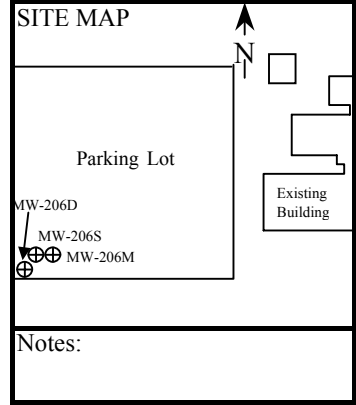


DRILLING LOG for Well #: MW-206S



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project: <u>Raytheon-Wayland</u>	Project Number: <u>143.69</u>
Client: <u>Raytheon</u>	Logged by: <u>Michael Horesh</u>
Drilling Co: <u>Geosearch, Inc.</u>	Driller: <u>Jeremiah Fluck</u>
Date Started: <u>20-Jul-02</u>	Date Finished: <u>20-Jul-02</u>
Location: <u>Wayland, MA</u>	Drilling Method: <u>4.25" ID HSA</u>
Screen Diam: <u>2"</u> Length: <u>10'</u> Slot Size: <u>0.010"</u>	Type: <u>PVC</u>
Casing Diam: <u>2"</u> Length: <u>22'</u>	Boring Diam.: <u>8"</u>
Boring Depth: <u>22'</u> Well Depth: <u>22'</u>	Depth to GW: <u>18.49'</u>
Surface Elev.: <u>130.82'</u> MP: <u>TOC</u>	MP Elev.: <u>131.1'</u>



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7								
8								
9		SAND	4-7-9-14	16"	Light tan medium to coarse SAND, trace Pebbles, some Gravel, moderately sorted, clasts at base of interval; dry.	S-1 8'-10'	0.0	
10								
11		SAND	6-8-16-18	20"	Tan to light brown coarse SAND, some Gravel, trace Cobbles, moderately sorted, some light brown horizontal staining; dry.	S-2 10'-12'	1.5	
12								
13		SAND	18-20-21-23	18"	Light to medium brown coarse to medium SAND, some Gravel, trace Pebbles, trace Cobbles, poorly sorted; dry.	S-3 12'-14'	1.0	
14								
15		SAND & GRAVEL	10-14-18-15	19"	Medium gray/brown coarse SAND & GRAVEL, little Pebbles, little Cobbles, poorly sorted; dry.	S-4 14'-16'	0.0	
16								
17		SAND	12-20-14-15	20"	Medium brown coarse SAND, some Gravel grading to coarse Sand & Gravel, little Pebbles, poorly sorted; moist-saturated.	S-5 16'-18'	0.0	
18								
19		SAND & GRAVEL	5-10-10-10	12"	Dark brown/gray coarse SAND & GRAVEL, little Pebbles, poorly sorted; saturated.	S-6 18'-20'	0.0	
20								
21		SAND & GRAVEL	8-10-13-13	17"	Medium brown/gray coarse SAND & GRAVEL, trace pebbles, poorly sorted, trace orange staining; saturated.	S-7 20'-22'	0.0	
22								
23					Bottom of Boring at 22' bgs.			
24								
25					Well Construction Details on Following Page			

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Backfill


DRILLING LOG for Well #:

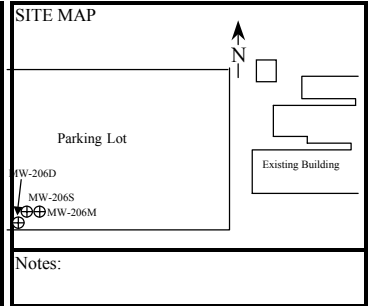
MW-206S



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-1' Concrete Surface Seal</p> <p>1'-10' Native Material</p> <p>10'-11' Bentonite Chip Seal</p> <p>11'-22' #1 Silica Sand Filter Pack</p> <p>12'-22' 0.010" Slotted PVC Well Screen</p> <p>22' Bottom of Borehole</p>			

DRILLING LOG for Well #:		MW-206M		 ERM 399 Boylston Street, 6th Floor Boston, MA 02116	
Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Mark Ciriello		
Drilling Co:	Geosearch, Inc.	Driller:	Mike DeAmicis		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	51'	Type:	PVC
Boring Depth:	56'	Well Depth:	56'	Boring Diam.:	8"
Surface Elev.:	130.75'	MP:	TOC	Depth to GW:	18.40'
		MP Elev.:	131.1'		



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
5								
10								
15								
12								
15								
18								
21					Well Construction Details:			
24					Protective Flushmount Roadbox			
27					0-1' Concrete Surface Seal			
30					1'-31' Native Material			
33					31'-47' Portland Cement and Bentonite Slurry Grout			
36					47'-48' Bentonite Chip Seal			
39					48'-56' #1 Silica Sand Filter Pack			
42					50'-55' 0.010" Slotted PVC Well Screen			
45					56' Bottom of Borehole			
48								
51								
54								
57					Bottom of Boring at 56' bgs.			
60								
63								
66								
69								
72								
75								

