Mountain Valley PIPELINE LE Stream Biological Conditions EA Report																
Pr	Project Name H-600 Pipeline Spread F AFE 124300135 Spread H-600 Pipel						peline	e Spread F								
	Contractor Price Gregory Report # 327															
Environ	Environmental Auditor Charles Haden Date/Time 10/30/2023 8							23 8:2	28 AM							
Stream ID S-A63				Crossing Start Date 10/30/2023 Crossing Comple						plet	ion Dat	on Date 11/4/2023				
Milepost 182.51				Pre-Con Assessment Date 10/30/2023 Post-Con Assessment Date 11						e 11/	4/2023					
Station 9636+50				Bankfull Width (ft.) 8.7 Riffle:Pool Complexes Presen					?	No						
State WV				Strea	ım Clas	sification	n	Peren	nial	!						
County Monroe				303(d) Impairment Listing No												
Resource Post-Crossing Conditions																
1	Were a	ıll appl	icable reso	ourc	e specif	fic cross	sing cond	litions	s satis	fied?						N/A
ı	Time o	Time of Year Restrictions (TOYR)? N/A Mussel Relocation? N/A														
2	This qu	This question is not applicable in WV.														
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump Flume Cofferdam Conventional Bore Horizontal Directional Drill (HDD) Bore															
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?							Yes								
5	Was excess material not needed for backfill removed and disposed of in an upland area?							N/A								
6	Was the top 12-inches of backfill made with clean native stream substrate?							Yes								
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre-construction contours?						Yes									
8	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?							No								
9	Were impervious trench breakers/plugs properly installed within 25-feet of top-of-bank to prevent subsurface erosion to or from the resource area?							Yes								
10	Was permanent seed and stabilization material (straw or matting) applied to riparian areas and stream banks prior to re-establishing flow to the impact area of the channel?						Yes									
11	Was the time of disturbance minimized by conducting resource work continuously to completion?						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	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 - 4/30)?							N/A								
14	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									
15	Predom (<0.1"), N			Туре	e (select	one):Be	drock, Bou	ulder (>10"), C	Cobble (2-	·10"), Gr	avel (0.1-2"),	San	d Cob (2-1		Cobble (2-10")
16	Channel Conditions:Rating: 1-Optimal (80-100% stable banks), 2-Sub-optimal (60-80% stable banks), 3-Marginal (40-60% stable banks), 4-Poor (20-40% stable banks), 5-Severe (0-20% stable banks, highly eroded or unvegetated banks						2									
17	Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank: Rating: 1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetated coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetated coverage, etc.)						4									

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AFE	124300135 Date/Time		10/30/2023 8:28 AM	Report	# 327	327	
	Biological Co	nditions Co	ntinued		Pre-Con	Post-Con	
18	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities & depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, Varied combination of water velocities, submerged aquatic vegetation Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)					3	
19	Channel Alterations: Examples: Straighte along banks, concrete/gabions/concrete block, r agricultural impacts Rating: 1-Negligible (unalte channel alterations), 3-Moderate (40-80% of	nanmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	ivestock or rupted by	1	2	

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 10/26/2023

- 15. Cobble/gravel was dominant substrate noted with some fine gravel, sand and loam observed.
- 16. Small amount of bank erosion observed on LDB and near timber mat bridge.
- 17. Riparian buffer vegetation has been trimmed/mowed.
- 18. Stream was dry during assessment.

Travel lane not included in assessment.

10/302023 - Top 12" of stream substrate removed (Photo 1), separated and stored in an adjacent upland area (Photo 2). Top 12" of riparian buffer topsoil also removed, separated and stored in adjacent upland area. US and DS dams completed. Using flume unless stream flow changes (No Flow). Excavation of trench through aquatic resource (Photo 3 and 4).

10/31/2023 - Excavation continued on trench outside of resource area. Welding ongoing outside of trench and resource area. Trench box inserted in trench. (No Flow)

11/1/23 - Pipe placed in trench through resource area. Welding occurred within trench but outside of resource (tie-in). (No Flow)

11/2/23 - X-ray, sandblasting, and coating ongoing. Added pipe wrap/rock shield to pipe in trench. Started backfilling trench. (No Flow)

11/3/23 - Backfilling of trench. Construction of trench breakers. Dams removed (dry stream). Survey onsite, staked out stream (Photo 5). Topsoil added to buffer around stream. Stream contouring based on survey data. Survey check elevation.

11/4/23 - Final topsoil and substrate added to resource area (Photo 6). Additional contouring completed. Laborers started raking topsoil to prep for seed and curlex. Topsoil and substrate restoration complete (Photo 7). Added P1 back on outskirts of SA63 buffer. Seeded and curlex buffer around stream. Restoration complete.

Post Construction Notes

- 16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded.
- 18. Stream was dry during assessment.
- 19. Does not include timber mats that remain in place for travel lane.

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	
Charles Haden	July OBa	Potesta & Associates	11/6/2023	

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