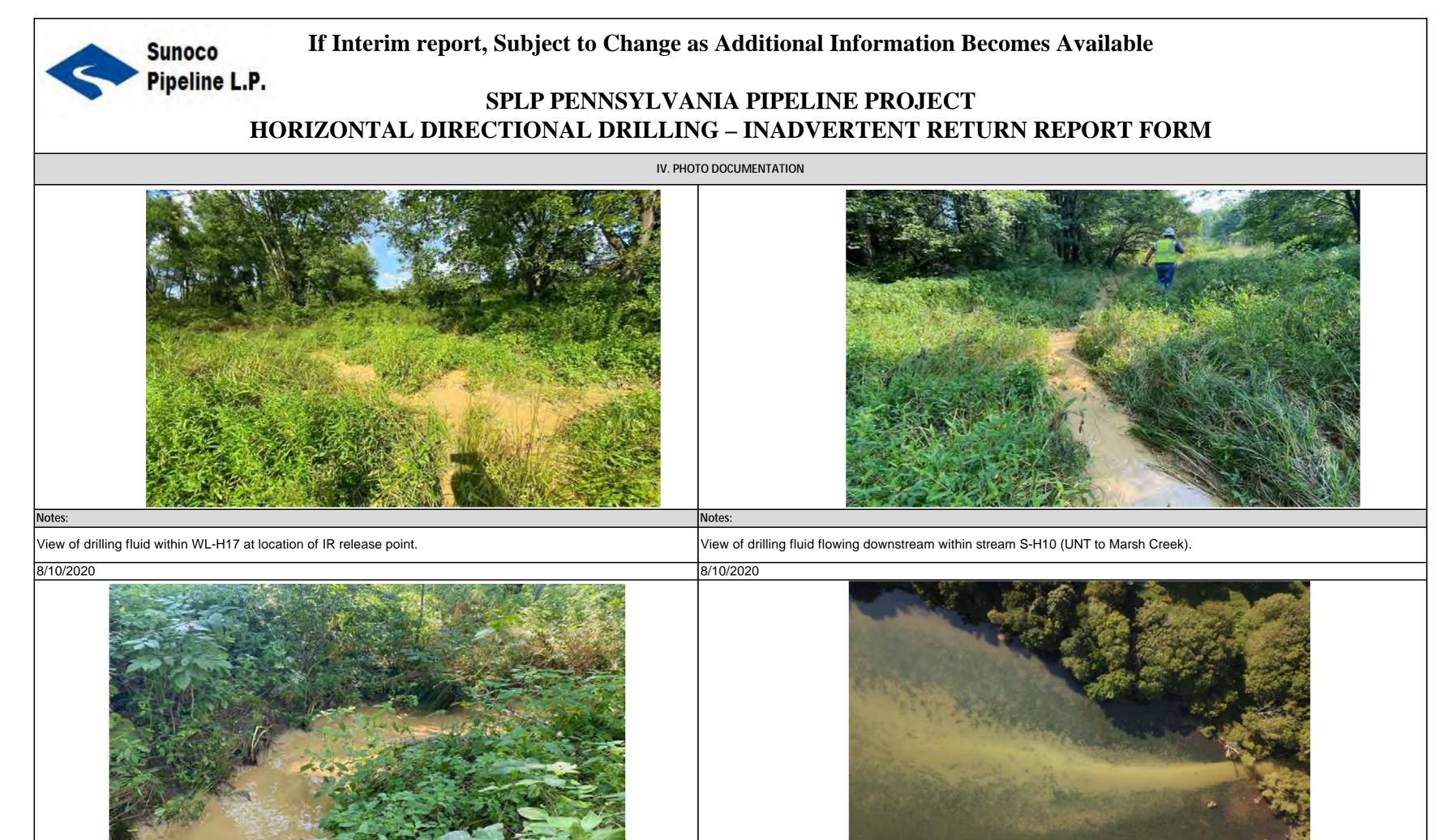
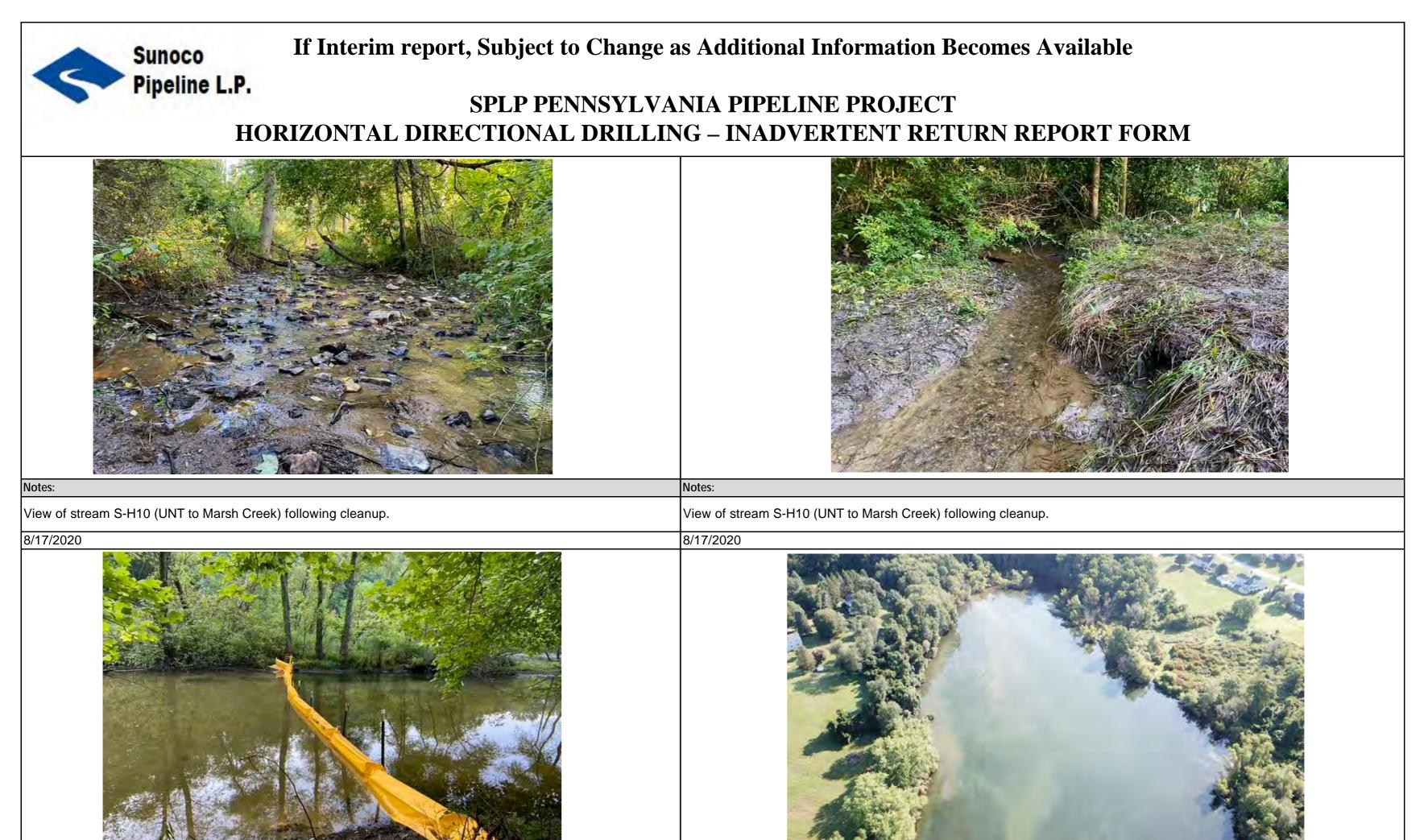
			KECTIONAL I	DRILLING – INAD	VERTENT RETURN REPORT FORM			
<section-header></section-header>	IF INTERIM, SEE NOTES: NOTE ABOVE.	Interim Report 12: On 8/10/2020 at approximately 1530 hours, drilling fluid emerged within wetland WL-H17, and entered streams S-H11 and S-H10. The drilling fluid continued down S-H10 and entered pond H3 (Marsh Creck 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 initi 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 dis of the IR. Two turbidity curtains were installed at the confluence of S-H10 (UNT to Marsh Creck) and pond H3 (Marsh Creck Reservoir). Tere members began clean up and recovery of the drilling fluid starting at the location of the IR release point working their way to 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 uses 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 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-H 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 H10. As of 11/2/200, additional environmental surveys and anomaly proofing have been completed and results are being compiled. Drilling fluid has been recovered form WL-H17, S-H11 H10. As of 11					ns of drilling fluid released (The initial ace dimensions of the emergence, ag was immediately stopped upon discover and bag and