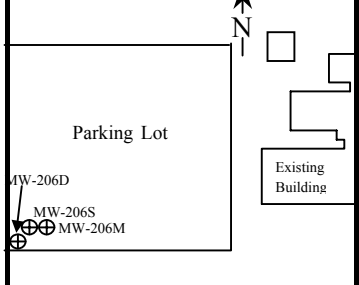
Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-206D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project: Raytheon-Wayland	Project Number: 143.69
Client: Raytheon	Logged by: Michael Horesh
Drilling Co: Geosearch, Inc.	Driller: Mike DeAmicis
Date Started: 21-Jul-02	Date Finished: 20-Jul-02
Location: Wayland, MA	Drilling Method: Drive and Wash
Screen Diam: 2" Length: 5' Slot Size: 0.010"	Type: PVC
Casing Diam: 2" Length: 73' Boring Diam.: 4"	Depth to GW: 17.43'
Boring Depth: 78' MP: TOC	MP Elev.: 130.66'

Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110								
115								
120								
125								

Well Construction Details:

Protective Flushmount Roadbox

0-1' Concrete Surface Seal

1'-70' Portland Cement and Bentonite Slurry Grout

70'-71' Bentonite Chip Seal

71'-78' #1 Silica Sand Filter Pack

73'-78' 0.010" Slotted PVC Well Screen

78' Bottom of Borehole

Bottom of Boring at 78' bgs.

Key to Well Construction



Sandpack



Well Screen



Grout



Bentonite Seal



Cement

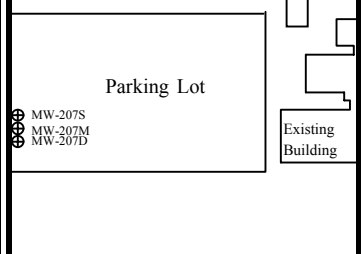


Native Fill

DRILLING LOG for Well #: MW-207S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Mark Ciriello		
Drilling Co:	Geosearch, Inc	Driller:	Pat Goodale		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	12'	Type:	PVC
Boring Depth:	22'	Well Depth:	22'	Boring Diam.:	8"
Surface Elev.:	129.5'	MP:	TOC	Depth to GW:	16.90'
		MP Elev.:	129.16'		

Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7								
8								
9		SAND	5-5-4-3	17"	Brown, well sorted, medium to coarse SAND; dry.	S-1 8'-10'	0.0	
10								
11		SAND	4-4-5-5	14"	Brown medium to coarse SAND; moist.	S-2 10'-12'	0.0	
12								
13		SAND	5-5-4-4	12"	Brown medium to coarse SAND; moist.	S-3 12'-14'	0.0	
14		SAND & GRAVEL	8-7-5-4	8"	Brown medium to coarse SAND & GRAVEL, little fine Sand; moist.	S-4 14'-16'	0.0	
15								
16								
17			6-5-7-7	NR		16'-18'		
18								
19		SAND & GRAVEL	5-4-7-3	10"	Brown, medium to coarse SAND & GRAVEL, little fine Sand, wet.	S-5 18'-20'	0.0	
20								
21		SAND & GRAVEL	6-7-7-11	16"	Brown, medium to coarse SAND & GRAVEL, little fine Sand, wet.	S-6 20'-22'	0.0	
22								
23					Bottom of Boring at 22' bgs.			
24								
25					Well Construction Details on Following Page			

NR= No Recovery

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #:

MW-207S



ERM
399 Bylston Street, 6th Floor
Boston, MA 02116

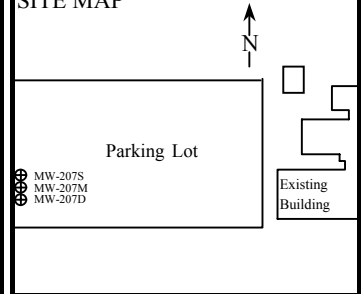
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-1' Concrete Surface Seal</p> <p>1'-9' Native Material</p> <p>9'-11' Bentonite Chip Seal</p> <p>11'-22' #1 Silica Sand Filter Pack</p> <p>12'-22' 0.010" Slotted PVC Well Screen</p> <p>22' Bottom of Borehole</p>			

DRILLING LOG for Well #: MW-207M

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project: Raytheon-Wayland	Project Number: 143.69
Client: Raytheon	Logged by: Marc Ciriello
Drilling Co: Geosearch, Inc.	Driller: Pat Goodale
Date Started: 21-Jul-02	Date Finished: 20-Jul-02
Location: Wayland, MA	Drilling Method: 4.25" ID HSA
Screen Diam: 2" Length: 5'	Slot Size: 0.010"
Casing Diam: 2" Length: 60'	Type: PVC
Boring Depth: 65'	Boring Diam.: 8"
Surface Elev.: 129.5'	MP: TOC Depth to GW: 17.08'
	MP Elev.: 129.29'

SITE MAP



Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
3								
6								
9								
12								
15								
18								
21								
24								
27								
30								
33								
36								
39								
42								
45								
48								
51								
54								
57								
60								
63								
66								
69								
72								
75								

Well Construction Details:

Protective Flushmount Roadbox

0-1' Concrete Surface Seal

1'-18' Native Material

18'-57' Portland Cement and Bentonite Slurry Grout

57'-58' Bentonite Chip Seal

58'-65' #1 Silica Sand Filter Pack

60'-65' 0.010" Slotted PVC Well Screen

65' Bottom of Borehole

Bottom of Boring at 65' bgs.

