Stream Biological Conditions EA Report									rt	
Project Name H-600 Pipeline			Spread F AFE 124300135			5	Spread	H-600 Pipe	line Spread F	
Contractor Price Gregory		Price Gregory			•		Report #	305		
Enviro	nvironmental Auditor Luke Fultz Date/Time 10/23/2023 11						11:15 AM			
Stream ID S-K19			Crossing Start Date 11/9/2023 Crossin				sing Completion Date 11/17/20			
Milepost 155.19			Pre-Con Assessment Da	ment Date 10/26/2023 Post			Con Assessr	11/17/2023		
Station 8194+28		28	Bankfull Width (ft.)	2.0 Riffle:Pool Complexes Present?		No			
	State WV		Stream Classification		Perennial	J				
C	County Greenb	orier	303(d) Impairment Listi	ng	No					
	-1		Resource Post-Cre	_		ns				
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				N/A	
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location?N/	A				
2	This questior	n is not applic	cable in WV.							
3	Which crossin Dam & Pump		re utilized during the stream concerned of the stream convention of the				or more) irectional Drill	(HDD) Bore		
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?							Yes		
5							Yes			
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?						am 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)?						P 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				
	L		Biological Condition					Pre-C		
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay				t/Cl 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 1					1				
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.)					3				

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	Biol	ogical Conditions Continued		Pre-Con	Post-Con					
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, ro vegetation Rating: 1-Optimal (Habitat 30-50% of resource), 3-Marginal (Hab of resource)	2	3							
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	2	2							
	Additional Notes									
Pre-Co 18. Lov 19. Ag. Timber 11/9/20 substra 11/10/2 (Photo trench connec 11/14/2 aquatic	livestock, mowing, previously contract present. 223 - Reviewed Pre-Construction ate (Photo 1) and segregated in up 2023 -11/11/2023 - No work in res 2023 - Timber mats put in place to 2). Pumped water from trench in (Photo 3). Pipe placed in trench to tion outside of aquatic resource a 2023 - Pumping water from trench c resource area (Photo 5). Began 2023 - Pumping water from trench	Assessment completed on 10/26/2023. bland area. Installed flume. Work ongoi ource. Work ongoing at other locations begin excavation of aquatic resource. If aquatic resource area and then repeated hrough aquatic resource area and prepa rea.	No changes observed. Excang at other locations at this sit at this site. Excavation of trench through a d as needed. Sandbags for pa ared for welding (Photo 4). We of trench breaker on the south	te. aquatic reso adding add elding and b hern side of	ource ed in k-ray of					
aquatic pre-res	11/16/2023 - Pumping water from trench in aquatic resource area. Construction of trench breaker on the northern side of the aquatic resource area (Photo 6). Continued backfilling subsoils in aquatic resource area (Photo 7). Survey onsite shooting pre-restoration soil levels. Stream substrate restored. Riparian buffer is W-K9-PEM-1. This area was also restored. Seeding completed and jute added. Reseeding completed. Final check and assessment to be completed in the morning when visibility is better.									
11/17/2	11/17/2023 - Site evaluated to determine if restoration is complete. 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 coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. 18. Low score due to lack of instream variability and poor substrate characteristics. 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	Da	ite					
Luke Fi	ultz	Stike Stills	Potesta	11/17/	/2023					

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Required Photos						
Elevator Angle - 227 Horizon Angle - 227 Johns - 921 S-419 Di Portanovanov S-419 Di Portanovanova		K		and the second sec		
GPS Location			GPS Location			
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass		d area during pre-
			n d raf i tide 2 m m Bear distriction and distriction and dist			
GPS Location	See Photo		GPS Location			
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream vie construction ass		d area during post-
State & there are the production of the contract of the contra	en el el terrer munat		Andre 2451 mar in the second s	state (Carlos e sub E 2400mis tree e la s valan al subsol in resource de		
GPS Location			GPS Location			
Description	Photo 1: Removing stream subst	rate.	Description	Photo 2: Excav resource area.		nrough aquatic

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		al Photos				
Date & Time Mon Novi 2 Position - 407 80039 /	BOSSING SECOND		Odde Strang Men Work to the Position registering of the Alfride 25771 (3576) Admitted 25771 (3576) Elevation Angle - 167 Horizon Angle - 167 Srk19 &W-K9-PEM-1 Prep. MP			
GPS Location			GPS Location			
Description	Photo 3: Adding sandbag padding resource area.	g in aquatic	Description	Photo 4: Lower aquatic resourc welding.	ing pipe into tr e area and pre	ench through eparing for
Allicen 1037 80041 for Allicule 24411 1423 250 Datum: WSS-84 Azimuth/Bearing 160 552 Elevation Angle: 021 Zoom 05X S-K193 W-K040EPI-1Con WP	and and an and a second and a		Parton 402 2010, 40 Anthoe 26041 ac the Figure WS 84 Azimute Gearing 149 531 Elevision Angle 2-03 Horizon Angle -008 Zom 05X S-K19 & W 10 Figure 149 NoP	122 at 11 67/28/51 005/88/8 (c96 0m) E 2607mite True (±151) In penner möthilt		
GPS Location	See Photo		GPS Location	See Photo		
Description	Photo 5: Construction of trench b southern side of aquatic resource			Photo 6: Const northern side o		ch breaker on the urce area.
Position - 037 661020 - 0 Attitude 2668h - 51 Atti Datum WoSse. Azimuth Bearing 205 - 52 Revation Angle - 14 Horizon Angle - 10 7 Zeam 6 53, 4	All log ub sol dt			Insert ima	age here	
GPS Location	See Photo		GPS Location			
Description	Photo 7: Backfilling of trench in ad resource area.	quatic	Description			