silt fence dams were are IR release point working their way toward S. Stream water was pumped and used to tion of the inadvertent return, within wetlat emains within S-H10, the containment fluid has been recovered from WL-H17, S- 8/31/2020, the containment structure een recovered from WL-H17, S-H11, and g for grout of annulus, awaiting minor	
<b>REPORT DATE:</b>	Current as of 11/2/2020			LIGNMENT #	PA-CH-100.0000-RD			
<b>PROJECT SITE:</b>	PPP 6 - S3-0290 - Milford Rd./Little Conesto	stoga Rd HDD COMPANY:		Michels Directional Crossing				
DATE AND TIME WHEN IR WAS INITIALLYLOCATION: STREET427-423 Green Valley Rd, Downingtown, PA		DISCOVERED		DATE:	8/10/2020	TIME:	1530	
		19335	<b>MUNICIPALITY:</b>		Upper Uwchlan	COUNTY:	Chester	
<b>LATITUDE:</b> 40.0794 <b>LONGITUDE:</b> -75.7104		-75.7104	FROM STATION:		14824+00	TO STATION	14824+00	
STREAM NAME:	S-H10 (UNT to Marsh Creek), S-H11 (UNT	o Marsh Creek) POND / LAKE NAME:		Pond H3 (Marsh Creek Reservoir)	WETLAND NAME:	WL-H17 (PEM, PFO)		
DEP PERMIT Nos.	E&S Permit # ESG0100015001, Water Obstr	ruction Permit E15-862	I			I		
(102 AND 105) CORPS PERMIT	PASPGP-5 (issued April 12, 2017)							
NO.		Interim 12 110220						
IR TRACKING ID: IS AUGUST 8, 2017	PPP6_PA-CH-0100.0000-RD_MilfordRd_IR	12_110320						
ORDER APPLICABLE?	YES LISTED IN WHICH EXHIBIT?	3	DESCRIPT	ION IN EXHIBIT	HDDs for Reevaluation			
