		Stream Biol	ogical Co	onditions EA	Report	
Р	roject Name H-600 Pipeline	e Spread C	1 Spread	H-600 Pipeline	e Spread C	
	Contractor Precision			Report #	259	
Enviro	nmental AuditorBrian Montgon	nery		Date/Time	9/28/2023 8:28	в РМ
Stre	eam IDS-L44	Crossing Start Da	te 9/28/2023	Crossing Comple	tion Date 9/3	0/2023
Mi	ilepost	Pre-Con Assessment Date 9/25/2023 Post-Con Assessment Dat				2/2023
s	Station 4131+69	Bankfull Width (ft.) 8.0		Riffle:Pool Complexe	es Present?	No
	State₩V	Stream Classification Perenni				
C	County Braxton	303(d) Impairment Listi	ng No			
		Resource Post-Cro	-	ons		
1	Were all applicable resour	ce specific crossing condition	ons satisfied?			N/A
	Time of Year Restrictions	(TOYR)? <u>N/A</u> Mussel I	Relocation? <u>N</u>	<u>/A</u>		
2	This question is not applic	able in WV.				
3		e utilized during the stream cr Cofferdam Convention		ect one or more) zontal Directional Drill	(HDD) Bore	
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?					
5	Was excess material not needed for backfill removed and disposed of in an upland area?					
6	Was the top 12-inches of backfill made with clean native stream substrate?					
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre- construction contours?					
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?					
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?					
11	Was the time of disturbane	ce minimized by conducting	resource work	continuously to com	pletion?	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?					
13						
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 Po					
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (-2-10") (<0.1"), Mud/Silt/Clay				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 1 unvegetated banks 1					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 Co	nditions Cor	ntinued			Pre-Con	Post-Con	
18	Instream Habitat Conditions: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)							2	
19	along banks, concrete/gabions/conc agricultural impacts Rating: 1-Negl								
			Addition	al Notes					
stream sacks, buffer : comple require stream 9-29-20 9-30-20 station (statior respec stream The str accord Monito	19 along banks, concretergabons/concrete block, mainhade embankments, constructions with channel, livestock of schedular aliterations), 3-Moderate (40-80% of resource disrupted), 4-Severe (>80% of resource disrupted) 1 2 0 Additional Notes 0 Additional Notes 0 9-28-2023 - A dam and pump conveyance system was installed prior the contractor segregating prominent boulders from the stream channel onto plastic sheeting. The top 12 inches of stream substrate between the high-water marks was stored in 5 super sacks, as well an additional 4 super sacks were filled with clay mixed cobble from underneath the substrate. The banks 10-foot buffer zone topsoli was also segregated and stockpiled separately. Welding on the coming in side of the crossing commenced after completed throughout the crossing or as needed bases. A flume was installed at the end of the day to maintain stream flow over night. 9-29-2023 - The contractor continued with welding operations throughout the day on both sides of the crossing. 9-30-2023 - X-ray and coating operations were completed prior to padding the pipe and the installation of one river weight at station <i>n</i> *1431+42. The benotine breakers were installed at station <i>n</i> *1432+427 and 4131+29 respectively. The stream banks and channel were properly restored with emphasis on replacing the clay mix cobe prior to restabiling stream flow. The stream banks and channel were properly restored with emphasis on replacing the clay mix cobe prior to restabilishing stream flow. The stream banks and channel were properly restored with emphasis on replacing the clay mix cobe prior to restabilishing stream flow. The stream banks and channel were properly restored with emphasis on replacing there orestabilishing stream flow. The								
inpact	s to the resources.		Signature		Compan	v	D:	ate	
	Name	- 7			Compan	у			
Brian M	lontgomery	10	ろつ		SWCA		10/2/	2023	

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Required Photos						
9/25/23, 10.31 AM 38.7 (5987 N; 10.9454) 83° E 51.44 (Pre-BM)			9/25/23, 10:35 AM 38.717013* N, 80.4945 52* NE S-L44 (Pro-BM)	14° W		
GPS Location			GPS Location			
Description	Downstream view of permitted impac pre-construction assessment.	t area during	Description	Downstream view of unimpacted construction assessment.	d area during pre-	
10/2/29-11-12 AM 38-77165* N. 80.4194 58* NE S-144 (Post BM)			10/2/23, 11:16 AM 38:715917 N. 80, 4946 60 NE S-L44, (Post, BM)			
GPS Location			GPS Location			
Description	Downstream view of permitted impac post-construction assessment.	t area during	Description	Downstream view of unimpacted construction assessment.	d area during post-	
9/28/23, 9.02 AM 38.717127 N, 80.494 191° S S-L44 (Pre_BM)			9/28/23, 9:13 AM 38.716974* N. 80.4944 270* W S-U44 (Dur BM)			
GPS Location			GPS Location			
Description	Dam and pump spillway downstre Right of Way	eam of the	Description	Stripping topsoil to the high v	vater marks.	

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		l Photos		-		
9/28/23, 9-16 AM 38,716954 N, B0.49 286° SVI S-L44 (Dur BM)			9/28/23. 9/36 AM 38/16919 N. 80.4946 254 W S-1.44 (Dur BM)			
GPS Location			GPS Location			
Description	Removing GPS located boulders		Description	Removing the s	tream bed su	bstrate.
9/28/23, 12:50 PM 38:717227 N, 80.49 309* NW S-L44 (Dur_BM)			9/30/23, 11:46 AM 38,71677 N, 80.4945 292° W S-L44 (Dur_BM)			
GPS Location			GPS Location			
Description			Description	Overview of trer	nch breaker ir	nstallation.
9/30/28.3-16 P.M. 38.7-16820* N, B0.494 22.1* SW S-L44*(Dur BM)			9(30/23, 3:46 PM 38,716935* N, 80.494e 238* SW SN44 (Dur. BM)			
GPS Location			GPS Location			
Description	Re-established clay layer undern stream bed substrate.	eath the	Description	Installing GPS b	oulders and o	curlex.