



Project
Wells G & H Remedial Investigation

TDD No.
F1-8409-01

Sheet
1 of 4

Hole No.
S79

Location
Along B & M RR Tracks 150 yds north of Lechmere

Angle from Horiz. Vertical

Regun
12 DEC 85

Completed

Driller
BDC

Drill Make & Model
CME55

Hole Dia.
3.5"

Overburden (ft)
107.5

Rock (ft)
20.5

Total Depth
128

Core Recovery (ft)
20

Core Bxs
2

Samples

El. Top of Casing

Ground El.
S79D-47.41 S79M-47.95

Depth to Top of Rock
107.5

Sample Hammer Weight/Fall
140 lbs/30"

Casing
Solid Sch 80 PVC 1.5" I.D.
Screen 0.010 slot

NUS Inspector
Angers

Depth	Sample No.	ROCK		SOIL			Well Construction	Stratum Description	Notes
		Core/Rec (in)	RQD	Pen/Rec (in)	Depth Interval (ft)	Blows/6"			
5								Fill: very dense gravel with high percentage of "blast rock" Highly angular very sharp edged boulders and cobbles S79S Top of Ottawa Sand 4' S79S Top of screen 5'	1 2
	01			24/16	9-11	5/5/8/9			
	02			24/18	14-16	2/2/5/45			
10							BN to dark BN and GR F SAND, and Silt, TR Peat		
				24/0	19-21	1/1/2/3			
				24/0	23-25	5/5/11/10			
15							It GR F SAND, micaceous, TR C SAND sized biotite and muscovite flakes		
				24/0	29-31	4/4/7/8			
				24/0	34-36	5/10/13/15			
20							No Recovery		
25							Augers continue to bring up soils fitting above description S79S Bottom of screen 25'		
30									

GRANULAR SOILS PROPORTIONS ABBREVIATIONS

Blows/Ft	Density	USED		
0-4	V. Loose	Trace (TR)	0-10%	F-Fine
4-10	Loose	Little (LI)	10-20%	M-Medium
10-30	M. Dense	Some (SO)	20-35%	C-Coarse
30-50	Dense	And	35-50%	F/M-Fine to Medium
>50	V. Dense			F/C-Fine to Coarse
				V-Very
				GR-Gray
				BN-Brown
				YEL-Yellow

1. Blast rock: a generic term for bedrock that has been excavated for road cuts or foundation construction through the use of explosives.
 2. S79S sealed in overburden with bentonite pellets from 4' to GS.



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Location Along B & M RR Tracks 150 yds north of Lechmere			

Depth	ROCK			SOIL			Well Construction	Stratum Description	Notes
	Sample No.	Core/Rec (in)	RQD	Pen/Rec (in)	Depth Interval (ft)	Blows/6"			
35									
40				24/2	39-41	5/8/13/30			
45				24/0	44-46	7/7/8/5			
50				24/0	49-51	8/11/11/15			
55				24/0	54-56	8/11/10/15			
60	03			24/5	59-61	10/11/13/14			
65	04			24/0	64-66	10/11/13/14			

REMARKS:



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 Hole No.: S79
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Depth	ROCK			SOIL			Well Construction	Stratum Description	Notes
	Sample No.	Core/Rec (in)	RQD	Pen/Rec (in)	Depth Interval (ft)	Blows/6"			
70	05			24/14	69-71	30/25/15/10		1t BN F/M Gravel, SO Silt, SO M/C Sand, TR C Sand	
75	06			24/12	74-76	30/25/38/55		1t BN GRAVEL, SO Silt SO M/C SAND, TR Pebbles	
80				24/7	80-82	42/16/10/12		M/C GRAVEL and C Sand TR F/M Sand	
85				24/12	84-86	21/15/15/21		1t BN M SAND, TR F SAND, TR Silt subangular grains well sorted and stratified	
90					89-91			No Sample - running sands filled casing to 80'	
95				24/12	93-95	22/22/25/25		1t BN M SAND and F/C Gravel, TR F/C Sand subangular rx fragments poorly sorted	
100				24/3	98-100	64/58/60/64			

REMARKS:



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Depth	ROCK			SOIL			Well Construction	Stratum Description	Notes	
	Sample No.	Core/Rec (in)	PQD	Pen/Rec (in)	Depth Interval (ft)	Blows/6"				
105				5/0	103	100 R		Bedrock at 107.5 Highly competent META GABBRODIORITE		
		60/60						S79D Top of Sand 111'	3	
110								S79D Top of Screen 112.5'		
		60/60								
115										
		60/60								
120										
		60/60								
125										
130									S79D Bottom of screen 127.9 EOB - 128'	

REMARKS:

3 S79D sealed in bedrock with cement/bentonite slurry from 111' to GS.