

# 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.	NOTES:	Interim Report 3: On 8/10/2020 at approximately 1530 hours, 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). The drill was in the ream phase at the time of release, with a volume of 7,712 gallons of drilling fluid released (The initial notification of the inadvertent return was estimated to be 1,000 gallons. This estimate was provided by the onsite PG and was based on the surface dimensions of the emergence, approximately 10' x 20' and several inches deep. The number was revised after discussion with the driller and collection of survey data.). Drilling was immediately stopped upon discovery of the IR. 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 within S-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). 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). On 8/11/2020, a subsidence feature was discovered at the location of the inadvertent return, within wetland WL-H17. On 8/12/2020 the subsidence was filled with approximately 26 cubic yards of flowable fill. As of 8/17/2020, one containment dam remains within S-H10, the containment structure remains in place at the initial IR location, and two turbidity curtains remain at the confluence of stream S-H10 and pond H3. Drilling fluid has been recovered from WL-H17, S-H11 and S-H10. Additional survey is in progress to implement a recovery plan for drilling fluid within pond H3. No drilling fluid has been recovered from WL-H17, S-H11 and S-H10. Additional survey is in progress to implement a recovery plan									
REPORT DATE:	Current as of 8/31/202	20		HDD A	LIGNMENT #	PA-CH-100.0000-RD						
PROJECT SITE:	PPP 6 - S3-0290 - Mi	lford Rd./Little Conestog	ga Rd	HDD COMPANY:		Michels Directional Crossing						
DATE A	AND TIME WHEN I	IR WAS INITIALLY I	SCOVERED DA		DATE:	8/10/2020	TIME:	1530				
LOCATION: STREET	427-423 Green Valley	y Rd, Downingtown, PA	19335	MUNIC		Upper Uwchlan	r Uwchlan COUNTY: Chester					
LATITUDE: 40.0794 LONGITUDE:			-75.7104	FROM STATION:		14824+00	TO STATION	14824+00				
STREAM NAME: S-H10 (UNT to Marsh Creek), S-H11 (UNT to			o Marsh Creek)	POND / LAKE NAME:		Pond H3 (Marsh Creek Reservoir)	WETLAND NAME:	WL-H17 (PEM, PFO)				
DEP PERMIT Nos. (102 AND 105)  CORPS PERMIT NO.  PASPGP-5 (issued April 12, 2017)												
IR TRACKING ID:	IR TRACKING ID: PPP6_PA-CH-0100.0000-RD_MilfordRd_IRInterim_03_090120											
IS AUGUST 8, 2017 ORDER APPLICABLE?	ORDER YES LISTED IN WHICH EXHIBIT?			DESCRIPTION IN EXHIBIT		HDDs for Reevaluation						
COMPLETE THE FOLLOWING QUESTIONS IF APPLICABLE:												
1. IS THE IR ON-GOING? Provide dates, times, and duration of all IRs.			NO	NOTE:		On 8/10/20 at approximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered stream and S-H10. The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir). The IR ceased emerging rilling was stopped.						
2. HAS THE IR CEASED? Provide date and time for each IR.			YES	NOTE:		rithin WL-H17, and entered streams S-H11 Reservoir). The IR ceased emerging after						
3. WHEN WAS DRI time for each IR.	LLING STOPPED?	Provide date and	Drilling was immediately stopped on 8/10/2020 at approximately 1530 hours.									
4. VOLUME OF IR	(CURRENT ESTIM	ATE)?	Approximately 7,712 gallons									
4A. DOES THIS VOLUME RELEASE REPRESENT A TOTAL VOLUME RELEASED SINCE THE RELEASE BEGAN?			YES	NOTE:	E: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020.							
5. HAS THIS VOLUME CHANGED SINCE THE LAST REPORT? IF SO, HOW?			NO	NOTE:								
6. WHAT IS THE Dand times.	URATION OF EAC	H IR? Provide dates	The IR ceased emerging on 8/10/2020 at 1530 hours after the IR was discovered and drilling was stopped.									
7. WHAT STEPS W Provide dates and tin			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 within S-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). 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 PLOTEILLING? Provide	RIOR TO EACH RE											
8a. What was the tec		ming drilling?										
9. WAS THE DRILLING RESUMED? Provide dates, times, and duration for each IR.			NO	NOTE:								
9A. IF SO, HAS ANOTHER IR OCCURRED? If YES, provide dates and times for each IR.			NO	NOTE:								
10. HAS IR BEEN CONTAINED? If YES, Provide dates, times, and measures for each IR.			YES	NOTE:	•	urtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Reservoir). Ten ams were constructed within S-H10 (UNT to Marsh Creek) on 8/10/2020.						
11. HAS A FISH KILL OCCURRED? If YES, Provide dates, times, and measures for each IR.			NO	NOTE:								
12. ARE FISH AND OR OTHER AQUATIC LIFE IN DISTRESS?			NO	NOTE:								
13. AS OF THE DATE OF THIS REPORT, DOES DRILLING FLUID REMAIN IN THE WETLAND OR WATERCOURSE?			YES	NOTE:	Drilling fluid remains	fluid remains in pond H3 (Marsh Creek Reservoir)						
14. IS THERE NOTICEABLE HIGH LEVELS OF TURBIDITY IN THE WATERCOURSE? If YES, Provide dates, times, and duration for each IR.			YES	NOTE:	Drilling fluid remains	luid remains in pond H3 (Marsh Creek Reservoir)						
15. HAS FLUID LOSS OCCURRED? (IF KNOWN) If YES, Provide dates, times, and duration for each loss of fluid.			YES	NOTE:	500 gallon loss on 3/3/2020.							
16. CORRECTIVE MEASURES IMPLEMENTED NOT PREVIOUSLY LISTED ABOVE? Provide dates and times for each IR.												

