
 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061			Project No.: E33-20-08-09-001		Page: 1 of 1	
			Boring No.: SB-14		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA			Drill Crew: Jim Davis		Sampling Method: acetate shaves	
Logged by: Jordan Vaughn			Date Started: 4-27-09		Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
0915		0.0		0.0-0.7 Gravel / Ashfault		
1				0.7-5.0 Sandy clay (CL), brown (7.5YR 4/4), soft, moderate plasticity, damp.		
2						
3						
4						
5						
0919						
6						
7						
8						
9						
10						
11						

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-15		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Oreland, PA		Drill Crew: J. Davis		Sampling Method: acetate sleeves
Logged by: Jordan Vaughn		Date Started: 4-27-09		Date Finished: 4-27-09
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
0934		0.0		0.0 - 1.0 Sand blasting material. Black (N 2.5/), loose, non-plastic, dry, organic matter, rootlets. 1.0 - 1.3. Sandy clay (CL), brown (7.5 YR 4/3), soft, moderate plasticity, damp. 1.3 - 1.8. Silty sand (SM), dark brown (7.5 YR 3/2), loose, non-plastic, dry. Contains sand blasting material + organic matter. 1.8 - 5.0. Clay (CL), brown (7.5 YR 4/4), soft, moderate plasticity, damp.
1				
2				
3				
4				
5				
0938				
6				
7				
8				
9				
10				
11				


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water




 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061			Project No.: E33-20-08-09-001		Page: 1 of 1	
			Boring No.: SB-16		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Oreland, PA			Drill Crew: Jim Davis		Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn			Date Started: 4-27-09		Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
0949		0.0		0.0-1.5 Silty clayey sand (SM), very dark gray (10YR 3/1), soft, low plasticity, dry, organic matter and sand blasting material and quartz and mica.  1.5-5.7. Sand blasting material, black (N 2.5/), loose, non-plastic, dry.		
1						
2						
3						
4	TCA-SB-16 - 0304 + TCA-SB-16 - 0405 (DHP)					
5						
0952		0.0		5.7-10.0 Sandy clay (CL) yellowish brown (10YR 5/8), soft, moderate plasticity, wet, mica, quartz, & mafic sand.		
6						
7						
8						
9						
10						
0958						
11						

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061			Project No.: E33-20-08-09-001		Page: 1 of 1	
			Boring No.: SB-17		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA			Drill Crew: Jim Davis		Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn			Date Started: 4-27-09		Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
1015		0.0		0.0-0.8 Silty sand (SM), very dark gray (7.5 YR 3/1), loose, non-plastic, dry, predominately sand blasting material. 0.8-4.0 Sand (SP), black (N 2.5/), loose, non-plastic, dry, predominately sand blasting material.		
1						
2						
3						
4						
5				4.0-8.0 Clay (CL), yellowish brown (10YR 5/6), soft, plastic, damp, trace mica.		
1021						
6						
7						
8				8.0-10.0 Sandy clay (CL), yellowish brown (10YR 5/6), stiff, low plasticity, dry, mottled.		
9						
10						
1023						
11						