Key to Well Construction



Sandpack



Well Screen



Grout



Bentonite Seal



Cement



Native Fill

DRILLING LOG for Well #: MW-207D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project: <u>Raytheon-Wayland</u>	Project Number: <u>143.69</u>
Client: <u>Raytheon</u>	Logged by: <u>Marc Ciriello</u>
Drilling Co: <u>Geosearch, Inc</u>	Driller: <u>Ken Byload</u>
Date Started: <u>20-Jul-02</u>	Date Finished: <u>20-Jul-02</u>
Location: <u>Wayland, MA</u>	Drilling Method: <u>4.25" ID HSA</u>
Screen Diam: <u>2"</u> Length: <u>5'</u> Slot Size: <u>0.010"</u>	
Casing Diam: <u>2"</u> Length: <u>77'</u> Type: <u>PVC</u>	
Boring Depth: <u>82'</u> Well Depth: <u>82'</u> Boring Diam.: <u>8"</u>	
Surface Elev.: <u>129.5'</u> MP: <u>TOC</u> Depth to GW: <u>16.00'</u>	
MP Elev.: <u>129.10'</u>	

SITE MAP

MW-207S
MW-207M
MW-207D

Parking Lot

Existing Building

Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85					Bottom of Borehole at 82' bgs.			
90								
95								
100								
105								
110								
115								
120								
125								

Well Construction Details:
 Protective Flushmount Roadbox
 0'-1' Concrete Surface Seal
 1'-18' Native Material
 18'-74' Portland Cement and Bentonite Slurry Grout
 74'-75' Bentonite Chip Seal
 75'-82' #1 Silica Sand Filter Pack
 77'-82' 0.010" Slotted PVC Well Screen
 82' Bottom of Borehole

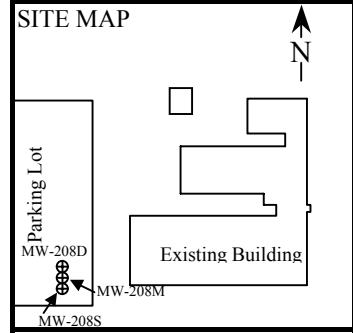
Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-208S

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Viktoria Zoltay		
Drilling Co:	Geosearch, Inc.	Driller:	Jeremiah Fluck		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	12'	Type:	PVC
Boring Depth:	22'	Well Depth:	22'	Boring Diam.:	8"
Surface Elev.:	132.9'	MP:	TOC	Depth to GW:	19.31'
		MP Elev.:	132.14'		



Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7								
8								
9		SAND & GRAVEL	9-10-13-17	14"	Coarse SAND & GRAVEL, small Cobbles intermixed, brown, loose; damp.	S-1 8'-10'	0.0	
10								
11		SAND	5-10-13-15	16	Coarse SAND w/ small fragments and Gravel, some red Sand and Gravel, small Cobbles, loose, dense; damp.	S-2 10'-12'	0.0	
12								
13		SAND	16-17-19-21	17"	Medium coarse SAND w/interbedded Gravel, loose, light brown; damp.	S-3 12'-14'	0.0	
14								
15			17-15-14-14	NR	No Recovery	14'-16'		
16								
17		SAND	19-15-14-17	12"	Coarse brown SAND w/interbedded Gravel, loose; damp.	S-4 16'-18'	6.8	
18								
19		SAND	5-5-7-8	16"	Fine SAND, medium dense, some very fine Silty Sand, dense; wet.	S-5 18'-20'	0.1	
20								
21		SAND	10-13-20-21	23"	Medium to fine SAND, Sandy Silt interbeds, brown, dense; wet.	S-6 20'-22'	0.0	
22								
23					Bottom of Boring at 22' bgs.			
24								
25					Well Construction Details of Following Page			

NR=No Recovery

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #:

MW-208S

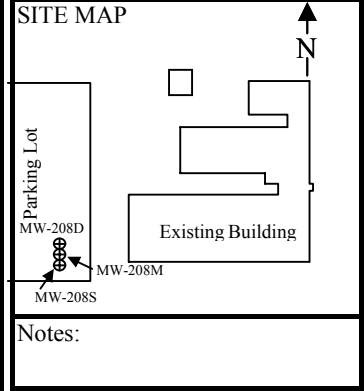


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-1' Concrete Surface Seal</p> <p>1'-9' Native Material</p> <p>9'-11' Bentonite Chip Seal</p> <p>11'-22' #1 Silica Sand Filter Pack</p> <p>12'-22' 0.010" Slotted PVC Well Screen</p> <p>22' Bottom of Borehole</p>			

