

If Interim report, Subject to Change as Additional Information Becomes Available If Interim Report, this Report is cumulative, containing information from previous reports in addition to new information and may change SPLP PENNSYLVANIA PIPELINE PROJECT

HORIZONTAL DIRECTIONAL DRILLING – INADVERTENT RETURN REPORT FORM

INTERIM REPORT	IF INTERIM, SEE NOTE ABOVE.	YOURS INDICATE IN THE POCKET WITHIN STEAM NEH III (1181 to March Creek). On X/11//II/II a clincidence feature was discovered at the location of the inadvertent return, within wetland											
REPORT DATE: Current as of 12/15/2020 HDD ALIGNMENT # PA-CH-100.0000-RD													
PROJECT SITE:	PPP 6 - S3-0290 - Mi	lford Rd./Little Conestog	oga Rd HDD COMPANY:			Michels Directional Crossing							
DATE A	AND TIME WHEN I	IR WAS INITIALLY I	DISCOVERED DATE:			8/10/2020	TIME:	1530					
LOCATION: 427-423 Green Valley Rd, Downingtown, PA			MUNICIPALITY:			Upper Uwchlan							
STREET 40.0794 LONGITUDE:			-75.7104 FROM STATION:			14824+00	TO STATION	14824+00					
STREAM NAME:	S-H10 (UNT to Marsl	h Creek), S-H11 (UNT t	o Marsh Creek)	POND /	LAKE NAME:	Pond H3 (Marsh Creek Reservoir)	WETLAND NAME:	WL-H17 (PEM, PFO)					
DED DEDMIT Nos	`	00015001, Water Obstru	,										
(102 AND 105) CORPS PERMIT													
NO.	PASPGP-5 (issued Ap	pril 12, 2017)											
	PPP6_PA-CH-0100.0	0000-RD_MilfordRd_IR	Interim_18_121620										
IS AUGUST 8, 2017 ORDER	ORDER VES LISTED IN WHICH		3 DESCRIPTION IN EXHI		ΓΙΟΝ IN EXHIBIT	HDDs for Reevaluation							
APPLICABLE?		EXHIBIT?											
COMPLETE THE FOLLOWING QUESTIONS IF APPLICABLE:													
	OING? Provide date	es, times, and duration	NO	NOTE:		imately 1530 hours, approximately 7,712 gallons ing fluid continued to flow down S-H10 and enter							
of all IRs.					drilling was stopped.								
2. HAS THE IR CEA	ASED? Provide date	and time for each IR.	YES	NOTE:		imately 1530 hours, approximately 7,712 gallons ing fluid continued to flow down S-H10 and enter							
					drilling was stopped.								
3. WHEN WAS DRI	LLING STOPPED?	Provide date and	Drilling was immediately stop	oped on 8/10/2	020 at approximately 1	530 hours.							
time for each IR.				1									
4. VOLUME OF IR	(CURRENT ESTIM	ATE)?	Approximately 7,712 gallons										
4A. DOES THIS VO	TIME DELEASE D	PEDDECENIT A											
TOTAL VOLUME I			YES	NOTE:	Approximately 7,712	gallons of drilling fluid emerged on 8/10/2020.							
BEGAN?													
5. HAS THIS VOLU REPORT? IF SO, H		NCE THE LAST	NO	NOTE:									
	URATION OF EAC	H IR? Provide dates	The IR ceased emerging on 8/	10/2020 at 15	30 hours after the IR w	as discovered and drilling was stopped.							
7. WHAT STEPS W	The IR ceased emerging on 8/10/2020 at 1530 hours after the IR was discovered and drilling was stopped. The IR ceased emerging on 8/10/2020 at 1530 hours after the IR was discovered and drilling was stopped. Two turbidity curtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten sand bag and silt fence dams were constructed with H10 (UNT to Marsh Creek). Crew members began clean up and recovery of the drilling fluid starting at the location of the IR release point working their way towards pond H3 (Marsh Creek Reservoir). Creek Reservoir). Creek Reservoir). Creek Reservoir). Crew members used pumps and hand tools to recover the drilling fluid and transport it to onsite storage tanks. Stream water was pumped and used to spray remaining bentonite pockets within stream S-H10 (UNT to Marsh Creek).												
8. WHAT REVISION IMPLEMENTED PLOTE DRILLING? Providen	RIOR TO EACH RE												
8a. What was the tec	chnical basis for resur	ming drilling?											
9. WAS THE DRILI and duration for each		Provide dates, times,	NO	NOTE:									
9A. IF SO, HAS ANd dates and times for e		RED? If YES, provide	NO	NOTE:									
10. HAS IR BEEN C times, and measures		S, Provide dates,	YES	NOTE:	•	s were installed at the confluence of S-H10 (UN7 ere constructed within S-H10 (UNT to Marsh Cr	′ ≜	H3 (Marsh Creek Reservoir). Ten sand bag					
times, and measures	Tor Cach IIX.				and sift tence dams w	CIC CONSTRUCTED WITHIN 5 1110 (CIVI to Warsh Ci							
11. HAS A FISH KILL OCCURRED? If YES, Provide dates, times, and measures for each IR.			NO	NOTE:									
tilles, and measures	101 each 1K.												
12. ARE FISH AND	OR OTHER AQUA	TIC LIFE IN	NO	NOTE:									
DISTRESS?				_ •									
13. AS OF THE DATE FLUID REMAIN IN WATERCOURSE?	THE WETLAND O	RT, DOES DRILLING OR	YES	NOTE: Drilling fluid remains in pond H3 (Marsh Creek Reservoir)									
14. IS THERE NOTE TURBIDITY IN TH dates, times, and dur	E WATERCOURSE		YES	NOTE: Drilling fluid remains in pond H3 (Marsh Creek Reservoir)									
15. HAS FLUID LOS Provide dates, times,	SS OCCURRED? (II	,	YES	NOTE:	NOTE: 500 gallon loss on 3/3/2020.								
16. CORRECTIVE I	MEASURES IMPLE	EMENTED NOT											
		de dates and times for											

