APPENDIX B

SOIL BORING AND MONITORING WELL LOGS

PARSONS

DRILLING RECORD

BORING/ WELL NO. MW-7 Sheet 1 of 1

Contractor ADT
Driller: Rudy Rios / Jeremy Meyers
Inspector: Sara M Chmura
Rig Type: Trac-Rig (DK-50)

PROJECT NAME: Consolidated Edison; W. 45th Street
PROJECT NUMBER: 442145-01000

Location Description:
12th Avenue; NY, NY
(Between W. 44th & W. 45th Street)

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~5'	DTW 7.4'		
Date	02/18/06	3/9/06		
Time				
Meas. From	Hand Clearance	Top of Casing		

Weather: Partly Cloudy, Cold, 20's; 30 mph wind (W)

Date/Time Start: 3/4/06 10:14

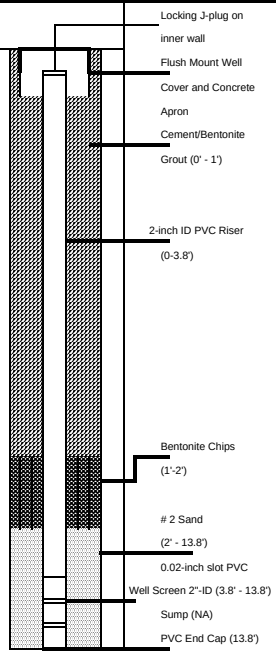
Date/Time Finish: 3/4/06 17:00

Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0		Vac-tron			0-8" = Concrete and wire mesh	
1		Vac-tron			8-10" = Trap rock	
2		Vac-tron		0.0	10" - 5' = BRICK, COBBLE and BOULDERS, some dark brown FMC Sand; trace si	
3		Vac-tron				
4		Vac-tron				
5		20-25-32-14	NR	NR	No Recovery	
6						
7		11-9-6-9	2	0.0	Red BRICK, some F angular Gravel (brick in shoe)	
8						
9	MW-7 (9'-11')	50/5	20	5.2	Wet, brown FM SAND, some micaceous fragments (hydrocarbon like odor,	
10						
11		Mud Rotary	NR	NR	No Recovery	
12						
13						
					End of boring @ 13.8' bgs, Roller bit refusal	



SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-11' bgs. / Mud Rotary to 13.8' bgs
HCN not detected in any interval.

PARSONS
DRILLING RECORD

BORING/ WELL NO. MW-8 Sheet 1 of 1

Contractor Advanced Drilling Technology
Driller:
Inspector: Paul A. Kies/ Rakesh Singh/ Mike Tavakolian
Rig Type: Track rig

PROJECT NAME: Consolidated Edison
PROJECT NUMBER: 442145-01000

Location Description:
W. 45th Street; NY, NY
UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~9'	DTW 8.82'		
Date	03/07/06	03/09/06		
Time		12:30		
Meas. From	Split spoon	Top of Casing		

Weather: Partly Cloudy, 60's 0-5 mph winds (W)

Date/Time Start: 03/07/06 10:00

Date/Time Finish: 03/07/06 16:00

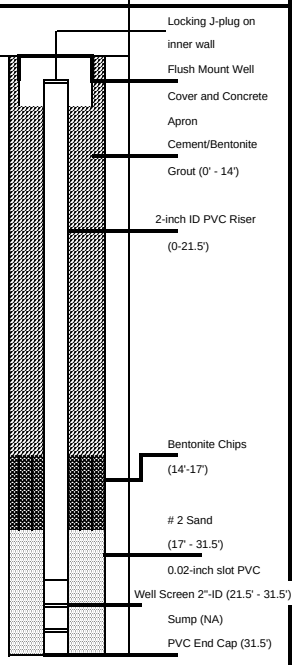
Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	FIELD IDENTIFICATION OF MATERIAL
0		Vac-tron			
1		Vac-tron			0-4" = Asphalt 4-8" = Concrete
2		Vac-tron			8-10" = Apshalt 10-12 = Concrete
3		Vac-tron		0.0	12"-5' = Light brown FM SAND, some F angular Gravel, trace silt
4		Vac-tron			
5		12-6-9-35	36	0.3	Lightbrown/grey FM SAND, some Micaceous fragments, trace silt
6					
7		50/2	24	0.0	Same as above interval with some angular gravel
8					
9	MW-8 (9'-11')	12-10-12-12	40	6.3	Dark grey ASH and CINDERS, some FC angular Gravel,
10					trace micaseous fragments, wood in shoe, cresol odor
11		25-35-19-37	24	2.3	Grey/brown FM SAND, some F angular Gravel , micaceous fragments
12					cresol like odor
13		Void	Void	Void	Void
14					
15		Void	Void	Void	Void
16					
17		8-1-2-2		0.0	Rock in shoe
18					
19		15-15-9-8	24	0.3	Grey/dark grey FM SAND, some micaceous fragments, trace FM angular rock
20					sewer like odor
21		15-14-14-15	32	0.3	Same as above Interval
22					
23		11-10-12-12	28	0.2	Same as above Interval with trace shell with brick fragments
24					
25		9-14-9-4	20	0.1	Same as above with trace wood fragments
26					
27		2-4-7-37	4	0.0	F angular GRAVEL, metal fragments, brick in shoe
28					
29		50/3	20	0.0	Dark grey FM SAND, some Micaceous fragments, trace brick fragments
30					
31	MW-8 (31'-33')	50/3	12	0.0	Grey FM SAND, micaseous fragments, trace silt and F angular gravel
					End of boring @ 31.5', Auger and spoon refusal

SCHEMATIC



COMMENTS

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-31.5' bgs.
HCN not detected in any interval.

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

PARSONS

DRILLING RECORD

BORING/ WELL NO MW-9 Sheet 1 of 1

Contractor Advanced Drilling Technology
Driller:
Inspector: Sara M Chmura/ Mike Tevakolian
Rig Type: Trac Rig

PROJECT NAME: Consolidated Edison
PROJECT NUMBER: 442145-01000

Location Description:
W. 45th Street; NY, NY
UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~11	DTW 11'		
Date	02/10/06	03/8/06		
Time		8:15		
Meas. From	Split spoon	Top of Casing		

Weather: Cold, 30's 0-5 mph winds (W)

Date/Time Start: 02/10/06 11:00

Date/Time Finish: 02/10/06 16:00

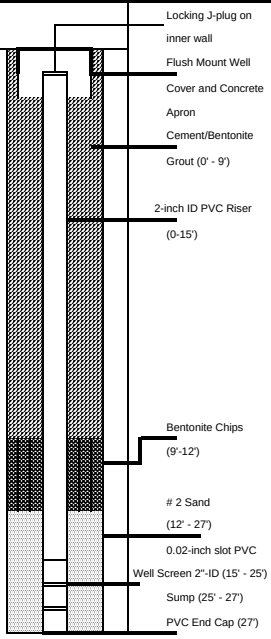
Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0		Vac-tron				
1		Vac-tron			0-6" = Asphalt	
2		Vac-tron			6-12" = Brown/light grey angular GRAVEL, FM Sand, brick fragments	
3		Vac-tron		0.0	1'-3' = BRICK, Cobbles, angular gravel, FM sand	
4		Vac-tron			3'-5' = Bag of SAND	
5		3-11-3-4	24	0.3	0-1.5" = Asphalt	
6					1.5"-24" = Sand fill from drillers	
7		3-11-2-4	8	0.0	SAND fill, Gravel, quartz fragments	
8						
9		3-4-3-4	2	0.0	Dark brown/ black F SAND, some Silt, F subangular gravel,	
10					organic odor	
11		2-2-1-2	4	0.0	Lightbrown SAND, some Silt, trace light F angular gravel, mica fragments	
12						
13		Woh-Woh-Woh-3	80	0.4	0-18" = F SAND, some Silt, trace brick fragments	
14					18-24" = Brown.black model CLAY, trace F sand, mica fragments, sulhur like odor	
15		3-8-9-7	64	0.7	0-0.5"= CLAY 5"-23"= F brown SAND, some angular Gravel,	
16					23"-24" = Red F SAND, with F angular Gravel, sulphur like odor	
17		6-5-7-4	60	2.0	Red brown F SAND, little Silt, trace F angullar gravel,	
18						
19		5-17-9-15	68	2.0	Brown F SAND, hydro carbon like odor	
20						
21	MW-9 (21'-23')	3-7-11-4	96	42.0	NAPL saturated, brown FM SAND, trace F angular Gravel, strong hydrocarbon	
22					like odor, rain bow sheen	
23		-	64	34.2	0-10" = Same as above Interval with spotty NAPL 'pockets'	
24					10-18" = Red/brown F SAND, silt lenses, M angular gravel, bedrock fragments in shoe	
25	MW-9 (25'-27')	10-17-15-19	72	23.0	Wet, Red/ brown F SAND, little Silt, grey dry-moist FM sand, F angular gravel,	
26					Rock fragments, slight hydrocarbon like odor	
					End of boring @ 27' bgs, Auger and spoon refusal	

SCHEMATIC



SAMPLING METHOD	ABBREVIATIONS
SS = SPLIT SPOON	F = FINE
A = AUGER CUTTINGS	M = MEDIUM
C = CORED	C = COARSE

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-27' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **MW-10 (SB-46)**
Inspector: Paul Kies /Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 44th Street (North Side), NY, NY
Rig Type: Trac- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~9'	DTW 9.5'		
Date	03/23/06	03/24/06		
Time		12:20:00 PM		
Meas. From	Split spoon	Top of Casing		

Weather: Cold, Sunny, 30's , 10-15 mph winds (W)

Date/Time Start: 03/23/06 09:30

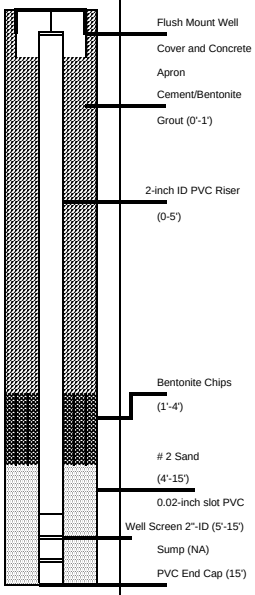
Date/Time Finish: 03/23/06 13:00

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
+3						
+2						
+1						
0		Vac-tron			0-8" = Concrete	
1		Vac-tron			8"-12" = Light brown, dry, FM SAND, some subangular Gravel, silt, no odor	
2		Vac-tron			1'-3' = Same as above Interval with trace silt	
3		Vac-tron			3'-5' = Same as above Interval	
4		Vac-tron				
5		8-11-13-9	32	0.0	Light brown, FM SAND, some angular Gravel, trace silt	
6						
7		6-7-4-3	56	1.7	Light brown, FM SAND, trace silt, micaceous fragments,	
8					Black FM sand in shoe	
9		5-4-3-3	60	3.2	Dark brown/ light brown FM SAND, some Silt, trace angular gravel,	
10					organic odor	
11	SB-46 (11'-13')	9-9-11-10	60	7.3	0'-8" = Brown/light brown FM SAND	
12					8"-12" = Red Brown FM SAND, trace Silt	
13	SB-46 (13'-15')	33-50/3	32	6.5	Red/Brown FM SAND, trace Silt, weathered rock	
14						
15		17-33-50/3	20	0.0	Grey F angular GRAVEL, schist fragments, weathered rock	
					End of boring @ 15' bgs, Auger refusal	

SCHEMATIC (drawing not to scale)



COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-15' bgs.
HCN not detected in any interval.