		COM	PLETE THE F	FOLLOWING QUES	STIONS IF APPLICABLE:			
. IS THE IR ON-G f all IRs.	OING? Provide dates, times, and duration	ΝΟ	NOTE:	and S-H10. The dril	ximately 1530 hours, approximately 7,712 gallo ling fluid continued to flow down S-H10 and er	• •		
. HAS THE IR CE	ASED? Provide date and time for each IR.	YES	NOTE:	<ul> <li>drilling was stopped.</li> <li>On 8/10/20 at approximately 1530 hours, approximately 7,712 gallons of drilling fluid emerged within WL-H17, and entered streams and S-H10. The drilling fluid continued to flow down S-H10 and entered pond H3 (Marsh Creek Reservoir). The IR ceased emerging</li> </ul>				
	ILLING STOPPED? Provide date and	Drilling was immediately stop	pped on 8/10/20	drilling was stopped.				
ime for each IR.								
I. VOLUME OF IR	(CURRENT ESTIMATE)?							
4A. DOES THIS VOLUME RELEASE REPRESENT A TOTAL VOLUME RELEASED SINCE THE RELEASE BEGAN?		Approximately 7,712 gallons						
		Approximately 7,712 gallons YES	NOTE:	Approximately 7,712	2 gallons of drilling fluid emerged on 8/10/2020	).		
FOTAL VOLUME BEGAN?	RELEASED SINCE THE RELEASE			Approximately 7,712	2 gallons of drilling fluid emerged on 8/10/2020	).		
FOTAL VOLUME BEGAN? 5. HAS THIS VOLU REPORT? IF SO, F	RELEASED SINCE THE RELEASE	YES	NOTE: NOTE:		2 gallons of drilling fluid emerged on 8/10/2020 vas discovered and drilling was stopped.			
