

Wetland Biological Conditions EA Report

Project Name		Name	H-600 Pipeline	Spread F AFE 124300135		Spread	ad H-600 Pipeline Spread		Spread F		
Contractor Price Grego		Price Gregory	· · ·			Report #	142	142			
Environmental Auditor Charles Hader		Charles Hader	Date/Time 11/27/2023					27/2023 12	:50 PM		
Wetland ID W-MM20-PFO Crossing Start Date 12/2/2023 Crossing Completion Date 1/10/2024)/2024			
Milepost 171.49				Pre-Con Assessment Date 11/27/2023 Post-Con Assessment Date 1/10)/2024	
Station 9054+65		65	Cowardin Classificat	i on Pl	=0	Wetla	nd Impact A	rea((acres) 0.29	990	
StateWV											
County Summers											
Resource Post-Crossing Conditions											
1 Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?								Yes			
2	Was tl	ne exis	sting vegetatio	on removed prior to initiatin	g lano	l disturband	ce withi	n the resourc	ce?		Yes
3	Was tl	ne top	1-foot (12-inc	hes) of wetland soil segree	jated	and stockp	iled se	parate from tr	renc	h spoils?	Yes
4	Was e	xcess	material not r	needed for backfill removed	d and	disposed o	f in an	upland area?	>		Yes
5				backfill made with clean na				_			Yes
6	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?								Yes		
7	Was w	vetland	l topsoil repla	ced and temporarily seede	d?						Yes
8	Was permanent seed applied to unsaturated wetlands?							Yes			
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?							Yes			
10	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?							Yes			
11	Was the pre-construction survey data utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain Yes overland flow patterns?							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	Was the time of disturbance minimized by conducting resource work continuously to completion? Yes							Yes			
14	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?							Yes			
15	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?										
16	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain										
								Post-Con			
17			t uration: Are s at Yes or No)	urface waters, the water table, a	nd/or o	verall soil satu	iration			No	No
18	haul roa Rating	ids, farm]: 1-Ne	n traffic, drain tile gligible (undisturt	e the wetland soil conditions visik s, recent mowing/clear cutting, re bed/natural resource), 2-Minor (2 isturbed), 4-Poor (>80% of resou	ecent e 0-40%	xcavating/disk of resource di	ing of so	oils, etc.		3	3
19	Con)A Rating Margina	Are are 3: 1-Opti Il (<30%	as properly stimal (60-100% he	thin the permitted impact seeded and stabilized aft eavy vegetative cover), 2-Sub-op rage), 4-Poor (Mowed/maintained	er res timal (3	storation?	(Post-) vegetati	Con) ve coverage), 3-		3	3

AFE	124300135	Date/Time	11/27/2023 12:	50 PM	Report #	142		
		Addition	al Notes					
Pre-Co Pre-Co 17. No 8. Veg S-CV17 12/2/20 labeled 12/4/20 12/5/20 aquatic 12/6/20 12/7-9/ other s 12/11-1 resourc 12/14/2 12/15/2 12/16/2 12/17/2 12/30/2 2 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 1/8/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre 1/7/202 ccurre	 Instruction Notes Instruction Meeting - 11/27/2023 Surface water, soil saturation, or regetation has been trimmed/mowed; 7 runs through the northern portion D23 - Timber mats put in place for ed appropriately. D23 - Excavated trench within aquation of trench continues Cresource (Photo 3). Road bore tre D23 - Road bore construction begide of road. Mainline pipe installation 13/2023 - Water pumped from trench Co23 - Adjustments made to trench 2023 - Adjustments to pipe placement 2023 - Snowy and icy conditions 2023 - Stabilized stockpile. No work 2023 - Stabilized stockpile. No work 2023 - Pipe in trench. Preparations 2023 - Pipe for sand blasting. Rei 214 - Prepared for sand blasting. Rei 224 - Rain out. 	Addition echarged table observed ; State Hwy 12/3 adjacen of aquatic resource. excavation. Top 12 inchest atic resource. Timber mate ed (Photo 2). Measureme each opened on opposite ugh aquatic resource. Pea gan through aquatic resource on begins through aquatic ch. Boring ongoing and c dine and road crossing a urveyed and engineering ent made. Water in trench s. Water in trench. Weldir k in aquatic resource boded. Environmental cree for welding. Welding in t Pipe wrapped with rock s trench. emoved trench box and be nd coated in aquatic reso esource area. Pipe adjust structed (Photo 5). Weldir Continued to add sandba dding dirt added to trench e added to subsoil and p bletely filled with water. Be tanker truck. Site stable I updet to tanker truck. Rep ding restoring a portion o (S-CV17) buffer.	at test pit locati at test pit locati to aquatic res es of topsoil exc s in place to mi ents for bore, tra side of the roar a gravel added urce. Water pur c resource. completed (12/1 area. Topsoil mo approval. Water h. Welding ong ng of pipe in up ew adjusted dar rench in aquatic shielding. Weldi egan to backfill purce area. ted for final wel ng and X-ray on ags to trench. C h and continued adding dirt/subs egan pumping v but wet. Gener paired/built trend f this resource of	on. ource. eavated (Photo 1) and nimize compaction. ack, and pipe complet d. Bore pipe installed to trench for stability nped from trench. Bo 3/2023). Welding an oved to different loca er in trench. No work oing outside of aquat and continued. X-ray n and restored flow t c resource. ng in trench aquatic outside aquatic reso d. Sandbag added to going in aquatic reso d. Sandbag added to going in aquatic reso coated. Bore pit north t to construct trench soil added to trench (water from trench an- al clean-up complete ch breaker. Backfille (topsoil replacement)	ad segregated eted. Bore tra d in trench. // ore successfu ation within wo in aquatic res through flume resource. Sa burce area. Cl o trench in aq ource. h of resource breakers. (Photo 6). A d continued c ed sitewide. ed in aquatic res (Photo 7). S	d in work area and ack installed in ully made it to ing in aquatic ork area. source. ed. ed. ed. ed. pipe. Water undbags added to ut pipe, moved quatic resource backfilled. flash flood overnight. resource area. Seeded portion of		
1/9/2024 - Rain out. 1/10/2024 - Survey onsite, shot aquatic resource boundary locations. Restored topsoil to aquatic resource area outside of S-CV17 buffer. Seeded restored aquatic resource area (Photo 8). Rolled out jute. Additional seed added to aquatic resource after jute blaced. Added super silt fencing.								
Post Construction Notes 17. Post Construction soils are not saturated, and no recharge was noted in test pit. 18. Rating due to lack of vegetation in disturbed area. 19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded. Timber mat bridge remains 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		Date		
Charle	s Haden	Chules Han	kan	POTESTA		1/10/2024		