SAMPLING METHOD	ABBREVIATIONS
SS = SPLIT SPOON	F = FINE
A = AUGER CUTTINGS	M = MEDIUM
C = CORED	C = COARSE

Contractor Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO.** **MW-11** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	~9' bgs			
Date	3/2/07			
Time	1000			
Meas. From	Split-Spoon			

Weather: Rain, 30-40's; 5-10 mph wind (NE).

Date/Time Start: 3/2/07 0940

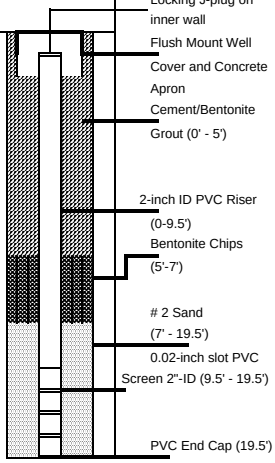
Date/Time Finish: 3/2/07 1430

Location Plan

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	FIELD IDENTIFICATION OF MATERIAL	COMMENTS
0						
			HC		0-7" = Concrete.	
2			HC		7"-5' = Brown to dark brown; cmf SAND, cmf gravel, trace silt; concrete and brick fragments.	
	MW-11 (3.5'-4')		HC			
4			HC			
			HC			
6					Drilled to 6' bgs.	
		1-2-2-3	88	1.6	Brown; f SAND, little silt, some mf gravel (0-16").	
8					Gray; cmf SAND (16-21").	
	MW-11 (8'-10')	1-2-10-10	38	7.8	Gray; f SAND, little silt (0-5").	
10					Gray brown; SILT (5-9").	
		1-1-6-7	33	6.4	Gray to brown; SILT; mottled.	
12						
		12-12-12-13	100	2.6	Gray; f SAND, and silt (0-18").	
14					Brown; SILT (18-24").	
		1-6-6-6	75	0.9	Brown; SILT (0-16").	
16					Brown to gray; SILT; f sand seams (16-18").	
		6-6-14-16	71	1.0	Brown to gray brown; SILT (0-14").	
18					Gray; mf SAND (14-17").	
	MW-11 (18'-20')	12-13-15-15	63	0.7	Brown; SILT (0-3").	
20					Gray; mf SAND (3-15").	
		50/3	NR	NR	No Recovery.	
22						
					End of Boring @ 20' bgs	
24						
26						
28						
30						
32						
34						
36						

SCHEMATIC



SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 20' bgs. Bedrock @ 20' bgs.

Hand cleared to 5 feet.

Hydrocarbon-like odor noted throughout boring. Odor diminished with depth.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO.** **MW-12**	Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**	
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison	
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street	

GROUNDWATER OBSERVATIONS				
Water Level	Not Observed			
Date	3/2/07			
Time				
Meas. From	Split-Spoon			

Weather: Rain, 30-40's; 5-10 mph wind (NE).

Date/Time Start: 3/2/07 0800

Date/Time Finish: 3/2/07 0915

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-5" = Concrete/wire mesh.		
1			HC		5"-9" = Trap rock.		
3			HC	0.0	9"-4' = Light Brown; mf SAND, some silt.	SM	
5			HC	0.0	4'-6' = Brown to orange brown; mf SAND, some silt.		
4			HC				
5			HC				
6		1-1-1-7	25	0	Brown; f SAND, trace mf gravel, trace silt; micaceous.	SP	
8	MW-12 (8'-10')	10-50/3	38	0	Brown; SILT, little clay; micaceous. White Quartzite in tip of splitspoon.	ML BEDROCK	Possible
10					**End of Boring @ 9' bgs**		
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 9' bgs. Bedrock @ 9' bgs.
Hand cleared to 6 feet.
Due to lack of water in boring location, monitoring well was not installed.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. MW-13**	Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**	
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison	
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street	

GROUNDWATER OBSERVATIONS				
Water Level	Not Observed			
Date	2/27/07			
Time				
Meas. From	Split-Spoon			

Weather: Sleet/Rain/Snow, 30's; 0-5 mph wind (W).

Date/Time Start: 2/27/07 0730

Date/Time Finish: 2/27/07 1000

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-5" = Concrete/wire mesh.		
1			HC		5"-6" = Trap rock.		
2			HC	0.0	6"-16" = Gray; Ash/Cinders; cmf sand, cmf gravel (angular), trace silt; shell fragment	FILL	
3			HC	0.0	16"-5' = Brown to orange brown; mf SAND, some cmf gravel (angular); cobbles, bric		
4			HC		fragments.		
5					Drilled through rubble and boulders to 11' bgs		
7							
9							
11		50/1	0	0.0	Rock in tip of splitspoon (white quartzite).	BEDROCK	Possible
13					**End of Boring @ 11' bgs**		
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 11' bgs. Bedrock @ 11' bgs.
Hand cleared to 5 feet.
Due to lack of water in boring location, monitoring well was not installed.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. MW-14** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	Not Observed			
Date	2/28/07			
Time				
Meas. From	Split-Spoon			

Weather: Sunny, 40's; 0-5 mph wind (W).

Date/Time Start: 2/28/07 0735

Date/Time Finish: 2/28/07 1000

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-4" = Concrete.		
1			HC		4"-5" = Trap rock.		
2			HC	0.0	5"-9" = Gray; cmf SAND, cmf gravel (angular); ash/cinders; brick fragments, shell	FILL	
3			HC		fragments.		
4			HC	0.0	9"-5' = Brown; mf SAND, some silt, little cmf gravel (rounded).		
5	MW-14 (7'-9')	2-6-2-2	50	0	Brown to orange brown; mf SAND, some silt, trace f gravel; micaceous.	SM	
7		1-13-3-50/3	29	0	Brown; f SAND, little clay.	SC	
9		50/1	0		Rock in tip of splitspoon (white quartzite).	BEDROCK	Possible
11					**End of Boring @ 9' bgs**		
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 9' bgs. Bedrock @ 9' bgs.
Hand cleared to 5 feet.
Due to lack of water in boring location, monitoring well was not installed.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. MW-15** Sheet 1 of 1
Driller: Jeremy Meyers/Khaled Eltahan		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Bikepath)

GROUNDWATER OBSERVATIONS				
Water Level	~7' bgs			
Date	4/26/07			
Time	0800			
Meas. From	Split-Spoon			

Weather: Cool, overcast, 50's; 0-5 mph wind (W)

Date/Time Start: 4/26/07 0730

Date/Time Finish: 4/26/07 1045

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-8" = Apshalt and trap rock		
1			HC	0.0	8" - 4' = Brown fmc SAND, some fc Gravel (rounded/subangular), trace silt	FILL	
2			HC		4' - 5.5' = Brown, f SAND, little silt and fc gravel (wet @ 5' bgs)		
3			HC				
4			HC	0.0	4' - 5.5' = Brown, f SAND, little silt and fc gravel (wet @ 5' bgs)		
5			HC				
			AIR		5.5' - 6.5' = Same as above interval		
7	MW-15 (7-9')	4-3-2-4	20	0	Wet, brown FM SAND, some Brick fragments and fc angular gravel (schist); little sil	FILL	
9		3-6-50/3	NR	-	Weathered rock in tip of shoe		
						BEDROCK	Possible
11					**End of Boring @ 10.5' bgs**		
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Hand cleared to 6.5' bgs. Used air knife from 5.5'- 6.5' bgs
Due to limited water in boring location, monitoring well was not installed
Auger/split spoon refusal at 10.5' bgs, possibly bedrock. HCN not detected

Contractor Advanced Drilling Technology	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Jeremy Meyers/Khaled Eltahan	**DRILLING RECORD**	**WELL NO.MW-16**
Inspector: Paul A. Kies	**PROJECT NAME:** Consolidated Edison	**Location Description:** W. 45th Street; NY, NY
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	Bikepath

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~7' bgs	DTW 10.45'		
Date	4/26/07	5/22/07		
Time				
Meas. From	Split spoon	Top of Casing		

Weather: Rainy, cool, 50's; 0-5 mph wind (W)

Date/Time Start: 4/26/07 1030

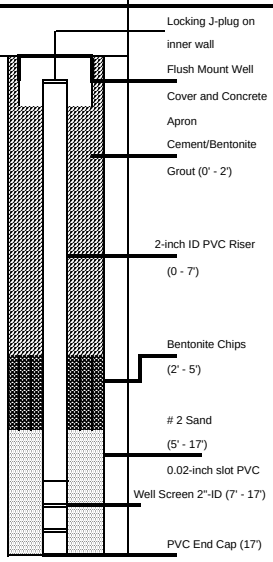
Date/Time Finish: 4/26/07 1315

Location Plan N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	FIELD IDENTIFICATION OF MATERIAL
0					
		Vac-tron			0-3" = Asphalt
1		Vac-tron			3-8" = Trap rock
		Vac-tron		0.0	8"- 4' = Brown fmc SAND, some fc Gravel (round/subrounded); trace silt,
3		Vac-tron			concrete, brick,
		Vac-tron		0.0	4'-6' = Moist, brown f SAND, little fc Gravel, little silt
5		Vac-tron			
		Vac-tron			
7		-	-	-	Drilled down to 7' bgs
		2-7-23-7	29	0.0	Wet, white GRANITE; Schist fragments in shoe
9					
		2-7-11-21	66	0.0	Wet, Brown fmc SAND, some fc angular Gravel/schist fragments
11					
		9-8-18-11	16	0.0	Same as above interval with some quartzite fragments
13					
		11-12-13-14	20	0.0	Dark grey fm SAND, some brown fm sand
15					
	MW-16 (15-17')	11-17-60-20	41	1.3	Dark grey/olive fm SAND, some fc angular Gravel; trace silt
17					(slight hydrocarbon like odor)
	MW-16 (17-15')	20-50/1	16	1.0	Same as above interval (weathered rock in tip of spoon)
19					
					End of boring @ 17.5' bgs
21					
23					
25					
27					
29					
31					
33					
35					

SCHEMATIC



COMMENTS

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

Boring was hand cleared to 6' bgs;
Hollow Stem Augers used from 7'-17.5' bgs. Possible bedrock @ 17.5' bgs
HCN not detected in any interval.

Contractor: Advanced Drilling Technology		**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. MW-17** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza			**Location Description:**
Inspector: Paul Kies		**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)		**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	Not Observed			
Date	3/1/07			
Time				
Meas. From	Split-Spoon			

Weather: Partly Cloudy, 40's; 0-5 mph wind (W).

