		Stream Biol	<b>O</b>	gical Co	ndit	ions EA	Report	:
P	roject Name H-600 Pipeline	Spread F AFE 124300135			Spread	H-600 Pipelin	e Spread F	
	Contractor Price Gregory			-		Report #	476	
Enviro	Invironmental Auditor Charles Haden Date/Time 1/2/2024 11:10							0 AM
Stre	eam IDS-E40	Crossing Start Da	Crossing Start Date 1/3/2024 Crossing Completion Date				tion Date 1/1	5/2024
Mi	ilepost 192.20	Pre-Con Assessment Da	ate 1/2/2024 Post-Con Assessment Date 1			5/2024		
S	Station 10148+20	Bankfull Width (	ft.)	11.5	Riffle:Pool Complexes Present?			No
	State₩V	Stream Classification		Perennial			,	
C	County Monroe	303(d) Impairment Listi	ng	Fecal, Biologic	al, Iron			
		Resource Post-Cro	-	-				
1	Were all applicable resour	rce specific crossing conditi	ons	s satisfied?				N/A
	Time of Year Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location? <u>N</u>	Α			
2	This question is not applic	able in WV.						
3	Which crossing methods we Dam & Pump X Flume	re utilized during the stream c Cofferdam Convention				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	Was excess material not	needed for backfill removed	l ar	nd disposed o	f 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 sbanks prior to re-establishing flow to the impact area of the channel?						See Below	
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		
							Post-Con	
15	Predominant Substrate Ty (<0.1"), Mud/Silt/Clay	pe (select one):Bedrock, Bould	er (>	>10"), Cobble (2-	10"), Gra	avel (0.1-2"), Sar	nd Cobble (2-10")	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 2   unvegetated banks 2						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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	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 (Habita 30-50% of resource), 3-Marginal (Ha of resource)	dedness, ditions in	1	1					
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	stock or oted by	1	1					
Additional Notes									
Pre-Cc 15. Pre- 16. Ov and lim 17. Rip The co 1/3/202 12" of s ripariar througi 1/4/202 Placed 1/5/202 (Photo 1/6/202 1/7/202 ECDs : 1/8/202 1/10/202 in aqua 1/10/202 in aqua 1/10/202 in aqua 1/10/202 in aqua 1/10/202 in aqua 1/11/202 River v 1/13/202 in acco Framev resource resource resource	erall banks are stable within the L nited vegetative coverage. Darian zone on both sides of resou- onfluence with S-E41 occurs on the 24 - Installed pump-around system substrate excavated (Photo 1) and in topsoil piles were segregated are h aquatic resource and adjacent r 24 - Addressed seepage around L I blasting mats. Stopped pumps. 24 - Frosty conditions. Pump-around 24 - Rain out. Pump-around system and other structures. Added pump 24 - Continued site cleanup from f I weld. X-rayed. Prepped site for se 24 - Site flooded during storm. V atic resource or in trench outside of 024 - Water actively being pumpe ed, and added rock guard. Surve 024 - Water actively being pumpe weights added to trench. Site prep 024 - Pump-around system in use in aquatic resource area with sub 024 - Finished backfilling trench ir shot elevations (Photo 8). Remo 024 - Completed adding curlex to uses. Construction Notes ermanent seed was applied after f r weather conditions and concerns Crossing and riparian areas hav uchieved and areas that do not har es not include timber mats that re	vel with some sand and fine gravel. ( OD; however, there is a ~15' section urce is mowed/maintained agricultura e ROW near the pipeline centerline. In including the placement of road plat d stored in an upland area on coming ind stored properly. Rebuilt upstream iparian buffers. JS dam. Pump-around system in us Blasted. Removed blasting mats an und system in use. Excavated trenc quatic resource area (Photo 5). Mac em in use. Checked and photograph ound system in use. Trench full of w os. Welded outside