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water




 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: <b>SB-18</b>		Drilling Rig: <b>Geoprobe</b>
		Contractor: MEA Environmental		Drilling Method: <b>direct push</b>
Project Location: Orelan, PA		Drill Crew: <b>Jim Davis</b>		Sampling Method: <b>acetate sleeve</b>
Logged by: <b>Jordan Vaughn</b>		Date Started: <b>4-27-09</b>		Date Finished: <b>4-27-09</b>
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1048				0.0 - 2.0. Sand (SP), black (10YR 5/1), loose, non-plastic, dry, sand blasting material w/ minor gravel
1			0.0	
2			0.0	2.0 - 3.5. Sand (SP), black (10YR 5/1), loose, non-plastic, dry, sand blasting material.
3			0.0	
4			2.0	3.5 - 5.0 Sand (SP), black (10YR 5/1), loose, non-plastic, <del>dry</del> sand wet, sand blasting material, odor, tar-like material 4.9-5.0.
5	<u>TCCA-SB-18-0405</u>		2.6	5.0-6.0 Clay (CL), very dark grayish-brown (10YR 3/2), soft, plastic, damp, odor + staining.
6			5.0	6.0-10.0 Clay (CL), dark greenish gray (N 4/1), soft, plastic, dry
7			2.0	
8			0.0	
9			↓	
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061			Project No.: E33-20-08-09-001		Page: 1 of 1	
			Boring No.: SB-19		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA			Drill Crew: Jim Davis		Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn			Date Started: 4-27-09		Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
1120		0.0		0.0-1.8. Sand (SP), black (10YR 2.5/1), loose, non plastic, dry, predominately black sand blasting grit with minor Si-Sand blasting material.		
1						
2				1.8-2.5. Clay (CL), dark brown (10YR 3/3), stiff, low plasticity, dry		
3				2.5-5.0 Clay (CL), dark yellowish brown (10YR 4/6), soft, plastic, damp.		
4						
5						
1130						
6						
7						
8						
9						
10						
11						



ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water




 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: <b>SB-20</b>		Drilling Rig: <b>Geoprobe</b>
		Contractor: MEA Environmental		Drilling Method: <b>direct push</b>
Project Location: Orelan, PA		Drill Crew: <b>Jim Davis</b>	Sampling Method: <b>acetate sleeve</b>	
Logged by: <b>Jordan Vaughn</b>		Date Started: <b>4-27-09</b>	Date Finished: <b>4-27-09</b>	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
<b>1140</b> 1 2 3 4 5 <b>1150</b> 6 7 8 9 10 11		<b>0.0</b> 		<b>0.0 - 3.5. clay (CL), yellowish brown (10YR 5/6), stiff, low plasticity, dry.</b>  <b>3.5-5.0 Silt (ML), yellowish brown (10YR 5/6), stiff, low plasticity, dry, trace mica.</b>

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-21		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Oreland, PA		Drill Crew: Jim Davis	Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn		Date Started: 4-27-09	Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1301		0.0		0.0-0.2 Sandy silt (ML), brown (MSYR 4/4), loose, non-plastic, dry, minor sand blasting material.
1				0.2-2.0. Sand (SP), black (N 2.5/), loose, non-plastic, dry, predominately sand blasting material.
2				2.0-5.0. Clay (CL), strong brown (10YR 4/6), soft, high plasticity, damp.
3				
4				
5				
1306				
6				
7				
8				
9				
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water





Tetra Tech EMI  
7 Creek Parkway, Suite 700  
Boothwyn, Pennsylvania 19061

Project No.: E33-20-08-09-001

Page: 1 of 1

Boring No.: SB-22

Drilling Rig: Geoprobe

Contractor: MEA Environmental

Drilling Method: direct push

Project Location: Oreland, PA

Drill Crew: Jim Davis

Sampling Method: acetate sleeve

Logged by: Jordan Vaughn

Date Started: 4-27-09

Date Finished: 4-27-09


DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1314		0.0	0	0.0 - 4.3. Sand (SP), black (N 2.5/), loose, non-plastic, dry, predominately sand blasting material.
1				
2				
3	TCCA-SB- 22-0203			
4				4.3 - 5.0 Clay (CL), dark yellowish brown (10YR 4/4), soft, plastic, damp.
5				
1320				
6				
7				
8				
9				
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: <b>SB-23</b>		Drilling Rig: <b>Geoprobe</b>
		Contractor: MEA Environmental		Drilling Method: <b>direct push</b>
Project Location: Oreland, PA		Drill Crew: <b>Jim Davis</b>		Sampling Method: <b>acetate sleeve</b>
Logged by: <b>Jordan Vaughn</b>		Date Started: <b>4-27-09</b>		Date Finished: <b>4-27-09</b>

DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1333		0.0		0.0-1.0. Sand (SP), very dark grayish brown (10YR 3/2), loose, non-plastic, dry, predominately sand blasting material.
1				1.0-1.2. Sandy clay (CL), brown (10YR 4/3) stiff, low plasticity, dry.
2				1.2-1.5 Sand (SP), brown (10YR 4/3), loose, non-plastic, dry, predominately sand blasting material (black grit + silica sand).
3				1.5-1.7. Clay (CL), brown (10YR 4/3), stiff low plasticity, dry.
4	TCCA-SB-23-0305 (TCLP)			1.7-6.0 Sand (SP), brown (10YR 4/3) loose, non-plastic, damp, sand-blasting material (predominately silica w/ minor black grit).
5		2.0		
1339				
6		1.0		6.0-8.5 Clay (CL), very dark grayish brown (10YR 3/2), stiff, low plasticity, damp, stained, odor.
7		0.0		
8				
9				8.5-10.0 Clayey silt (SM), dark yellowish brown (10YR 4/4), <del>stiff, non-plastic</del> dense, non-plastic, dry.
10				
1350				
11				


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water




 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-24		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Orelan, PA		Drill Crew: Jim Davis	Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn		Date Started: 4-27-09	Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
14.00		0.0		0.0-1.5. Clay (CL), dark yellowish brown (10YR 4/4), very dense, non-plastic, dry, trace mica.
1				
2				1.5-5.0, Silty sand (SW) (SN), brown (7.5YR 4/4), medium dense, non-plastic, dry).
3				
4				
5				
14.10				
6				
7				
8				
9				
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-25		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Orelan, PA		Drill Crew: Jim Davis	Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn		Date Started: 4-27-09	Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1415		0.0		0.0-0.9 Sand (SP), black (7.5 YR 2.5/1), loose, non-plastic, dry, sand blasting material - black grit and silica sand + slag material 0.9-3.0 Sand (SP), reddish brown (5YR 4/3), dense, non-plastic, damp, predominately quartz + mica.
1422				3.0-5.0 Silt (SM) (ML), strong brown (7.5YR 5/6), dense, non-plastic, dry.
11				



ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water




 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061			Project No.: E33-20-08-09-001		Page: 1 of 1	
			Boring No.: SB-26		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA			Drill Crew: Jim Davis		Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn			Date Started: 4-27-09		Date Finished: 4-27-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
1426		0.0	 temp well	0.0-4.0 Sand(SP), black (N 2.5/1) to very dark gray (7.5YR 3/1), loose, non-plastic, damp, black sand blasting material		
1				0.0-2.0, silica sand blasting material		
2				2.0-4.0, stained.		
3				4.0-7.0 Sand (SP), dark gray (7.5YR 3/1), loose, non-plastic, wet, black grit and silica sand blasting material with minor slag material.		
4						
5						
1429	TCCA - SB-26-0507					
6						
7						
8				7.0-7.4 Silt (ML), strong brown (7.5YR 5/8), stiff, low plasticity, damp.		
9				7.4-10.0. Silty sand (SW), light yellowish brown (10YR 6/4), stiff, low plasticity, damp, trace mica and quartz.		
10						
1434						
11						

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-27		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Oreland, PA		Drill Crew: Jim Davis		Sampling Method: acetate sleeve
Logged by: Jordan Vaughn		Date Started: 4-27-09		Date Finished: 4-27-09

DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1555				
1		0.0		0.0-0.4 Gravel and sand fill material.
2		↓		0.4-2.0 Sand (SP), very dark grayish brown (10YR 3/2), medium dense, non plastic, damp, predominately silica sand blasting material with minor black sand blasting grit, stained.
3		3.2		2.0-3.5 Silty sand (SP), (SM), very dark grayish brown (10YR 3/2), dense, dense, non-plastic, wet, silica sand blasting material with tar-like sludge.
4		0.0		3.5-8.2 Clay (CL), very dark grayish brown (10YR 3/2), stiff, low plasticity, damp, stained.
5	1601			
6	TCLA-SB-27-0506			
7				
8				
9				
10	161			
11		↓		8.2-10.0 Clay (CL), yellowish brown (10YR 4/4), stiff, low plasticity, dry.