Date/Time Start: 3/1/07 0750

Date/Time Finish: 3/1/07 1000

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-5" = Asphalt.		
1			HC	0.0	5"-9" = Brown; cmf SAND, some cmf gravel (angular).		
2			HC	0.0	9"-5' = Brown to orange brown; mf SAND, some cmf gravel to boulders (angular to rounded), trace silt.	FILL	
3			HC				
4			HC				
5	MW-17 (5'-7')	50/6	29	0	Brown to orange brown; mf SAND, some gravel; micaceous. Weathered rock in tip o	SP	
6		50/1	4		spoon. WEATHERED ROCK.	BEDROCK	Possible
7					**End of Boring @ 6' bgs**		
9							
11							
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Split-spoons attempted at 5'-7' and 6'-8'. Auger and split spoon refusal @ 6' bgs. Bedrock @ 6' bgs.
Hand cleared to 5 feet.
Due to lack of water in boring location, monitoring well was not installed.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. MW-18** Sheet 1 of 1
Driller: Tony Palomeque / Joe McGill		**Location Description:**
Inspector: Scott Dillman	**PROJECT NAME:** Consolidated Edison	W. 45th Street; NY, NY
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	(W. 46th Street)

GROUNDWATER OBSERVATIONS				
Water Level	Not Observed			
Date	5/7/07			
Time				
Meas. From	Split-Spoon			

Weather: Clear, warm, 60's; 0-5 mph wind (W)

Date/Time Start: 5/7/07 1130

Date/Time Finish: 5/7/07 1230

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-3" = Asphalt.		
1		Vac-tron		0.0	3"-5' = Light Brown, fmc SAND, trace fc gravel and silt		
2		Vac-tron				FILL	
3		Vac-tron					
4		Vac-tron					
5		Vac-tron					
6	MW-18 (5'-7')	10-11-9-9	75	0.0	Brown fm SAND, some Mica/Schist fragments and Silt, little clay		
7					(slight organic and creosol like odor)	BEDROCK	Possible
					End of Boring @ 7' bgs		
9							
11							
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Boring was hand cleared to 5' bgs;
Split spoon refusal at 7' bgs, possible bedrock. No gw observed. No monitoring well installed.
HCN not detected in any interval. Duplicate sample collected @ 5-7' interval

Contractor Advanced Drilling Technology			**BORING/ WELL NO.MW-19** Sheet 1 of 1
Driller: Tony Palomeque / Joe McGill			**Location Description:**
Inspector: Scott Dillman	**PROJECT NAME:**	Consolidated Edison	W. 45th Street; NY, NY
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:**	442145-05000	(W. 46th Street)

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~9' bgs	DTW 6.22'		
Date	5/7/07	5/22/07		
Time				
Meas. From	Split spoon	Top of Casing		

Weather: Clear, warm, 60's; 0-5 mph wind (W)

Date/Time Start: 5/7/07 0900

Date/Time Finish: 5/7/07 1130

Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)		SCHEMATIC	COMMENTS
0							Locking J-plug on inner wall
		Vac-tron			0-7" = Concrete and wire mesh		Flush Mount Well
1		Vac-tron			7-8" = Subase/aggregate		Cover and Concrete
		Vac-tron			8"-23" = Concrete		Apron
3		Vac-tron		0.0	23" - 5' = Brown fm SAND, some fc smooth/angular Gravel; little silt		Cement/Bentonite
		Vac-tron					Grout (0' - 1')
5		Vac-tron					
		3-3-3-3	83	0.0	Moist, tan fmc SAND, black/dark grey @ bottom 6"		
7					(organic like odor)		2-inch ID PVC Riser
		4-2-3-2	50	54.0	Tan f SAND, black stain @ bottom		(0 - 5')
9							
	MW-19 (9-11')	2-2-3-1	100	324	Grey/tan fm SAND; with bottom 1/2 black stain, wet and hydrocarbon like odor		
11							Bentonite Chips
		12-15-11-14	83	159	0-6" = Same as above interval; 6-16" = Red silt, some fm sand, little f gravel,		(2' - 3')
13					trace clay-till; 16-20" = Weathered mica schist		
	MW-19 (13-15')	3-50/1.5	25	45	No Recovery		# 2 Sand
15							(3' - 14')
					End of boring @ 14' bgs		0.02-inch slot PVC
17							Well Screen 2"-ID (5' - 14')
19							PVC End Cap (14')
21							
23							
25							
27							
29							
31							
33							
35							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-14' bgs. Auger and split spoon refusal at 14'bgs, possible bedrock
HCN not detected in any interval. MS/MS sample collected @ 9-11' interval

Contractor Advanced Drilling Technology			**BORING/ WELL NO.MW-20** Sheet 1 of 1
Driller: Tony Palomeque / Joe McGill			**Location Description:**
Inspector: Paul A. Kies	**PROJECT NAME:** Consolidated Edison		W. 45th Street; NY, NY
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000		(W. 44th Street)

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~9' bgs	DTW 10.80'		
Date	5/8/07	5/22/07		
Time	0930			
Meas. From	Split spoon	Top of Casing		

Weather: Clear, warm, 60's-70's; 0-5 mph wind (W)

Date/Time Start: 5/8/07 0830

Date/Time Finish: 5/8/07 1100

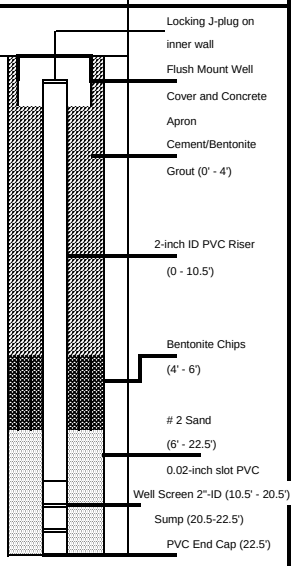
Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)	
0					
		Vac-tron			0-4" = Concrete
1		Vac-tron		0.0	4" - 2' = Dark brown, fmc SAND, little silt, fc gravel, cobble and boulders
		Vac-tron		0.0	2' -2.5' = SILT, some Mica fragments, little fc gravel
3		Vac-tron		0.0	2.5' - 5' = Dark brown, fmc SAND, little silt, fc gravel, cobble and boulders
		Vac-tron			
5		Vac-tron			
		-	-	-	Drilled down to 7' bgs, due to boulders and rubble
7					
		5-5-3-2	NR	NR	No Recovery
9					
		4-4-3-4	79	0	0-9" = Wet, brown fm SAND; trace silt
11					9-19" =Black, stained fm SAND, little f angular gravel; trace silt (hydrocarbon like odor
		3-2-7-8	75	31.4	0-16" = Same as 9-19" from above interval
13					16" -18" = Quartzite and NAPL Globules
		4-4-7-8	41	36.5	Light grey/brown/green CLAY/SILT, some f Gravel (smooth) and c Sand
15					(strong hydrocarbon like odor)
	MW-20 (15-17')	7-9-4-4	83	214.0	0-14" = Same as above interval with little NAPL seems
17					14-20" = Red/brown fm SAND; trace silt (NAPL/saturated)
		5-5-4-7	41	40.2	0-2" = Same as 14-20" above
19					2 - 10" = Reddish/brown CLAY/SILT, little f smooth gravel (Not NAPL Saturated)
		6-7-7-8	58	100.0	Red/brown FM SAND, brown NAPL seam throughout spoon
21					
	MW-20 (21-23')	9-8-9-12	50	688.0	Same as above interval (heavy NAPL saturated seams throughout spoon)
23					
	MW-20 (23-25')	9-50/4	41	32.8	0-6" = Same as above interval
25					6-10"= Green CLAY/SILT (quartzite in shoe)
					End of boring @ 23.5' bgs
27					
29					
31					
33					
35					

SCHEMATIC



COMMENTS

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-23.5' bgs. Auger and split spoon refusal at 23.5' bgs, possible bedrock
HCN not detected in any interval.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-25** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: Mini-Vac	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	Not observed			
Date	2/21/07			
Time				
Meas. From				

Weather: Clear, 40's; 0-5 mph wind (W).

Date/Time Start: 2/21/07 1115

Date/Time Finish: 2/21/07 1500

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-5" = Concrete and trap rock.	FILL	
1			HC	0.0	5"-2' = Gray; cmf SAND, some cmf gravel (angular); shell fragments.	BEDROCK	Possible
					End of Boring @ 2' bgs		
3							
5							
7							
9							
11							
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Refusal @ 2' bgs (attempted hand clearance at three locations, all had refusal between 13"-2'). Possible bedrock @ 2' bgs.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Rudy Rios / Chris Stratton	**DRILLING RECORD**	**WELL NO. SB -26**
Inspector: Paul Kies / Rakesh Singh	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Trac-Rig (DK-50)	**PROJECT NUMBER:** 442145-01000	(South Side of W. 45th Street)

GROUNDWATER OBSERVATIONS						
Water Level	~5'				**Weather:** Clear, Sunny, 40's; 0-5 mph wind (W)	**Location Plan** See Site Plan
Date	03/06/06				**Date/Time Start:** 3/6/06 09:20	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 3/6/06 12:10	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0					0'-4" = Concrete, 4-5" Trap rock		
1		Vac-tron		0.0	5" - 2'= Brown FM SAND, some F angular Gravel, trace silt		
2		Vac-tron		0.0			
3		Vac-tron		0.0	Light brown FC SAND, some smooth F Gravel; wet @ 5' bgs		
4		Vac-tron		0.0			
5		16-29-50/4	50	0.0	0-8" = Greenish Grey F SANDY/SILT		
6	SB-26 (5'-7')				8-12" = Red brown FM SAND, some silt (rock in shoe)		
7		50/1	4	0.0	Dark Grey F angular GRAVEL, some FM Sand (weathered rock)		
					End of Boring @ 6.5' bgs, Auger and split spoon refusal		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-6.5' bgs.
HCN not detected in any interval.

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB - 27**
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	

GROUNDWATER OBSERVATIONS						
Water Level	~9'				**Weather:** Clear, Sunny, 50's, 0-5 mph (W)	**Location Plan** See Site Plan
Date	02/15/06				**Date/Time Start:** 02/15/2006 09:00	
Time	1200					
Meas. From	Split spoons				**Date/Time Finish:** 02/15/2006 15:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	8" - 5' = Light grey / brown FM SAND, some FC angular Gravel		
2		Vac-tron			boulder and cobble (schist) located @ ~4' bgs, along with concrete		
3		Vac-tron			wall ~4' bgs on north side of 2'X2' hand clearance hole		
4		Vac-tron					
5		NA	NR	NA	No recovery		
6							
7		NA	NR	NA	No recovery		
8							
9	SB-27 (9'-11')	20-30-64-18	24	0.0	Light Grey FM SAND, weather Rock, wet.		
10							
11		26-28-13-10	24	0.1	Same as above Interval		
12							
13		2-4-2-2-20	32	0.0	0-6" Dark brown FM SAND, little fine Angular gravel		
14					6-8" WOOD , Weathered rock tip, sewer like smell		
15	SB-27 (15'-17')	12-50-1	40	0.1	Grey FM SAND, some Angular Gravel, trace grey silt and wood		
16					organic like odor		
					Refusal @ 15.5' bgs, Auger and spoon refusal		

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-15.5' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB - 28**
Inspector: Paul Kies / Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~9'				**Weather:** Clear, Sunny, 50's, 0-5 mph (W)	**Location Plan** See Site Plan
Date	02/16/2006				**Date/Time Start:** 02/16/2006 09:00	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 02/16/2006 15:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	8" - 5' = Light Grey / brown FM SAND, some FC Angular Gravel		
2		Vac-tron			boulder and cobble (schist) located @ ~4' bgs, along with concrete		
3		Vac-tron			wall ~4' bgs on north side of 2'X2' hand clearance hole		
4		Vac-tron					
5							
6		100-6-1	NR	NA	No recovery		
7							
8		4-5-7-11	NR	NA	No recovery		
9							
10		20-26-25	NR	NA	No recovery		
11							
12		8-11-50/3	4	0.0	Rock on top of spoon		
13							
14		18-50/1	4	0.8	Brown, FM SAND, some Wood fragments, trace silt		
15							
16		12-18-23-29	4	1.0	Grey FM SAND, grey Angular gravel, trace silt		
17							
18		7-8-11-50/1	NR	NR	No recovery		
					Refusal @ 19' bgs, Auger and spoon refusal		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-19' bgs.
HCN not detected in any interval.

