



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> CT&E Environmental	<b>MONUMENT TYPE:</b> 6" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> Bobby Jordan	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> Mark Hanker	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 18 feet		<b>RIG TYPE:</b> Mobile B-53	<b>FILTER PACK:</b> Silica Sand
<b>DATE:</b> December 19, 2002		<b>METHOD:</b> Hollow-stem Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 5:20 pm	<b>COMP. TIME:</b> 8:00 pm	<b>BORING ID:</b> DCMW006-02	<b>GROUT:</b> Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> DCMW006-02	<b>TOP OF CASING ELEV.:</b> 12.23' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
2.5 to 4	1.5	16/13/13/15		CONCRETE: Driller Reported 2.5' of Concrete	0	10		concrete pad	
4 to 6	0.0	6/7/18/12		FILL: Silty Sand - Trace to Some Organics - Frequent Brick Fragments - Moist - Medium Dense to Dense	1	9		--1.0' bgs	
6 to 8	2.0	1/2/1/6		FILL: Silty Sand - Some Clay and Gravel - Moist - Loose	2	8			
8 to 10	2.0	2/1/1/1			3	7		2" dia. PVC casing set with medium bentonite chips	
10 to 12	2.0	5/5/6/5		FILL: Sandy Clay - Occasional Organics - Brown - Soft	4	6			
12 to 14	2.0	10/10/20/20		GP: Sandy Gravel - Some Silt - Brown - Moist to Wet at 14' - Dense (Gravel is Rounded)	5	5			
14 to 16	2.0	23/5/10/14			6	4			
16 to 18	2.0	12/14/12/10			7	3			
					8	2			
					9	1			
					10	0			
					11	-1			
					12	-2		--12.0' bgs	
					13	-3		--12.5' bgs	
					14	-4		2" dia. 0.10-slot PVC screen set with #1 silica sand	
					15	-5			
					16	-6			
					17	-7		--17.5' bgs end cap	
					18	-8		--18.0' bgs	

DEPTH TO GW DURING DRILLING (ft. bgs): 14.0

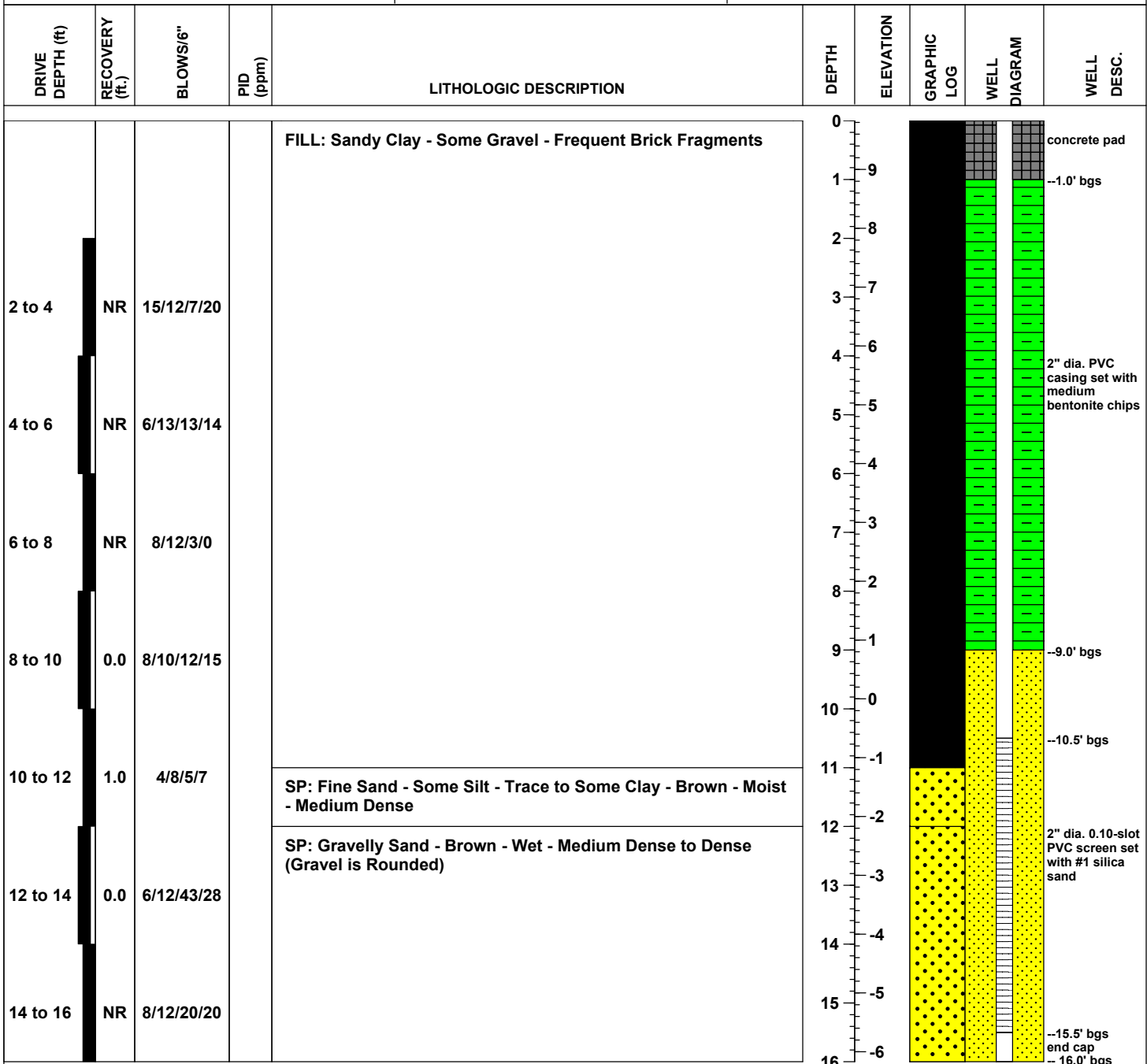
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 11.21 on 12/21/02

**COMMENTS:**

Soil sample 470E-SB30-01 was collected from 2.5' to 4.0' below ground surface (bgs). Soil sample 470E-SB30-02 was collected from 6.0' to 8.0' bgs. Monitoring well DCMW006-02 was installed in borehole with screened interval and 6" endcap set between 12.5' and 18.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 1.97' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: CT&E Environmental		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Bobby Jordan		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 16 feet		RIG TYPE: Mobile B-53		FILTER PACK: Silica Sand	
DATE: December 20, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 8:00 pm	COMP. TIME: 9:30 pm	BORING ID: DCMW007-02		GROUT: Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW007-02		TOP OF CASING ELEV.: 11.62' Above MSL	



DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 10.48 on 12/21/02

**COMMENTS:**

Soil sample 470E-SB31-01 was collected from 4.0' to 6.0' below ground surface (bgs). Soil sample 470E-SB31-02 was collected from 10.0' to 12.0' bgs. Monitoring well DCMW007-02 was installed in borehole with screened interval and 6" endcap set between 10.5' and 16.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 1.79' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.	MONUMENT TYPE: 6" Dia. Above Ground Prot.
PROJECT NUMBER: 470E		DRILLER: Shane	CASING DESC.: 2" Dia. PVC
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Kevin	SCREEN DESC.: 2" Dia. 0.10-Slot PVC
TOTAL DEPTH: 57 feet		RIG TYPE: CME-75	FILTER PACK: #1 Silica Sand
DATE: November 20-21, 2002		METHOD: Hollow-stem Auger	SEAL: None Installed
START TIME: 11:30 am	COMP. TIME: 8:30 am	BORING ID: DCMW008-02	GROUT: 3/8" Bent. Chips
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW008-02	TOP OF CASING ELEV.: 9.16' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	2.0	0/0/0/0		FILL: Sandy Clay - Some Silt - Frequent Organics and Brick Fragments - Soft	0	5			--1.0' bgs
2 to 4	2.0	2/2/4/5			5	0			
4 to 6	0.0	1/4/6/3		FILL: Silty Sand - Frequent Brick Fragments - Wet - Loose					
6 to 8	2.0	7/7/8/9		FILL: Sandy Clay - Some Silt - Frequent Brick Fragments - Soft	10	-5			
8 to 10	2.0	2/2/3/3			15	-10			
10 to 12	2.0	0/0/0/0		OH: Silty Clay - Some Organics - Gray - Soft	20	-15			
12 to 14	2.0	0/0/0/0			25	-20			
14 to 16	2.0	0/0/0/0			30	-25			
16 to 18	2.0	0/0/0/0			35	-30			
20 to 22	2.0	0/0/0/0			40	-35			
24 to 26	2.0	0/0/0/0			45	-40			
26 to 28	2.0	0/0/0/0			50	-45			
28 to 30	2.0	0/0/0/0			55	-50			
30 to 32	2.0	0/0/0/0							
32 to 34	0.0	0/0/0/0							
34 to 36	2.0	0/0/0/4							
36 to 38	2.0	0/0/0/0							
38 to 40	2.0	0/0/2/4							
40 to 42	2.0	2/2/3/4							
45 to 47	2.0	0/0/0/0		CL: Silty Clay - Some Sand - Trace Gravel - Frequent Organics - Gray - Soft					
50 to 52	1.5	4/4/5/6		SP: Gravely Sand - Gray - Wet - Loose to Medium Dense					
55 to 57	0.5	4/4/0/0		SP: Gravely Sand - Trace Silt - Wet - Loose to Very Loose					
				CL: Gravelly Clay - Hard (in tip of split-spoon)					