DRILLING LOG for Well #: MW-208M

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116



Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Viktoria Zoltay		
Drilling Co:	Geosearch, Inc.	Driller:	Pat Goodale		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	42'	Type:	PVC
Boring Depth:	47'	Well Depth:	47'	Boring Diam.:	8"
Surface Elev.:	132.9'	MP:	TOC	Depth to GW:	19.54'
		MP Elev.:	132.38'		

Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
3								
6								
9								
12								
15								
18								
21								
24								
27								
30								
33								
36								
39								
42								
45								
48								
51								
54								
57								
60								
63								
66								
69								
72								
75								

Well Construction Details:
 Protective Flushmount Roadbox
 0'-1' Concrete Surface Seal
 1'-18' Native Material
 18'-39' Portland Cement & Bentonite Slurry Grout
 39'-40' Bentonite Chip Seal
 40'-47' #1 Silica Sand Filter Pack
 42'-47' 0.010" Slotted PVC Well Screen
 47' Bottom of Borehole

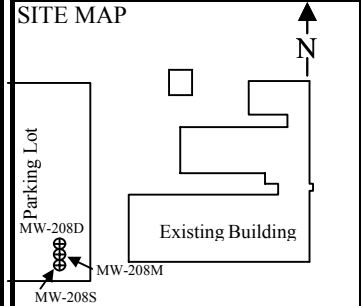
Bottom of Boring at 47' bgs.

Key to Well Construction

-  Sandpack
-  Well Screen
-  Grout
-  Bentonite Seal
-  Cement
-  Native Fill

DRILLING LOG for Well #: MW-208D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116



Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Viktoria Zoltay		
Drilling Co:	Geosearch, Inc.	Driller:	Ken Byload		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	61'	Type:	PVC
Boring Depth:	66'	Well Depth:	66'	Boring Diam.:	8"
Surface Elev.:	132.9'	MP:	TOC	Depth to GW:	18.71'
		MP Elev.:	132.38'		

Notes:

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
3								
6								
9								
12								
15								
18					Well Construction Details:			
21					Protective Flushmount Roadbox			
24					0-1' Concrete Surface Seal			
27					1'-18' Native Material			
30					18'-58' Portland Cement & Bentonite Slurry Grout			
33					58'-59' Bentonite Chip Seal			
36					59'-66' #1 Silica Sand Filter Pack			
39					61'-66' 0.010" Slotted PVC Well Screen			
42					66' Bottom of Borehole			
45								
48								
51								
54								
57								
60								
63								
66					Bottom of Boring at 66' bgs.			
69								
72								
75								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

BORING LOG for Well #:

MW-209

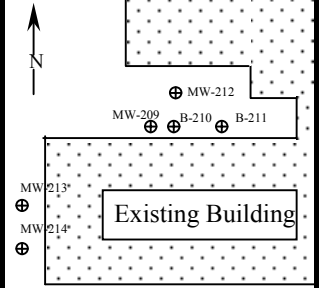


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project: Raytheon-Wayland
 Client: Raytheon
 Drilling Co: Kennedy Drilling
 Date Started: 22-Jun-02
 Location: Wayland, MA
 Screen Diam: 1" Length: 5'
 Casing Diam: 1" Length: 15.5'
 Boring Depth: 20.5' Well Depth: 20.5'
 Surface Elev.: 134.9' MP: TOC
 MP Elev.: 134.56'

Project Number: 143.69
 Logged by: Michael Horesh
 Driller: Kevin Kennedy
 Date Finished: 22-Jun-02
 Drilling Method: Direct Push
 Slot Size: 0.010"
 Type: PVC
 Boring Diam.: 1"
 Depth to GW: 16.81'

SITE MAP



Notes: DTW measured on 7/10/2002

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1		SAND & SILT		18"	Dark brown SAND and SILT, moderate sorting, trace Clay, trace Pebbles, dry.	S-1 0-3'	0.0	
2								
3		SAND		32"	Light brown med.-coarse SAND, well sorted, moderately angular; dry.	S-2 3'-6'	0.0	
4								
5								
6		SAND		36"	Brown/tan coarse SAND, well sorted, angular to rounded, some Clay, saturated at 8" interval; dry.	S-3 6'-9'	0.0	
7								
8								
9		SAND & SILT		36"	Brown/tan SAND and SILT, well sorted, some brown/tan Clay, some Silt; moist.	S-4 9'-12'	0.0	
10								
11								
12		SILT		36"	Brown/tan SILT, well sorted, orange/red staining at base of interval, trace Sand; moist.	S-5 12'-15'	0.0	
13								
14								
15		SAND & SILT		36"	Brown/tan SAND and SILT, well sorted, trace Pebbles, some orange staining; saturated.	S-6 15'-18'	0.0	
16								
17		SAND		33"	Brown/tan fine SAND, well sorted, green/gray Clay lens (.5") top of interval, trace Silt, trace Clay; saturated.	S-7 18'-19.8'	0.0	
18								
19								
20	Bottom of Boring at 20.5' bgs.							
21	Well Construction Details on Following Page							
22								
23								
24								
25								

