

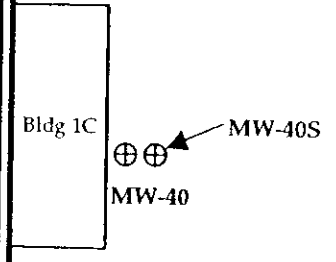
DRILLING LOG for Well #: MW-40



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

Project:	Raytheon - Wayland	Project Number:	143.45
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co:	Geosearch, Inc.	Driller:	AJ/Rodney K.
Date Started:	12-May-98	Date Finished:	12-May-98
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA
Screen Diam:	2"	Length:	10'
Casing Diam:	2"	Length:	12'
Boring Depth:	22'	Well Dept:	22'
Surface Elev.:	135.21'	MP:	PVC
		MP Elev.:	134.88'
		Slot Size:	0.01
		Type:	PVC
		Boring Diam.:	8"
		Depth to GW:	13.65'

SITE MAP



Notes: Depth to GW measured on 5/18/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1		SAND & SILT	17,14 12,11	12"	Brown fine SAND and SILT, trace Gravel, dry to damp	S-1 0'-2'	0.0	
2								
3		SAND & SILT	7,7 6,4	14"	Brown fine SAND and SILT, trace Gravel, dry to damp	S-2 2'-4'	0.0	
4								
5		SAND & SILT	6,6 8,7	20"	Brown fine SAND and SILT, trace Clay, wet	S-3 4'-6'	0.0	
6								
7		SAND & SILT	7,11 10,9	16"	Brown fine SAND and SILT, trace Clay, damp to wet	S-4 6'-8'	0.0	
8								
9		SAND & SILT	6,9 10,9	14"	Brown fine SAND and SILT, well sorted, damp	S-5 8'-10'	0.0	
10								
11		SAND & SILT	5,7 8,9	17"	Brown fine SAND and SILT, well sorted, damp	S-6 10'-12'	0.0	
12								
13		SAND & SILT	15,17 23,22	16"	Brown fine SAND and SILT, trace Clay, well sorted, damp to wet	S-7 12'-14'	0.0	
14								
15		SAND & SILT	7,14 21,27	18"	Brown fine SAND and SILT, trace Clay, well sorted, saturated	S-8 14'-16'	0.0	
16								
17								
18								
19								
20								
21		SAND & SILT	8,12 14,18	24"	Brown medium to fine SAND and SILT, trace Clay, saturated	S-9 20'-22'	0.0	
22								
23								

Well Construction Details on Following Page

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		

DRILLING LOG for Well #: MW-40



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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
					Well Construction Details: Protective Flushmount Roadbox 0'-1' Concrete surface seal 1'-9' Native backfill 9'-11' Bentonite chip seal 11'-22' # 1 silica sand filter pack 12'-22' 0.010" slotted PVC well screen 22' Bottom of boring			

DRILLING LOG for Well #: MW-40S

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

Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co.:	Geosearch, Inc.	Driller:	AJ/Rodney K.		
Date Started:	14-May-98	Date Finished:	14-May-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	25'	Type:	PVC
Boring Depth:	30'	Well Depth:	30'	Boring Diam.:	8"
Surface Elev.:	135.21'	MP:	PVC	Depth to GW:	13.64'
		MP Elev.:	134.87'		

SITE MAP

Notes: Depth to GW measured on 5/18/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6								
7								
8					Well Couplet with MW-40			
9					No split spoons advanced prior to 25' bgs			
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Footnotes for Blowcounts
 (1) 140 lb. Hammer
 (2) 300 lb. Hammer
 (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Portland Cement/Bentonite Grout
	Bentonite Seal		Cement		

DRILLING LOG for Well #: MW-40S



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399 Boylston Street, 6th Floor
Boston, MA 02116

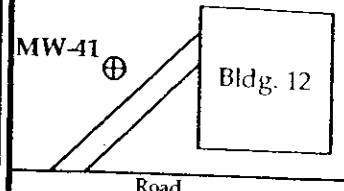
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
25		SAND	21,24	20"	Brown medium SAND, some Silt, trace Clay and Gravel, saturated	S-1	0.0	
26			26,28			25'-27'		
27								
28								
29								
30								
31		SAND & SILT	11,11 15,20	14"	Grey fine SAND and SILT, trace Clay, saturated	S-2 30'-32'	0.0	
32								
33		SAND & SILT	12,10 11,11	16"	Grey fine SAND and SILT, trace Clay, saturated	S-3 32'-34'	0.0	
34								
					Well Construction Details: Protective Flushmount Roadbox 0'-1' Concrete surface seal 1'-22' Portland cement & bentonite grout 22'-24' Bentonite chip seal 24'-30' # 1 silica sand filter pack 25'-30' 0.010" slotted PVC well screen 30' Bottom of boring			