DEPTH TO GW DURING DRILLING (ft. bgs): 50.0

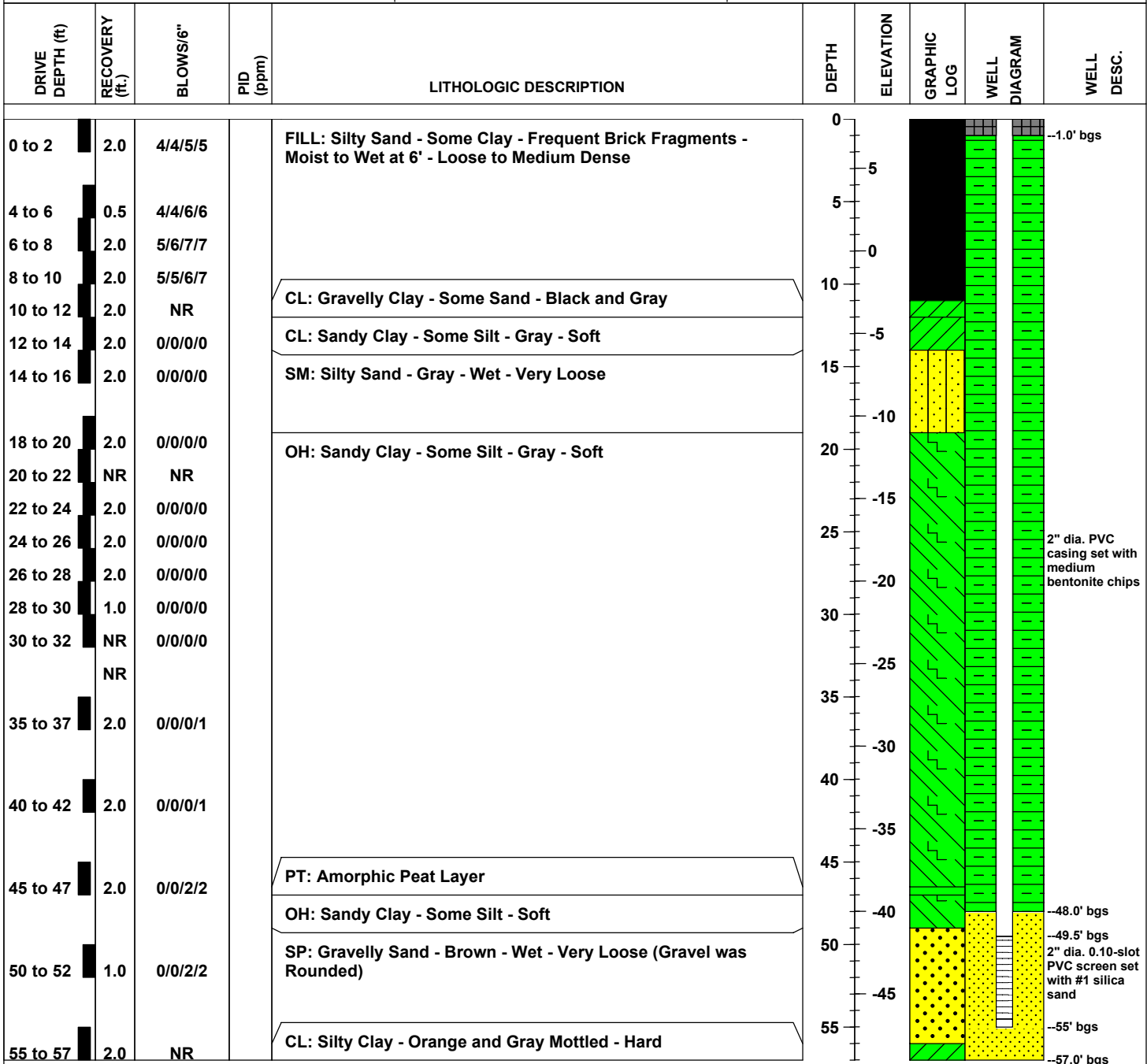
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 7.56 on 12/21/02

## COMMENTS:

Soil sample 470E-SB33-01 was collected from 2.0' to 4.0' below ground surface (bgs). Soil sample 470E-SB33-02 was collected from 12' to 14' bgs. Monitoring well DCMW008-02 was installed in borehole with screened interval and 6" endcap set between 49.5' and 55.0' bgs. Well sand was set from 48' to 57' bgs. Bentonite chips were installed from 1.0' to 48' bgs. Monitoring well was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.75' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Shane		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Kevin		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 57 feet		RIG TYPE: CME-75		FILTER PACK: #1 Silica Sand	
DATE: November 19, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 10:15 am	COMP. TIME: 5:30 pm	BORING ID: DCMW009-02		GROUT: 3/8" Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW009-02		TOP OF CASING ELEV.: 11.05' Above MSL	



DEPTH TO GW DURING DRILLING (ft. bgs): 6.0 and 50.0 DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 9.47 on 12/21/02

#### COMMENTS:

Soil sample 470E-SB34-01 was collected from 6.0' to 8.0' below ground surface (bgs). Soil sample 470E-SB34-02 was collected from 12' to 14' bgs. Monitoring well DCMW009-02 was installed in borehole with a 6" end cap and screened interval set between 49.5' and 54.5' bgs. Well sand was set from 48' to 55' bgs. Bentonite chips were installed from 1.0' to 48' bgs. Monitoring well was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.07' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: CT&E Environmental	MONUMENT TYPE: 6" Dia. Above Ground Prot.
PROJECT NUMBER: 470E		DRILLER: Bobby Jordan	CASING DESC.: 2" Dia. PVC
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Mark Hanker	SCREEN DESC.: 2" Dia. 0.10-Slot PVC
TOTAL DEPTH: 14 feet		RIG TYPE: Mobile B-53	FILTER PACK: Silica Sand
DATE: December 19, 2002		METHOD: Hollow-stem Auger	SEAL: None Installed
START TIME: 12:30 pm	COMP. TIME: 2:00 pm	BORING ID: DCMW010-02	GROUT: Bent. Chips
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW010-02	TOP OF CASING ELEV.: 9.68 Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
2 to 4	1.5	3/6/9/10	1.0	FILL: Sandy Silt - Some Clay - Frequent Glass, Wood, and Concrete Fragments - Black and Brown - Moist	0	7			concrete pad --1.0' bgs  2" dia. PVC casing set with medium bentonite chips  --7.0' bgs --7.5' bgs  2" dia. 0.10-slot PVC screen set with #1 silica sand  --12.5' bgs end cap -- 13.0' bgs
4 to 6	2.0	3/6/12/2			1	6			
6 to 8	1.5	8/15/22/16			2	5			
8 to 10	0.5	4/1/3/6			3	4			
				OH: Silty Clay - Trace Sand - Occasional Organics - Gray	4	3			
				SM: Silty Sand - Trace Clay - Gray - Wet - Very Loose	5	2			
10 to 12	0.0	2/1/1/1			6	1			
12 to 14	2.0	0/0/2/2		CL: Silty Clay - Trace Sand - Gray	7	0			
					8	-1			
					9	-2			
					10	-3			
					11	-4			
					12	-5			
					13	-6			
					14	-7			

DEPTH TO GW DURING DRILLING (ft. bgs): 10.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.45 on 12/21/02

## COMMENTS:

Soil sample 470E-SB35-01 was collected from 3.0' to 5.0' below ground surface (bgs). Soil sample 470E-SB35-02 was collected from 6.0' to 8.0' bgs. Monitoring well DCMW010-02 was installed in borehole with screened interval and 6" endcap set between 7.5' and 13.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 2.36' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Shane		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Kevin		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 26 feet		RIG TYPE: CME-75		FILTER PACK: #1 Silica Sand	
DATE: November 18, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 12:45 pm	COMP. TIME: 5:30 pm	BORING ID: DCMW011-02		GROUT: 3/8" Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW011-02		TOP OF CASING ELEV.: 10.70' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	0.5	3/3/3/3		FILL: Silty Clay - Frequent Asphalt Fragments	0				concrete pad --1.0' bgs
2 to 4	0	2/2/3/5			5				
4 to 6	0	0/0/0/0			5				
6 to 8	2.0	0/0/0/0	0.0	OH: Silty Clay - Trace Organics - Gray - Soft	0				2" dia. PVC casing set with medium bentonite chips
8 to 10	2.0	0/0/0/0			10				
10 to 12	2.0	0/0/0/0			-5				
12 to 14	2.0	0/0/0/0			15				--14.0' bgs
14 to 16	2.0	0/0/0/0	0.0	OH: Silty Clay - Trace Organics - Occasional Wet Sand Seam - Gray - Soft	-10				--16.5' bgs
16 to 18	2.0	0/0/0/0		SP: Fine Sand - Brown - Wet - Loose to Medium Dense	20				2" dia. 0.10-slot PVC screen set with #1 silica sand
18 to 20	NR	0/0/0/2			-15				--21.5' bgs end cap
20 to 22	0	4/6/7/10			25				
22 to 24	1.0	NR							
24 to 26	1.0	NR							--26.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 14.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 9.38 on 12/21/02

## COMMENTS:

Soil sample 470E-SB37-01 was collected from 6.0' to 8.0' below ground surface (bgs). Soil sample 470E-SB37-02 was collected from 12' to 14' bgs. Monitoring well DCMW011-02 was installed in borehole with screened interval set between 16.5' and 21.5' bgs. Well sand was set from 14' to 26' bgs. Bentonite chips were installed from 1.0' to 14' bgs. Monitoring well was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.10' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Joe		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Dan		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 14 feet		RIG TYPE: CME-LC-60		FILTER PACK: Silica Sand	
DATE: November 21 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 1:10 pm	COMP. TIME: 3:15 pm	BORING ID: DCMW012-02		GROUT: Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW012-02		TOP OF CASING ELEV.: 12.21' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	2.0	2/7/7/5		FILL: Silty Sand - Some Clay and Gravel - Frequent Brick and Wood Fragments - Brown - Moist to Wet at 8.0' - Loose to Dense	0	10		concrete pad	
2 to 4	2.0	12/12/8/6			1	9		--1.0' bgs	
4 to 6	2.0	4/5/7/8			2	8			
6 to 8	1.0	0/2/2/9			3	7			
8 to 10	1.0	18/23/24/11			4	6		2" dia. PVC casing set with medium bentonite chips	
10 to 12	1.0	5/2/1/1		CL: Sandy Clay - Gray - Soft	5	5		--6.0' bgs	
12 to 14	2.0	2/2/2/2			6	4		--7.5' bgs	
					7	3			
					8	2			
					9	1			
					10	0			
					11	-1		2" dia. 0.10-slot PVC screen set with #1 silica sand	
					12	-2		--12.5' bgs end cap	
					13	-3		--13.0' bgs	
					14				

DEPTH TO GW DURING DRILLING (ft. bgs): 8.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 8.87 on 12/21/02

## COMMENTS:

Soil sample 470E-SB39-01 was collected from 2.0' to 4.0' below ground surface (bgs). Soil sample 470E-SB39-02 was collected from 8.0' to 11.0' bgs. Monitoring well DCMW012-02 was installed in borehole with screened interval and 6" endcap set between 7.5' and 13.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 1.75' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: CT&E Environmental		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Bobby Jordan		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Mark Hanker		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 14 feet		RIG TYPE: Mobile B-53		FILTER PACK: Silica Sand	
DATE: December 19, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 3:30 pm	COMP. TIME: 4:30 pm	BORING ID: DCMW013-02		GROUT: Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW013-02		TOP OF CASING ELEV.: 8.27' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
2 to 4	1.5	1/2/4/2	0.0	ASPHALT: Driller Reported 3" of Asphalt  FILL: Sandy Clay - Some Silt - Frequent Organics - Gray and Brown	0	5		concrete pad	
4 to 6	2.0	1/2/1/3		OH: Silty Clay - Trace to Some Sand - Frequent Organics - Gray	1	4		2" dia. PVC casing set with medium bentonite chips	--1.0' bgs
6 to 8	NR	0/0/0/0			2	3			
8 to 10	1.5	0/0/15/15		GP: Sandy Gravel - Brown - Wet - Dense to Medium Dense (Gravel is Rounded)	3	2			
10 to 12	1.5	10/12/15/10			4	1			
12 to 14	NR	25/5/7/5		CL: Sandy Clay - Brown  SP: Fine Sand - Brown - Wet - Dense to Medium Dense	5	0			
					6	-1			
					7	-2			--8.0' bgs
					8	-3			--8.5' bgs
					9	-4			
					10	-5			
					11	-6		2" dia. 0.10-slot PVC screen set with #1 silica sand	
					12	-7			
					13	-8			--13.5' bgs end cap
					14				--14.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 9.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 5.14 on 12/21/02

## COMMENTS:

Soil sample 470E-SB40-01 was collected from 2.0' to 4.0' below ground surface (bgs). Soil sample 470E-SB40-02 was collected from 6.0' to 8.0' bgs. Monitoring well DCMW013-02 was installed in borehole with screened interval and 6" endcap set between 8.5' and 14.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 2.46' above the ground surface.





PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Joe		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Dan		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 14 feet		RIG TYPE: CME-LC-60		FILTER PACK: Silica Sand	
DATE: November 22, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 9:10 am	COMP. TIME: 11:00 am	BORING ID: DCMW014-02		GROUT: Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW014-02		TOP OF CASING ELEV.: 8.66 Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	2.0	0/3/3/3	0.0 0.0	ASPHALT: Asphalt OH: Silt Clay - Frequent Organics - Gray and Brown	0 1	6 5		concrete pad --1.0' bgs	
2 to 4	2.0	2/1/1/2			2 3	4 3			
4 to 6	2.0	1/1/1/2	0.0		4 5	2 1		2" dia. PVC casing set with medium bentonite chips	
6 to 8	1.5	1/1/1/1			6 7	0 -1			--7.0' bgs
8 to 10	1.5	3/3/4/12		SP: Gravelly Sand - Brown - Moist to Wet at 10' - Loose to Medium Dense (Gravel was Angular to Rounded)	8 9	-2 -3		--8.5' bgs	
10 to 12	1.0	3/5/6/6			10 11	-4 -5		2" dia. 0.10-slot PVC screen set with #1 silica sand	
12 to 14	2.0	12/12/13/10			12 13 14	-6 -7 -7		--13.5' bgs end cap --14.0' bgs	

DEPTH TO GW DURING DRILLING (ft. bgs): 10.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.79 on 12/21/02

## COMMENTS:

Soil sample 470E-SB41-01 was collected from 2.0' to 4.0' below ground surface (bgs). Soil sample 470E-SB41-02 was collected from 6.0' to 8.0' bgs. Monitoring well DCMW014-02 was installed in borehole with screened interval and 6" endcap set between 8.5' and 14.0' bgs. Monitoring well was completed with an above ground casing protector and with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 2.24' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: CT&E Environmental		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: Bobby Jordan		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Mark Hanker		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 26 feet		RIG TYPE: CME-75		FILTER PACK: Silica Sand	
DATE: December 20, 2002		METHOD: Hollow-stem Auger		SEAL: None Installed	
START TIME: 10:00 am	COMP. TIME: 5:00 pm	BORING ID: DCMW015-02		GROUT: 3/8" Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: DCMW015-02		TOP OF CASING ELEV.: 8.17' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
2 to 4	2.0	3/5/6/7		FILL: Sandy Clay - Some Silt - Frequent Organics - Brown and Gray	0				concrete pad --1.0' bgs
4 to 6	2.0	0/1/3/3		OH: Silty Clay - Some Sand - Frequent Organics - Gray - Soft	5				
6 to 8	0.0	0/0/0/0			0				2" dia. PVC casing set with medium bentonite chips
8 to 10	2.0	0/0/0/0			10				
10 to 12	2.0	0/0/0/0			-5				
12 to 14	0.5	0/0/0/0			15				
14 to 16	2.0	0/0/0/0			-10				
16 to 18	0.0	0/0/0/3			20				
18 to 20	2.0	2/1/3/1		PT: Fibrous Peat - Brown - Moist	-15				--21.0' bgs --21.5' bgs
20 to 22	2.0	5/7/11/13		OH: Silty Clay - Some Sand - Frequent Organics - Gray - Soft					
22 to 24	1.0	25/25/20/22		GW: Sandy Gravel - Brown - Wet - Very Dense to Dense (Gravel is Rounded)	25				2" dia. 0.10-slot PVC screen set with #1 silica sand --26.5' bgs --27.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 22.0

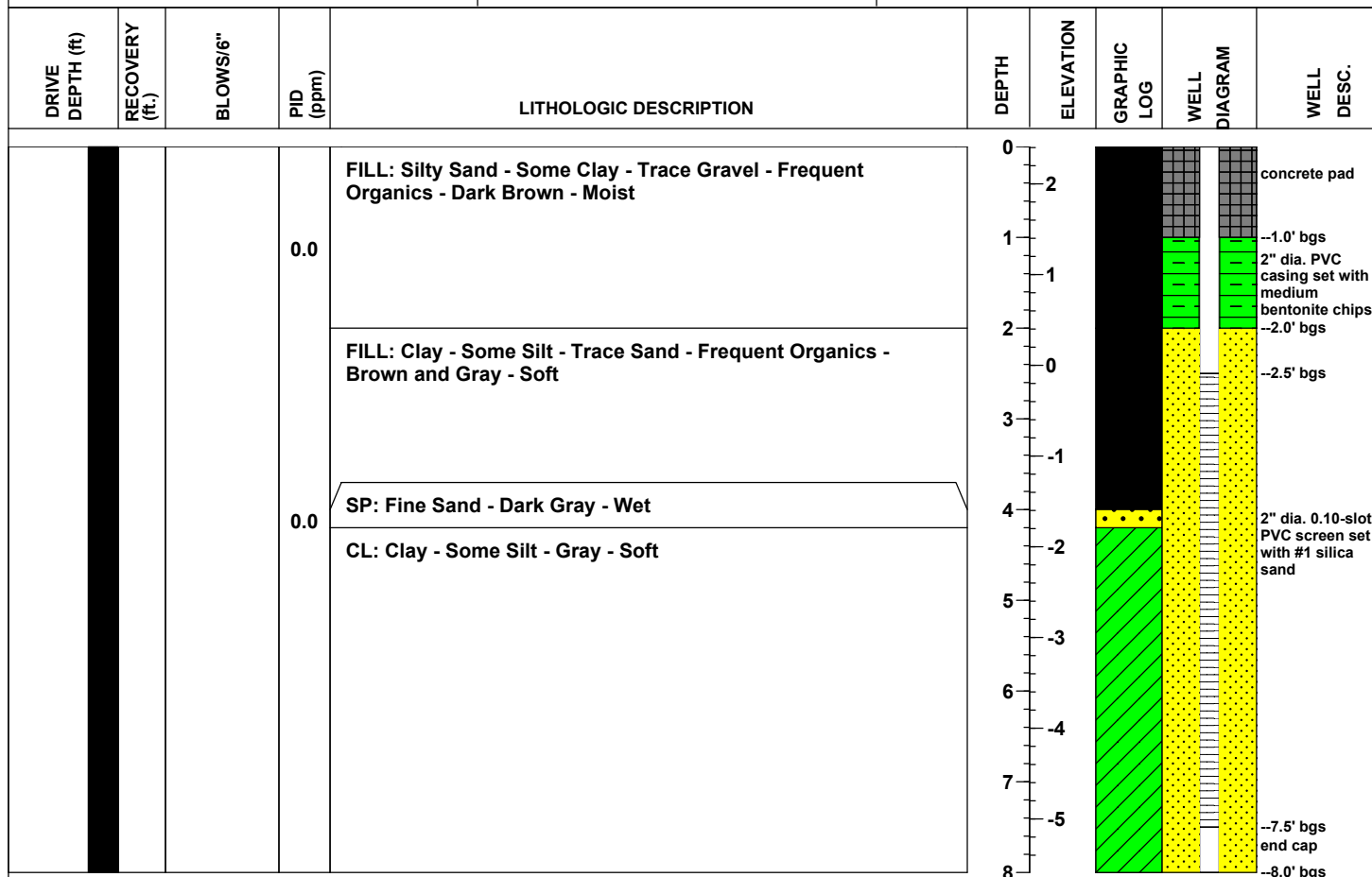
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.33 on 12/21/02

## COMMENTS:

Soil sample 470E-SB42-01 was collected from 4.0' to 6.0' below ground surface (bgs). Soil sample 470E-SB42-02 was collected from 13.5' to 16.0' bgs. Monitoring well DCMW015-02 was installed in borehole with screened interval set between 21.5' and 27.0' bgs. Well sand was set from 21' to 27' bgs. Bentonite chips were installed from 1.0' to 21' bgs. Monitoring well was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 2.08' above the ground surface.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 6" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 8 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 23, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 8:30 am	<b>COMP. TIME:</b> 10:00 am	<b>BORING ID:</b> PZ-1	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-1	<b>TOP OF CASING ELEV.:</b> 5.94' Above MSL



DEPTH TO GW DURING DRILLING (ft. bgs): 3.6

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.63 on 7/23/02

**COMMENTS:**

Piezometer PZ-1 was installed in borehole with screened interval set between 2.5' and 7.5' below ground surface (bgs). Well sand was set from 2.0' to 8.0' bgs. Bentonite chips were installed from 1.0' to 2.0' bgs. Piezometer was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.53' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: None		MONUMENT TYPE: 6" Dia. Above Ground Prot.	
PROJECT NUMBER: 470E		DRILLER: None		CASING DESC.: 2" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 2" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 8 feet		RIG TYPE: None - Hand Auger		FILTER PACK: Millersville #1 Silica Sand	
DATE: July 22, 2002		METHOD: 4" O.D. Hand Auger		SEAL: None Installed	
START TIME: 6:35 am	COMP. TIME: 9:20 am	BORING ID: PZ-2		GROUT: Sure-Plug 3/8" Bent. Chips	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: PZ-2		TOP OF CASING ELEV.: 7.12' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
				FILL: Sandy Clay - Frequent Roots, Bricks, and Concrete Fragments - Dark Gray - Moist	0	7			concrete pad
			0.0	FILL: Silty Clay - Some Sand - Gray - Soft	1	6			--1.0' bgs 2" dia. PVC casing set with medium bentonite chips --2.0' bgs
			0.0	SP: Fine Sand - Gray - Wet	2	5			--2.5' bgs
			0.0	CL: Clay - Some Silt - Trace Sand - Gray - Soft	3	4			2" dia. 0.10-slot PVC screen set with #1 silica sand
					4	3			
					5	2			
					6	1			
					7	0			--7.5' bgs end cap --8.0' bgs
					8				