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB - 29**
Inspector: Paul Kies	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Clear, Sunny 30-40°F	**Location Plan** See Site Plan
Date	02/14/06				**Date/Time Start:** 02/14/06 09:30	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 02/14/06 15:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	6" -5' = Brown FM SAND, some Cobbles, boulders and FC angular gravel		
2		Vac-tron					
3		Vac-tron					
4		Vac-tron					
5		5-6-5-6	24	14.8	0-3" FC Angular GRAVEL, micaceous Gravel		
6					4-12" Black MC SAND, Brick fragments, hydrocarbon like odor		
7	SB-29 (7'-9')	3-6-3-8	16	29.9	Black/dark brown M SAND, some trace Angular gravel		
8					hydrocarbon like odor		
9		3-4-9-5	12	19.9	Black F to M SAND, some F Angular gravel, trace silt,		
10					brick fragments, hydrocarbon like odor		
11	SB-29 (11'-13')	8-9-17-9	16	48.6	Black F angular GRAVEL, some FMC sand and some silt,		
12					hydrocarbon like odor		
13	SB-29 (13'-15')	3-4-6-50/2.4	28	10.0	0-3" Same as above Interval		
14					3-12" Brown F SAND, little Clay, some fine angular gravel, some silt		
15		0/50	NR	NA	Black metal shillings in spoon		
					End of boring @ 14.8' bgs, Auger refusal on metal bottom suspected		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-14.8' bgs.
HCN not detected in any interval.

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

Contractor: ADT	**PARSONS**	**BORING/**	Sheet 1 of 1
Driller: Brian Urick / Jamie Meyer	**DRILLING RECORD**	**WELL NO. SB - 30**	
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY	
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot	

GROUNDWATER OBSERVATIONS				
Water Level	~9'			
Date	2/1/06			
Time				
Meas. From	Split spoons			

Weather: Clear, 40's, 5-10 mph wind (W)

Date/Time Start: 2/1/06 10:00

Date/Time Finish: 2/1/06 15:35

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-5" = Asphalt		
1		Vac-tron			5-7" = Concrete		
2		Vac-tron		0.0	7-19" = Grey/brown F GRAVEL (angular and smooth), some FMC Sand and silt		
3		Vac-tron			19" - 5' =Brown FM SAND, some Brick fragments and F angular Gravel		
4		Vac-tron			(schist fragments), trace silt and metal fragments (Fill)		
5		7-8-6-5	33	0.1	Grey, FC GRAVEL, Dark Brown FC Sand and Gravel in shoe		
6							
7	SB-30 (7'-9')	5-3-4-3	16	0.2	Brown FMC SAND, some Fine angular Gravel and micaceous fragments		
8							
9		3-3-2-2	30	0.5	Wet, Black/brown F angular GRAVEL, some grey Ash and Cinders		
10					(creosol like odor)		
11		2-5-8-10	4	1.4	ASH and CINDERS; some F angular Gravel (creasol like odor)		
12							
13		4-9-4-6	16	1.0	Grey MC SAND, some F angular Gravel, trace wood fragments		
14					(creosol like odor)		
15		10-4-5-6	25	0.6	Same as above interval with black FMC SAND,		
16							
17		7-7-6-2	NR	NR	No Recovery		
18							
19		15-7-4-3	16	0.7	Brown/black F angular GRAVEL, some MC Sand; trace silt		
20					(hydrocarbon and creosol like odor)		
21		11-9-8-4	16	0.2	Same as above interval with trace F angular gravel.		
22							
23		10-5-4-4	25	0.6	Black F angular GRAVEL, some MC Sand, Ash and Cinders; trace micaceous		
24					and brick fragments (hydrocarbon like odor)		
25		1-1-3-5	12	0.5	Same as above interval		
26							
27		VOID	-	-	VOID		
28		11-15-17-21	20	0.8	Grey F angular GRAVEL, some FM Sand and Micaceous fragments		
29					(creosol and sewer like odor)		
30	SB-30 (30'-32.5')	10-12-5-4	16	0.8	Same as above interval with trace slag and rainbow sheen oberserved on the		
31					water		
32	SB-30 (32.5')	3-50/2	33	3430	0-7" = Red soft SILT, trace F sand. Bottom 1" = dry tan/brown TILL, some		
33					F angular Gravel (strong hydrocarbon like odor)		
					End of boring @ 32.5' bgs, Auger and spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-32.5' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB - 31**
Inspector: Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Cold, 32° F, partly cloudy	**Location Plan** See Site Plan
Date	02/10/06				**Date/Time Start:** 02/10/06 10:00	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 02/10/06 15:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	8" - 5' = Dark brown, FM SAND, some FC angular Gravel and silt; trace wood		
2		Vac-tron			fragments and cobble		
3		Vac-tron					
4		Vac-tron					
5		6-7-4-5	12	0.2	Schist fragments, asphalt from top of hole		
6							
7		4-5-4-5	12	12	Schist fragments, FM SAND, brown Clay, micaceous fragments,		
8					Mostly weathered rocks		
9		7-4-5-2	16	0.6	Wet loose weatherered SCHIST, trace FM sand, brick in shoe		
10							
11	SB-31 (11'-13')	5-31-17-6	16	3.1	Wet medium dense Brown, F SAND, some Schist fragments, trace F		
12					subangular gravel, concrete in shoe of spoon.		
13		6-13-4-4	80	2.4	Wet, Grey/brown F SAND, trace Gravel, brick fragments, wood in spoon		
14							
15	SB-31 (15'-17')	6-2-6-50/0	8	0.5	Red/brown MC SAND, moist to dry, some fine subangular gravel		
16					trace rounded gravel		
					End of boring @ 17.5' bgs, Auger and spoon refusal on metal bottom suspected		

SAMPLING METHOD	ABBREVIATIONS	COMMENTS:
HC = HAND CLEARED	F = FINE	Boring was hand cleared to 5' bgs;
VC = VACUUM CLEARED	M = MEDIUM	Hollow Stem Augers used from 5'-17.5' bgs.
GP = GEOPROBE/DIRECT PUSH	C = COARSE	HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB - 32**
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Cool, 30's, Sunny, 0-5 mph winds (W)	**Location Plan** See Site Plan
Date	2/9/06				**Date/Time Start:** 2/9/06 10:30	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 2/9/06 14:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	8"-5' = Brown FM SAND, some F angular Gravel, Brick fragments and silt;		
2		Vac-tron			trace micaceous fragments		
3		Vac-tron					
4		Vac-tron					
5		10-5-7-28		0.0	No recovery		
6							
7		5-3-5-5-5		0.0	No recovery		
8							
9	SP-32 (9'-11')		13	4.8	Red Brick, trace brown FM SAND, fine gravel		
10							
11	SP-32 (11'-13')	50/1	16	5.7	0-3" Brown/black FM SAND , some fine/angular gravel, trace brick fragment		
12					3"-4" Dark brown FM SAND, some silt (slight hydrocarbon odor)		
					End of boring @ 13' bgs, Auger and spoon refusal on metal bottom suspected		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-13' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Khaled E	**DRILLING RECORD**	**WELL NO.** **SB - 33**
Inspector: Sara Chmura\Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~11'			
Date	02/08/06			
Time				
Meas. From	Split spoons			

Weather: Rainy, 30-40's; 0-5 mph wind (W)

Date/Time Start: 02/08/06 11:00

Date/Time Finish: 02/08/06 13:30

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
3							
2							
1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	8 - 12" = Slag layer		
2		Vac-tron		0.0	12" - 5' = Brown to light grey FM SAND, some FC angular Gravel and		
3		Vac-tron			micaceous fragments		
4		Vac-tron					
5		6-25-17-12	12	0.8	Black Coal patch, Brown FM SAND, quartz		
6							
7		6-3-5-8	28	37.3	Brown, FM SAND, some micaceous fragments, weathered schist		
8							
9		8-8-9-10	24	9.2	Same as above Interval		
10							
11		6-6-5-5	20	10.6	Brown/black FM SAND, some Mica fragments, schist fragments		
12					hydrocarbon like odor, spotty rainbow sheen on water		
13		13-13-6-4	24	10.9	Black/brown FM SAND, some F angular Gravel, schist fragments		
14					hydrocarbon like odor		
15		21-32-6-6	8	20.1	Red/brown tan FM SAND, some F subangular Gravel		
16					trace silt, slight hydrocarbon like odor		
17	SB-33 (17'-19')	2-2-7-4	56	566.2	Dark brown, silt with SAND, rooflets, trace mica fragments		
18					slight odor, moist		
19		13-12-8-8	8	120.0	Black FM SAND		
20							
21		4-5-6-7-	40	128.0	Red/brown, F SAND, some subangular Gravel, moist, some silt,		
22					rock in shoe o f spoon, no odor		
23		9-31-15-16	68	33.5	Red/brown FM SAND, trace Silt, slight hydrocarbon like odor		
24							
25		16-50/3	28	20.1	0-5" Same as above Interval		
26					10-12" Red/brown, FM SAND, some angular Rock Gravel		
27	SB-33 (27'-28')	50/1	48	16.5	0-8" FMC SAND,F Angular Gravel		
28					8-12" Grey weathered ROCK,some FM Sand, trace F subangular gravel		
					End of boring @ 28' bgs, Auger and spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-28' bgs.
HCN not detected in any interval. Duplicate sample collected from 17'-19' bgs.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-34** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	NA			
Date	3/1/07			
Time	NA			
Meas. From	NA			

Weather: Partly Cloudy, 30-40's; 0-5 mph wind (W).