DRILLING LOG for Well #: MW-41



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

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.45
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co.:	Geosearch, Inc.	Driller:	AJ/Rodney K.
Date Started:	11-May-98	Date Finished:	11-May-98
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA
Screen Diam:	2"	Length:	10'
Casing Diam:	2"	Length:	7'
Boring Depth:	17'	Well Dept:	17'
Surface Elev.:	125.21'	MP:	PVC
		MP Elev.:	127.43'
		Slot Size:	0.01
		Type:	PVC
		Boring Diam.:	8"
		Depth to GW:	10.54'

Notes: Depth to GW measured on 5/18/98

Depth	Well Log	Stratigraphy	Blow counts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1		SAND	6,7	6"	Brown medium to coarse SAND, some cobbles, trace rock fragments, poorly sorted, damp	S-1	0.0	
2			14,27			0'-2'		
3		SAND	17,19	11"	Brown medium to coarse SAND, some cobbles and rock fragments, poorly sorted, damp	S-2	0.0	
4			27,54			2'-4'		
5		SAND	17,14	16"	Brown medium SAND, some cobbles, trace rock fragments, poorly sorted, damp	S-3	0.0	
6			21,12			4'-6'		
7		SAND	36,31	10"	Brown-grey medium to coarse SAND, some coarse gravel, cobbles and rock fragments, poorly sorted, damp	S-4	0.0	
8			17,14			6'-8'		
9		SAND	12,12	7"	Brown medium SAND, some coarse gravel and rock fragments, poorly sorted, damp to wet	S-5	0.0	
10			7,7			8'-10'		
11		SAND	10,7	8"	Brown medium SAND, some cobbles and rock fragments, saturated	S-6	0.0	
12			7,9			10'-12'		
13								
14								
15		SAND	14,9	7"	Brown, medium to fine SAND, trace gravel, saturated	S-7	0.0	
16			7,7			14'-16'		
17								
18					Well Construction Details:			
19					Steel Protective Standpipe			
20					0'-4' Native backfill			
21					4'-6' Bentonite chip seal			
22					6'-17' # 1 silica sand filter pack			
23					7'-17' #0.01 slotted PVC well screen			
					17' Bottom of boring			

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

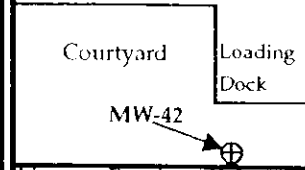
- Sandpack
- Well Screen
- Drill Cuttings
- Bentonite Seal
- Cement

DRILLING LOG for Well #: MW-42S



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

SITE MAP



Notes: Depth to CW measured on 11/17/98

Project:	Raytheon - Wayland	Project Number:	143.45
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico
Date Started:	02-Nov-98	Date Finished:	02-Nov-98
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Slot Size:	0.01
Boring Depth:	20'	Type:	PVC
Surface Elev.:	134.83'	Boring Diam.:	8"
		Depth to GW:	14.41'
		MP:	PVC
		MP Elev.:	134.44'

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND & FILL	3,3	4"	Brown medium to coarse SAND and FILL, some Gravel, dry to damp	S-1 5'-7'	0.5	
7			3,3					
8								
9								
10								
11		SAND	5,21	5"	Brown fine SAND to Silt, damp to wet	S-2 10'-12'	0.5	
12			21,22					
13								
14								
15								
16		SAND	8,11	15"	Brown fine SAND, trace Silt, wet to saturated	S-3 15'-17'	0.7	
17			14,14					
18		SAND & SILT	14,17	24"	Brown fine SAND and SILT, interbedded, saturated	S-4 17'-19'	0.7	
19			20,21					
20								
21								
22		SAND & SILT	9,8	24"	Brown fine SAND and SILT, trace Clay	S-5 21'-23'	0.8	
23			7,7		interbedded, well sorted, saturated [iron staining]			
24								

Footnotes for Blowcounts

- (1) 140 lb Hammer
- (2) 300 lb Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		

DRILLING LOG for Well #: MW-42S



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
25					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0'-1' Concrete surface seal</p> <p>1'-11' Native backfill</p> <p>11'-13' Bentonite chip seal</p> <p>13'-20' #1 silica sand filter pack</p> <p>15'-20' 0.010 slotted PVC well screen</p> <p>20' Bottom of boring</p> <p>23' Bottom of Spoon Sampling</p>			
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								

