



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread B	A/E	124300130	Spread	H-600 Pipeline Spread B
Contractor	Precision	Report #	22		
Environmental Auditor	Mathew Huber			Date/Time	8/20/2023 7:10 AM
Wetland ID	W-VV3 PEM	Crossing Start Date	8/20/2023	Crossing Completion Date	8/27/2023
Milepost	65.62	Pre-Con Assessment Date	8/20/2023	Post-Con Assessment Date	8/27/2023
Station	3464+49	Cowardin Classification	PEM	Wetland Impact Area(acs)	0.0447
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)	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		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

Pre-construction
 Densely vegetated emergent wetland along the north bank of stream S-VV2 and adjacent to AR 27. No standing water or rocky or woody debris was observed in the wetland. Temporary bridge crossing on W-VV3 PEM runs north to south. W-VV3 PEM extends west along S-VV2 well off of LOD. - M. Huber

08/20/2023
 Weather sunny with a high of 86 degrees Fahrenheit. Wetland was successfully open cut and the top 12" of soil was segregated onto its own timber mat with erosion sock barriers to prevent mixing with other segregated soils. - M. Huber

08/21/2023
 Weather sunny with a high of 89 degrees Fahrenheit. Crew continued to dig ditch wetland crossing. - M. Huber

08/22/2023
 Weather sunny with a with a high of 82 degrees Fahrenheit. Crew finished digging the ditch and successfully installed the stream/wetland crossing section of pipe. - M. Huber

08/23/2023
 Weather sunny with a high of 87 degrees Fahrenheit. Wetland restoration did not start, work continued on associated stream (S-VV2) crossing and restoration. - M. Huber


08/24/2023
 Todays weather was sunny with a high of 86 degrees Fahrenheit. Wetland restoration did not start, work continued on associated stream (S-VV2) crossing and restoration. - M. Huber

08/25/2023
 Todays weather included thunderstorms with a high of 84 degrees Fahrenheit. Due to rain, all restoration activities were suspended. - M. Huber

08/26/2023
 Todays weather was sunny with a high of 84 degrees Fahrenheit. Wetland restoration began but is not yet complete. A portion of wetland topsoil was backfilled today. - M. Huber

08/27/2023 Post-construction assessment
 Todays weather was sunny with a high off 82 degrees Fahrenheit. Wetland restoration was completed. Conditions 18 and 19 were given a rating of 4 during the post-construction assessment due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The W-VV3 PEM wetland topsoils have been properly stabilized and 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. - A. Dunn

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.

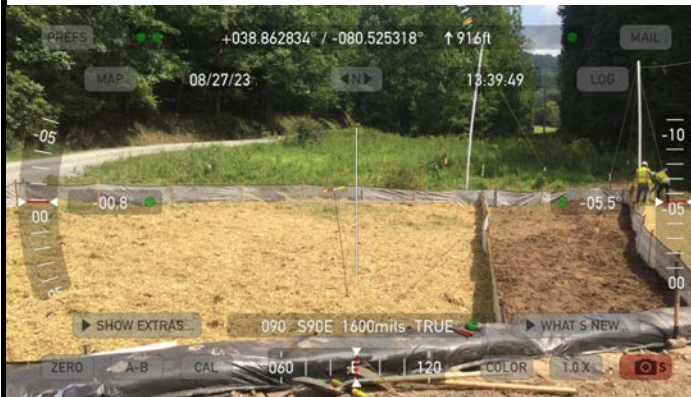
Name	Signature	Company	Date
Mathew Huber		ERM	8/29/2023

Required Photos



GPS Location See Photograph.
Description View of permitted resource impact area during pre-construction assessment.

GPS Location See Photograph.
Description At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



GPS Location See Photograph.
Description View of permitted resource impact area during post-construction assessment.