Date/Time Start: 3/1/07 1030

Date/Time Finish: 3/1/07 1400

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-9" = Concrete, wire mesh		
1			HC		9"-12" = Trap rock.		
2			HC	0.0	12"-20" = Concrete, brick, slag, cmf gravel.	FILL	
3			HC		20"-3.5' = Brick/mortar.		
4			HC		3.5'-5' = Mortar/concrete.		
5							
					Drilled to 6' bgs. White/Pink quartz.	Bedrock	
7					**End of Boring @ 6' bgs**		
9							
11							
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Auger and split spoon refusal @ 6' bgs. Possible bedrock @ 6' bgs.
Hand cleared to 5 feet.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Khaled Eltahan / Jeremy Meyers	**DRILLING RECORD**	**WELL NO. SB - 36A**
Inspector: Sal Kokol	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 44th Street, NY, NY
Rig Type: Air-Knife and Hand Auger	**PROJECT NUMBER:** 442145-01000	(North side of W. 44th Street)

GROUNDWATER OBSERVATIONS				
Water Level	ND			
Date	3/18/06			
Time				
Meas. From	Hand Clearance			

Weather: Clear, low 30's, 5-10 mph wind (W)

Date/Time Start: 3/18/06 20:45

Date/Time Finish: 3/18/06 23:30

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-10" = Concrete and rebarb		
1		Vac-tron		0.1	10" -2' = Brown FMC SAND, brick fragments.		
2		Vac-tron		0.0	2-3' = Weathered SCHIST and rock fragments		
3		Vac-tron		0.3	3-4' = Brown FMC SAND and rock fragments		
4	SB-36A (5'-5.5')	Hand Auger		0.0	4-5.5' = Brown FMC SAND, some Rock fragments		
5					(weathered rock @ bottom)		
					End of boring @ ~5.5' bgs		

COMMENTS:

Boring was hand cleared to 5.5' bgs;

HCN not detected in any interval.

SAMPLING METHOD

HC = HAND CLEARED

VC = VACUUM CLEARED

GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS

F = FINE

M = MEDIUM

C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Khaled Eltahan	**DRILLING RECORD**	**WELL NO. SB - 37**
Inspector: Sara Chmura / Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~13'			
Date	02/07/06			
Time				
Meas. From	Split spoons			

Weather: Heavy rain, 50's, 15-20 mph wind (W)

Date/Time Start: 2/3/06 10:15

Date/Time Finish: 2/7/06 16:30

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-6" = Concrete		
1		Vac-tron		0.0	6-12" = Brown to light grey F angular GRAVEL, some F Sand; trace silt		
2		Vac-tron			12"4' = Boulder, some FM Sand, trace silt.		
3		Vac-tron					
4		Vac-tron					
5		1-7-6-3	8	0.0	Sluff (#2 sand) backfill material from hand clearance		Augers skipping off of boulders, unable to drill, straight. Undermining under drillers. Unsafe to proceed.
6							
7		4-3-5	8	0.0	Sluff (#2 sand) backfill material from hand clearance		
8					(Hammer stuck, could not complete run)		
9					ADT set casing for spin and wash to 10' bgs. First split spoon will be		
10					13-15' bgs		
11							
12							
13		3-4-2-1	8	0.2	Black/brown FM SAND, trace F angular Gravel; wood fragments in shoe		
14					(wet)		
15		Void	-	-	Void		
16							
17		3-4-2-2	16	0.0	Grey/ dark brown F SAND, trace red brick fragments and F angular gravel		
18					Schist fragments in shoe		
19		4-2-1-1	16	0.3	Same as above interval		
20							
21		3-3-2-2	12	0.3	Sluff		
22							
23	SB-37 (23'-25')	5-7-10-9	16	554.0	Brown/Black FM SAND, trace angular gravel (hydrocarbon like odor)		
24					metal in shoe		
25		10-10-11-6	22	68.6	Light brown FM SAND, some angular Gravel; trace quartz		
26					(hydrocarbon like odor)		
27							
28		Void	-	-	Void from 27-32' bgs		
29							
30							
31							
32	SB-37 (32'-34')	17-25-50/1	25	65	Grey/white FM SAND, some F angular Gravel; rock in shoe		
33					(organic like odor)		
					End of boring @ 34' bgs, Spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-9' bgs (2/3/06). Spin and Wash used from 10'-34' bgs (2/7/06)
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick/ Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB - 38**
Inspector: Paul Kies	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Partly cloudy, 45 degrees	**Location Plan** See Site Plan
Date	2/2/06				**Date/Time Start:** 2/2/06 10:40	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 2/2/06 16:30	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Concrete		
1		Vac-tron		0.0	8"- 5.3" = FC angular GRAVEL and BRICK Fragments (Schist), some FM Sand,		
2		Vac-tron			Mica fragments and Cobble; trace silt (Fill)		
3		Vac-tron					
4		Vac-tron					
5	SB-38 (5'-7')	2-3-5-6	30	0.1	Brown FMC SAND, some F angular Gravel, trace silt		
6							
7		10-15-3-3	16	0.0	Sluff		
8							
9		3-5-5-3	8	0.0	Sluff		
10							
11		5-7-17-4	8	2.2	Black FMC SAND; some F angular Gravel and micaceous fragments		
12					(strong creosal like odor)		
13		Void	-	-	Void		
14							
15		2-2-6-3	6	0.7	Black FMC SAND; some F angular Gravel and micaceous fragments;		
16					trace schist fragments (hydrocarbon like odor)		
17		1-1-2-2	4	0.9	Brown/black FM SAND some F angular Gravel, trace micaceous fragments		
18					(hydrocarbon like odor)		
19		1-1-3-10	NR	NR	No Recovery		
20							
21		1-4-3-5	8	0.8	Black/grey FM SAND, some F angular Gravel, trace concrete, brick and schist		
22					fragments		
23		14-23-1-2	8	1.7	Same as above interval with hydrocarbon like odor		
24							
25		4-2-4-3	13	2.6	0-1" = Black FM SAND, some F angular gravel		
26					1-3" = Light brown F SAND, trace quartz fragments (hydrocarbon like odor)		Rainbow sheen
27	SB-38 (27'-29')	18-36-31-17	16	4.8	0-2" = Black FM SAND, some F angular Gravel and micaceous fragments		on water
28	SB-38 (29')				2-4" = Red brown TILL; some F Gravel		
					End of boring @ 29' bgs, Auger refusal		

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-29' bgs.
HCN not detected in any interval.

Contractor: ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB - 39**
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~11'			
Date	1/31/06			
Time				
Meas. From	Split spoons			

Weather: Rainy, 30-40's; 0-5 mph wind (W)

Date/Time Start: 1/31/06 09:50

Date/Time Finish: 1/31/06 16:30

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-6" = Concrete		
1		Vac-tron		0.0	6-12" = Brown FMC SAND, some F Gravel; trace silt		
2		Vac-tron			12" - 5' = FC angular GRAVEL, COBBLE and BOULDERS (Schist) (Fill)		
3		Vac-tron					
4		Vac-tron					
5	SB-39 (5'-7')	3-1-1-7	12	0.0	Brown FMC SAND, little F angular gravel, trace silt		
6							
7		10-1-3-10	NR	NR	No Recovery		
8							
9		1-3-5-5	12	0.0	Dark brown, MC SAND, some F angular Gravel, Micaceous and Quartz		
10					fragments		
11		3-4-15-9	33	0.0	Wet, Brown/dark brown FMC SAND, some F angular Gravel, Brick and		
12					Micaceous fragments, trace silt (sewer like odor).		
13		3-2-1-1	NR	NR	fragments, trace silt (sewer like odor).		
14							
15		1-4-2-6	NR	NR	No Recovery		
16							
17		2-6-5-2	NR	NR	No Recovery		
18							
19		1-1-3-6	30	0.6	Grey/brown FM SAND, some Brick and Micaceous fragments		
20							
21		7-2-7-6	0.5	0.0	QUARTZ and SCHIST fragments		
22							
23		2-15-1-1	0.5	2.0	Same as above interval with red BRICK fragments		
24							
25		3-4-7-6	NR	NR	No Recovery		
26							
27		7-7-4-5	4	0	White QUARTZ, some Schist fragments, trace sand and brick fragments		
28							
29	SB-39 (29'-31')	15-17-11-2	25	219	0-4" = Brown FM SAND, some F angular Gravel. 4-6" = Black/grey SILT, F		
30					angular GRAVEL (strong hydrocarbon like odor; product saturated @ tip of spoon)		
31	SB-39 (31'-33')	WOR/24	30	3558	Black and green/brown SILT, trace black wood fibers, NAPL saturated.		
33		50/0	0	0.0	Black sluff		
					End of boring @ 33' bgs, Auger and spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-33' bgs.
HCN not detected in any interval. Hydrocarbon fingerprint sample collected from 29'-31' bgs.

Contractor: ADT	**PARSONS**	**BORING/**	Sheet 1 of 1
Driller: Brain Urick / Rudy Rios	**DRILLING RECORD**	**WELL NO.**	**SB - 40**
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:**	W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000		UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~11'			
Date	1/30/06			
Time				
Meas. From	Split spoons			

Weather: Clear, Sunny, 40-50's; 0-5 mph wind (W)

Date/Time Start: 1/30//06 10:20

Date/Time Finish: 1/30//06 16:00

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0	SB-40 (0.5'-1.0')	Vac-tron			0-6" = Concrete		
1		Vac-tron		0.8	6"- 4' = Grey/brown FMC SAND, some FC angular gravel (rebar @ 1.5')		
2		Vac-tron			trace slag and silt (slight hydrocarbon like odor)		
3		Vac-tron		0.2	4-5' = BRICK, COBBLE, SCHIST Fragments some Silt and FM Sand (slight		
4		Vac-tron			hydrocarbon like odor) (Fill)		
5		2-7-10-20	83	3.1	Top 7" = Brown FM SAND, some Schist with coal, slag and F angular rock		
6					fragments; trace red brick fragments (slight hydrocarbon like odor)		
7		6-9-8-9	45	11.9	Brown FM SAND, some Micaceous fragments, trace brick fragments		
8					(slight hydrocarbon like odor)		
9	SB-40 (9'-11')	5-6-4-3	41	14.2	Dark brown to black FM SAND, some Micaceous fragments, FM Gravel		
10					(angular) and slag fragments (slight hydrocarbon like odor) wet @ bottom of spoon.		
11		4-3-8-5	29	11.2	Black C SAND, some F angular Gravel, trace silt and FM sand		
12					(Slight hydrocarbon and organic like odor)		
13		3-6-7-7	29	2.9	Grey/black FM SAND, some F angular Gravel (slight hydrocarbon like odor)		
14							
15		3-7-15-22	29	15.2	Dark grey FMC SAND, trace silt and F angular gravel in shoe		
16					(slight hydrocarbon like odor)		
17		8-9-8-27	100	49.1	0-12" = Black/grey FM SAND, little brick fragments. 12-24" = Black/grey M SAND, some		
18					M angular Gravel (NAPL observed @ bottom of spoon, hydrocarbon like odor)		
19		20-23-5-7	16	18.6	Black FMC SAND, little F angular gravel, trace silt (black rainbow sheen observed		
20					on water; strong hydrocarbon like odor)		
21		28-18-18-8	83	134.0	Same as above interval with F angular Gravel at bottom 10". NAPL globules observed.		
22					Rock in shoe.		
23	SB-40 (23'-25')	5-26-30-30	100	440.0	0-20" = Same as above interval. 0-4" = Brown F angular gravel, some C Sand and Silt,		
24					white quartz in shoe (bottom 4" is dry, hydrocarbon like odor).		
25		50/0	0	0.0	Rock fragments and sluff in shoe		
					End of boring @ 25' bgs		

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

COMMENTS:

Boring was hand cleared to 5' bgs;

Hollow Stem Augers used from 5'-25' bgs.

HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB - 41**
Inspector: Paul Kies / Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~11'			
Date	03/06/06			
Time				
Meas. From	Split spoons			

Weather: Clear, Sunny, 40 ° 's, 0-5 mph (W)

Date/Time Start: 03/06/06 11:00

Date/Time Finish: 03/06/06 16:00

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Asphalt		
1		Vac-tron		0.0	6" -5' = Brown FM SAND, some Cobbles, Boulders and FC angular Gravel		
2		Vac-tron					
3		Vac-tron					
4		Vac-tron					
5							
6							
7		11-5-11-11	12	0.0	Grey, FM GRAVEL, little FM Sand		
8							
9	SB-41 (9'-11')	14-13-33-13	12	0.8	Wet, Brown/Grey FMC SAND, some angular gravel.		
10							
11		13-13-16-15	NA	NA	No recovery		
12							
13		6-2-6-9	NA	NA	Rock in shoe		
14							
15		14-13-15-15-17	4	0.0	Grey F angular rock		
16							
17		4-5-7-35	4	0.0	WOOD and F angular Gravel		
18							
19	SB-41 (19'-21')	50/1	4	0.0	Grey F angular GRAVEL, some FM Sand, micaceous fragments		
					End of boring @ 19' bgs, Auger and spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-19' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** SB -42
Inspector: Paul Kies / Rakesh Singh	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Cold, Clear, 30° S, 0-5 mph (W)	**Location Plan** See Site Plan
Date	02/20/06				**Date/Time Start:** 02/20/06 09:30	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 02/20/06 14:40	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0'-8'= Asphalt		
1		Vac-tron			8"-2.5'= Dark brown FM SAND, FC angular gravel, trace brick fragment		
2		Vac-tron			2.5'- 3'= Concrete		
3		Vac-tron			3'-5'= Brown FM SAND, trace silt		
4		Vac-tron					
5		5-1--12-15	4	0.0	Brown, FM SAND, trace Silt, concrete		
6							
7		4-3-4-2	2	0.0	Same as above Interval		
8							
9		2-1-2-3	10	0.0	Brown FM SAND, trace Silt, wood in shoe		
10							
11		3-1-1-2	60	0.3	Brown FM SAND, some Silt, trace clay, organic like odor		
12							
13		1-1-2-2	60	0.5	0-14'= very silty CLAY, some FM Sand		
14					14-15'= Some Grey FM Sand, trace silt, hydrocabon like odor		
15		1-2-7-9	48	0.3	0-6"= Dark grey FM SAND, trace silt, hydrocarbon like odor		
16					6-12"= Red brown FM SAND, trace silt, slight hydrocarbon like odor		
17	SB-42 (17'-19')	6-8-9-12	48	2.6	Red brown FM SAND, some F angular Gravel,micaceous fragments		
18					hydrocarbon like odor		
19		52/24/49/73	52	0.4	Red brown FM SAND, some smooth and F angular Gravel,		
20					miscellaneous fragments		
21		8-6-21-13	20	0.1	Same as above Interval		
22							
23		50/2	12	0.0	Light brown MC SAND, some fine angular Gravel, quartz fragments		
24					miscellaneous fragments		
25	SB-42 (25'-27')	50/2	8	0.0	Brown, MC SAND, trace angular Gravel, micaseous fragments		
					End of boring @ 26', Auger refusal		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-26' bgs.
HCN not detected in any interval.

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** SB - 43
Inspector: Paul Kies / Sara Chmura	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: TrAC- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~7'			
Date	3/9/06			
Time				
Meas. From	Split spoons			

Weather: Cold, Sunny, 30-40s, 0-5 mph (W)

Date/Time Start: 3/8/06 1110

Date/Time Finish: 3/9/06 1630

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-4" = Concrete		
1		Vac-tron			4"-12"= Dark to light brown FM SAND, angular gravel, trace bricks, no odor		
2	SB-43 (1'-3')	Vac-tron		17.8	1'-3'= Dark brown FM SAND, cobbles, subangular rock, bricks, hydrocarbon like odor		
3	SB-43 (3.5')	Vac-tron		28.7	3-3.5'= Dark brown FM SAND, coal tar, hydrocarbon like odor.		
4		Vac-tron			3.5'-5' = Coal tar, FM sand, angular gravel, hydrocarbon like odor		
5		30-39	33	11.1	0-6" Dark/Light brown FM SAND, angular gravel, trace micaceous fragments, silt.		
6		50/1			6-8" Black FM SAND, fine angular gravel, trace silt (hydrocarbon like odor)		
7	SB-43 (7'-9')	50/1	0	126.0	Dark brown F SAND, silt, trace angular gravel		Spin and Wash Mudtub with roller bit used 7-9 ft;
8							
9					9-11' GRANITE w/ trace micaceous fragment, some like quartz		Brown FM Sand, some micaceous fragments,
10							
					End of boring @ 11' bgs		trace silt. Rainbow sheen on groundwater. HQ Core collected from 9-11 ft.

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-7' bgs.
HCN not detected in any interval. Hydrocarbon fingerprint sample collected from 3.5' bgs.

SAMPLING METHOD	**ABBREVIATIONS**
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

Contractor: ADT	**PARSONS**	**BORING/** Sheet 1 of 1	
Driller: Rudy Rios / Dave Gregorio	**DRILLING RECORD**	**WELL NO.** **SB -44**	
Inspector: Paul Kies / Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 44th Street, NY, NY	
Rig Type: Trac-Rig (DK-50)	**PROJECT NUMBER:** 442145-01000	(North side of W. 44th Street)	

GROUNDWATER OBSERVATIONS				
Water Level	~5'			
Date	03/08/06			
Time				
Meas. From	Split spoons			

Weather: Clear, Sunny, 30-40's; 0-5 mph wind (W)

Date/Time Start: 3/8/06 1250

Date/Time Finish: 3/8/06 1600

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-3' = Concrete, 3-6" Dark brown FM SAND, some angular Gravel, trace bricks		
1		Vac-tron		0.0	6"-12" = Moist, Llight brown/grey, F GRAVEL, some FM Sand and Brick fragments		
2		Vac-tron		0.0	1-3' = Dark brown FM Sand, some Cobble and Brick fragments		
3		Vac-tron		0.0	3-4' = Dark Grey FM SAND and F angular Gravel, Coal Tar @ bottom.		
4		Vac-tron		23.8	4-5' = Black Coal Tar (hydrocarbon like odor)		
5		8-7-5-3	50	121.0	Wet, dark brown F SANDY/SILT; trace C sand (strong hydrocarbon like odor)		
6					(rainbow sheen observed on water surface)		
7	SB-40 (7'-9')	3-5-5-8	41	26.6	0-4" = Dark brown F SANDY/SILT		
8					4-10" = Light brown F SANDY/SILT (strong hydrocarbon like odor)		
9		50/1	4	10.0	White F QUARTZ fragments, some black F Sandy/Silt (stained)		
					End of boring @ 9' bgs, Auger and split spoon refusal		

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

COMMENTS:
Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-9' bgs.
HCN not detected in any interval.

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB -45**
Inspector: Paul Kies /Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 45th Street, NY, NY
Rig Type: Trac- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	UPS Parking Lot

GROUNDWATER OBSERVATIONS				
Water Level	~11'			
Date	03/10/06			
Time				
Meas. From	Split spoons			

Weather: Cold, Sunny, 30's , 10-15 mph (W)

Date/Time Start: 03/10/06 08:40

Date/Time Finish: 03/10/06 15:15

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-6"= Concrete		
1		Vac-tron			6"-12"= Dark brown FM SAND< angular gravel, brick fragments.		
2		Vac-tron			12"-5'= Light brown FM SAND, angular gravel, trace bricks, trace cement,		
3		Vac-tron			some clay		
4		Vac-tron					
5	SB-45 (5'-7')	4-5-11-11	56	25.5	0-6"= Brown FM SAND, some Silt, trace angular gravel		
6					6"-12"= Grey/brown FM SAND, some Silt, hydrocarbon like odor		
7		9-9-30-28	24	2.3	Black F sandy SILT, some fine angular Gravel, weathered rock in shoe		
8					Hydrocarbon like odor		
9		2-3-3-1	NR	NA	No recovery		
10							
11		3-4-3-38	48	23.2	Black Fine sandy SILT, some fine angular gravel, weathered rock in shoe		
12					hydrocarbon like odor		
13		1-1-3-8	48	53.8	Light Grey/Red brown FM SAND, some fine angular Gravel,		
14							
15		11-12-13-15	48	55.9	Red brown FM SAND, little globule products, trace silt		
16							
17		30-33-56-56	24	49.1	Same as above interval		
18							
19	SB-45 (19'-21')	64-51-50/3	40	23.5	Black/olive FMC SAND, some angular Gravel, hydrocarbon like odor		
20							
					End of boring @ 21 bgs, Auger refusal		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-21' bgs.
HCN not detected in any interval.

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB -46**
Inspector: Paul Kies /Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 48th Street (South Side), NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	

GROUNDWATER OBSERVATIONS						
Water Level	~11'				**Weather:** Cold, Sunny, 30's , 10-15 mph winds (W)	**Location Plan** See Site Plan
Date	03/23/06				**Date/Time Start:** 03/23/06 09:30	
Time						
Meas. From	Split spoons				**Date/Time Finish:** 03/23/06 13:00	

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-8" = Concrete		
1		Vac-tron			8"-12"= Light brown, dry, FM SAND, some subangular Gravel, silt, no odor		
2		Vac-tron			1'-3'= Same as above Interval with trace silt		
3		Vac-tron			3'-5'= Same as above Interval		
4		Vac-tron					
5		8-11-13-9	32	0.0	Light brown, FM SAND, some angular Gravel, trace silt		
6							
7		6-7-4-3	56	1.7	Light brown, FM SAND, trace silt, micaceous fragments,		
8					Black FM sand in shoe		
9		5-4-3-3	60	3.2	Dark brown/ light brown FM SAND, some Silt, trace angular gravel,		
10					organic odor		
11	SB-46 (11'-13')	9-9-11-10	60	7.3	0'-8"= Brown/light brown FM SAND		
12					8"-12"= Red Brown FM SAND, trace Silt		
13	SB-46 (13'-15')	33-50/3	32	6.5	Red/Brown FM SAND, trace Silt, weathered rock		
14							
15		17-33-50/3	20	0.0	Grey F angular GRAVEL, schist fragments, weathered rock		
					End of boring @ 15' bgs, Auger refusal		

COMMENTS:

Boring was hand cleared to 5' bgs;
Hollow Stem Augers used from 5'-15' bgs.
HCN not detected in any interval.