of aquatic resource fooding event. Pump-around system in use. Water pumped from trench. Pump-a of aquatic resource area. d from trench. Pump-around system y onsite. d from trench. Pump-around system y onsite. constructed trench breakers (Phor soil. n aquatic resource area. Contoured a wed plates. Seeded*. Added curlex 10-foot buffer and removed sandbag	on left descending bank I field. Timber mat bridge in place tes and sanbags both up pin side (northern). Check dam due to seepage. Dr e. Continued to drill (Phot d restarted pumps. In (Photo 3). Placed sand le cut. Aligned pipe and b ned aquatic resource. ater. Actively pumping w ce area. X-rayed. In in use. Lined up pipe for round system in use. Ge in use. River weights re in use. Rain/Hail. Surve to 6). Backfilled trench with subsoil (Photo 7). Added o a portion of buffer. s from backs of channel a ea of the channel. This w as will be monitored until anys will be reseeded.	with near ce. ostream a cked streat rilled and to 2) and dbags into began we vater from or welding eneral site emoved. S ey onsite th paddin topsoil to as well as vas done 80% vege	r vertical b nd downst im substrat prepped fo prepare fo o trench for ld. n trench. Re g, made cu e clean-up. Sandblaste checking e g dirt. Bac buffers. S s other equ out of sequ etative cov	ank angles ream. Top te and or blasting r blasting epaired at and No work d, jeeped, elevations. ckfilled urvey uipment uence due rer has			
	Name	Signature	Company		Da	ate			
Charles	s Haden	Checks Hoden	Potesta			2024			

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	Rec			lired Photos				
Cased	A VICE 3: IN VICE 3: IN VICE 4: IN VICE 4: IN VICE 4: IN VICE 4: IN VICE 4: IN VICE 4: I			Date & Time- by Jan 02 20 Postion - 2020/00164 20 Bitter (1998) - 2010 Datum WG-2011 Bitter (1998) - 2010 Bitter (				
GPS L	ocation	See Photo		GPS Location	See Photo			
Dese	cription	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass		d area during pre-	
Abrum Artuur Elevat Horizo Zomu Mouot	n mo o 30% 4000 S N lei 197711 ( 44 S) MOS-44 uht (Bearon : 54 Mo Ion Angle : 2008 - 2006 - 2007 Hone S A Sector ( from US and Tain Volky Pipeline ;	9 R DV		Dependence of the second				
GPS L	ocation	See Photo		<b>GPS</b> Location	See Photo			
Dese	cription	Downstream view of permitted impace post-construction assessment.	ct area during	Description	Downstream vie construction ass		d area during post-	
Positir Attud Datum Armu Elecal Rente Rente MVP	A me way have on easy load of the rest state way have the hold of the way have the hold of the hold of	Provide the set of the		Gres Location				
GP3 L		See Photo Photo 1: Excavation of top 12 inc	thes of		See Photo Photo 2: Contir	nuing to drill to	prepare for	
Dese	cription	substrate.		Description	blasting in aqua	atic resource a	area.	

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• •		Optional	Photos		
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GPS Location			GPS Location		
Description	Photo 3: Excavating trench in aqu area.	uatic resource	Description	Photo 4: Placed sandbags into trer resource area.	ich in aquatic
			Alfulde 1954 to 40 First to 40	DD GATABO I 221 911	
GPS Location		into tranch in	GPS Location	See Photo Photo 6: Construction of trench bre	akara
Description	Photo 5: Bringing in pipe to lower aquatic resource area.	into trench in	Description	Photo 6: Construction of trench bre	akers.
Calevarianti San Anala Anaue 19571-78 an Datum Weş-Re Amutil Bennîn Lobe Elevatorî Angle - 031 Calevarianti Bennîn Lobe Berster Angle - 031 Calevarianti Ben			Elevation Angle - 01 1 Poizzoni d DX Comi d DX S-Edd Survey shooling stree MVR	an senara and the set	
GPS Location	See Photo		GPS Location	See Photo	
Description	Photo 7: Contouring subsoil befor topsoil and substrate.	re adding	Description	Photo 8: Survey checking elevatior	IS.