17. DESCRIPTION OF IMPACTS INCLUDING TIMES, DATES, AND DURATION OF EACH IMPACT.

Drilling fluid emerged within wetland WL-H17, and entered streams S-H11 and S-H10. The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir) on 8/10/20.

	LIST AN	NY NOTIFICATIONS OF INCIDENT MAI	DE TO WATER INTAKES,	WATER WE	LL OWNERS AND	LANDOWNER	S, INCLUDIN	G DATE AND	TIME WHEN EACH NO	OTIFICATION OCCURRED:	
	NAME:	2 Private Well Owners	DATE:	8/11/2020	TIME:		PUBLIC OR PRIVATE:	Private	NOTE:	Letters sent.	
	NAME: 1 Public Water Supply		DATE:	8/10/2020	TIME:	1625	PUBLIC OR PRIVATE:	Public	NOTE:	Informed of release on 8/10, letter sent on 8/11.	
NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:			
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:		
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:		
	NAME:		DATE:		TIME:		PUBLIC OR		NOTE:		
NAME:			DATE:		TIME:		PRIVATE: PUBLIC OR		NOTE:		
		NAN		OVIDING IN	FORMATION FOI	R THIS REPOR	PRIVATE:	ACT INFORM			
NAME: Josh Prosceno PHONE: 570-336-9606 NAME: Josh Prosceno PHONE: 570-336-9606 PHONE: 570-336-9606 NAME: josh.prosceno@tetratech.com TITLE: LEI											
	NAME:	Chris Cable	PHONE:	518-533-9847		EMAIL:	chris.cable@te	etratech.com	TITLE:	Environmental Inspection Manager	
	NAME:		PHONE:	PHONE:		EMAIL:	TITLE:		TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
IMPACTED RESOURCE(S)											
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	PEM/PFO					Sandbag and silt fence con Drilling fluid recovered us	tainment constructed at release point. ing hand tools and pumps.	
	RESOURCE:	STREAM S-H10	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAINS TO HQ-TSF			Γ STEPS HAVE BEEN TAKEN TO			tainments constructed within stream.	
	RESOURCE:	STREAM S-H11	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAINS TO HQ-TSF			S? TEPS HAVE BEEN TAKEN TO			tainments constructed within stream.	
	RESOURCE:	POND H3	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	HQ-TSF			MPACTS?			re installed at the confluence of S-H10 and	
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			IMPACTS? WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE					
			WETLAND TYPE: SURFACE WATER			IMPACTS? WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE					