SAMPLING METHOD	ABBREVIATIONS
HC = HAND CLEARED	F = FINE
VC = VACUUM CLEARED	M = MEDIUM
GP = GEOPROBE/DIRECT PUSH	C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO.** **SB -47**
Inspector: Paul Kies /Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 48th Street (South Side), NY, NY
Rig Type: GeoProbe Track Rig	**PROJECT NUMBER:** 442145-01000	

GROUNDWATER OBSERVATIONS				
Water Level	~9'			
Date	3/30/06			
Time				
Meas. From	Split spoons			

Weather: Cold, Sunny, 30's , 10-15 mph winds (W)

Date/Time Start: 03/30/06 09:00

Date/Time Finish: 03/30/06 11:10

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron			0-4"= Concrete		
1		Vac-tron			4"-12"= Dark Brown FM SAND, bricks, angular gravel, trace silt		
2		Vac-tron			1'-5' = Dark brown, FM SAND, cobbles, brick angular gravel, trace silt		
3		Vac-tron					
4		Vac-tron					
5			80	0.2	0-3' Brown FM SANDY SILT, some brick fragment, little fine/angular gravel		
6							
7					3.5-4' Concrete		
8							
9							
10			70	0.6	0-3" Concrete		
11					3"-2' Brown fine sandy SILT		
12					2-3.5' Olive, fine sandy SILT		
13					Some dark brown FM sand, some silt in shoe (slight hydrocarbon odor)		
14							
15	SB-47 (15')		60	2.0	0-1' Dark Brown FM Sand, trace silt		
16					2-3' Red/brown F SANDY SILT, some smooth to rounded fine gravel,		
17					Fine/angular gravel in shoe of macro core		
18	SB-47 (18')			4.5			
					End of boring @ 18' bgs		

COMMENTS:

Boring was hand cleared to 5' bgs;
Geoprobe used from 5'-18' bgs.
HCN not detected in any interval.

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

Contractor ADT	**PARSONS**	**BORING/** Sheet 1 of 1
Driller: Brian Urick / Jamie Meyers	**DRILLING RECORD**	**WELL NO. SB - 48**
Inspector: Paul Kies / Mike Tavakolian	**PROJECT NAME:** Con Edison / W. 45th Street	**Location Description:** W. 48th Street (South Side), NY, NY
Rig Type: Truck- Rig (CME-75)	**PROJECT NUMBER:** 442145-01000	

GROUNDWATER OBSERVATIONS				
Water Level	~9'			
Date	03/30/06			
Time				
Meas. From	Split spoons			

Weather: Cold, 30 ° 's Sunny, 10-15 mph winds (W)

Date/Time Start: 03/30/06 11:10

Date/Time Finish: 03/30/06 13:00

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	SCHEMATIC (drawing not to scale)	COMMENTS
+3							
+2							
+1							
0		Vac-tron		0.0	0-6" = Concrete		
1		Vac-tron			6"-12"= Dark brown FM SAND, angular gravel, bricks		
2		Vac-tron			1'-5'= Light brown FM SAND, cobbles, fine angular gravel, trace silt, brick		
3		Vac-tron					
4		Vac-tron					
5			90	0.2	0-3.5' Brown FM SAND, some brick fragment, fine angular gravel		
6					3.5'-4' Concrete		
7					4'-4.5' Brown CLAY and some silt in wooden shoe		
8							
9							
10			100	9.7	0-2.5' Brown F SAND, some brick, some fine/angular gravel, trace silt		
11					2.5'-3' Olive gray SILT, some fine sand, gray clay silt w/ organic fibers		
12							
13							
14							
15			60	400.0	0-2' PEAT, some gray clay and silt		
16					2'-2.5' Gray FM SAND, some organic fiber (hydrocarbon like oder)		
17					2.5'-3' Red/brown FM SAND w/ smooth, fine gravel, trace silt		
18							
19					Product globules at bottom (strong hydrocarbon odor)		
20	SB-48 (20'-21')		60	1749	Red/brown FM SAND (black product saturated),		
21					some smooth brown Gravel (strong hydrocarbon odor)		
22							
23	SB-48 (23')			409.0			
					End of boring @ 23' bgs		

COMMENTS:

Boring was hand cleared to 5' bgs;
Geoprobe used from 5'-23' bgs.
HCN not detected in any interval.

SAMPLING METHOD
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

ABBREVIATIONS
F = FINE
M = MEDIUM
C = COARSE

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-49** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	~9' bgs			
Date	2/28/07			
Time	1200			
Meas. From	Split-Spoon			

Weather: Sunny, 40's; 0-5 mph wind (W).

Date/Time Start: 2/28/07 1100

Date/Time Finish: 2/28/07 1430

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-3" = Concrete.		
1			HC		3"-6" = Trap rock.		
2			HC	0.0	6"-5' = Orange brown to brown; mf SAND, some cmf gravel; boulders (schist), aspha	FILL	
3			HC		brick fragments.		
4			HC				
5		2-3-5-9	4	0.1	Brown; cmf SAND, little silt.	SM	
7	SB-49 (7'-9')	7-10-13-18	25	0	Brown; mf SAND, trace silt; micaceous.	SP	
9		1-1-1-1	4	0	Dark gray; f SAND, and silt.	SM	
11		1-1-5-10	67	0	Gray; CLAY (0-6").	CL	
					Yellow brown to gray; f SAND, little silt, little f gravel (6-16").	SM	
13		5-7-10-11	71	0	Brown to gray; SILT (0-5").	ML	
					Yellow brown to gray; f SAND, trace silt (5-17").	SP	
15		6-6-6-6	38	0	Brown; f SAND, some silt.	SM	
17	SB-49 (17'-19')	WOR-50/2	29	0	Brown; f SAND, trace silt, trace mf gravel; white quartzite in tip of splitspoon.	SP	
						BEDROCK	Possible
19					**End of Boring @ 18' bgs**		
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 18' bgs. Bedrock @ 18' bgs.

Hand cleared to 5 feet.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-50** Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street

GROUNDWATER OBSERVATIONS				
Water Level	~8' bgs			
Date	2/27/07			
Time	1130			
Meas. From	Split-Spoon			

Weather: Sleet/Rain/Snow, 30's; 0-5 mph wind (W).

Date/Time Start: 2/27/07 1100

Date/Time Finish: 2/27/07 1400

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-4" = Concrete.		
1			HC		4"-5" = Trap rock.		
2			HC	0.0	5"-8" = Gray; Ash/Cinders; cmf sand, cmf gravel (angular); brick fragments, shell	FILL	
3			HC		fragements. 8"-5' = Brown to orange brown; mf SAND, some silt, little cmf gravel		
4			HC	0.0	(angular to rounded).		
5	SB-50 (5'-7')	2-2-2-3	42	0	Brown to orange brown; cmf SAND, some f gravel (rounded); f sand/silt in tip of splitspoon.	SW	
7		18-8-7-7	63	0	Brown; cmf SAND, little f gravel (rounded); micaceous.	SW	
					Red brown; f SAND, some silt, f gravel; micaceous.	SM	
9	SB-50 (9'-11')	16-18-22-50/3	63	0	Red brown; f SAND, some silt, f gravel; micaceous (0-14"). Weathered Bedrock (14-15").	SM	
11		50/0	NR	NR	No Recovery.	BEDROCK	Possible
13					**End of Boring @ 11' bgs**		
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Auger and split spoon refusal @ 11' bgs. Bedrock @ 11' bgs.
Hand cleared to 5 feet.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-51**	Sheet 1 of 1
Driller: Greg Rivera/Enrique Vernazza		**Location Description:**	
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison	
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street	

GROUNDWATER OBSERVATIONS				
Water Level	~9.5' bgs			
Date	2/26/07			
Time	0930			
Meas. From	Split-Spoon			

Weather: Mix of Rain and Snow; 30's, 0-5 mph wind (W).

Date/Time Start: 2/26/07 0745

Date/Time Finish: 2/26/07 1440

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-4" = Concrete/ wire mesh.		
1			HC	0.0	4"-8" = Gray; Ash/Cinders; brick fragments; some cmf sand, f gravel (angular).		
2			HC	0.0	8"-5' = Brown to orange brown; mf SAND, some cmf gravel (angular), boulders,	FILL	
3			HC		trace silt.		
4			HC				
5					Drilled down through boulders to 6' bgs		
6		13-50/3"	NR	NR	No Recovery		
8					Drilled through refusal (boulders) to 12'.		
10							
12	SB-51 (12'-14')	1-3-6-5	67	0	Brown to orange brown; cmf SAND, some cmf gravel (angular), little clay/silt.	SW	
14		10-11-10-12	21	0	Brown to orange brown; cmf SAND, some cmf gravel (angular), little clay/silt.	SW	
16	SB-51 (16'-18')	4-6-10-12	50	0	Brown to orange brown; cmf SAND, some cmf gravel (angular), little clay/silt (0-6").	SW	
					Orange brown; SILT, some f sand; weathered rock in tip of splitspoon (6"-12").	ML	
18		50/5	0	0.0	WEATHERED ROCK in tip of split spoon.	BEDROCK	Possible
20					**End of Boring @ 18' bgs**		
22							
24							
26							
28							
30							
32							
34							
36							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Auger and split spoon refusal @ 18' bgs. Bedrock @ 18' bgs.
Hand cleared to 5 feet.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-52** Sheet 1 of 1
Driller: Jeremy Meyer / Frank DiCono		**Location Description:**
Inspector: Paul A. Kies / Lee Gayle	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: Geoprobe (54-LT)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Inside UPS Parking Garage)

GROUNDWATER OBSERVATIONS				
Water Level	8"			
Date	2/16/08			
Time	1600			
Meas. From	Conrete Core			

Weather: Cold, sunny, 30's; 0-5 mph wind (W)

Date/Time Start: 2/16/08 1300

Date/Time Finish: 2/23/08 1720

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			C		0-8" = Concrete core Note: wet directly under concrete core		
1			HC	0.0	8" - 4' = Dark brown/grey F SAND, some Silt, little wood fragments	FILL	
2			HC				
3			HC				
4			HC	0.0	4' - 5' = Organic CLAY/SILT, some organic material	OH/PT	
5		MC	66	0	Dark grey F SAND, some Silt and Organic material	SM/OH	
6		MC					
		MC					
8		MC	25	1.7	Red brown FM SAND, little silt and f angular gravel	SM	Hydrocarbon like odor
		MC		0			
10		MC					
		MC					
12	SB-52 (12-14')	MC	100		Red brown FM SAND, trace silt	SM	Hydrocarbon like odor
		MC		0			
14	SB-52 (14-16')	MC		5.5	44-46" = Black heavy stained zone		Stong hydrocarbon like odor
		MC			46-48" = Red brown F sand, some silt	BEDROCK	Possible Bedrock/Refusal
16					**End of Boring @ 16' bgs**		
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							

SAMPLING METHOD

MC = MACRO-CORE
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

All work performed inside UPS parking garage
Cored concrete slab with core barrel. Hand cleared with hand auger to 5' bgs
Macro-cored to 16' bgs. Refusal at 16' bgs, possible bedrock. No HCN was detected.