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	TIFICATION 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 PRIVATE:		NOTE:			
NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:			
NAME OF ALL PERSON(S) PROVIDING INFORMATION FOR THIS REPORT AND CONTACT INFORMATION											
	NAME:	Josh Prosceno	PHONE: 570-336-9606			EMAIL: josh.prosceno@tetratech.com TITLE: LE				LEI	
	NAME:	Chris Cable	PHONE: 518-533-9847		EMAIL:	chris.cable@tetratech.com TITI		TITLE:	Environmental Inspection Manager		
	NAME:		PHONE:	NE:		EMAIL:	TITLE:		TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
NAME:			PHONE:		EMAIL:	TITLE:					
IMPACTED RESOURCE(S)											
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	PEM/PFO			NATE OR MITIGATE THE		Sandbag and silt fence cont Drilling fluid recovered usi	ainment constructed at release point.  ng hand tools and pumps.	
	RESOURCE:	STREAM S-H10	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAINS TO HQ-TSF		WHAT STEPS I ELIMINATE O	STEPS HAVE BEEN TAKEN TO NATE OR MITIGATE THE		Sandbag and silt fence cont Drilling fluid recovered usi	rainments constructed within stream.  Ing hand tools and pumps.	
	RESOURCE:	STREAM S-H11	WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAINS TO HQ-TSF		ELIMINATE O	STEPS HAVE BEEN TAKEN TO NATE OR MITIGATE THE		Sandbag and silt fence cont Drilling fluid recovered usi	ainments constructed within stream.  ng hand tools and pumps.	
	RESOURCE:	RESOURCE: POND H3		HQ-TSF		IMPACTS?  WHAT STEPS HAVE BEEN TAKEN TO  ELIMINATE OR MITIGATE THE  IMPACTS?  Two turbidity curtains we pond H3.				e installed at the confluence of S-H10 and	
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE IMPACTS?					
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE IMPACTS?					
	RESOURCE:		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR			WHAT STEPS I ELIMINATE O					
			WETLAND TYPE:	AD	DITIONAL INFOR	IMPACTS?  RMATION					
		SUMED DOES IT INVOLVE A CHANGE	NO	NOTE:							
IN EQUIPMENT, DEPTH OR ALIGNMENT?  PUBLIC OR PRIVATE WATER SUPPLY - PROXIMITY TO				NOTE:							
DOWNSTREAM WATER INTAKES?  PROXIMITY TO PUBLIC OR PRIVATE WATER		YES	NOTE:								
		COIDE MATERIAL (S) DELEASED.			otivo cuttings						
HAS THE ESTIMATED QUANTITY OF THE RELEASE			A mixture of bentonite clay and water with native cuttings  YES  NOTE: Approximately 7,712 gallons of drilling fluid emerged on 8/10/2020.□								
INCREASED SINCE THE LAST REPORT? IF SO, HOW?			YES	NOTE:		2 ganons of driffin	ig ituid emerged	1 011 8/10/2020.			
ESTIMATED AERIAL EXTENT OF RELEASE			8/10/2020 - 25'x25' at initial IR release location								
	· ·	AR FEET/MILES) OF DOWNSTREAM GE 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									
OTHER COMMENTS: NOTE ANY MATERIAL CHANGE IN THE INFORMATION FROM PRIOR REPORTS)											
HAVE THE IMPACTS FROM THE IR BEEN 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 8/31/2020, drilling fluid remains in pond H3.									O. Two turbidity curtains installed at the		
PRINTED NAME, TITLE AND SIGNATURE OF PERSON(s) COMPLETING THIS REPORT											
	NAME:	Chris Cable TITLE:	Environmental Inspection Man	nager	SIGNATURE:	Christophe	ref Cable	DATE:	9/1/2020		
PADEP USE ONLY											
	AUTHORIZATIO	N FROM PADEP OR CCD TO RESUME									
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.

8/10/2020

Notes:





Notes:

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

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

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

8/10/2020

Notes:





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).

8/10/2020

8/17/2020

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

8/17/2020



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otes: Notes:

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





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:

Notes:

8/17/2020





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





Notes:

View of pond H3 (Marsh Creek Reservoir).

8/24/2020

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

8/24/2020

Notes:



8/31/2020

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

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

8/31/2020





Notes: Notes: View of pond H3 (Marsh Creek Reservoir). View of stream S-H10 (UNT to Marsh Creek)

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

8/31/2020

Environmental Inspection 9/1/2020 NAME: Chris Cable TITLE: SIGNATURE: DATE: Manager

