	Mounta	ain /alley	Stream Biol	0	gical Co	ndit	ions EA	Repo	ort		
Р	roject Name	H-600 Pipelin	e Spread E AFE 1243001			1	Spread	H-600 Pip	eline	e Spread E	
	Contractor	Price Gregory					Report #	275			
Enviro	nvironmental Auditor Allyson Kincaid Date/Time 10/2/2023 10:2							27 AM			
Stre	eam ID <sub>S-H71</sub>		Crossing Start Da	Crossing Start Date 10/2/2023 Crossing Completi				tion Date	on Date 10/19/2023		
Mi	ilepost 131.49		Pre-Con Assessment Da	10/2/2023	Post-	Con Assess	nent Date 10/19/2023				
S	Station 6942+6	7	Bankfull Width (ft.)		9.3	Riffle:F	fle:Pool Complexes Present?			No	
	State WV		Stream Classification		Perennial						
C	County Nichola	IS	303(d) Impairment Listi	ng	No						
	-		Resource Post-Cro	oss	ing Conditio	ons					
1	Were all appl	licable resou	rce specific crossing conditi	ons	s satisfied?					See Below	
I	Time of Year	Restrictions	(TOYR)? <u>Yes</u> Mussel	Re	location? <u>N</u>	Ά					
2	This question	is not applic	cable in WV.								
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump X 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?								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?							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								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				
								Post-Con			
15	Predominant Substrate Type (select one): Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1")						Sand (<0.1")				
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							3			
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			

AFE	124300134	00134   Date/Time   10/2/2023 10:27 AM   Report							
Biological Conditions Continued								Post-Con	
18	<b>Instream Habitat Conditions:</b> 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), 4-Poor (Habitat conditions in 0-10% of resource)							3	
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	vestock or upted by	1	3					
			Addition	al Notes					
Pre-Co S-H71 Bankfu	onstruction Notes onstruction Meeting substrate consists of sand and sil II width obtained in the field. r dam located in LOD.	t with some	large pieces o	of cobble. Silt s	and dominant.				
to exist	10/2/2023 - Dams put in place in S-H71 for pumping around system to maintain flow in the stream outside LOD to prevent damage to existing beaver dam. Water running clear in this system once stabilized. Substrate removed (Photo 1) and segregated in an upland area (Photo 2).								
placed	10/3/2023-10/4/2023 - Drilling occurring in and around resource in preparation for blasting for the next two days. Geo-tarp was placed on upstream edge of timber mat bridge to prevent any blowback from enter downstream area of stream. Dynamite was placed into holes and first series of blasted occurred (10/4/2023).								
	10/5/2023 - Placing dynamite on slope outside of resource area. Blasting occurred. Preparation for trenching the following day. Done drilling. Mats placed prior to blasting. Pump around system for S-H71 replaced.								
	10/6/2023-10/7/2023 - Excavation of trench and hammering in trench in and outside resource area (Photos 3 and 4). Mats utilized to prevent compaction. Pumping of S-H71 ongoing. Pumping of trench into dewatering structure.								
	10/9/2023 - Welding outside of resource area on-going. Padding placed in trench (Photo 5). Pipe lowered into trench in resource area (Photo 6). Pumping of S-H71 ongoing. Pumping of trench into dewatering structure.								
and sa the trei	10/10/2023-10/16/2023 - Work on-going outside of the resource area including blasting, excavating in the trench, welding, x-ray, and sandblasting. Building of trench breaker directly outside of resource area (10/10/2023 and 10/14/2023). Padding dirt added to the trench. River weights placed in resource area (Photo 7) (10/14/2023). Backfilling of resource area (10/16/2023). Pumping of S-H71 ongoing. Pumping of trench into dewatering structure. Heavy rain occurred on 10/14/2023.								
10/17/2023 - Light rain. Continued to fill trench. Survey onsite, begin to contour stream. Pumping of S-H71 ongoing.									
10/18/2023-10/19/2023 - Stream contouring and stream substrate replaced (Photo 8). Dams and pump removed. Stream flowing. Seeding completed. Topsoil placed along right and left descending banks. Curlex and jute matting put along slopes. Beaver dam remained intact.									
Post Construction Notes 1. S-H71 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. 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	y	Da	ate	
Allyson	Kincaid		de la	2	POTESTA		10/19	/2023	