FOTAL VOLUME BEGAN? 5. HAS THIS VOLU REPORT? IF SO, H 5. WHAT IS THE D and times.	RELEASED SINCE THE RELEASE UME CHANGED SINCE THE LAST HOW? DURATION OF EACH IR? Provide dates	Image: Provide structure       YES         NO       NO         The IR ceased emerging on 8.         Two turbidity curtains were in H10 (UNT to Marsh Creek). Creek Reservoir). Crew mem	NOTE: NOTE: /10/2020 at 153 nstalled at the c Crew members bers used pump	30 hours after the IR w onfluence of S-H10 (Us began clean up and r os and hand tools to red		ek Reservoir). Ten sand bag an ion of the IR release point wor	king their way towards pond H3 (Marsh	
FOTAL VOLUME BEGAN? 5. HAS THIS VOLU REPORT? IF SO, I 6. WHAT IS THE D and times. 7. WHAT STEPS W Provide dates and ti 8. WHAT REVISIO MPLEMENTED P	RELEASED SINCE THE RELEASE UME CHANGED SINCE THE LAST HOW? DURATION OF EACH IR? Provide dates	Image: Provide state       YES         YES       NO         The IR ceased emerging on 8.         Two turbidity curtains were in H10 (UNT to Marsh Creek).	NOTE: NOTE: /10/2020 at 153 nstalled at the c Crew members bers used pump	30 hours after the IR w onfluence of S-H10 (Us began clean up and r os and hand tools to red	vas discovered and drilling was stopped. UNT to Marsh Creek) and pond H3 (Marsh Cre ecovery of the drilling fluid starting at the locat	ek Reservoir). Ten sand bag an ion of the IR release point wor	king their way towards pond H3 (Marsh	
FOTAL VOLUME         BEGAN?         5. HAS THIS VOLUME         FEPORT? IF SO, I         6. WHAT IS THE D         and times.         7. WHAT STEPS W         Provide dates and ti         8. WHAT REVISIO         MPLEMENTED P         ORILLING? Provide	RELEASED SINCE THE RELEASE UME CHANGED SINCE THE LAST HOW? DURATION OF EACH IR? Provide dates VERE TAKEN TO STOP EACH IR? mes. DNS TO THE DRILLING WERE PRIOR TO EACH RESUMPTION OF	Image: Provide structure       YES         NO       NO         The IR ceased emerging on 8.         Two turbidity curtains were in H10 (UNT to Marsh Creek). Creek Reservoir). Crew mem	NOTE: NOTE: /10/2020 at 153 nstalled at the c Crew members bers used pump	30 hours after the IR w onfluence of S-H10 (Us began clean up and r os and hand tools to red	vas discovered and drilling was stopped. UNT to Marsh Creek) and pond H3 (Marsh Cre ecovery of the drilling fluid starting at the locat	ek Reservoir). Ten sand bag an ion of the IR release point wor	king their way towards pond H3 (Marsh	
FOTAL VOLUME         BEGAN?         5. HAS THIS VOLUME         REPORT? IF SO, I         6. WHAT IS THE D         and times.         7. WHAT STEPS W         Provide dates and ti         8. WHAT REVISIO         MPLEMENTED P         ORILLING? Provide         8a. What was the tee	RELEASED SINCE THE RELEASE UME CHANGED SINCE THE LAST HOW? DURATION OF EACH IR? Provide dates VERE TAKEN TO STOP EACH IR? mes. DNS TO THE DRILLING WERE RIOR TO EACH RESUMPTION OF de dates and times. chnical basis for resuming drilling?	Image: Provide structure       YES         NO       NO         The IR ceased emerging on 8.         Two turbidity curtains were in H10 (UNT to Marsh Creek). Creek Reservoir). Crew mem	NOTE: NOTE: /10/2020 at 153 nstalled at the c Crew members bers used pump	30 hours after the IR w onfluence of S-H10 (Us began clean up and r os and hand tools to red	vas discovered and drilling was stopped. UNT to Marsh Creek) and pond H3 (Marsh Cre ecovery of the drilling fluid starting at the locat	ek Reservoir). Ten sand bag an ion of the IR release point wor	king their way towards pond H3 (Marsh	
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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.