DEPTH TO GW DURING DRILLING (ft. bgs): 3.6

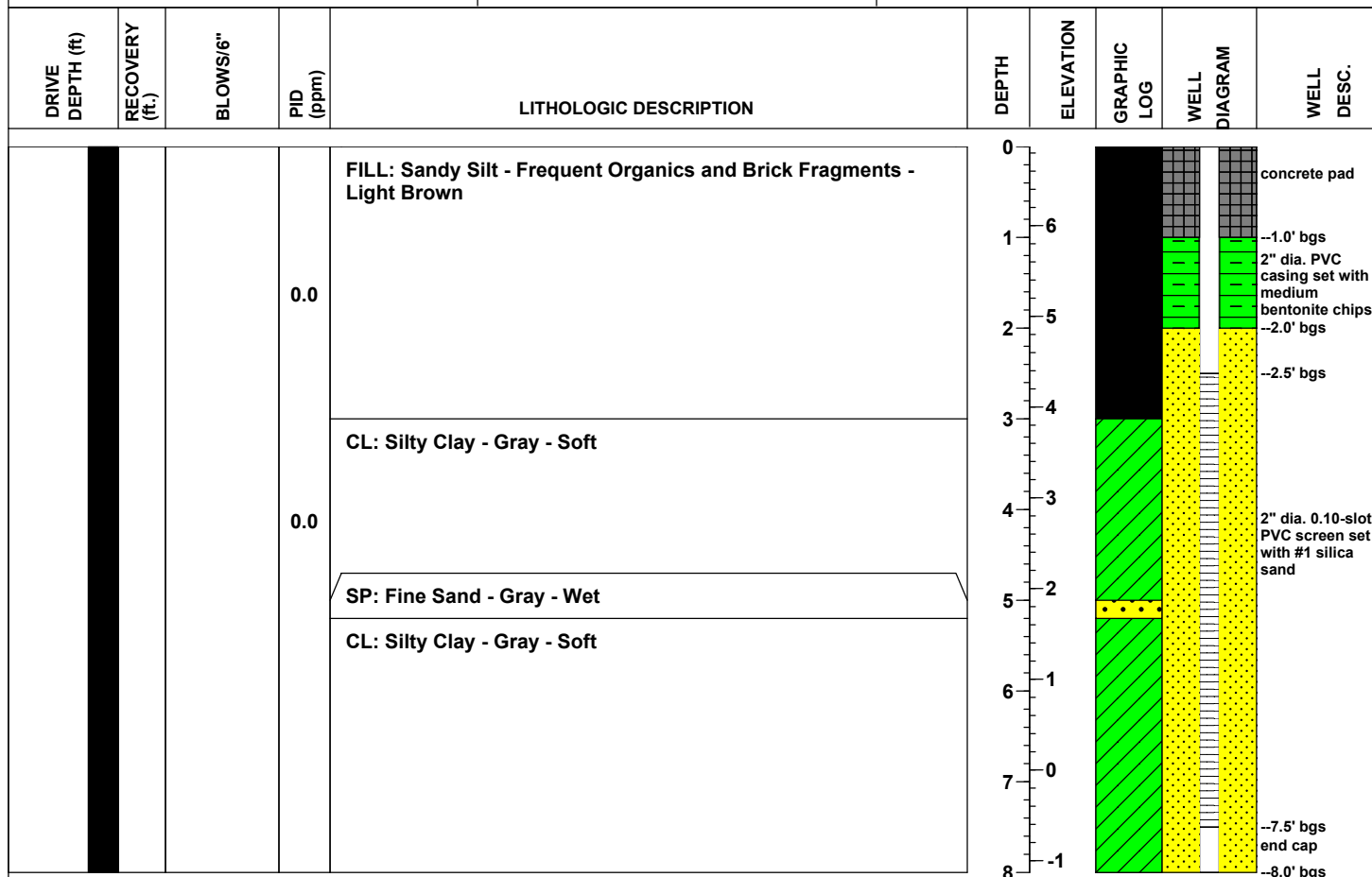
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.08 on 7/22/02

## COMMENTS:

Piezometer PZ-2 was installed in borehole with screened interval set between 2.5' and 7.5' below ground surface (bgs). Well sand was set from 2.0' to 8.0' bgs. Bentonite chips were installed from 1.0' to 2.0' bgs. Piezometer was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.92' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: None	MONUMENT TYPE: 4" Dia. Above Ground Prot.
PROJECT NUMBER: 470E		DRILLER: None	CASING DESC.: 2" Dia. PVC
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None	SCREEN DESC.: 2" Dia. 0.10-Slot PVC
TOTAL DEPTH: 8 feet		RIG TYPE: None - Hand Auger	FILTER PACK: Millersville #1 Silica Sand
DATE: July 21, 2002		METHOD: 4" O.D. Hand Auger	SEAL: None Installed
START TIME: 1:05 pm	COMP. TIME: 2:20 pm	BORING ID: PZ-3	GROUT: Sure-Plug 3/8" Bent. Chips
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: PZ-3	TOP OF CASING ELEV.: 6.87' Above MSL



DEPTH TO GW DURING DRILLING (ft. bgs): 5.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.14 on 7/22/02

## COMMENTS:

Piezometer PZ-3 was installed in borehole with screened interval set between 2.5' and 7.5' below ground surface (bgs). Well sand was set from 2.0' to 8.0' bgs. Bentonite chips were installed from 1.0' to 2.0' bgs. Piezometer was completed with a 4" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.69' above the ground surface.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 4" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 7.5 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 20, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 11:45 am	<b>COMP. TIME:</b> 12:00 pm	<b>BORING ID:</b> PZ-4	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-4	<b>TOP OF CASING ELEV.:</b> 6.54' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
			0.0	FILL: Sandy Silt - Trace to Some Gravel - Frequent Roots - Brown - Moist	0			concrete pad	
			0.0	FILL: Clay - Some Silt - Trace Sand - Frequent Roots - Brown and Gray - Soft	1			--1.0' bgs 2" dia. PVC casing w/ med. bent. chips	
			0.0	SP: Fine Sand - Dark Gray - Wet	2			--1.8' bgs --2.0' bgs	
				CL: Clay - Some Silt - Trace Sand - Gray - Soft	3			2" dia. 0.10-slot PVC screen set with #1 silica sand	
					4				
					5				
					6				
					7				--7.0' bgs end cap --7.5' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 3.5

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 7.43 on 7/22/02

**COMMENTS:**

Piezometer PZ-4 was installed in borehole with screened interval set between 2.0' and 7.0' below ground surface (bgs). Well sand was set from 1.8' to 7.5' bgs. Bentonite chips were installed from 1.0' to 1.8' bgs. Piezometer was completed with a 6" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.39' above the ground surface.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 4" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 8 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 20, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 12:45 pm	<b>COMP. TIME:</b> 2:45 pm	<b>BORING ID:</b> PZ-5	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-5	<b>TOP OF CASING ELEV.:</b> 5.42' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
			0.0	FILL: Clay - Some Silt - Frequent Roots - Brown and Gray - Soft	0	2			concrete pad
			0.0	SP: Fine Sand - Brown to Dark Gray at 4.0' - Moist to Wet at 3.0'	1	1			--1.0' bgs 2" dia. PVC casing set with medium bentonite chips --2.0' bgs
				CL: Clay - Some Silt - Tace Sand - Dark Gray - Soft	2	0			--2.5' bgs
					3	-1			2" dia. 0.10-slot PVC screen set with #1 silica sand
					4	-2			
					5	-3			--7.5' bgs end cap --8.0' bgs
					6	-4			
					7	-5			
					8				

DEPTH TO GW DURING DRILLING (ft. bgs): 3.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 7.21 on 7/22/02

**COMMENTS:**

Piezometer PZ-5 was installed in borehole with screened interval set between 2.5' and 7.5' below ground surface (bgs). Well sand was set from 2.0' to 8.0' bgs. Bentonite chips were installed from 1.0' to 2.0' bgs. Piezometer was completed with a 4" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.24' above the ground surface.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 4" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 7.5 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 19, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 4:30 pm	<b>COMP. TIME:</b> 5:30 pm	<b>BORING ID:</b> PZ-6	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-6	<b>TOP OF CASING ELEV.:</b> 4.81' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
			0.0	FILL: Clay - Some Silt - Gray and Brown - Soft	0	4		concrete pad	
			0.0	SP: Fine Sand - Gray - Wet	1	3		2" dia PVC casing	
					2	2		--1.0' bgs bent. chips	
					3	1		--1.5' bgs	
					4	0		--2.0' bgs	
					5	-1		2" dia. 0.10-slot PVC screen set with #1 silica sand	
					6	-2			
				CL: Clay - Some Silt - Gray - Soft	7			--7.0' bgs end cap	
								--7.5' bgs	

DEPTH TO GW DURING DRILLING (ft. bgs): 3.5

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 6.71 on 7/22/02

**COMMENTS:**

Piezometer PZ-6 was installed in borehole with screened interval set between 2.0' and 7.0' below ground surface (bgs). Well sand was set from 1.5' to 7.5' bgs. Bentonite chips were installed from 1.0' to 1.5' bgs. Piezometer was completed with a 4" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.61' above the ground surface.





<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 4" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 9 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 20, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 9:10 am	<b>COMP. TIME:</b> 10:25 am	<b>BORING ID:</b> PZ-7	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-7	<b>TOP OF CASING ELEV.:</b> 6.10' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
			0.0	FILL: Clay - Some Silt - Trace Sand - Frequent Root Fibers - Brown and Gray - Soft	0	6			concrete pad
			0.0	SP: Fine Sand - Trace Gavel - Brown to Dark Gray at 3.0' - Moist to Wet at 3.0'	1	5			--1.0' bgs 2" dia. PVC casing set with medium bentonite chips
			0.0	CL: Silty Clay - Trace Sand - Gray - Soft	2	4			--2.5' bgs
					3	3			--3.5' bgs
					4	2			2" dia. 0.10-slot PVC screen set with #1 silica sand
					5	1			
					6	0			
					7	-1			
					8	-2			--8.5' bgs end cap
					9				--9.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 3.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 7.28 on 7/22/02

**COMMENTS:**

Piezometer PZ-7 was installed in borehole with screened interval set between 3.5' and 8.5' below ground surface (bgs). Well sand was set from 2.5' to 9.0' bgs. Bentonite chips were installed from 1.0' to 2.5' bgs. Piezometer was completed with a 4" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.53' above the ground surface.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> None	<b>MONUMENT TYPE:</b> 4" Dia. Above Ground Prot.
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> None	<b>CASING DESC.:</b> 2" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 2" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 8 feet		<b>RIG TYPE:</b> None - Hand Auger	<b>FILTER PACK:</b> Millersville #1 Silica Sand
<b>DATE:</b> July 20, 2002		<b>METHOD:</b> 4" O.D. Hand Auger	<b>SEAL:</b> None Installed
<b>START TIME:</b> 7:55 am	<b>COMP. TIME:</b> 9:00 am	<b>BORING ID:</b> PZ-8	<b>GROUT:</b> Sure-Plug 3/8" Bent. Chips
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> PZ-8	<b>TOP OF CASING ELEV.:</b> 7.41 Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
			0.0	FILL: Silty Sand - Frequent Root Fibers, Wood, Glass, Plastic - Brown - Moist	0				concrete pad
			0.0	CL: Clay - Some Silt - Gray - Soft	1				--1.0' bgs
					2				2" dia. PVC casing set with medium bentonite chips
					3				--2.3' bgs
					4				--2.5' bgs
			0.0	SP: Fine Sand - Trace Gravel - Brown to Dark Gray at 5.0' - Wet	4				2" dia. 0.10-slot PVC screen set with #1 silica sand
					5				
					6				
					7				--7.5' bgs
					8				--8.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 4.2