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-53** Sheet 1 of 1
Driller: Yiri Kamertek / Ray Martley		**Location Description:**
Inspector: Mike Wilkinson / Lee Gayle	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: Geoprobe (54-LT)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Inside UPS Parking Garage)

GROUNDWATER OBSERVATIONS						**Location Plan**
Water Level	9"				**Weather:** Cloudy, 40's; 0-5 mph wind (W)	
Date	3/1/08				**Date/Time Start:** 3/1/08 1300	See Site Plan
Time	1400				**Date/Time Finish:** 3/1/08 1700	
Meas. From	Concrete Core					

Sample Depth	**Sample I.D.**	**SPT**	**% Rec.**	**PID (ppm)**	**FIELD IDENTIFICATION OF MATERIAL**	**USCS**	**COMMENTS**
+3							
+2							
+1							
0			C		0-9" = Concrete core Note: wet directly under concrete core		
1			HC		9" - 43" = Brown F Sand, trace silt, gravel (cobble @ 2' bgs)	FILL	
2			HC				
3			HC		43" - 46" = Grey F Sand		
4			HC		46" - 5' = Dark brown Peat	PT	
5		MC	75	0.1	0-36" = PEAT	PT	
		MC			36-39" = Light grey F Sand, little silt	SM	Saturated
7		MC					
		MC					
9		MC	68	0.1	0-2' = Light grey F Sand, trace silt	SM	
		MC			2-2'-8" = Light grey/brown F Sand, trace silt		
11		MC					
		MC					
13		MC	62	0.1	Light grey, F Sand, trace silt	SM	
		MC		5.5	Red brown F Sand, some silt at bottom 10" of macro-core		
15	SB-53 (15-17')	MC					
		MC					
17	SB-53 (17-19')	MC	25	0.2	Red brown F Sand, trace silt and rounded gravel	SM	
		MC				BEDROCK	Possible Bedrock/Refusal
19					**End of Boring @ 18.5' bgs**		
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD	**COMMENTS:**
MC = MACRO-CORE	All work performed inside UPS parking garage
C = CORED SAMPLE	Cored concrete slab with core barrel. Hand cleared with hand auger to 5' bgs
HC = HAND CLEARED	Macro-cored to 18.5' bgs. Refusal at 18.5' bgs, possible bedrock
PS = PISTON SAMPLER	
WH = WEIGHT OF HAMMER	

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-54** Sheet 1 of 1
Driller: Jeremy Meyers/Khaled Eltahan		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Bikepath)

GROUNDWATER OBSERVATIONS						**Location Plan**
Water Level	Not Observed				**Weather:** Cool, overcast, 50's; 0-5 mph wind (W)	
Date	4/26/07				**Date/Time Start:** 4/26/07 1045	See Site Plan
Time						
Meas. From	Split-Spoon				**Date/Time Finish:** 4/26/07 1400	

Sample Depth	**Sample I.D.**	**SPT**	**% Rec.**	**PID (ppm)**	**FIELD IDENTIFICATION OF MATERIAL**	**USCS**	**COMMENTS**
+3							
+2							
+1							
0			HC		0-6" = Asphalt		
1			HC		6-8" = Trap rock		
2			HC	0.0	8"-4' = Light brown fmc SAND, some FC Gravel; trace silt	FILL	
3			HC	0.0	4-6' = Brown, F SAND, little silt, mica fragments and fc gravel; brick at 4' bgs		
4			HC				
5			HC				
6			AIR	0.0	6-7' = Brown fm SAND, little silt and FC Gravel (moist @ 7' bgs)		
7	SB-54 (7-9')	3-3-50/5	20	0.0	Moist, brown FMC SAND, some FC angular Gravel; trace silt (white quartzite in tip of shoe of spoon)	SP	
9	SB-54 (9-11')	7-27-38-50/5	20	0.0	Same as above interval with weathered (schist) rock @ bottom of spoon	BEDROCK	Possible
11					**End of Boring @ 11' bgs**		
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Hand cleared to 7' bgs. Used Air Knife from 6-7' bgs
Auger/split spoon refusal at 11' bgs, (possibly bedrock)
HCN not detected

PARSONS

DRILLING RECORD

BORING/ Sheet 1 of 1

WELL NO. MW-55/SB-55

Contractor Advanced Drilling Technology
Driller: Jeremy Meyers/Khaled Eltahan
Inspector: Paul A. Kies
Rig Type: CME-LC55 (trac-rig)

PROJECT NAME: Consolidated Edison
PROJECT NUMBER: 442145-05000

Location Description:
W. 45th Street; NY, NY
Bikepath

GROUNDWATER OBSERVATIONS				
Water Level	DTW ~7' bgs	DTW 9.89'		
Date	4/27/07	5/22/07		
Time				
Meas. From	Split spoon	Top of Casing		

Weather: Rainy, cool, 50's; 0-5 mph wind (W)

Date/Time Start: 4/26/07 0725

Date/Time Finish: 4/26/07 1030

Location Plan

N

See Site Plan

Sample Depth	Location/ Sample I.D.	SPT	% Rec.	PID* (ppm)		SCHEMATIC	COMMENTS
0							Locking J-plug on inner wall
		Vac-tron			0-3" = Asphalt		Flush Mount Well
1		Vac-tron			3-8" = Trap rock		Cover and Concrete
		Vac-tron		0.0	8"- 6.5' Brown fm SAND, little silt, fc gravel (subrounded), and mica fragments		Apron
3		Vac-tron			(slag @ 4' bgs)		Cement/Bentonite
		Vac-tron					Grout (0' - 1')
5		Vac-tron					
		Vac-tron					
7		Vac-tron					2-inch ID PVC Riser
	MW-55 (7-9')	3-3-3-4	33	0.0	Wet, brown fmc SAND, some angular fc Gravel (schist fragments); trace silt		(0-4')
9							Bentonite Chips
		5-13-7-5	16	0.0	Wet, brown fm SAND, some fc angular Gravel; trace silt		(1'-3')
11					(quartzite in shoe)		
	MW-55 (11-13')	5-50/5	12	0.0	Weathered ROCK and QUARTZITE, some fmc brown Sand; trace silt		# 2 Sand
13							(3' -11')
					End of boring @ 11.5' bgs		0.02-inch slot PVC
15							Well Screen 2"-ID (4' - 11')
17							PVC End Cap (11')
19							
21							
23							
25							
27							
29							
31							
33							
35							

SAMPLING METHOD
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

Boring was hand cleared to 6.5' bgs;
Hollow Stem Augers used from 7'-11.5' bgs. Possible bedrock @ 11.5' bgs
SB-55 was converted in MW-55, due to gw observation. HCN not detected

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/** Sheet 1 of 1 **WELL NO. SB-56**
Driller: Jeremy Meyers/Khaled Eltahan		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Bikepath)

GROUNDWATER OBSERVATIONS				
Water Level	~6' bgs			
Date	4/27/07			
Time				
Meas. From	Hand Clearance			

Weather: Overcast, cool, 50-60's; 0-5 mph wind (W)

Date/Time Start: 4/30/07 0735

Date/Time Finish: 4/30/07 1000

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0 - 3" = Asphalt		
1			HC		3" - 7" = Trap rock		
			HC	0.0	7"- 16" = Brown fc GRAVEL some fmc Sand, litte silt	FILL	
3			HC	0.0	16" - 5' = Wet, brown fmc SAND, little gravel, little silt		
			HC				
5			HC				
			AIR	0.0	5-6' = Same as above (16"-5')		
7		-	-	-	Drilled down to 7' bgs	-	
	SB-56 (7-9')	3-3-21-50/3	20	0.0	Brown fm SAND, some angular fc Gravel (schist / c gravel in shoe)	SP	
9							
		50/1	NR	NR	Weathered rock in shoe (schist)		
11						Bedrock	Possible
					End of Boring @ 9' bgs		
13							
15							
17							
19							
21							
23							
25							
27							
29							
31							
33							
35							
37							

SAMPLING METHOD

SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:

Hand cleared to 6' bgs. Used air knife from 5-6' bgs
Auger/split spoon refusal @ 9' bgs, possibly bedrock
HCN not detected

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-57** Sheet 1 of 1
Driller: Jeremy Meyers/Khaled Eltahan		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 45th Street (Bikepath)

GROUNDWATER OBSERVATIONS				
Water Level	~7' bgs			
Date	5/1/07			
Time	0800			
Meas. From	Split-Spoon			

Weather: Partly cloudy, cool, 50's-60's; 0-5 mph wind (W)

Date/Time Start: 5/1/07 0740

Date/Time Finish: 5/1/07 1200

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-9" = Asphalt		
1			HC	0.0	9" - 4.5' = Brown fm SAND, some fc rounded/angular gravel; little silt	FILL	
2			HC				
3			HC				
4			HC				
5			HC	0.0	4.5' - 6' = Brown fm SAND, little silt	FILL	
6			HC				
		-	-	-	Drilled down to 7' bgs		
8	SB-57 (7-9')	7-20-4-14	25	0.0	0-5" = Brown SILT, some fm Sand and fc angular Gravel	ML	
10		2-10-1-1	25	0.0	Olive SILT, some f angular Gravel (pine, creosol, sewer like odor)	ML	
12	SB-57 (11-13')	30-6-50/4	29	0	Same as above interval	ML BEDROCK	Possible
14					**End of Boring @ 12.4' bgs**		
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Hand clearance to 6' bgs
Auger/split spoon refusal @ 12.4' bgs, possibly bedrock
HCN not detected

Contractor: Advanced Drilling Technology	**PARSONS** **DRILLING RECORD**	**BORING/ WELL NO. SB-58** Sheet 1 of 1
Driller: Tony Palomeque / Tom Sherin		**Location Description:**
Inspector: Paul Kies	**PROJECT NAME:** Consolidated Edison	Consolidated Edison
Rig Type: CME-LC55 (trac-rig)	**PROJECT NUMBER:** 442145-05000	W. 44th Street

GROUNDWATER OBSERVATIONS				
Water Level	~9' bgs			
Date	5/8/07			
Time	0800			
Meas. From	Split-Spoon			

Weather: Clear, warm, 60's-70's; 0-5 mph wind (W)

Date/Time Start: 5/8/07 0725

Date/Time Finish: 5/8/07 0830

Location Plan

See Site Plan

Sample Depth	Sample I.D.	SPT	% Rec.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	USCS	COMMENTS
+3							
+2							
+1							
0			HC		0-5" = Concrete		
1			HC		5-6" = Trap rock		
2			HC	0.0	6" - 1' = Dark grey fmc SAND, little fc gravel	FILL	
3			HC	0.0	1' - 5' = Brown f SAND, little silt, trace fmc gravel, mica fragments		
4			HC				
5			HC				
6		2-2-1-2	8	0.0	Brown fm SAND; trace silt (concrete fragments in tip of spoon)	SP	
8	SB-58 (7-9')	4-4-5-4	33	0.0	Same as above interval, with little f angular gravel, trace silt	SP	
10		2-4-4-3	62	0.0	Wet, brown/dark grey fm SAND, little f angular gravel; trace silt (very slight hydrocarbon like odor)	SP	
12	SB-58 (11-13')	3-4-7-8	62	0.0	0-7" = Grey fm SAND	SW	
					7 "- 15" = Weathered Rock (SCHIST)	BEDROCK	Possible
14		50/2	8	0.0	Weathered Rock (SCHIST)	BEDROCK	Possible
16					**End of Boring @ 13' bgs**		
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							

SAMPLING METHOD
SS = SPLIT SPOON
C = CORED SAMPLE
HC = HAND CLEARED
PS = PISTON SAMPLER
WH = WEIGHT OF HAMMER

COMMENTS:
Hand clearance to 5' bgs
Auger/split spoon refusal @ 13' bgs, possibly bedrock
HCN not detected