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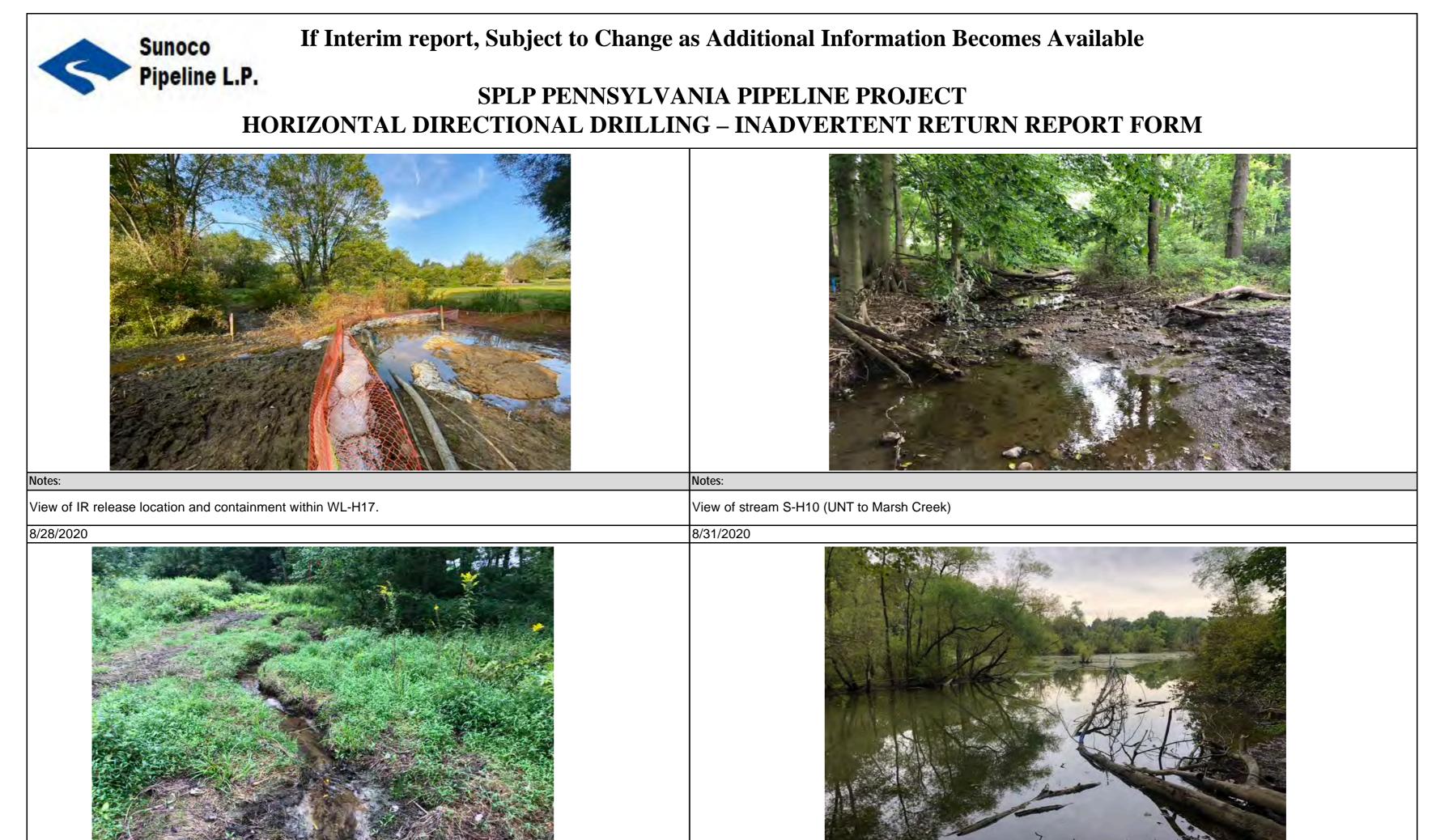
LIST AN	NY NOTIFICATIONS OF INCIDENT MA	DE TO WATER INTAKES	, WATER WEI	LL OWNERS AN	D LANDOWNER		G DATE ANI	D TIME WHEN EACH N	NOTIFICATION OCCURRED:
NAME:	2 Private Well Owners	DATE:	8/11/2020	TIME:		PUBLIC OR PRIVATE:	Private	NOTE:	Letters sent.
NAME:	1 Public Water Supply	DATE:	8/10/2020	TIME:	1625	PUBLIC OR PRIVATE:	Public	NOTE:	Informed of release on 8/10, letter sent 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:	
	NAI	ME OF ALL PERSON(S) PI	ROVIDING IN	FORMATION F	OR THIS REPORT	Γ ΑΝΟ CONT	ACT INFORM	MATION	
NAME:	Josh Prosceno	PHONE:	570-336-9606		EMAIL:	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:			EMAIL:			TITLE:	
NAME:		PHONE:			EMAIL:			TITLE:	
NAME:		PHONE:			EMAIL:			TITLE:	
			IN	MPACTED RESO					
<b>RESOURCE:</b>	WETLAND WL-H17	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	Pł	E <b>M/PFO</b>	WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE 1	THE	Drilling fluid recovered u	ontainment constructed at release point. using hand tools and pumps.
<b>RESOURCE:</b>	STREAM S-H10	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAINS	S TO HQ-TSF	ELIMINATE O IMPACTS?	OR MITIGATE THE		Drilling fluid recovered u	ontainments constructed within stream. using hand tools and pumps.
