Mountain Valley Stream Biological Conditions EA Report														
Project Name H-600 Pipeline			eline	e Spread F <b>AFE</b> 124300135			ō	Spread	H-6	H-600 Pipeline Spread F				
Contractor Price Gregory				•				Report #	301					
Enviror	Environmental Auditor Kristin Duty  Date/Time 10/22/2023 8						22/2023 8:5	59 PM						
Stream ID S-J13(1)				Crossing Start Date 10/24/2023 Crossing Completion Date 11						n Date 11/4	4/2023			
Milepost 160.63				Pre-Con Assessment Date 10/23/2023			Post-Con Assessment Date 11/4			4/2023				
S	Station	8481+26			Bankfull Width (ft.)		5.3		Riffle:Pool Complexes P		es Pr	resent?	No	
	State	WV			Stream Classification Ephemeral					<u> </u>				
С	County	Summe	ers		303(d) li	Impairment Listing None								
Resource Post-Crossing Conditions														
1	Were a	all app	licable res	sourc	ce specific	crossing cond	ition	s sa	itisfied?					N/A
1	Time o	f Year	Restrictio	ons (	(TOYR)?	N/A Musse	l Re	loca	ation? N	<u>′A</u>				
2	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													
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?						Yes							
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								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							
						gical Condition							Pre-Con	Post-Con
15	<b>Predon</b> (<0.1"), I			Тур	e (select o	ne):Bedrock, Bou	lder (	>10"	), Cobble (2-	-10"), Gra	avel (0.1-2"), Sai	nd	Cobble (2-10")	Cobble (2-10")
16	Marginal unvegeta	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						5						
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	10/22/2023 8:59 PM	Report	# 301	<sup>1</sup> 301	
	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)					4	
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	manmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	vestock or rupted by	1	1	

## **Additional Notes**

**Pre-Construction Notes** 

Pre-Construction Meeting: 10/21/2023

\*Bankfull Width measured at OHWM stakes within proposed trench area.

16. Stream entrenched.

10/23/2023 - survey staked centerline through aquatic resource. On work in resource.

10/24/2023 - Dam for pump-around installed. First 12 inches of stream substrate removed (Photo 1) and segregated. Excavation and hammering of trench in resource initiated (Photo 2).

10/25/2023 - Continued hammering in resource. Staging of pipe outside of resource.

10/26/2023 - Continued hammering in resource (Photo 3). Pumping ongoing in intervals. Site prepped for blasting. Blasting completed.

10/27/2023 - Excavation of material from trench. Additional hammering in resource area. Padding added to trench (Photo 4). Pump in resource area replaced.

10/28/2023 - Pumping water from trench. Placed pipe in trench (Photo 5). Began welding. X-ray completed.

10/30/2023 - Welding completed in trench. Additional padding added to trench. Trench breakers installed in alternative approved locations.

10/31/2023 - Welding, x-ray, sandblasting, and coating ongoing in trench outside resource area. (Rain)

11/01/2023 - Trench breaks constructed on each side of the aquatic resource (Photo 6). Backfilling in resource. Subsoil restored. Survey onsite. Measurements must be redone. Flume placed across trench. (Snow)

11/2/2023 - Flume removed and dam rebuilt. Survey reshot and staked resource (Photo 7). Topsoil and substrate restored in aquatic resource area (Photo 8).

11/4/2023 - Survey reshot elevations after work being done in the 10-foot buffer and below OHWM.

## Post Construction Notes

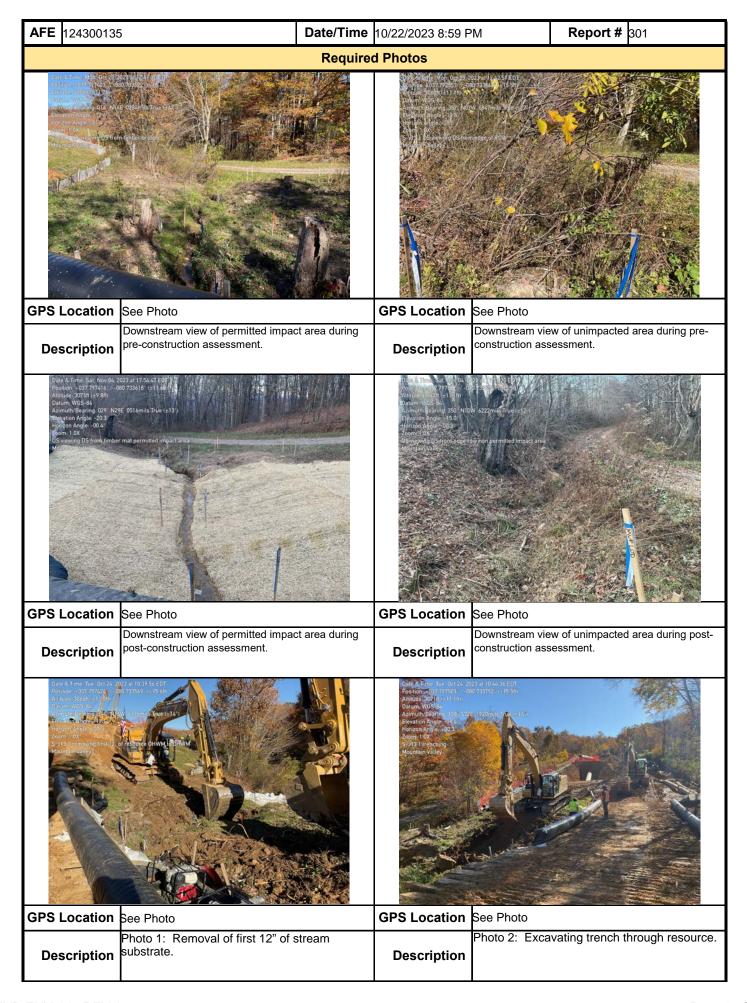
16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded.

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
Kristin Duty	Krosta Duty	Potesta	11/5/2023

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