ppm = parts per million

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= Depth to Water




 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-28		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Oreland, PA		Drill Crew: Jim Davis		Sampling Method: acetate sleeve
Logged by: Jordan Vaughn		Date Started: 4-27-09		Date Finished: 4-27-09
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1619		0.0		0.0 - 1.5 Silty sand (SW), very dark brown (7.5YR 2.5/2), loose, non plastic, dry, predominately sand blasting material (black grit) with minor quartz, quartzite, and organic matter.
1				
2				1.5 - 1.9 Sand (SP), dark gray (7.5YR 3/1), dense, non plastic, dry, predominately sand blasting material and slag.
3				1.9 - 5.0 Clay (CL), strong brown (7.5YR 5/8), stiff, low plasticity, dry.
4				
5				
61629				
7				
8				
9				
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-29		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Orelan, PA		Drill Crew: Jim Davis		Sampling Method: acetate sleeve
Logged by: Jordan Vaughn		Date Started: 4-27-09		Date Finished: 4-27-09
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
1633				0.0-0.7 Sand and gravel fill material
1		1.3		0.7-1.7 Sand (SP), black (N <sup>2.5</sup> /), very dense, non-plastic, dry, sand blasting material (black).
2		0.0		1.7-5.0 Clay (CL), strong brown (7.5YR 5/8), stiff, low plasticity, damp, stained 1.7 to 1.9.
3				
4				
51638				
6				
7				
8				
9				
10				
11				


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water



 Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061		Project No.: E33-20-08-09-001	Page: 1 of 1
		Boring No.: SB-30	Drilling Rig: Geoprobe
		Contractor: MEA Environmental	Drilling Method: direct push
Project Location: Orelan, PA		Drill Crew: Jim Davis	Sampling Method: acetate sleeve
Logged by: Jordan Vaughn		Date Started: 4-28-09	Date Finished: 4-28-09


DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
0911		0.0		0.0-1.1 Clay (CL), very dark grayish brown (10YR 3/2), med stiff, low plasticity, damp, gravel/ash fault at surface.
1				
2				1.1-1.8 Clay (CL), brown (10YR 4/3), moderately stiff, low plasticity, damp.
3				1.8-5.0 Clay (CL), brown (7.5YR 4/3), soft, low plasticity, damp.
4				
5				
0915				
6				
7				
8				
9				
10				
11				

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1
		Boring No.: SB-31		Drilling Rig: Geoprobe
		Contractor: MEA Environmental		Drilling Method: direct push
Project Location: Orelan, PA		Drill Crew: Jim Davis	Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn		Date Started: 4-29-09	Date Finished: 4-29-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION
0919	TCCA-SB-31-0102	0.0		0.0-0.8 Sand and gravel and asphalt fill material.
1				0.8-1.7 Solidified tar-like material and loose sand-blasting material.
2				1.7-2.7 Clay (CL), brown (7.5 YR 4/2), soft, plastic, damp, stained.
3				2.7-5.0 Clay (CL), brown (7.5 YR 4/4), soft, plastic, damp.
4				
5				
0921				
6				
7				
8				
9				
10				
11				