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 7.94 on 7/22/02

**COMMENTS:**

Piezometer PZ-8 was installed in borehole with screened interval set between 2.5' and 7.5' below ground surface (bgs). Well sand was set from 2.3' to 8.0' bgs. Bentonite chips were installed from 1.0' to 2.3' bgs. Piezometer was completed with a 4" diameter steel above ground casing protector with a surface seal of concrete from 0.0' to 1.0' bgs. The top of the PVC casing was cut 3.60' above the ground surface.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.	MONUMENT TYPE: NA
PROJECT NUMBER: 470E		DRILLER: Shane	CASING DESC.: NA
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Kevin	SCREEN DESC.: NA
TOTAL DEPTH: 57 feet		RIG TYPE: CME-75	FILTER PACK: NA
DATE: November 21, 2002		METHOD: Hollow-stem Auger	SEAL: NA
START TIME: 1:00 pm	COMP. TIME: 5:30 pm	BORING ID: SB-101	GROUT: NA
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: None Installed	TOP OF CASING ELEV.: NA

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	0.8	2/2/2/2		FILL: Fine Sand - Frequent Organics - Brown - Moist - Very Loose to Loose	0	0			
2 to 4	0.0	2/3/3/2			5	-5			
4 to 6	0.5	2/4/6/12			10	-10			
6 to 8	2.0	3/3/4/5		FILL: Gravely Sand - Brown - Wet - Loose	15	-15			
8 to 10	0.5	2/3/3/3			20	-20			
10 to 12	0.5	2/4/3/5			25	-25			
12 to 14	1.0	0/0/0/0		OH: Clay - Frequent Organics - Gray - Soft	30	-30			
15 to 17	2.0	0/0/0/0			35	-35			
20 to 22	2.0	0/0/0/0			40	-40			
25 to 27	0.8	0/0/0/0			45	-45			
30 to 32	2.0	0/0/0/0			50	-50			
35 to 37	1.5	0/0/0/0							
40 to 42	2.0	0/0/0/0		PT: Clayey Peat - Trace Sand - Brown - Dry					
45 to 47	2.0	0/0/4/6		CL: Silty Clay - Frequent Organics - Gray and Orange - Hard					
47 to 49	2.0	4/5/6/7							
50 to 52	NR	2/4/5/7							
55 to 57	2.0	2/2/2/2							

DEPTH TO GW DURING DRILLING (ft. bgs): 6.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): NA

## COMMENTS:

Soil sample 470E-SB32-01 and 470E-SB32-03 (field duplicate) were collected from 8.0' to 10.0' below ground surface (bgs). Soil sample 470E-SB32-02 was collected from 15' to 17' bgs. No lower permeable unit was encountered. Therefore, no monitoring well was installed.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: CT&E Environmental		MONUMENT TYPE: NA	
PROJECT NUMBER: 470E		DRILLER: Bobby Jordan		CASING DESC.: NA	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Mark Hanker		SCREEN DESC.: NA	
TOTAL DEPTH: 16 feet		RIG TYPE: Mobile B-53		FILTER PACK: NA	
DATE: December 19, 2002		METHOD: Hollow-stem Auger		SEAL: NA	
START TIME: 9:00 am	COMP. TIME: 10:45 am	BORING ID: SB-102		GROUT: NA	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: None Installed		TOP OF CASING ELEV.: NA	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
2 to 4	2.0	5/7/5/7	0.0	FILL: Sandy Clay - Some Silt - Frequent Brick Fragments - Brown - Soft	0				
4 to 6	0.5	5/5/5/5			1	5			
6 to 8	0.5	1/2/2/1			2	4			
8 to 10	2.0	1/1/1/1		OH: Silty Clay - Gray - Soft	3	3			
10 to 12	2.0	0/0/0/0			4	2			
12 to 14	2.0	0/0/0/0			5	1			
14 to 16	2.0	0/0/0/0			6	0			
					7	-1			
					8	-2			
					9	-3			
					10	-4			
					11	-5			
					12	-6			
					13	-7			
					14	-8			
					15	-9			
					16	-10			

DEPTH TO GW DURING DRILLING (ft. bgs): NA

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): NA

## COMMENTS:

Soil sample 470E-SB36-01 and 470E-SB36-03 (field duplicate) were collected from 7.5' to 9.5' below ground surface (bgs). Soil sample 470E-SB36-02 was collected from 10.0' to 12.0' bgs. No ground water was encountered above the clay. Therefore, no monitoring well was installed.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: Eichelbergers, Inc.		MONUMENT TYPE: NA	
PROJECT NUMBER: 470E		DRILLER: Joe		CASING DESC.: NA	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: Dan		SCREEN DESC.: NA	
TOTAL DEPTH: 24 feet		RIG TYPE: CME-LC-60		FILTER PACK: NA	
DATE: November 21, 2002		METHOD: Hollow-stem Auger		SEAL: NA	
START TIME: 7:45 am	COMP. TIME: 12:00 pm	BORING ID: SB-103		GROUT: NA	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: None Installed		TOP OF CASING ELEV.: NA	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 2	2.0	2/5/7/10		FILL: Sandy Silt - Some Clay and Gravel - Occasional Organics and Brick Fragments - Brown and Gray	0				
2 to 4	2.0	5/9/13/8	0.0		1	9			
4 to 6	2.0	13/10/6/7			2	8			
6 to 8	2.0	2/2/2/3	0.0		3	7			
8 to 10	2.0	5/7/9/5			4	6			
10 to 12	2.0	2/2/6/4		ML: Clayey Silt - Some Sand - Orange and Gray - Soft	5	5			
12 to 14	2.0	9/6/5/5		OH: Silty Clay - Some Sand - Frequent Organics - Gray - Occasional Sand Layer - Soft	6	4			
14 to 16	2.0	3/3/3/3			7	3			
18 to 20	2.0	2/2/2/2			8	2			
20 to 22	2.0	2/2/2/2		SP: Fine Sand - Trace to Some Silt - Gray - Wet - Very Loose	9	1			
22 to 24	2.0	2/2/2/2		CL: Silty Clay - Some Sand - Gray Soft	10	0			
					11	-1			
					12	-2			
					13	-3			
					14	-4			
					15	-5			
					16	-6			
					17	-7			
					18	-8			
					19	-9			
					20	-10			
					21	-11			
					22	-12			
					23	-13			
					24	-14			

DEPTH TO GW DURING DRILLING (ft. bgs): 20.0

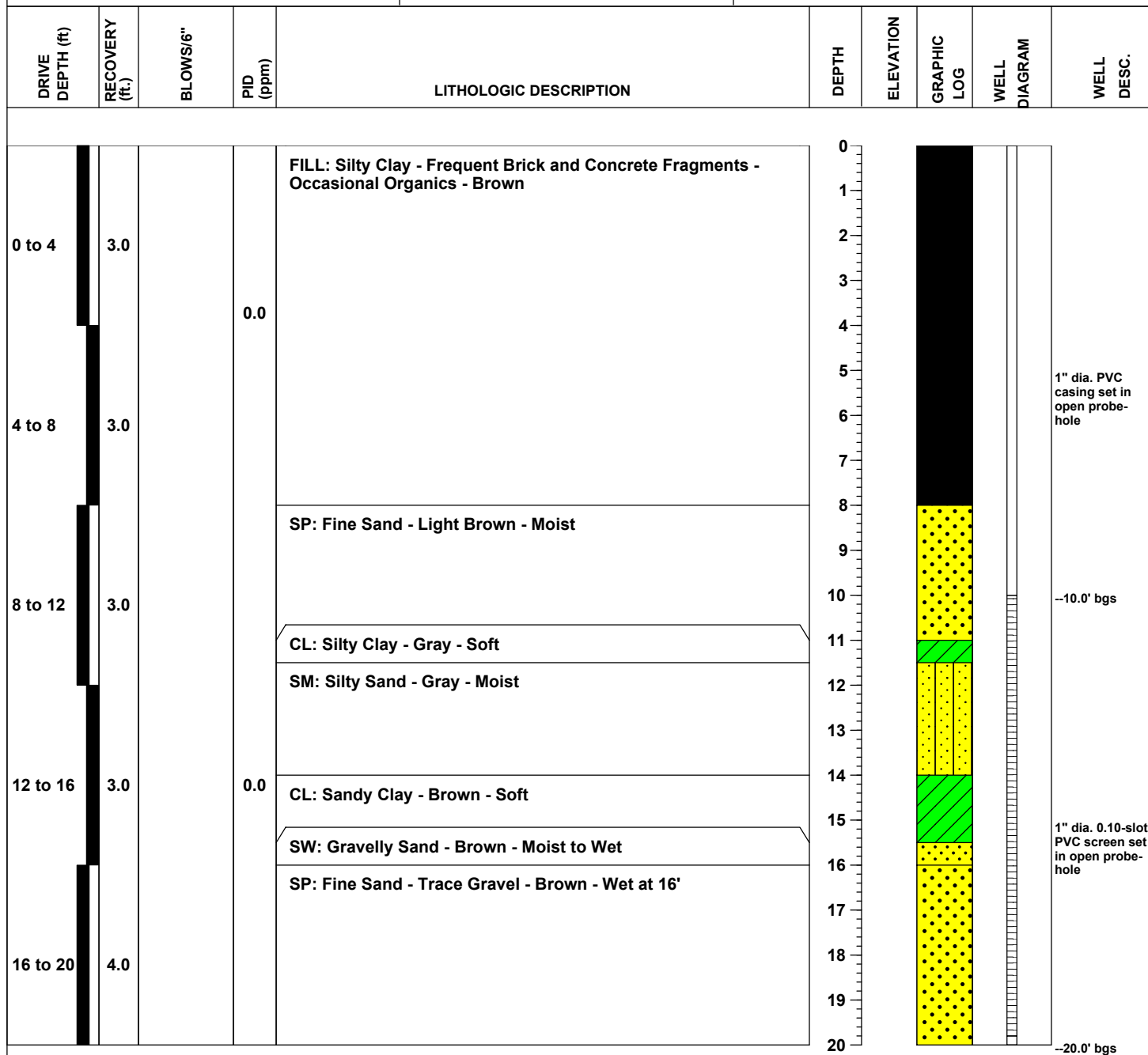
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): NA