Key to Well Construction



Sandpack



Well Screen



Grout



Bentonite Seal



Cement

BORING LOG for Well #:

MW-209



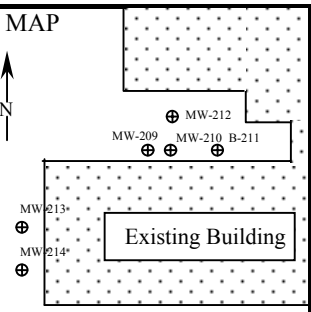
ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-2' Concrete Surface Seal</p> <p>2'-3' Bentonite Chip Seal</p> <p>3'-20.5' #1 Silica Sand Filter Pack</p> <p>15.5'-20.5' 0.010" Slotted PVC Well Screen</p> <p>20.5' Bottom of Boring</p>			

BORING LOG for Well #: MW-210

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.69
Client:	Raytheon	Logged by:	Matt Daly
Drilling Co:	Geosearch, Inc.	Driller:	Steve Law
Date Started:	20-Jul-02	Date Finished:	20-Jul-02
Location:	Wayland, MA	Drilling Method:	Geoprobe
Screen Diam:	1"	Length:	5'
Casing Diam:	1"	Length:	23'
Boring Depth:	28'	Well Depth:	28'
Surface Elev.:	134.6'	MP:	TOC
		MP Elev.:	134.30'
		Slot Size:	0.010"
		Type:	PVC
		Boring Diam.:	3"
		Depth to GW:	18.81'

Notes: DTW measured on 7/23/02

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7		SAND		42"	Tan, well sorted, coarse to fine SAND, coarse Sand at bottom of section; moist.	S-1 5'-10'	0.0	
8								
9								
10								
11								
12		SAND		54"	Light tan/brown, well sorted interbedded SAND & fine Sand, fine to medium Sand (upper 12"), coarse Sand (lower 12"); moist.	S-2 10'-15'	0.0	
13								
14								
15								
16								
17		SAND & SILT		60"	Tan/brown, well sorted interbedded SAND and SILT; wet.	S-3 15'-20'	0.0	
18								
19								
20								
21								
22		SAND & SILT		60"	Tan/brown, well sorted interbedded SAND and SILT; wet.	S-4 20'-25'	0.0	
23								
24								
25								

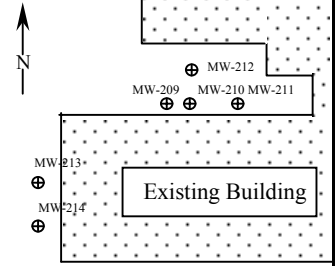
Key to Well Construction

- Sandpack
- Well Screen
- Grout
- Bentonite Seal
- Cement
- Native Fill

BORING LOG for Well #: MW-211

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.69
Client:	Raytheon	Logged by:	Matt Daly
Drilling Co:	Geosearch, Inc.	Driller:	Steve Law
Date Started:	20-Jul-02	Date Finished:	20-Jul-02
Location:	Wayland, MA	Drilling Method:	Geoprobe
Screen Diam:	1"	Length:	10'
Casing Diam:	1"	Slot Size:	0.010"
Boring Depth:	20'	Type:	PVC
Surface Elev.:	135.3'	Boring Diam.:	3"
	MP:	Depth to GW:	16.29'
	MP Elev.:		

Notes: DTW measured on 7/23/02

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7		SAND & GRAVEL		24"	Brown poorly sorted SAND & GRAVEL, some blacktop; dry.	S-1 5'-10'	0.0	
8		L						
9								
10								
11		SAND & SILT		42"	Brown, well sorted interbedded SAND and SILT, some rock fragments at top of section; moist.	S-2 10'-15'	0.0	
12								
13								
14								
15								
16								
17		SAND & SILT		54"	Brown, well sorted interbedded SAND and SILT, some Clay; wet.	S-3 15'-20'	0.0	
18								
19								
20								
21					Bottom of boring at 20' bgs.			
22								
23								
24								
25					Well Construction Details on Following Page			

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		

BORING LOG for Well #:

MW-211



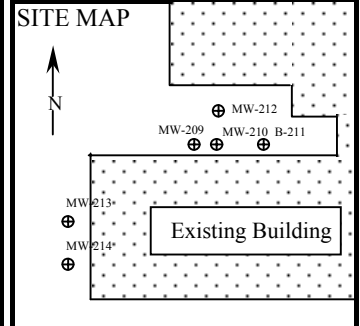
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Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-2' Concrete Surface Seal</p> <p>0-20' #1 Silica Sand Filter pack</p> <p>10'-20' 0.010" Slotted PVC Well Screen</p> <p>20' Bottom of Borehole</p>			

