	Mounta	ain /alley	Stream Biol	log	gical Co	ndit	ions EA	Report	t
Project Name H-600 Pipeline			e Spread F AFE 124300135			Spread	H-600 Pipelin	e Spread F	
	Contractor	Price Gregory					Report #	432	
Enviro	invironmental Auditor Jessica Yeager Date/Time 12/11/2023 11							1:43 AM	
Stre	am IDS-KL29)	Crossing Start Da	Crossing Start Date 12/29/2023 Crossing Completion Date					24/2024
Mi	ilepost 170.00		Pre-Con Assessment Da	ate	2/11/2023 Post-Con Assessment Date 1/				24/2024
s	Station 8976+0	00	Bankfull Width (ft.)	44.0	Riffle:Pool Complexes Present?			No
	State₩V		Stream Classification		Perennial				
C	County Summe	ers	303(d) Impairment Listi	ng	No				
	-		Resource Post-Cre	-		ons			
1	Were all app	licable resou	rce specific crossing conditi	ions	satisfied?				N/A
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Rel	ocation? <u>N</u>	<u>A_</u>			
2	This question	n is not applic	able in WV.						
3	Which crossin Dam & Pump		re utilized during the stream c Cofferdam Conventior				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 an	d 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?						See Below		
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)?						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.						See Below		
15	Predominant (<0.1"), Mud/Sil	-	pe (select one):Bedrock, Bould	er (>	·10"), Cobble (2-	10"), Gra	avel (0.1-2"), Sar	nd Cobble (2-10")	Cobble (2-10")
16	Marginal (40-60%	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 1 1 nvegetated banks						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.)						2		

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	Biol	Biological Conditions Continued						
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)	ddedness, ; nditions in	1	1				
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	crete block, manmade embar ligible (unaltered/natural strea	nkments, constric am), 2-Minor (20-	tions w/in channel, liv 40% of resource disru	estock or upted by	2	2	
		Addition	al Notes					
Pre-Co Water s photo. 12/29/2 system 12/30/2 1/3/20/2 area di 1/4/20/2 1/5/20/2 Sandba 1/6/20/2 dam. P 1/7/20/2 Moved Pump1/12/20/2 nd 1// 1/17/20/2 may	Additional Notes Pre-Construction Notes Pre-Constructing Meeting - 12/11/2023 Water slightly turbid and high during pre-construction assessment. Timber mat in place. Poor access for pre-construction DS photo. Water too high to cross S-M3 to get access. 12/29/2023 - Verified pre-construction assessment conditions still exist in ROW. Began to construct upstream dam for pump-around system (Photo 1). 12/30/2023 - 12/2024 - Continued to construct upstream dam trying different configurations hoping to prevent leakage. 13/2024 - Pump-around system in use. Stable dam configuration established upstream and pump-around system Keeping work area dry. Removed top 12 inches of substrate (Photo 2). RDB topsoil removed. 11/2/2024 - Pump-around system in use. DS dam rebuilt. Second dam added US of existing barrier dam due to barrier dam leakage. 11/2/2024 - Pump-around system in use. DS dam rebuilt. Second dam added US of existing barrier dam due to barrier dam leakage. 11/2/2024 - Pump-around system in use. B carrier dam continued to leak. Water from ROW pumped to dewatering structure. Sandbags added to dam US dam. Rebuilt Ele on site. 11/2/2024 - Rain (11/2/2024 and 11/2/2024). New larger pumps. Cleanup. Added sandbags to dams (effort to rebuild dam). Noved equipment and other materials to higher ground. LE1 and DEP onsite (11/2/2024). Bar meetindl. FERC onsite (11/1/2024). 11/12/2024 - Pump-around system in use. Drilled and prepped for blasting. Explosives placed and detonated (11/1/2024). 11/12/2024 - Pump-							
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	ate	
Jessica	Yeager	Jo- f.y	~	Potesta		1/24/	2024	

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		Required				
An and a second se						
GPS Location			GPS Location			
Description	Downstream view of permitted impact pre-construction assessment.	et area during	Description	Downstream view construction asso	•	l area during pre-
	t ztorne tree et al a se		Defact time word an 24 of means to or Margaria 24 of the second second second second second attract Void Second second second second attract Void Second second second second second second second second second second second second second second second second sec	bord an like 00 27 EST borshou is to refer with the reference of the reference with the reference of the reference with the reference of the reference with the reference of the reference of the reference with the reference of the reference of the reference of the reference with the reference of		
GPS Location	See Photo		GPS Location	See Photo		
Description	Downstream view of permitted impact post-construction assessment.	st area during	Description	Downstream view construction asso		l area during post-
Altitude 17021 HaarBith	10 - 17 - 19 - 27 - 19 - 20 - 27 - 27 - 27 - 27 - 27 - 27 - 27		Date & Time West Van 03.2 Position 4.03 / 49238-WO Alstude / 7001 (-252 Al- Datum WG 48 Alimitek - 7001 (-252 Al- Datum WG 49 Alimitek - 700 (-250 House Apple - 250 House App			
GPS Location	See Photo		GPS Location			
Description	Photo 1: Constructing upstream of	dam.	Description	Photo 2: Top 1: from aquatic re	2 inches of sul source.	bstrate removed

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Optional								
Date & Term Tese Jam exhibits 1027 p32491 Almude 172201 Esten Azimuth Rearing 245 Elevation Angle - 164 Her/gon Angle - 104 Karding - 104 Karding - 104 Her/gon Angle - 104 Karding - 104 Kardi								
GPS Location			GPS Location					
Descriptior	Photo 3: Excavated trench.		Description	Photo 4: Trenc into trench for p	h excavated, p padding.	placing sandbags		
Datum: W69-84	17. 2024.4ii r4.2039.EST 608.73310 - 2-X7.2 5li S6WI - 4-X7.2 file section linto treneh		Line & Times Sai, Jin 20, 21 Political Vision Constraints Political Vision Constraints Politi					
GPS Location			GPS Location					
Descriptior	Photo 5: Lowering pipe in trench.		Description	Photo 6: Const	ructing trench	breakers.		
Date & Norte Sun. Jaco Position 1970 Altruck 1970 Datam Wills Market Astrony Barry Social States of States Social States Social States Social States Social States Social States Social States	COLUMN 1221 UN TOTAL ESTIMATION 1222 UN TOTAL		Person da conservation de administrative de la conservatione de administrative de la					
GPS Location			GPS Location					
Descriptior	Photo 7: Backfilling. I		Description	Photo 8: Remo	ving additiona	l sandbags.		