4	Moı	unta V	ain /alley			Strea	am Bi	olo	gi	cal Co	ndit	ions E	Α	Repo	rt	
Project Name H-600 Pipeline				eline	e Spread E AFE 124300134			Sprea	ad	H-600 Pipeline Spread E						
	Contractor Price Gregory Report # 243					243										
Environ	nvironmental Auditor Tim Ferguson Date/Time 9/20/2023 9:17									AM						
Stream ID S-L10					Crossing Start Date 9/20/2023 Crossing Completion Date						9/28	/2023				
Mil	Milepost 148.46				Pre-Con Assessment Date 9/20/2023				Post-	Post-Con Assessment Date 9/2			9/28	/2023		
s	Station 7838+73		' 3		Bankfull Width (ft.) 5.8				Riffle:Pool Complexes Present?				No			
	State WV				Str	eam Cla	ssification	on	Per	ennial						
С	ounty	Greenb	orier		303(d) Impa	irment Li	sting	No							
Resource Post-Crossing Conditions																
1	Were	all app	licable res	our	ce spe	cific cro	ssing con	dition	s sa	atisfied?					Ş	See Below
'	Time o	Time of Year Restrictions (TOYR)? Yes Mussel Relocation? No														
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 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?							s	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)?							No								
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		ninant Mud/Silt		Тур	oe (sele	ect one):	Bedrock, Bo	ulder (>10"), Cobble (2-	-10"), Gra	avel (0.1-2"),	Sand	d Mud/Silt ay	/CI	Mud/Silt/Cl ay
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								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	124300134 Date		9/20/2023 9:17 AM	Report	# 243	243	
	Pre-Con	Post-Con					
18	Instream Habitat Conditions: Examples: depths, presence of woody/leafy debris, stable su shade protection, undercut banks, root mats, Var vegetation Rating: 1-Optimal (Habitat conditions 30-50% of resource), 3-Marginal (Habitat condition of resource)	eddedness, ic onditions in	3	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	ivestock or rupted by	2	4	

Additional Notes

Pre-Construction Notes

*Bankfull width measured at OHWM stakes within proposed trench area.

Pre-Construction Meeting - 9/18/2023 @ 1130

Pre-Construction Assessment Completed (9/20/2023)

Minor flow present in S-L10; travel lane was not included in assessment.

MVP has a waiver for working in streams during the fall spawning season.

Expanded notes for question 1: Stream S-L10 has a time of year restriction (TOYR) prohibiting construction between Sept. 15th to March 31st. A waiver has been obtained from the appropriate agencies to allow construction within this window.

Day 1 (9/20/2023)

Dam and pumps put in place. Stream substrate removed (Photo 1) and segregated in an upland area (Photo 2).

Day 2 (9/21/2023)

Drilling and blasting occurred in and around the aquatic resources. Blasting mats were utilized. Trench excavation (Photo 3) and dewatering occurred post blasting.

Day 3 (9/22/2023)

Trench work in resource and pumping from trench on-going. Pipe placed into the trench (Photo 4) and welding outside of the resource occurred.

Day 4 (9/23/2023)

X-ray completed on pipe. Survey work on alignment completed and adjustments made. Excavation of trench ongoing outside of resource.

Day 5 and Day 6 (9/25/2023 and 9/25/2023))

Trenching continued outside resource area. Other activities include pumping from the trench, coating, and welding. X-ray was completed on Day 6.

Day 7 (9/27/2023)

Filling of trench and installing trench breakers (Photo 5).

Day 8 (9/28/2023)

Trench at aquatic resources filled (Photo 6). Survey marked resource. Elevations set and substrate elevations in resource confirmed by survey. Dams removed. Banks seeded and Curlex put in place (Photo 7). Post Construction Assessment Completed.

Post Construction Notes

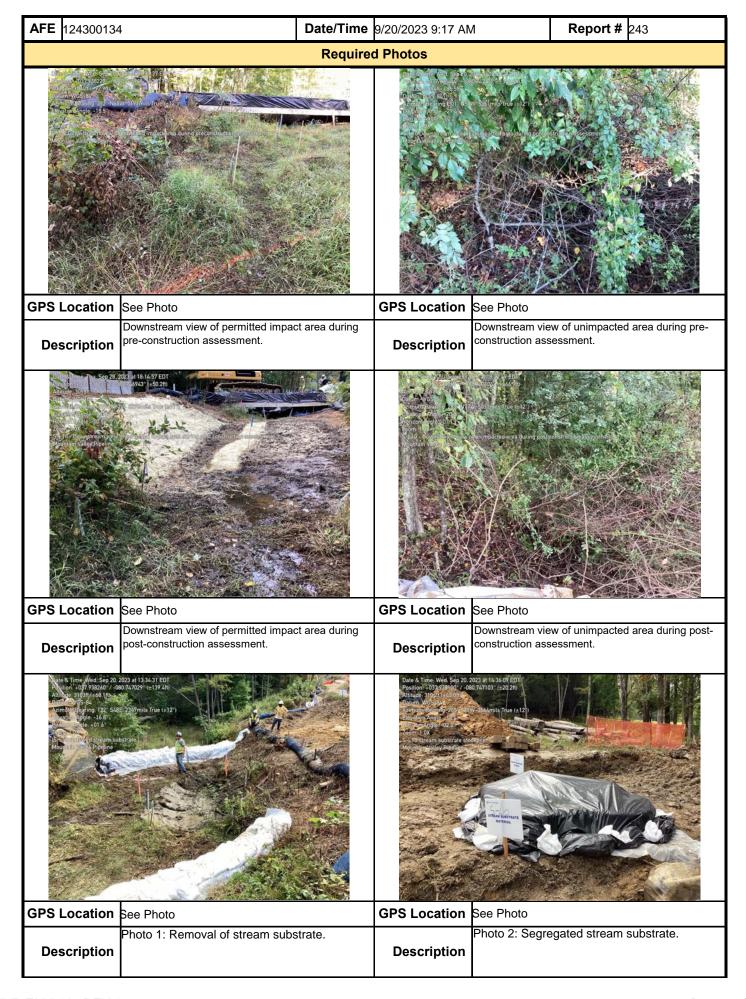
16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that no not have 80% vegetative cover within 30 days will be reseeded.

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
Tim Ferguson	Fufy	Potesta &Associates, Inc.	9/28/2023

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