	RESOURCE:		CLASSIFICATION OR WETLAND TYPE: SURFACE WATER			IMPACTS? WHAT STEPS					
RESOURCE:			CLASSIFICATION OR WETLAND TYPE:			ELIMINATE OR MITIGATE THE IMPACTS?					
				AD	DITIONAL INFOR	RMATION					
		SUMED DOES IT INVOLVE A CHANGE IENT, DEPTH OR ALIGNMENT?	NO	NOTE:							
		ATE WATER SUPPLY - PROXIMITY TO STREAM WATER INTAKES?		NOTE:							
PROXIMITY TO PUBLIC OR PRIVATE WATER SUPPLIES AND WELLS?			YES	NOTE:							
	LIST AND DES	SCRIBE MATERIAL(S) RELEASED:	A mixture of bentonite clay an	nd water with n	ative cuttings						
	HAS THE ESTIMATED QUANTITY OF THE RELEASE INCREASED SINCE THE LAST REPORT? IF SO, HOW?		YES NOTE: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020. □								
	ESTIMATEI	D AERIAL EXTENT OF RELEASE	8/10/2020 - 25'x25' at initial I	R release locat	tion						
EXTENT (LINEAR FEET/MILES) OF DOWNSTREAM EDGE OF RELEASE, IF ANY			IR traveled approximately 1,800 feet downstream from S-H10 (UNT to Marsh Creek) into pond H3 (Marsh Creek Reservoir). Extent into pond H3 (Marsh Creek Reservoir) unknown.								
	DESCR	RIBE ROOT CAUSE(S) OF IR									
		NTS: NOTE ANY MATERIAL CHANGE RMATION FROM PRIOR REPORTS)									
HAVE THE IMPACTS FROM THE IR BEEN REMEDIATED? Please provide date of remediation. 8/10/2020 - Sandbag and silt fence containment set up at IR location. Ten sandbag and silt fence containments constructed within stream S-H10. Two turbidity curtains installed at the confluence of S-H10 and pond H3. Drilling fluid recovered using hand tools and pumps. As of 12/15/2020, drilling fluid remains in pond H3.											
			PRINTED NAME, T	ITLE AND SI	IGNATURE OF PE	RSON(s) COMP	LETING THIS	S REPORT			
	NAME:	Chris Cable TITLE:	Environmental Inspection Mar	nager	SIGNATURE:	Christophe	net Pabli	DATE:	12/16/2020		
					PADEP USE ON						
	ΔΙΤΗΛΡΙΖΑΤΙΛ	N FROM PADEP OR CCD TO RESUME			I ADEL OSE ON						
HDD REQUIRED?				NOTE:							
	PI	ERMIT AMENDMENT?		NOTE:							
PADEP / CCD REVIEWER NAME:					DATE:						



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IV. PHOTO DOCUMENTATION



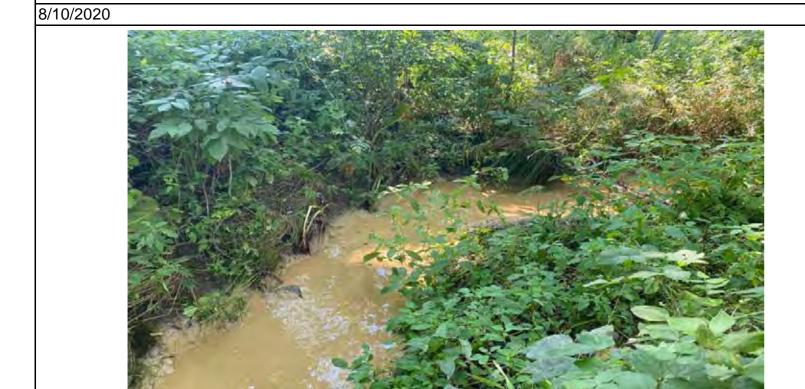


View of drilling fluid within WL-H17 at location of IR release point.