GPS Location See Photograph.
Description At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



GPS Location See Photograph
Description Wetland crossing at end of day 08/21/2023

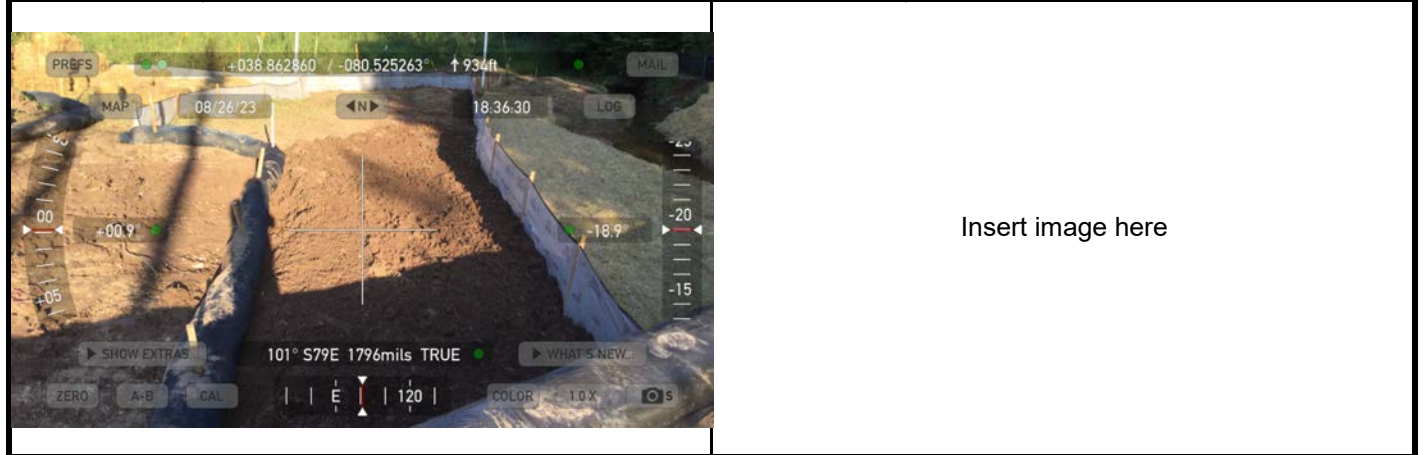
GPS Location See Photograph
Description Wetland crossing at end of day 08/22/2023

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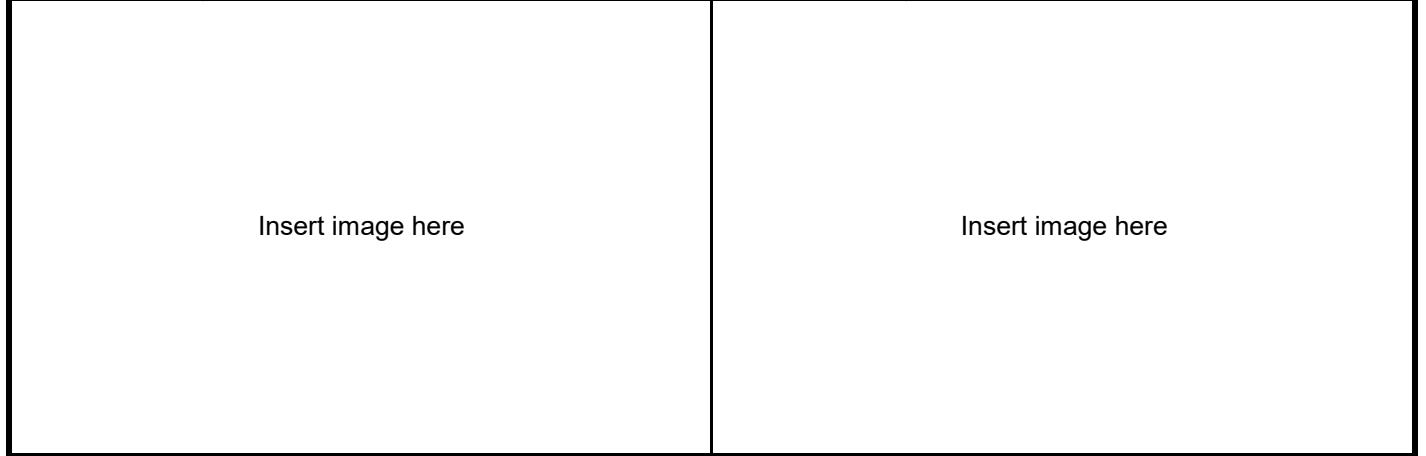
Optional Photos



GPS Location	See Photograph.	GPS Location	See Photograph
Description	Wetland crossing at end of day 08/23/2023	Description	Wetland crossing at end of day 08/24/2023



GPS Location	See Photograph	GPS Location	
Description	Wetland crossing at end of day 08/26/2023	Description	



GPS Location		GPS Location	
Description		Description	