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water





 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>			Project No.: E33-20-08-09-001		Page: ( of )	
			Boring No.: SB-32		Drilling Rig: Geoprobe	
			Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Oreland, PA			Drill Crew: Jim Davis		Sampling Method: acetate sleeve	
Logged by: Jordan Vaughn			Date Started: 4-28-09		Date Finished: 4-28-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION		
0932				0.0-0.5 Sand (SW), and gravel fill material.		
1		9		0.5-1.0 Sand (SP), dark gray (7.5 YR 4/1), loose, non plastic, damp, stained, pre dominately silica sand blasting material.		
2		5		1.0-2.0 Sand (SP), black (5YR 2.5/1), dense, non plastic, wet, contains tar-like material and slag and woody debris.		
3	TCCA-SB-32-0203	20		2.0-3.8. Clay (CL), dark grayish brown (10YR 4/2), stiff, low plasticity, "tar" nodules, damp, "tar" nodules, stained, odor		
4		10		3.8-5.0 Clay (CL), brown (10YR 4/3), stiff, low plasticity, dry.		
5		0.0				
0940						
6						
7						
8						
9						
10						
11						

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water

 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1	
		Boring No.: SB-33		Drilling Rig: Geoprobe	
		Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA		Drill Crew: Jim Davis	Sampling Method: 4-28-09		
Logged by: Jordan Vaughn		Date Started: 4-28-09	Date Finished: 4-28-09		
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION	
0946		0.0	 <p>temp well</p>	0.0-1.7. Sand (SP), very dark gray (7.5 YR 3/1), to black (N 2.5/), loose, non plastic, damp, sand blasting material (black grit and silica sand), stained	
1				1.7-6.2 Sand (SP), very dark gray (7.5 YR 3/1), to black (N 2.5/), loose, non-plastic, wet, highly stained, from 3.8 to 6.2, odor, sheen.	
2					
3					
4					
5					
0948	TCCA-SB - 33 - 0406				
6		3			6.2-7.5 Clay (CL), very dark gray (10YR 3/1), soft, plastic, wet, stained, sheen, odor.
7		4			
8		6			7.5-10.0 Clay (CL), very dark gray (10YR 3/1), stiff, low plasticity, damp, stained, odor.
9		9			
10		12			
1003					
11					


ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water



 <p>Tetra Tech EMI 7 Creek Parkway, Suite 700 Boothwyn, Pennsylvania 19061</p>		Project No.: E33-20-08-09-001		Page: 1 of 1	
		Boring No.: SB-34		Drilling Rig: Geoprobe	
		Contractor: MEA Environmental		Drilling Method: direct push	
Project Location: Orelan, PA		Drill Crew: Jim Davis		Sampling Method: acetate skave	
Logged by: Jordan Vaughn		Date Started: 4-28-09		Date Finished: 4-28-09	
DEPTH (feet)	SAMPLE INTERVAL (feet)	PID (ppm)	WELL COMPLETION	LITHOLOGY DESCRIPTION	
1013		0.0		0.0 - 2.4 Sand (SP), brown (7.5 YR 4/2), loose, non plastic, damp, predominately silica sand + black grit sand blasting material, stained, organic matter and debris.	
1					
2					
3				2.4 - 4.4 Sand (SP), brown (7.5 YR 3/2), loose, non plastic, wet, stained, predominately silica sand blasting material with minor black sand blasting grit.	
4					
5				4.4 - 6.2 Sandy clay (CL), dark gray (10YR 4/1), soft, plastic, wet, stained, tar-like material and debris.	
1037	TCCA-SB -34-0406 (TCLP)	↓			
6		2.0		6.2 - 7.5 Silty clay (CL), dark grayish brown (10YR 4/2), soft, plastic, damp, stained, odor.	
7					
8		3.0		7.5 - 8.8 Silty clay (CL), dark grayish brown (10YR 4/2), soft, plastic stiff, low plasticity, dry, stained, trace quartzite upto 4 cm.	
9		0.0		8.8 - 10.0 Silt ( <sup>ML</sup> <del>SM</del> ), brown (7.5 YR 5/4), dense, non-plastic, dry.	
10					
1046		↓			
11					

ppm = parts per million

ND = Non-Detect

bgs = below ground surface

= Depth to Water