

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:	down S-H10 and entered pone notification of the inadvertent approximately 10' x 20' and so of the IR. Two turbidity curta constructed within S-H10 (Unit pond H3 (Marsh Creek Reservant) spray remaining bentonite poor WL-H17. On 8/12/2020 the structure remains in place at the H11 and S-H10. Additional stremains in place at the initial H10. As of 9/14/2020, the entered pond of the initial H10. As of 9/14/2020, the entered pond of the initial H10.	d H3 (Marsh Careturn was esti- everal inches de ins were installed NT to Marsh Carevoir). Crew me ckets within stre- subsidence was the initial IR location and survey is in prog IR location and environmental sur-	reek Reservoir). The mated to be 1,000 gasep. The number was ed at the confluence of eek). Crew members used pumps and am S-H10 (UNT to filled with approximation, and two turbid gress to implement a two turbidity curtain rvey and assessment	drill was in the ream phase at the time llons. This estimate was provided by the revised after discussion with the drille of S-H10 (UNT to Marsh Creek) and pass began clean up and recovery of the drille driven the drilling fluid hand tools to recover the drilling fluid Marsh Creek). On 8/11/2020, a subsidiately 26 cubic yards of flowable fill. It is curtains remain at the confluence of recovery plan for drilling fluid within pass remain at the confluence of stream S has been completed and results are being the stream of the second stream of the seco	the onsite PG and was based and collection of survey pond H3 (Marsh Creek Restrilling fluid starting at the laid and transport it to onsite dence feature was discover As of 8/17/2020, one contact of stream S-H10 and pond I pond H3. No drilling is in pond H3. No drilling is in grant compiled. Geophysical	of 7,712 gallored on the surfidata.). Drilling servoir). Ten a location of the storage tank ared at the location dam and the storage. As one of the process. As one of the survey and a location of the storage tank are at the location of the storag	ng was immediately stopped upon discovery		
REPORT DATE:	Current as of 9/14/202	20	driffing is in process.	HDD A	LIGNMENT #	PA-CH-100.0000-RD					
PROJECT SITE: PPP 6 - S3-0290 - Milford Rd./Little Conesto			ga Rd	HDD	COMPANY:	Michels Directional Crossing					
DATE AND TIME WHEN IR WAS INITIALLY			DISCOVERED		DATE:	8/10/2020	1530				
LOCATION: STREET	427-423 Green Valley	19335	MUNICIP		Upper Uwchlan	COU	NTY:	Chester			
LATITUDE:				FROM STATION:		14824+00	TO ST.	ATION	14824+00		
STREAM NAME:	STREAM NAME: S-H10 (UNT to Marsh Creek), S-H11 (UNT			POND / LAKE NAME:		Pond H3 (Marsh Creek Reservoir)	WETLAN	D NAME:	WL-H17 (PEM, PFO)		
DEP PERMIT Nos.	E&S Permit # ESG01	00015001. Water Obstr	ruction Permit E15-862								
(102 AND 105)	02 AND 105) E&S Permit # ESG0100015001, water Obstruction Permit E15-862 RPS PERMIT										
NO.	PASPGP-5 (issued April 12, 2017)										
	_	0000-RD_MilfordRd_IR	Interim_05_091520								
IS AUGUST 8, 2017 ORDER	YES	LISTED IN WHICH EXHIBIT?	3	DESCRIPT	ION IN EXHIBIT	HDDs for Reevaluation					
APPLICABLE?		EXTIDIT.									
			COMI	PLETE THE F	OLLOWING QUE	STIONS IF APPLICABLE:					
					0 0 11 0 10 0						
1. IS THE IR ON-GO of all IRs.	1. IS THE IR ON-GOING? Provide dates, times, and duration of all IRs.			NOTE:	1	roximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered streams S-H11 rilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir). The IR ceased emerging after ed.					
2. HAS THE IR CEA	2. HAS THE IR CEASED? Provide date and time for each IR			NOTE:		oximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered streams S-H11 illing fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir). The IR ceased emerging after d.					
3. WHEN WAS DRILLING STOPPED? Provide date and time for each IR.			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 VO	DLUME RELEASE R	REPRESENT A									