BORING LOG for Well #: MW-212

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Kennedy Drilling	Driller:	Kevin Kennedy		
Date Started:	22-Jun-02	Date Finished:	22-Jun-02		
Location:	Wayland, MA	Drilling Method:	Direct Push		
Screen Diam:	1"	Length:	5'	Slot Size:	0.010"
Casing Diam:	1"	Length:	14.8'	Type:	PVC
Boring Depth:	19.8'	Well Depth:	19.8'	Boring Diam.:	2"
Surface Elev.:	134.6'	MP:	TOC	Depth to GW:	15.71'
		MP Elev.:	134.39'		



Notes: DTW measured on 7/10/02

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7		SAND & GRAVEL		0.5"	Orange/brown SAND & GRAVEL, some Silt, poorly sorted, angular grains; dry.	S-1 6'-9'	0.0	
8								
9								
10		SAND & GRAVEL		24"	Dark tan poorly sorted SAND & GRAVEL, angular grains, poorly sorted; dry.	S-2 9'-12'	0.0	
11								
12								
13		SAND & GRAVEL		34"	Orange/brown coarse SAND & GRAVEL, some Cobbles, poorly sorted, some orange staining, Clay lenses; moist.	S-3 12'-15'	0.0	
14								
15								
16		SAND & GRAVEL		0.5"	Brown SAND & GRAVEL, poorly sorted, rounded grains; moist.	S-4 15'-18'	0.0	
17								
18								
19		SAND		36"	Brown coarse SAND, well sorted, little brown/gray; Silty Clay; saturated.	S-5 18'-19.8'	0.0	
20								
21					Bottom of Boring at 19.8' bgs.			
22								
23								
24								
25								

Well Construction Details on Following Page

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		

BORING LOG for Well #:

MW-212



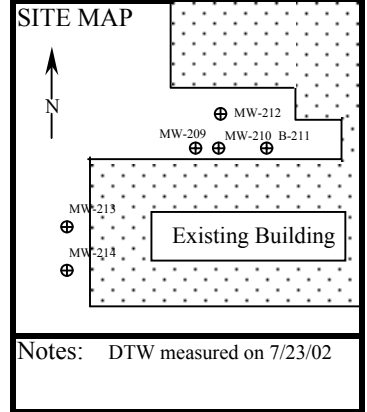
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Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details</p> <p>Protective Flushmount Roadbox</p> <p>0-2' Concrete Surface Seal</p> <p>2'-3' Bentonite Chip Seal</p> <p>3'-19.8' #1 Silica Sand Filter Pack</p> <p>14.8'-19.8' 0.010" Slotted PVC Well Screen</p> <p>19.8' Bottom of Boring</p>			

BORING LOG for Well #: MW-213

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project: Raytheon-Wayland	Project Number: 143.69
Client: Raytheon	Logged by: Matt Daly
Drilling Co: Geosearch, Inc.	Driller: Steve Law
Date Started: 20-Jul-02	Date Finished: 20-Jul-02
Location: Wayland, MA	Drilling Method: GeoProbe
Screen Diam: 1" Length: 10' Slot Size: 0.01"	
Casing Diam: 1" Length: 20' Type: PVC	
Boring Depth: 30' Well Depth: 30' Boring Diam.: 3"	
Surface Elev.: 134.9' MP: TOC Depth to GW: 18.09'	
MP Elev.: 134.40'	



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7		SILT & SAND		30"	Tan to brown interbedded SILT and SAND, well sorted, dry.	S-1 5'-10'	0.0	
8								
9								
10								
11								
12		SAND		58"	Tan to brown interbedded SAND, fine Sand and Silt, moist.	S-2 10'-15'	0.0	
13								
14								
15								
16								
17		SAND		60"	Tan to brown interbedded fine SAND, medium Sand and Silt, saturated (18").	S-3 15'-20'	0.0	
18								
19								
20								
21								
22		SAND & SILT		60"	Tan to brown interbedded SAND and SILT, well sorted, saturated.	S-4 20'-25'	0.0	
23								
24								
25								

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

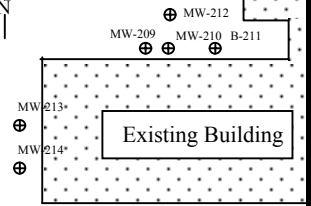
BORING LOG for Well #:

MW-214



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Matt Daly		
Drilling Co:	Geosearch, Inc.	Driller:	Steve Law		
Date Started:	20-Jul-02	Date Finished:	20-Jul-02		
Location:	Wayland, MA	Drilling Method:	GeoProbe		
Screen Diam:	1"	Length:	10'	Slot Size:	0.010"
Casing Diam:	1"	Length:	20'	Type:	PVC
Boring Depth:	30'	Well Depth:	30'	Boring Diam.:	3"
Surface Elev.:	134.7'	MP:	TOC	Depth to GW:	19.82'
		MP Elev.:	134.40'		