## COMMENTS:

Soil sample 470E-SB38-01 was collected from 2.0' to 4.0' below ground surface (bgs). Soil sample 470E-SB38-02 was collected from 6' to 8' bgs. The sand seam from 20.0 to 21.5 was moist or wet, but no free water was available. Therefore, no monitoring well was installed.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> ESN Southeast	<b>MONUMENT TYPE:</b> None Installed
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> David Hoilett	<b>CASING DESC.:</b> 1" Dia. PVC
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 1" Dia. 0.10-Slot PVC
<b>TOTAL DEPTH:</b> 20 feet		<b>RIG TYPE:</b> Direct-Push Probe	<b>FILTER PACK:</b> None Installed
<b>DATE:</b> November 13, 2002		<b>METHOD:</b> 4' long 2" dia. macro sampler	<b>SEAL:</b> None Installed
<b>START TIME:</b> 10:40 am	<b>COMP. TIME:</b> 11:45 am	<b>BORING ID:</b> SP-50	<b>GROUT:</b> None Installed
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> TMW-50	<b>TOP OF CASING ELEV.:</b> 11.92' above MSL



DEPTH TO GW DURING DRILLING (ft. bgs): 16.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 12.06 on 11/15/02

**COMMENTS:**

Soil sample 470E-SP50-01 was collected from 3.0' to 3.5' below ground surface (bgs). Temporary monitoring well TMW-50 was installed in probe-hole with screened interval set between 10' and 20' bgs. Ground water sample 470E-TMW50-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast		MONUMENT TYPE: None Installed	
PROJECT NUMBER: 470E		DRILLER: David Hoilett		CASING DESC.: 1" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 1" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe		FILTER PACK: None Installed	
DATE: November 13, 2002		METHOD: 4' long 2" dia. macro sampler		SEAL: None Installed	
START TIME: 12:10 pm	COMP. TIME: 1:00 pm	BORING ID: SP-51		GROUT: None Installed	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-51		TOP OF CASING ELEV.: Not Surveyed	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	3.0		0.0	FILL: Gravelly Sand - Frequent Brick and Concrete Fragments - Brown to Black from 3.0 to 3.5' - Moist	0				
4 to 8	3.0		0.0	FILL: Silty Clay - Some Sand - Gray and Orange - Moist - Stiff	1				
8 to 12	4.0			FILL: Sandy Clay - Trace Gravel - Gray and Brown - Moist - Petroleum Odor at 10 to 16'	2				
12 to 16	1.0			SW: Gravelly Sand - Brown - Moist to Wet at 12' - Slight Sheen on Water	3				
					4				
					5				1" dia. PVC casing set in open probe-hole
					6				
					7				
					8				
					9				
					10				1" dia. 0.10-slot PVC screen set in open probe-hole
					11				
					12				
					13				
					14				
					15				
					16				

DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Petroleum odors were noted at 10' to 16' below ground surface (bgs). Soil sample 470E-SP51-01 was collected from 10.5' to 11.5' bgs. Temporary monitoring well TMW-51 was installed in probe-hole with screened interval set between 5' and 15' bgs. Ground water sample 470E-TMW51-01 was collected from the temporary monitoring well using a peristaltic pump. A sheen was noted on the ground water sample.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast		MONUMENT TYPE: None Installed	
PROJECT NUMBER: 470E		DRILLER: David Hoilett		CASING DESC.: 1" Dia. PVC	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 1" Dia. 0.10-Slot PVC	
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe		FILTER PACK: None Installed	
DATE: November 13, 2002		METHOD: 4' long 2" dia. macro sampler		SEAL: None Installed	
START TIME: 2:15 pm	COMP. TIME: 3:15 pm	BORING ID: SP-52		GROUT: None Installed	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-52		TOP OF CASING ELEV.: 9.92' Above MSL	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	4.0			FILL: Gravelly Sand - Frequent Organics and Brick Fragments - Brown and Black - Moist	0				
4 to 8	4.0		0.0	FILL: Clayey Silt - Trace Gravel - Frequent Concrete Fragments - Brown - Hard	1				
8 to 12	4.0			CL: Sandy Clay - Brown - Soft	2				1" dia. PVC casing set in open probe-hole
12 to 16	4.0			SP: Fine Sand - Brown - Wet	3				
					4				--4.0' bgs
					5				
					6				
					7				
					8				
					9				
					10				1" dia. 0.10-slot PVC screen set in open probe-hole
					11				
					12				
					13				
					14				--14.0' bgs
					15				
					16				

DEPTH TO GW DURING DRILLING (ft. bgs): 11.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): 9.96 on 11/16/02

## COMMENTS:

Soil sample 470E-SP52-01 was collected from 7.0' to 7.5' below ground surface (bgs). Temporary monitoring well TMW-52 was installed in probe-hole with screened interval set between 4' and 14' bgs. Ground water sample 470E-TMW52-01 was collected from the temporary monitoring well using a peristaltic pump.





PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast	MONUMENT TYPE: None Installed
PROJECT NUMBER: 470E		DRILLER: David Hoilett	CASING DESC.: 1" Dia. PVC
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None	SCREEN DESC.: 1" Dia. 0.10-Slot PVC
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe	FILTER PACK: None Installed
DATE: November 13, 2002		METHOD: 4' long 2" dia. macro sampler	SEAL: None Installed
START TIME: 3:30 pm	COMP. TIME: 4:45 pm	BORING ID: SP-53	GROUT: None Installed
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-53	TOP OF CASING ELEV.: 5.99' Above MSL

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	4.0			FILL: Sandy Gravel - Some Silt - Frequent Brick Fragments - Black - Moist	0	0			
4 to 8	4.0			FILL: Silty Clay - Trace Gravel - Occasional Brick Fragments - Gray - Soft	1	-1			
8 to 12	4.0				2	-2			
					3	-3			1" dia. PVC casing set in open probe-hole
					4	-4			
					5	-5			
					6	-6			--6.0' bgs
					7	-7			
					8	-8			
					9	-9			
					10	-10			
					11	-11			1" dia. 0.10-slot PVC screen set in open probe-hole
					12	-12			
					13	-13			
12 to 16	4.0			SP: Fine Sand - Some Gravel - Brown - Wet	14	-14			
					15	-15			
					16	-16			--16.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 14.0

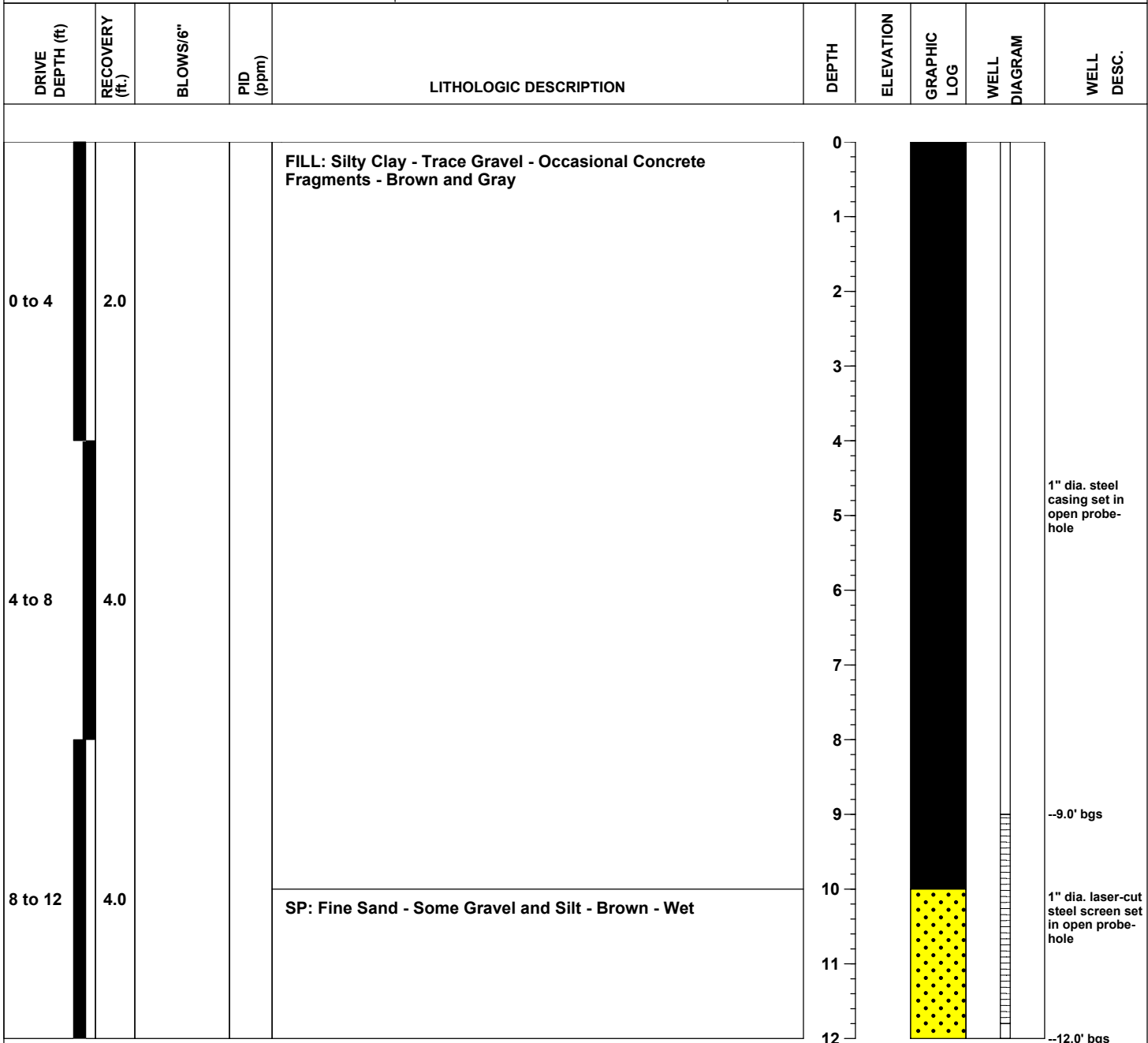
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not measured

**COMMENTS:**

Soil sample 470E-SP53-01 was collected from 1.0' to 2.0' below ground surface (bgs). Temporary monitoring well TMW-53 was installed in probe-hole with screened interval set between 6' and 16' bgs. Ground water sample 470E-TMW53-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast		MONUMENT TYPE: None Installed	
PROJECT NUMBER: 470E		DRILLER: David Hoilett		CASING DESC.: 1" Dia. Stainless Steel	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 1" Dia. Laser-cut Steel	
TOTAL DEPTH: 12 feet		RIG TYPE: Direct-Push Probe		FILTER PACK: None Installed	
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler		SEAL: None Installed	
START TIME: 7:15 am	COMP. TIME: 8:20 am	BORING ID: SP-54		GROUT: None Installed	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-54		TOP OF CASING ELEV.: Not Surveyed	