AFE	124300134	00134 Date/T		10/2/2023 10:27 A	M Report # 275				
	Required Photos								
			105						
GPS L	Location			GPS Location					
Des	scription	Downstream view of permitted impac pre-construction assessment.	t area during	Description	Downstream view of unimpacted area during pre- construction assessment.				
	data di la construcción de la co	Tenning respected struction		Position 0188 (2007 + 0.0 d) en Attitude 2000 + 0.0 d) en Advantis 2000 + 0.0 d) en Advantis Resing (20) 550 Elevation Angle - 185 Honor and the Resing (20) -	D22 41 60932 EDT B1785492 (±20 77) E (2130mite True (±27)) http://www.hasiline.org//www.hasiline				
GPS I	Location			GPS Location					
Des	scription	Downstream view of permitted impact post-construction assessment.	et area during	Description	Downstream view of unimpacted area during post- construction assessment.				
		223 at 113 9 EDT 10 735 688° (£43 21)		And Code and Andread Andre Andread Andread And	D23 46/25 46 201 B023 5046* (= (7.56)) #- (0.52)/milet True (= 12.7)				
GPS I	Location	See Photo		GPS Location	See Photo				
Des	scription	Photo 1: Removal of stream subs	strate	Description	Photo 2: Stream substrate and topsoil isolated outside of resource area.				

AFE 124300134	E 124300134 Date/Time			M Re	eport #	275		
		Optional	I Photos					
Date & Time Ser 2 Octobe 20 Position 1938 (124/30 s.D Altitude 2531) (425 octobe January 1995 ale Agrimph Brennin 2771 s.3 Elevation Angels: d.d Horzen Andelsen d.d Horzen Andelsen d.d Horzen Angelsen d.d Horzen d		OCCORTER OCCORTER OFFERSION	Generation 1995 and Alfides 2391 (Free Datum W6-84) Autor 2391 (Free Elevation Angle - 0.6 Horzon Angle - 0.6 Zaom - 194 Caron - 194 Horzon Angle - 0.6 Horzon Angle	Tired				
GPS Location			GPS Location					
Description	Photo 3: Begin trenching in resou	irce area.	Description	Photo 4: Trench thro	ough reso	urce area.		
Dale & Time Mort Oct 02 . Poblicity 438 12439 / DO Ahritude 236711 [1857] Dalum: WOS-84. Asimuth/Bearing 219 538 Elevation Angle - 11.8 Fortzof Angler - 02 . Zoom :LOX S-471 XM-1632 one bits of devation Value internet Control of the control of the con	80 75 57 48 ° (41 47 41) W Bultzuman (unu 1 17) ap.at:		Date & Jime Mon. Oct 09: 2 Position, 2088 (2452), 100 Alhoudo 2988 (2462), 100 Albudo 2988 (2462), 100 Albudo 2988 (2462), 100 Albudo Angle: -03 Herizon Angle: -03 Herizon Angle: -03 S-H713V-H33 pipe being b Mojahahi Valloy Pinciaco Observatori					
GPS Location			GPS Location					
Description	Photo 5: Padding placed in trencl	h.	Description	Photo 6: Placing pip	be in reso	urce area.		
Die Time Sat Die 420 Pention -008 12446 Die Aglindie 29241 (1998 m. Distum WGS-64 Bewalen Angle-67 mit Hohzen Vonle -003 Zom 108 Si-1771 WAR3s nerwengen b Mountain Watter Bigline			Duris 2 mm Well Der 16 2 Pöddion 1038 19207 / 100 Alfitude 23981 Error Datum W65-84 Adright Bearing 2020 540 Europhinempion 1030 Prefacing in 2020 540 Prefacing in 2020 540 Pre					
GPS Location		te in recourse	GPS Location		troom out	strate		
	Photo 7: Placement of river weigh area.	IIS III TESOUICE	Description	Photo 8: Restoring s	ueam sut	วรแลเย.		