Notes: DTW measured on 7/23/02
Soil log performed on 6/24/02

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1		SAND		10"	Red/brown medium SAND, some Gravel, trace Cobbles, medium to well sorted, moist.	S-1 0-3'	0.0	
2								
3		SAND & GRAVEL		6"	Brown coarse SAND & GRAVEL, well sorted, moist.	S-2 3'-6'	9.6	
4								
5		SAND		36"	Brown fine to medium SAND, some horizontal black staining, trace Gravel, well sorted, moist.	S-3 6'-9'	0.0	
6								
7		SAND		30"	Light brown/tan medium SAND, some brown Clayey Silt, little brown/gray fine Sand, well sorted, saturated (10").	S-4 9'-12'	0.0	
8								
9		SAND		36"	Brown coarse SAND & SILT, some gray staining, little brown Sand and Silt, well sorted, moist.	S-5 12'-15'	0.0	
10								
11		SAND & GRAVEL		36"	Brown coarse SAND & GRAVEL, little Cobbles, some poorly sorted coarse Sand; dry.	S-6 14'-17'	0.0	
12								
13		SAND & GRAVEL		36"	Light tan/brown coarse SAND & GRAVEL, little orange staining, trace Cobbles; saturation at base of interval.	S-7 16.5'-19.5'	0.0	
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

* Overlapping boring ranges indicate collapse of borehole

Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

BORING LOG for Well #: MW-214



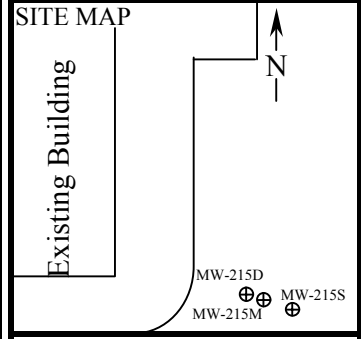
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399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
26								
27								
28								
29								
30								
31					Bottom of Boring at 30' bgs.			
32								
33					Well Construction Details:			
34					Protective Flushmount Roadbox			
35					0-2' Concrete Surface Seal			
36					2'-15' Native Material			
37					15'-18' Bentonite Chip Seal			
38					18'-30' #1 Silica Sand Filter Pack			
39					20'-30' 0.010" Slotted PVC Well Screen			
40					30' Bottom of Borehole			
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								

* Split spoon samples logged on 6-22-02, well installed on 7-20-02.

DRILLING LOG for Well #: MW-215S

ERM
399 Bylston Street, 6th Floor
Boston, MA 02116



Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Dave Crawford		
Date Started:	10-Aug-02	Date Finished:	10-Aug-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	10'	Slot Size:	0.010"
Casing Diam:	2"	Length:	12'	Type:	PVC
Boring Depth:	22'	Well Depth:	22'	Boring Diam.:	8"
Surface Elev.:	133.8'	MP:	TOC	Depth to GW:	16.21'
		MP Elev.:	133.42'		

Notes: DTW measured on 9/20/2002

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23					Bottom of Boring at 22' bgs.			
24								
25								

Well Construction Details:
 Protective Flushmount Roadbox
 0-1' Concrete Surface Pad
 1'-8' Native Material
 8'-10' Bentonite Chip Seal
 10'-22' #1 Silica Sand Filter Pack
 12'-22' 0.010" Slotted PVC Well Screen
 22' Bottom of Borehole

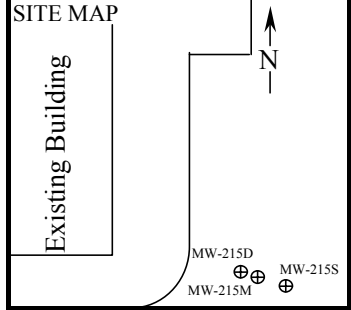
Key to Well Construction

- Sandpack
- Well Screen
- Bentonite Seal
- Cement
- Native Material

DRILLING LOG for Well #: MW-215M

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co.:	Geosearch, Inc.	Driller:	Dave Crawford		
Date Started:	10-Aug-02	Date Finished:	10-Aug-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	22'	Type:	PVC
Boring Depth:	27'	Well Depth:	27'	Boring Diam.:	8"
Surface Elev.:	133.8	MP:	TOC	Depth to GW:	16.26'
		MP Elev.:	133.48'		



Notes: DTW measured on 20-Sep-02

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
3					Well Construction Details:			
6					Protective Flushmount Roadbox			
9					0-1' Concrete Surface Pad			
12					1'-10' Native Material			
15					10'-17' Portland Cement & Bentonite Slurry Grout			
18					17'-19' Bentonite Chip Seal			
21					19'-27' #1 Silica Sand Filter Pack			
24					22'-27' 0.010" Slotted PVC Well Screen			
27					27' Bottom of Borehole			
30					Bottom of Borehole at 27' bgs.			
33								
36								
39								
42								
45								
48								
51								
54								
57								
60								
63								
66								
69								
72								
75								