Notes:

View of drilling fluid flowing downstream within stream S-H10 (UNT to Marsh Creek).

8/10/2020





Notes:

View of drilling fluid within stream S-H10 (UNT to Marsh Creek).

8/10/2020

8/10/2020

Notes:

View of drilling fluid entering pond H3 (Marsh Creek Reservoir).

8/10/2020





Notes:

View of contractor crew members installing two turbidity curtains at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

View of IR release location within WL-H17.

8/17/2020

Notes:

Notes:





Notes:

View of sandbag containment within S-H10 (UNT to Marsh Creek).

8/17/2020

View of stream S-H10 (UNT to Marsh Creek) following cleanup.

8/17/2020



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View of stream S-H10 (UNT to Marsh Creek) following cleanup. View of stream S-H10 (UNT to Marsh Creek) following cleanup. 8/17/2020

8/17/2020

Notes:





Notes: View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

View of pond H3 (Marsh Creek Reservoir).

Notes:

8/17/2020

Notes:

Notes:





Notes: View of IR release location within WL-H17.

View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). 8/22/2020

8/22/2020

8/24/2020

8/17/2020





Notes: View of pond H3 (Marsh Creek Reservoir).

View of stream S-H10 (UNT to Marsh Creek) 8/24/2020



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View of IR release location and containment within WL-H17.

View of stream S-H10 (UNT to Marsh Creek)

8/31/2020

Notes:

8/28/2020



Notes: View of stream S-H10 (UNT to Marsh Creek)

View of pond H3 (Marsh Creek Reservoir).

8/31/2020

Notes:

Notes:

9/5/2020





Notes:

9/4/2020

8/31/2020

View of stream S-H10 (UNT to Marsh Creek) View of IR release location and containment within WL-H17.





View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek

Reservoir). 9/14/2020

View of stream S-H10 (UNT to Marsh Creek) 9/14/2020

Notes:



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View of IR release location and containment within WL-H17.

View of stream S-H10 (UNT to Marsh Creek)

9/21/2020

9/21/2020

Notes:





View of IR release location and containment within WL-H17.

Notes:

View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).

9/28/2020

9/28/2020





View of IR release location and containment within WL-H17.

Notes:

10/5/2020

10/19/2020

View of IR release location and containment within WL-H17.

10/12/2020

Notes:





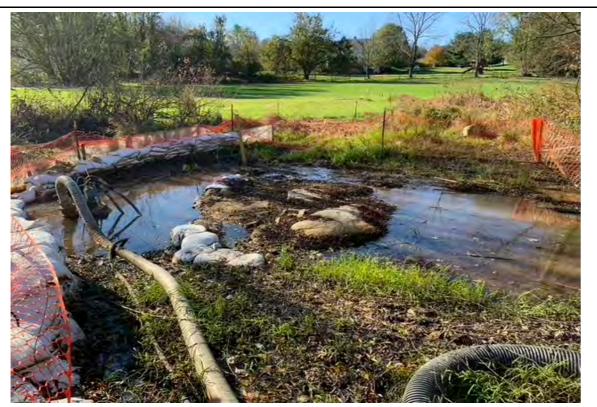
View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir).



Notes: View of IR release location and containment within WL-H17. 10/26/2020



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Notes:

View of IR release location and containment within WL-H17. View of IR release location and containment within WL-H17. 11/2/2020

11/9/2020





Notes: Notes: View of IR release location and containment within WL-H17. View of IR release location and containment within WL-H17.

11/23/2020 11/16/2020



Notes: View of IR release location and containment within WL-H17. View of IR release location and containment within WL-H17.

12/1/2020

Insert Photo Here

Notes: Notes:

View of IR release location and containment within WL-H17. 12/15/2020

PRINTED NAME, TITLE AND SIGNATURE OF PERSON(s) COMPLETING THIS REPORT

Environmental Inspection Chris Cable TITLE: SIGNATURE: DATE: 12/16/2020 NAME: Manager

12/8/2020