TOTAL VOLUME RELEASED SINCE THE RELEASE BEGAN?			YES	NOTE:	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 D and times.	OURATION 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 WERE TAKEN TO STOP EACH IR? Provide dates and times.			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 REVISIO IMPLEMENTED PORILLING? Providence											
8a. What was the tec	chnical basis for resu	ming drilling?									
9. WAS THE DRILL and duration for each		Provide dates, times,	NO	NOTE:							
· · · · · · · · · · · · · · · · · · ·	9A. IF SO, HAS ANOTHER IR OCCURRED? If YES, provided dates and times for each IR.			NOTE:							
	10. HAS IR BEEN CONTAINED? If YES, Provide dates, times, and measures for each IR.			NOTE:	Two turbidity curtains were installed at the confluence of S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek Re and silt fence dams were constructed within S-H10 (UNT to Marsh Creek) on 8/10/2020.				H3 (Marsh Creek Reservoir). Ten sand bag		
	11. HAS A FISH KILL OCCURRED? If YES, Provide dates, times, and measures for each IR.			NOTE:							
12. ARE FISH AND DISTRESS?	OR OTHER AQUA	TIC LIFE IN	NO	NOTE:							
13. AS OF THE DATE OF THIS REPORT, DOES DRILLING FLUID REMAIN IN THE WETLAND OR WATERCOURSE?			YES	NOTE:	Drilling fluid remains in pond H3 (Marsh Creek Reservoir)						
14. IS THERE NOT TURBIDITY IN TH dates, times, and du	IE WATERCOURSE		YES	NOTE:	Drilling fluid 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	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 PRIVATE:		NOTE:		
	NAME:		DATE:		TIME:		PUBLIC OR PRIVATE:		NOTE:		
		NAN	ME OF ALL PERSON(S) PR	OVIDING IN	FORMATION FO	R THIS REPOR		ACT INFORM	IATION		
	NAME:	Josh Prosceno	PHONE:	570-336-9606		EMAIL:	josh.prosceno(@tetratech.com	TITLE:	LEI	
NAME: Chris Cable		PHONE: 518-533-9847		EMAIL:	chris.cable@tetratech.com TIT		TITLE:	Environmental Inspection Manager			
	NAME:		PHONE:			EMAIL:			TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
	NAME:		PHONE:			EMAIL:			TITLE:		
				I	MPACTED RESOU	JRCE(S)					
	RESOURCE:	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR	Pl	EM/PFO	WHAT STEPS I ELIMINATE O			Sandbag and silt fence con Drilling fluid recovered usi	tainment constructed at release point. ing hand tools and pumps.	
	RESOURCE: STREAM S-H10		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR	DRAINS TO HQ-TSF		ELIMINATE O	EPS HAVE BEEN TAKEN TO TE OR MITIGATE THE		Sandbag and silt fence con Drilling fluid recovered usi	tainments 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	PS HAVE BEEN TAKEN TO E OR MITIGATE THE		Sandbag and silt fence con Drilling fluid recovered usi	tainments constructed within stream. ing hand tools and pumps.	
	RESOURCE: POND H3		WETLAND TYPE: SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	HQ-TSF		IMPACTS? WHAT STEPS I ELIMINATE O IMPACTS?		e installed at the confluence of S-H10 and			
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS HAVE BEEN TAKEN TO ELIMINATE OR MITIGATE THE IMPACTS?					
	RESOURCE:		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?					
	RESOURCE:		SURFACE WATER CLASSIFICATION OR			WHAT STEPS I ELIMINATE O IMPACTS?					
			WETLAND TYPE: ADDITIONAL INFORM								
IF DRILLING RESUMED DOES IT INVOLVE A CHANGE NO NOTE:											
PUBLIC OR PRIVATE WATER SUPPLY - PROXIMITY TO			NOTE:								
PROXIMITY TO PUBLIC OR PRIVATE WATER SUPPLIES AND WELLS?			YES	NOTE:							
			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. □								
ESTIMATED AERIAL EXTENT OF RELEASE			8/10/2020 - 25'x25' at initial IR release location								
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)									
			8/10/2020 - Sandbag and silt for confluence of S-H10 and pond		•	•				0. 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:	9/15/2020		
	PADEP USE ONLY										
	AUTHORIZATIO	N FROM PADEP OR CCD TO RESUME		NICETT							
		HDD REQUIRED?		NOTE:							
	Pl	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:

8/10/2020

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

8/10/2020

Notes:

8/10/2020

8/10/2020

8/17/2020





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

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

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).

Notes:

View of IR release location within WL-H17.

8/17/2020

Notes:





Notes:

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

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

8/17/2020



8/17/2020

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Notes:

Notes:

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Notes:

8/24/2020





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).

8/17/2020 8/17/2020



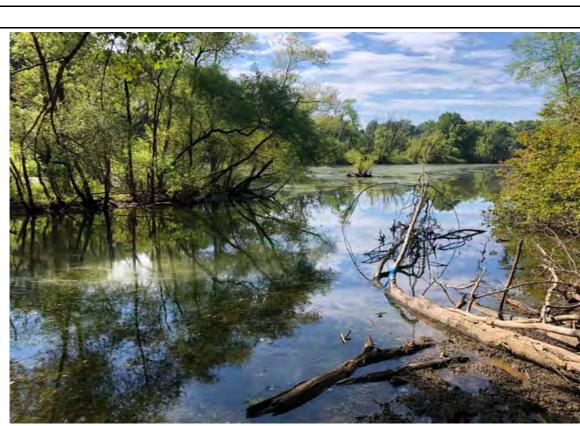


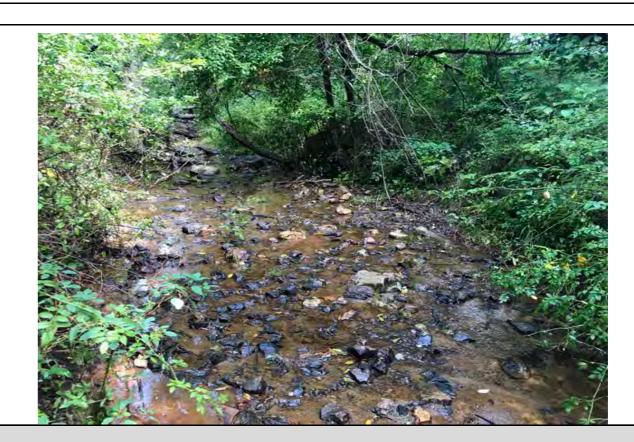
View of IR release location within WL-H17.

Notes:

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

8/22/2020 8/22/2020





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

8/24/2020

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



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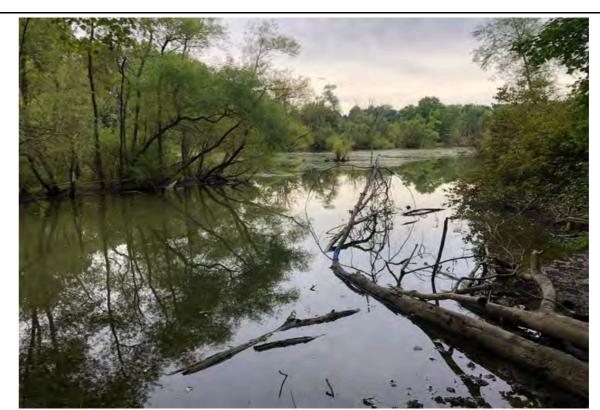
Notes:

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

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

8/31/2020





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

8/31/2020 8/31/2020





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

9/4/2020 9/5/2020



Notes: View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek View of stream S-H10 (UNT to Marsh Creek) Reservoir). 9/14/2020 9/14/2020

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

Environmental Inspection NAME: Chris Cable TITLE: SIGNATURE: DATE: 9/15/2020 Manager