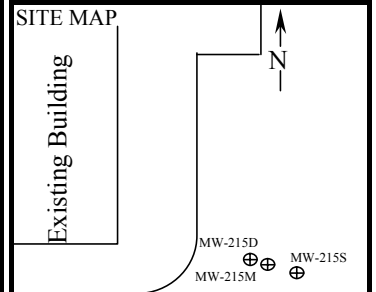
Key to Well Construction

	Sandpack		Well Screen		Grout
	Bentonite Seal		Cement		Native Fill

DRILLING LOG for Well #: MW-215D

ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Project:	Raytheon-Wayland	Project Number:	143.69		
Client:	Raytheon	Logged by:	Michael Horesh		
Drilling Co:	Geosearch, Inc.	Driller:	Dave Crawford		
Date Started:	10-Aug-02	Date Finished:	10-Aug-02		
Location:	Wayland, MA	Drilling Method:	4.25" ID HSA/Drive & Wash*		
Screen Diam:	2"	Length:	5'	Slot Size:	0.010"
Casing Diam:	2"	Length:	41.5'	Type:	PVC
Boring Depth:	47'	Well Depth:	46.5'	Boring Diam.:	8"
Surface Elev.:	133.8'	MP:	TOC	Depth to GW:	16.56'
		MP Elev.:	133.44'		



Notes: DTW measured on 9/20/2002

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
1	[Pattern]							
2	[Pattern]							
3	[Pattern]							
4	[Pattern]							
5	[Pattern]							
6	[Pattern]	SAND	9-11-13-21	16"	Brown medium SAND, well sorted, trace Pebbles, trace Gravel; dry.	S-1 5'-7'	0.0	
7	[Pattern]							
8	[Pattern]							
9	[Pattern]							
10	[Pattern]							
11	[Pattern]	SAND	6-8-8-8	11"	Brown/orange fine SAND, some coarse Sand at top of interval, little Gravel (1/2" diameter), well sorted; dry.	S-2 10'-12'	8.1	
12	[Pattern]							
13	[Pattern]							
14	[Pattern]							
15	[Pattern]							
16	[Pattern]	SAND	9-8-11-13	18"	Light brown med.-coarse SAND, well sorted, some orange staining (1.5" interval); wet.	S-3 15'-17'	6.5	
17	[Pattern]							
18	[Pattern]							
19	[Pattern]							
20	[Pattern]							
21	[Pattern]	SAND	5-7-10-10	17"	Brown-orange/brown fine SAND, some medium Sand, little Sand & Gravel (2"), some minor bedding; saturated.	S-4 20'-22'	8.9	
22	[Pattern]							
23	[Pattern]							
24	[Pattern]							
25	[Pattern]							

* HSA used to 45', Drive & Wash to 47'

Key to Well Construction

[Pattern]	Sandpack	[Pattern]	Well Screen	[Pattern]	Grout
[Pattern]	Bentonite Seal	[Pattern]	Cement	[Pattern]	Native Material

DRILLING LOG for Well #:

MW-215D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
26		SILT	5-5-4-5	17"	Med. gray SILT, some thin Clay interbeds, orange/brown Sand at top 4" of section; saturated.	S-5 25'-27'	8.2	
27								
28								
29								
30		SILT	6-8-9-9	17"	Med. gray SILT, little Clay, medium Sand at top of interval; saturated.	S-6 30'-32'	12.3	
31								
32								
33								
34		SILT	8-6-7-6	20"	Brown-gray/gray SILT, little fine Sand, minor orange staining, well sorted; saturated.	S-7 35'-37'	9.2	
35								
36								
37								
38		SAND & SILT	WOR-5-7-7	16"	Gray fine SAND and SILT, trace Gravel at base of interval, well sorted; saturated.	S-8 40'-42'	5.0	
39								
40								
41								
42		TILL	21-30-101**	6"	TILL, top 3" blow in, bottom 3" angular Cobbles, poorly sorted, little fines (Clay); saturated.	S-9 45'-47'	0.9	
43								
44								
45								
46								
47								
48					Bottom of Borehole at 47' bgs.			
49								
50								
51								
52								
53								
54								
55					Well Construction Details on Following Page			

** Final blowcount accounts for a five-inch interval

DRILLING LOG for Well #: MW-215D



ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0-1' Concrete Surface Seal</p> <p>1'-16' Native Backfill</p> <p>16'-36.5' Portland Cement & Bentonite Slurry Grout</p> <p>36.5'-38.5' Bentonite Chip Seal</p> <p>38.5'-47' #1 Silica Sand Filter Pack</p> <p>41.5'-46.5' 0.010" Slotted PVC Well Screen</p> <p>47' Bottom of Borehole</p>			