2023	Crossing Completion Date	12/2/2023
Milepost	88.17	Pre-Con Assessment Date	11/25/2023	Post-Con Assessment Date	12/2/2023
Station	4655+29	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.0108
State	WV				
County	Webster				

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)	2		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.)	1		4

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Additional Notes

11/25/23 - A matted travel lane was located in the wetland where the pipe is to be installed. This existing timber mat bridge was shifted over to the new travel lane location and the top 12" of wetland soils under the travel lane and along the ditch line were stripped and segregated. The soil was placed on plastic in an upland area and surrounded by silt fence to prevent soil mixing. The loose ends on the coming in side (CIS) and going away side (GAS) were excavated and exposed.

11/26/23 - Additional wetland soil from the ditch line was segregated and placed with the previous days wetland topsoil prior to excavating the ditch on the GAS of wetland W-H75.

11/27/23 – Once excavation was completed throughout the feature, the first pipe section was lowered in and welding and x-ray testing activities were completed by the end of the day on the GAS of the wetland.

11/28/23 – The final section of pipe was lowered in on the CIS of the wetland and welding activities began.

11/29/23 – Once welding was completed, x-ray, coating and the installation of cathodic protection activities were carried out for the remainder of the day.

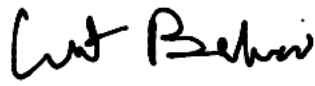
11/30/23 – Trench breakers were installed on the CIS and GAS of the wetland at station number 4655+49 and 4655+90, respectively. The pipe was padded and the trench was backfilled to within the top 12" of original grade prior to replacing the wetland topsoil in the trenched area. Survey verified the elevations and contours to pre-construction specifications and silt fence was installed on the GAS of the wetland.

12/1/23 – The timber mat travel lane was removed and the wetland topsoil in this area was replaced. Survey verified the elevations and contours to pre-construction specifications and silt fence was installed on the CIS of the wetland.

12/2/23 – The final stabilization requirements were completed and the appropriate permanent seed mix was applied to the wetland area. The buffer zones of W-H75 were seeded and stabilized with erosion control blankets.

Expanded notes: Conditions 18 and 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. The wetland topsoil was properly stabilized and the disturbed area was 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. The pre-construction condition for question 18 was given a rating of 2 due to the wetland being located within a pre-existing logging road.

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
Curtis Barbacci		SWCA	12/2/2023




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Required Photos

			
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	View of wetland topsoil stripped near centerline of ditch.	Description	View of welding activities on the GAS of W-H75.

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Optional Photos

 <p>11/30/2023 09:07:51 +38.607393,-80.504626 202° S W-H75 (Dur_CB)</p>		 <p>11/30/2023 11:17:33 +38.607060,-80.504682 40° NE W-H75 (Dur_CB)</p>	
GPS Location	See photo	GPS Location	See photo
Description	View of CIS of W-H75 trench breaker near station 4655+49.	Description	View of contractor installing padding dirt within ditch line.
 <p>11/30/2023 14:47:15 +38.607265,-80.504664 190° S W-H75 (Dur_CB)</p>		 <p>12/01/2023 11:43:07 +38.607331,-80.504830 21° N W-H75 (Dur_CB)</p>	
GPS Location	See photo	GPS Location	See photo
Description	View wetland soils being returned to W-H75.	Description	View of contractor decompacting wetland soils prior to seeding.
 <p>12/02/2023 14:28:09 +38.607385,-80.504781 250° W W-H75 (Dur_CB)</p>		 <p>12/02/2023 16:00:55 +38.607220,-80.504723 336° NW W-H75 (Post_CB)</p>	
GPS Location	See photo	GPS Location	See photo
Description	View from CIS facing towards GAS of contractor applying seed mix to W-H75.	Description	View of erosion control blanket installed adjacent to W-H75.