DEPTH TO GW DURING DRILLING (ft. bgs): 10.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP54-01 was collected from 9.5' to 10.0' below ground surface (bgs). Temporary monitoring well TMW-54 was installed in probe-hole with screened interval set between 9' and 12' bgs. Ground water sample 470E-TMW54-01 was collected from the temporary monitoring well using a peristaltic pump.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> ESN Southeast	<b>MONUMENT TYPE:</b> None Installed
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> David Hoilett	<b>CASING DESC.:</b> 1" Dia. Stainless Steel
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 1" Dia. Laser-cut Steel
<b>TOTAL DEPTH:</b> 16.0		<b>RIG TYPE:</b> Direct-Push Probe	<b>FILTER PACK:</b> None Installed
<b>DATE:</b> November 14, 2002		<b>METHOD:</b> 4' long 2" dia. macro sampler	<b>SEAL:</b> None Installed
<b>START TIME:</b> 8:40 am	<b>COMP. TIME:</b> 9:35 am	<b>BORING ID:</b> SP-55	<b>GROUT:</b> None Installed
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> TMW-55	<b>TOP OF CASING ELEV.:</b> Not Surveyed

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	3.0			FILL: Silty Clay - Some Sand - Trace to Some Gravel - Frequent Brick Fragments - Brown and Gray	0				
4 to 8	3.0			SM: Silty Sand - Black - Moist - Slight Foreign Odor	4				
				SM: Silty Sand - Brown - Moist	5				
8 to 12	3.0			SP: Fine Sand - Some Gravel and Silt - Brown - Moist to Wet at 12'	8				
12 to 16	3.0				12				
					13				--13.0' bgs
					14				
					15				1" dia. laser-cut steel screen set in open probe-hole
					16				--16.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

**COMMENTS:**

Slight foreign odors were noted from 4.0' to 4.5' below ground surface (bgs). Soil sample 470E-SP55-01 was collected from 4.0' to 4.5' bgs. Temporary monitoring well TMW-55 was installed in probe-hole with screened interval set between 13' and 16' bgs. Ground water sample 470E-TMW55-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast		MONUMENT TYPE: None Installed	
PROJECT NUMBER: 470E		DRILLER: David Hoilett		CASING DESC.: 1" Dia. Stainless Steel	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 1" Dia. Laser-cut Steel	
TOTAL DEPTH: 20 feet		RIG TYPE: Direct-Push Probe		FILTER PACK: None Installed	
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler		SEAL: None Installed	
START TIME: 9:45 am	COMP. TIME: 10:30 am	BORING ID: SP-56		GROUT: None Installed	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-56		TOP OF CASING ELEV.: Not Surveyed	

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	3.0			FILL: Silty Clay - Some Gravel - Frequent Brick Fragments - Brown	0				
				FILL: Fine Sand - Some Gravel - Frequent Brick Fragments -	1				
				FILL: Silty Clay - Some Sand - Frequent Brick Fragments - Brown	2				
4 to 8	4.0				3				
				FILL: Fine Sand - Trace Silt - Brown - Moist	4				
				FILL: Sandy Clay - Some Silt - Frequent Brick Fragments	5				
8 to 12	4.0				6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
12 to 16	4.0				15				
					16				
					17				
					18				
					19				
16 to 20	4.0			FILL: Fine Sand - Some Gravel - Frequent Brick Fragments - Wet	20				

DEPTH TO GW DURING DRILLING (ft. bgs): 15.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP56-01 was collected from 2.5' to 3.0' below ground surface (bgs). Temporary monitoring well TMW-56 was installed in probe-hole with screened interval set between 17' and 20' bgs. Ground water sample 470E-TMW56-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast	MONUMENT TYPE: None Installed
PROJECT NUMBER: 470E		DRILLER: David Hoilett	CASING DESC.: 1" Dia. Stainless Steel
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None	SCREEN DESC.: 1" Dia. Laser-cut Steel
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe	FILTER PACK: None Installed
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler	SEAL: None Installed
START TIME: 11:33 am	COMP. TIME: 12:20 pm	BORING ID: SP-57	GROUT: None Installed
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-57	TOP OF CASING ELEV.: Not Surveyed

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	2.0			FILL: Silty Clay - Some Sand - Frequent Brick, Concrete, and Coal Fragments - Moist	0				
4 to 8	2.0			FILL: Silty Sand - Occasional Brick Fragments - Brown - Moist	1				
8 to 12	2.0			FILL: Fine Sand - Some Silt - Occasional Brick Fragments - Brown - Moist to Wet at 10'	2				
12 to 16	2.0				3				
					4				
					5				
					6				
					7				1" dia. steel casing set in open probe-hole
					8				
					9				
					10				
					11				
					12				
					13				--13.0' bgs
					14				1" dia. laser-cut steel screen set in open probe-hole
					15				
					16				--16.0' bgs

DEPTH TO GW DURING DRILLING (ft. bgs): 10.0

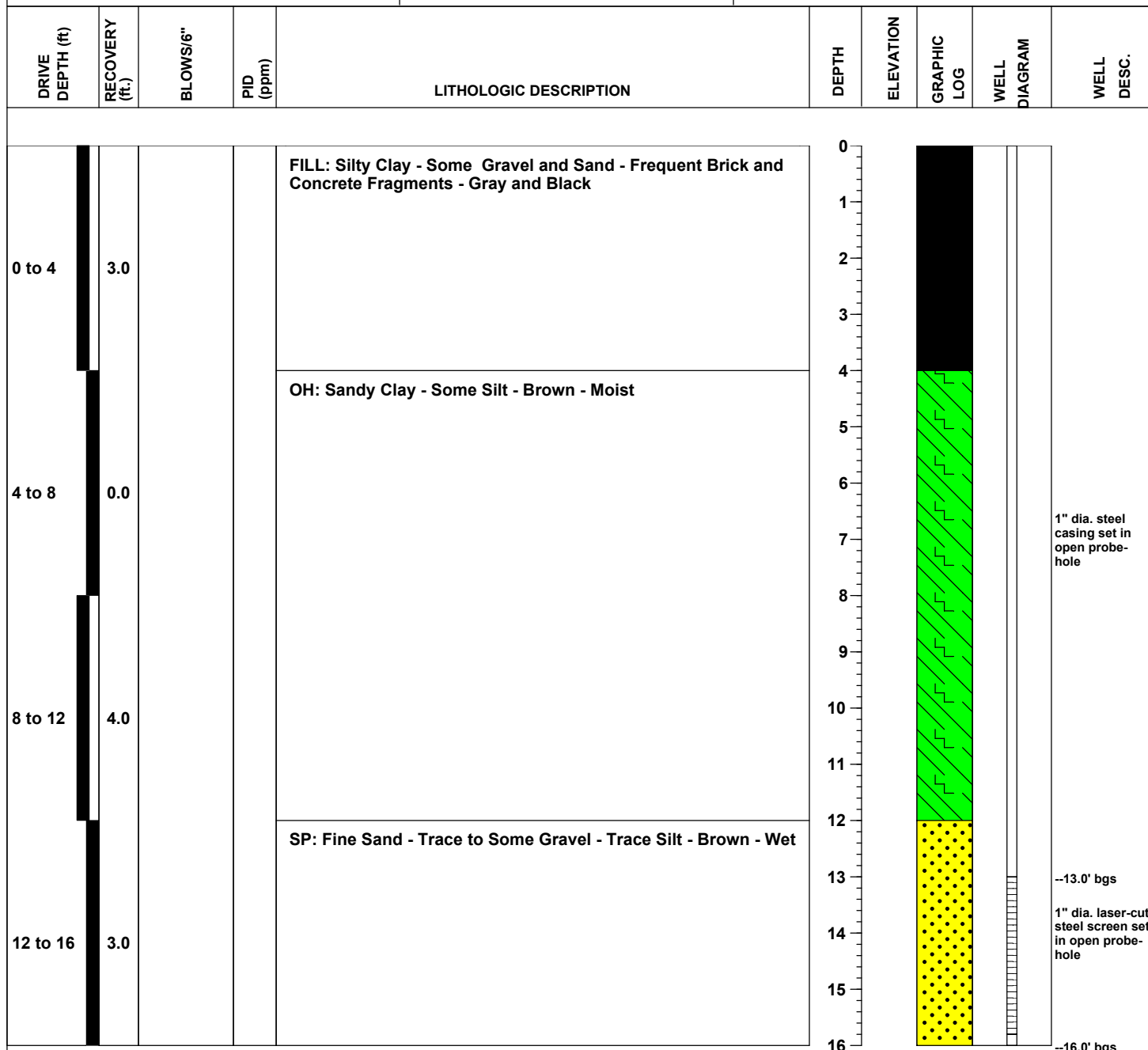
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP57-01 was collected from 2.5' to 3.0' bgs. Temporary monitoring well TMW-57 was installed in probe-hole with screened interval set between 13' and 16' bgs. Ground water sample 470E-TMW57-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast	MONUMENT TYPE: None Installed
PROJECT NUMBER: 470E		DRILLER: David Hoilett	CASING DESC.: 1" Dia. Stainless Steel
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None	SCREEN DESC.: 1" Dia. Laser-cut Steel
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe	FILTER PACK: None Installed
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler	SEAL: None Installed
START TIME: 1:10 pm	COMP. TIME: 1:45 pm	BORING ID: SP-58	GROUT: None Installed
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-58	TOP OF CASING ELEV.: Not Surveyed



DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

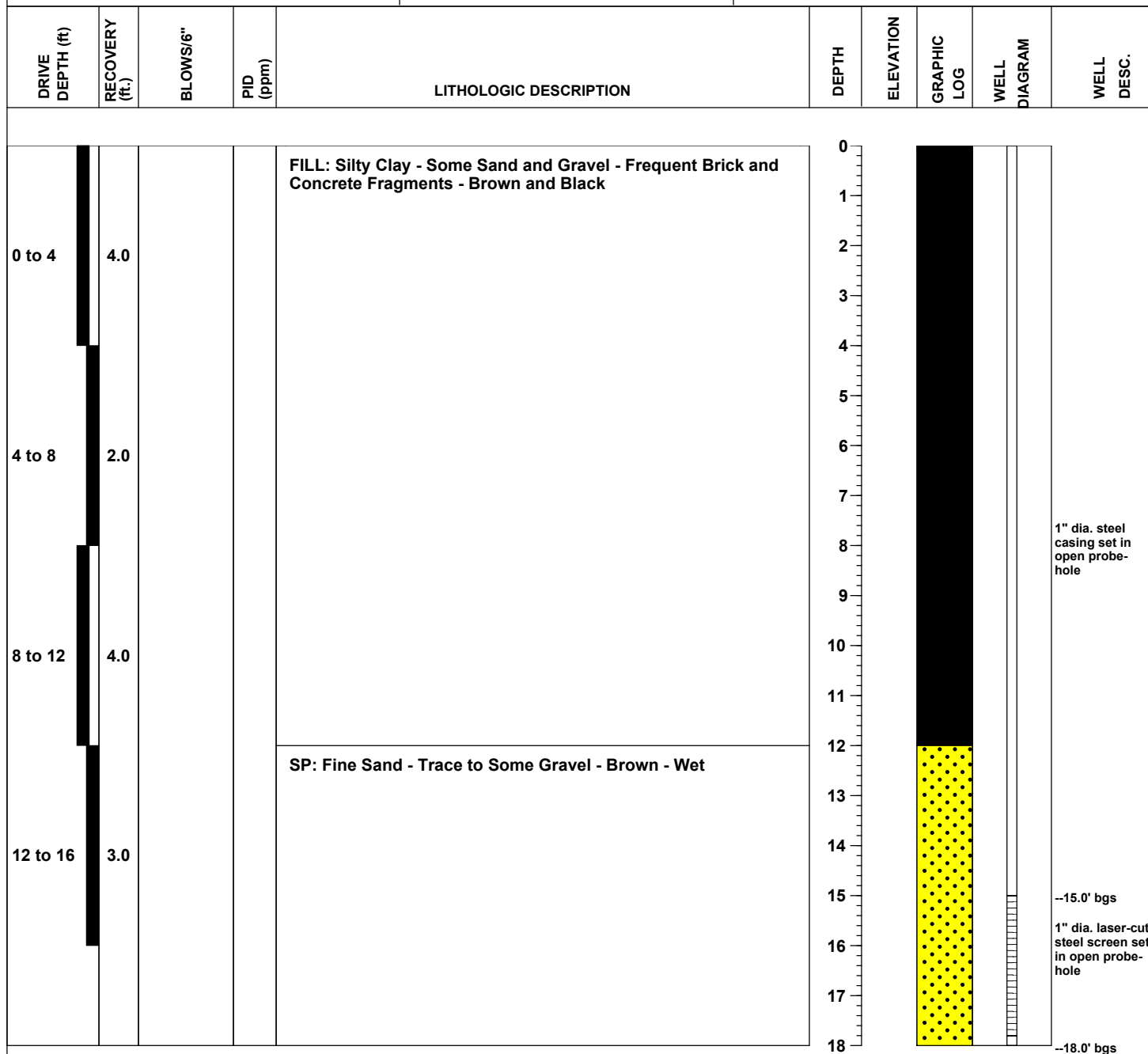
DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP58-01 was collected from 10.0' to 10.5' below ground surface (bgs). Temporary monitoring well TMW-58 was installed in probe-hole with screened interval set between 13' and 16' bgs. Ground water sample 470E-TMW58-01 was collected from the temporary monitoring well using a peristaltic pump.



PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast	MONUMENT TYPE: None Installed
PROJECT NUMBER: 470E		DRILLER: David Hoilett	CASING DESC.: 1" Dia. Stainless Steel
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None	SCREEN DESC.: 1" Dia. Laser-cut Steel
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe	FILTER PACK: None Installed
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler	SEAL: None Installed
START TIME: 2:15 pm	COMP. TIME: 2:50 pm	BORING ID: SP-59	GROUT: None Installed
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-59	TOP OF CASING ELEV.: Not Surveyed



DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP59-01 was collected from 10.5' to 11.0' below ground surface (bgs). Temporary monitoring well TMW-59 was installed in probe-hole with screened interval set between 15' and 18' bgs. Ground water sample 470E-TMW59-01 was collected from the temporary monitoring well using a peristaltic pump.



<b>PROJECT NAME:</b> Poplar Pt. Site Characterization		<b>CONTRACTOR:</b> ESN Southeast	<b>MONUMENT TYPE:</b> None Installed
<b>PROJECT NUMBER:</b> 470E		<b>DRILLER:</b> David Hoilett	<b>CASING DESC.:</b> 1" Dia. Stainless Steel
<b>PROJECT LOCATION:</b> Washington, D.C.		<b>DRILLER'S ASSISTANT:</b> None	<b>SCREEN DESC.:</b> 1" Dia. Laser-cut Steel
<b>TOTAL DEPTH:</b> 16 feet		<b>RIG TYPE:</b> Direct-Push Probe	<b>FILTER PACK:</b> None Installed
<b>DATE:</b> November 14, 2002		<b>METHOD:</b> 4' long 2" dia. macro sampler	<b>SEAL:</b> None Installed
<b>START TIME:</b> 3:00 pm	<b>COMP. TIME:</b> 4:20 pm	<b>BORING ID:</b> SP-60	<b>GROUT:</b> None Installed
<b>CLASSIFIED BY:</b> A. Nicholls		<b>MONITORING WELL ID:</b> TMW-60	<b>TOP OF CASING ELEV.:</b> Not Surveyed

DRIVE DEPTH (ft)	RECOVERY (ft.)	BLOWS/6"	PID (ppm)	LITHOLOGIC DESCRIPTION	DEPTH	ELEVATION	GRAPHIC LOG	WELL DIAGRAM	WELL DESC.
0 to 4	4.0			FILL: Silty Clay - Some Sand and Gravel - Frequent Brick, Concrete, and Coal Fragments - Brown and Black - Moist	0				
4 to 8	4.0				1				
8 to 12	4.0			SP: Fine Sand - Trace to Some Gravel - Brown - Moist to Wet	2				
12 to 16	4.0				3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				

DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

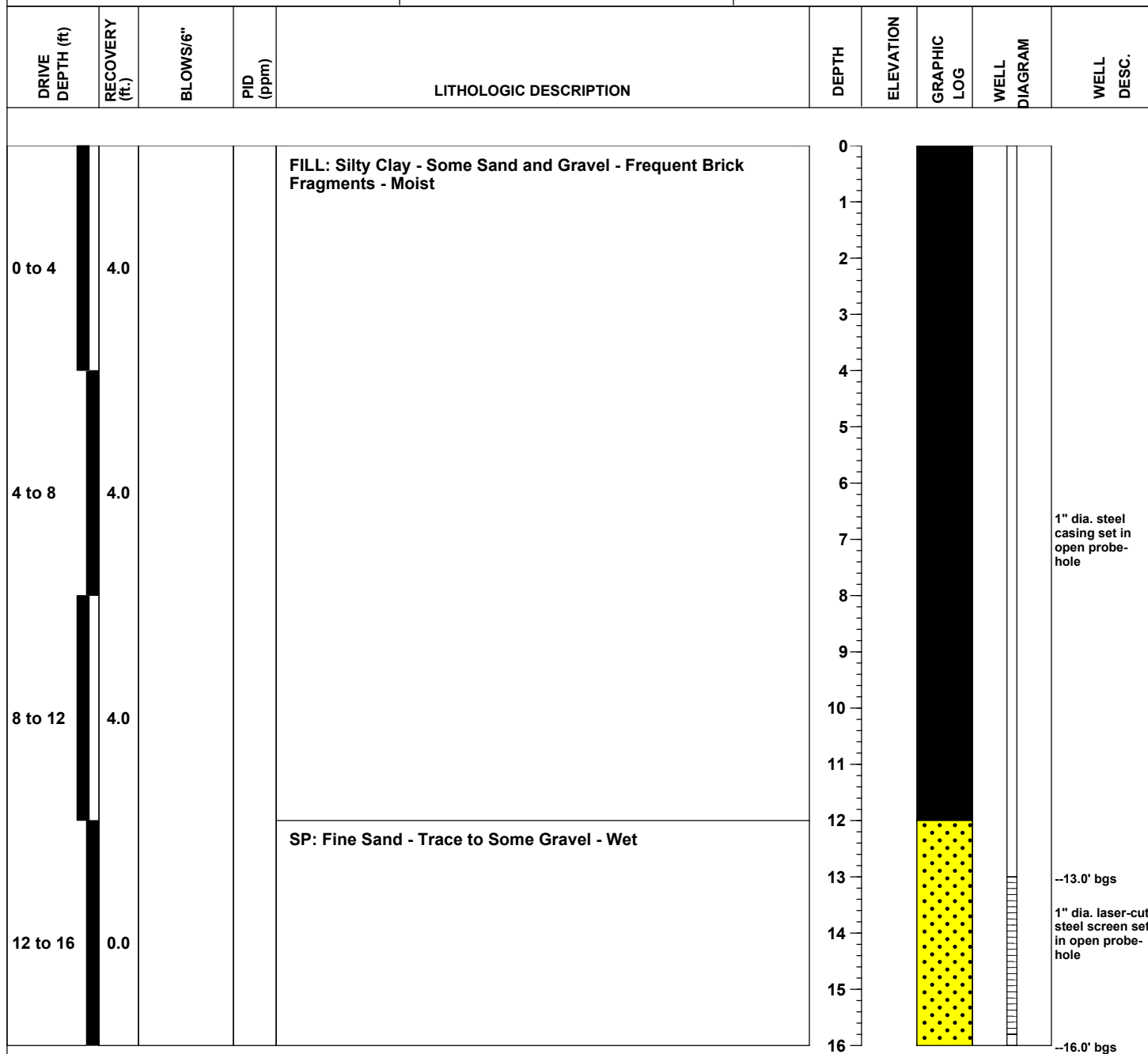
**COMMENTS:**

A 0.2' layer of burn material (coal) was observed from 5.0' to 5.2' below ground surface (bgs). Soil sample 470E-SP60-01 was collected from 5.5' to 6.0' bgs. Temporary monitoring well TMW-60 was installed in probe-hole with screened interval set between 13' and 16' bgs. Ground water sample 470E-TMW60-01 was collected from the temporary monitoring well using a peristaltic pump.





PROJECT NAME: Poplar Pt. Site Characterization		CONTRACTOR: ESN Southeast		MONUMENT TYPE: None Installed	
PROJECT NUMBER: 470E		DRILLER: David Hoilett		CASING DESC.: 1" Dia. Stainless Steel	
PROJECT LOCATION: Washington, D.C.		DRILLER'S ASSISTANT: None		SCREEN DESC.: 1" Dia. Laser-cut Steel	
TOTAL DEPTH: 16 feet		RIG TYPE: Direct-Push Probe		FILTER PACK: None Installed	
DATE: November 14, 2002		METHOD: 4' long 2" dia. macro sampler		SEAL: None Installed	
START TIME: 4:30 pm	COMP. TIME: 5:15 pm	BORING ID: SP-61		GROUT: None Installed	
CLASSIFIED BY: A. Nicholls		MONITORING WELL ID: TMW-61		TOP OF CASING ELEV.: Not Surveyed	



DEPTH TO GW DURING DRILLING (ft. bgs): 12.0

DEPTH TO GW AFTER WELL INSTALLATION (ft. below TOC): Not Measured

## COMMENTS:

Soil sample 470E-SP61-01 was collected from 5.0' to 5.5' below ground surface (bgs). Temporary monitoring well TMW-61 was installed in probe-hole with screened interval set between 13' and 16' bgs. Ground water sample 470E-TMW61-01 was collected from the temporary monitoring well using a peristaltic pump.