<b>RESOURCE:</b>	STREAM S-H11	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	DRAINS	S TO HQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE 1	THE	Drilling fluid recovered u	ontainments constructed within stream. using hand tools and pumps.
<b>RESOURCE:</b>	POND H3	SURFACE WATER CLASSIFICATION OR WETLAND TYPE:	H	IQ-TSF	WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE 1	THE	Two turbidity curtains we pond H3.	ere installed at the confluence of S-H10 and
<b>RESOURCE:</b>		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE 1	ſĦE		
<b>RESOURCE:</b>		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?	R MITIGATE 1	THE		
<b>RESOURCE:</b>		SURFACE WATER CLASSIFICATION OR WETLAND TYPE:			WHAT STEPS I ELIMINATE O IMPACTS?				
			AD.	<b>DITIONAL INFO</b>	ORMATION				
	SUMED DOES IT INVOLVE A CHANGE IENT, DEPTH OR ALIGNMENT?	NO	NOTE:						
	ATE WATER SUPPLY - PROXIMITY TO STREAM WATER INTAKES?		NOTE:						
	TO PUBLIC OR PRIVATE WATER UPPLIES AND WELLS?	YES	NOTE:						
LIST AND DES	SCRIBE MATERIAL(S) RELEASED:	A mixture of bentonite clay a	nd water with na	ative cuttings					
HAS THE ESTIMATED QUANTITY OF THE RELEASE INCREASED SINCE THE LAST REPORT? IF SO, HOW?		NOTE:	Approximately 7,7	712 gallons of drillin	ng fluid emerged	l on 8/10/2020.			
ESTIMATED	D AERIAL EXTENT OF RELEASE	8/10/2020 - 25'x25' at initial	IR release locat	ion					
· ·	AR FEET/MILES) OF DOWNSTREAM GE OF RELEASE, IF ANY	IR traveled approximately 1,	800 feet downstr	ream from S-H10 (	UNT to Marsh Cree	k) into pond H3	(Marsh Creek	Reservoir). Extent into po	ond H3 (Marsh Creek Reservoir) unknown.
DESCR	RIBE ROOT CAUSE(S) OF IR								
	NTS: NOTE ANY MATERIAL CHANGE RMATION FROM PRIOR REPORTS)								
	<b>C IMPACTS FROM THE IR BEEN</b> <b>D? Please provide date of remediation.</b>	8/10/2020 - Sandbag and silt confluence of S-H10 and pone		*	Ŭ				). Two turbidity curtains installed at the
		PRINTED NAME, 7				-			
	Chris Cable TITLE			SIGNATURE OF P				11/3/2020	
NAME:	Chris Cable TITLE:	Environmental Inspection Ma	mager			Ny Caba	DATE:	11/3/2020	
AUTHORIZATION	N FROM PADEP OR CCD TO RESUME			PADEP USE (	JNLY				
	HDD REQUIRED?		NOTE:						
PE	ERMIT AMENDMENT?		NOTE:						
PADEP / CCD REVIEWER NAME:				DATE:					



Notes:	Notes:
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	8/10/2020
<image/> <image/>	<image/>
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.
Notes:	Notes: View of stream S-H10 (UNIT to Marsh Crook) following cleanup
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



Notes:	Notes:
View of turbidity curtain at the confluence of stream S-H10 (UNT to Marsh Creek) and pond H3 (Marsh Creek	View of pond H3 (Marsh Creek Reservoir).
Reservoir).	
8/17/2020	8/17/2020
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
<image/>	<image/>



Notes:	Notes:
View of stream S-H10 (UNT to Marsh Creek)	View of pond H3 (Marsh Creek Reservoir).
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)
View of IR release location and containment within WL-H17.         9/4/2020	View of stream S-H10 (UNT to Marsh Creek)         9/5/2020
View of IR release location and containment within WL-H17. 9/4/2020	View of stream S-H10 (UNT to Marsh Creek)         9/5/2020         Image: Constraint of the stream S-H10 (UNT to Marsh Creek)         9/5/2020         Image: Constraint of the stream S-H10 (UNT to Marsh Creek)
/iew of IR release location and containment within WL-H17.	View of stream S-H10 (UNT to Marsh Creek)         9/5/2020



Notes:	Notes:
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).
9/28/2020	9/28/2020
Notes:	Notes:
View of IR release location and containment within WL-H17.	View of IR release location and containment within WL-H17.
<text></text>	
Jotas:	Note:
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.