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			Required	ed Photos					
Data Appendia Data Activity Zoonovy WWD Zoonovy WWD Zoonovy WWD Zoonovy WWD Zoonovy WWD	And a series of the series of			Dan at Timelood - per 27. Patient - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (1997) - et al. (19					
GPS L	ocation	See Photo		GPS Location					
Des	scription	View of permitted resource impact a pre-construction assessment.	rea during	Description	At edge of LOD, view of unimpacted resource conditions during pre-construction assessmer				
Date President Data Altan Europe Horace V-Mary Walk Walk Walk Walk Walk Walk Walk Walk	stien Angle -05.7 zon Angle +00.3 n. 1.0X	opge and by SA EST 30 (2009) V = 16 70) El 0001 mits True (= 12) hitted resource impact area during pact-construction assessment							
GPS L	ocation	See Photo		GPS Location	See Photo				
Des	cription	View of permitted resource impact a post-construction assessment.	rea during	Description	At edge of LOD, view of unimpacted resource conditions during post-construction assessme				
1120 55	PREFS MAP 078 • SHOW EXTRAC	+037 581758* / -080 730351* 1 480/ 12/02/23 1 2:39 54 077 N77E 1369mits TRUE 050 Е 1 000 0	25	00 +01.3 +05 2EK0 A.B. 1	037 681774* / -080 730415 1 15151 UKU 12/05/23 0 08.10.47 US 08.10.47 US 09.10.40 US 00.10.40 US 00.10.40 US 00.100 US 00.100 US 00.100 US				
GPS L	ocation	See Photo		GPS Location	See Photo				
		Photo 1: Excavation of top 12 inc in aquatic resource.	hes of topsoil	Description	Photo 2: Excavation of trench in aquatic resource.				

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		l Photos				
PRES Vian 15 10 09 A 40 40 20 20 20 20 20 20 20 20 20 20 20 20 20	H037 681733 / -080 730299 + 1503h 12/05/23		Date 5 Imm 100 510 22 20 Position - 007 651222 - 00 Anthole 51201-233 910 Datam WG5-84 Armith Baaring 056 Note Elevation Angle - 01 Elevation Angle - 01 Ele			
GPS Location			GPS Location			
Description	Photo 3: Bore tracks in aquatic re	esource.	Description	Photo 4: Lowering resource area.	pipe into tr	ench into aquatic
Date & Time: Wed, Jan 03. Position: -037.682129 /-0 Altitude: 1546t (123.470) Datum: WGS-84 Azimuth/Bearing (027. N23 Elevation Angle, 10.27 Horizon data Herein the Uncountered HVPS-5000	B0 730 430 / c= 1 6 SH E 04000m cm ch chui Harteriteri		Althuse-Sto Datum Wos Althuse-Sto Datum Wos Elevation Parts Horizon Angle 101 Zom 102 S-CV17-Padding dirt in the Mountain Valley Pipeline			
GPS Location		· · · · ·	GPS Location			
Description	Photo 5: Trench breaker construc French drain.	cted with	Description	Photo 6: Adding patrench.	adding dirt a	and backfilling
			Alfune 102 and			
GPS Location			GPS Location			
Description	Photo 7: Adding topsoil to aquation inside S-CV17 buffer.	c resource	Description	Photo 8: Overview ongoing.	/ of wetland	. Seeding