DRILLING LOG for Well #: MW-43S

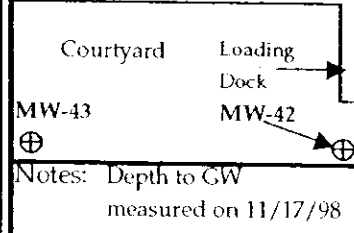


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico		
Date Started:	02-Nov-98	Date Finished:	02-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	15'	Type:	PVC
Boring Depth:	20'	Well Dept:	20'	Boring Diam.:	8"
Surface Elev.:	134.37'	MP:	PVC	Depth to GW:	14.62'
		MP Elev.:	133.82'		



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0					Well Construction Details:			
1					Protective Flushmount Roadbox			
2					0'-1' Concrete surface seal			
3					1'-11' Native backfill			
4					11'-13' Bentonite chip seal			
5					13'-20' #1 silica sand filter pack			
6					15'-20' 0.010 slotted PVC well screen			
7					20' Bottom of boring			
8					23' Bottom of Spoon Sampling			
9								
10								
11		FILL	10,13	10"	Brown to black FILL, Asphalt, some medium to fine Sand, poorly sorted, dry	S-1	0.8	
12			15,17			10'-12'		
13								
14								
15								
16		SAND & SILT	10,12	18"	Brown fine SAND and SILT, well sorted, damp	S-2	3.1	
17			14,14			15'-17'		
18		SAND	14,17	17"	Brown fine SAND, trace Silt, well sorted, saturated	S-3	2.1	
19			21,25			17'-19'		
20								
21								
22		SAND & SILT	12,12	21"	Brown fine SAND and SILT, trace Clay, well sorted, saturated [iron staining]	S-4	2.2	
23			12,14			21'-23'		
24								

Footnotes for Blowcounts

- (1) 140 lb Hammer
- (2) 300 lb Hammer
- (3) Slide Hammer

Key to Well Construction

- Sandpack
- Well Screen
- Bentonite Seal
- Cement
- Drill Cuttings

DRILLING LOG for Well #: MW-43S



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/11S	Lab Sample # & Analyses
					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0'-1' Concrete surface seal</p> <p>1'-11' Native backfill</p> <p>11'-13' Bentonite chip seal</p> <p>13'-20' #1 silica sand filter pack</p> <p>15'-20' 0.010 slotted PVC well screen</p> <p>20' Bottom of boring</p>			

DRILLING LOG for Well #: MW-43D

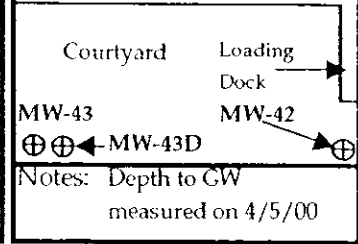


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.50
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co:	Geosearch, Inc.	Driller:	Tom Belsky
Date Started:	24-Mar-00	Date Finished:	24-Mar-00
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Slot Size:	0.01
Boring Depth:	55'	Type:	PVC
Surface Elev.:	134.55'	Boring Diam:	8"
		MP:	PVC
		MP Elev.:	134.55'
		Depth to GW:	15.71'



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11		FILL	10,13	10"		S-1	0.8	
12			15,17			10'-12'		
13								
14								
15								
16		SAND & SILT	10,12	18"	Brown fine SAND and SILT, well sorted, damp	S-2	3.1	
17			14,14			15'-17'		
18		SAND	14,17	17"	Brown fine SAND, trace Silt, well sorted, saturated	S-3	2.1	
19			21,25			17'-19'		
20								
21								
22		SILT	7,7	15"	Brown fine SAND and SILT, trace Clay, well sorted, saturated [iron staining], bedded, loose, wet	S-4	2.2	
23		SAND	8,7			21'-23'		
24					1/2" layer of med-coarse sand at about 21.5'			

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

- Sandpack
- Well Screen
- Drill Cuttings
- Bentonite Seal
- Portland cement bentonite slurry grout

DRILLING LOG for Well #:

MW-43D



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

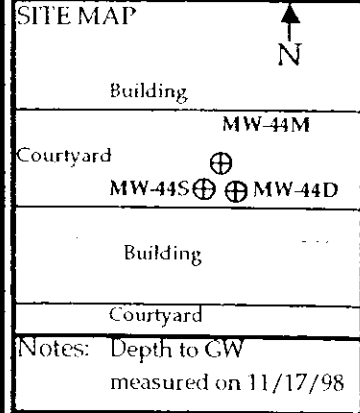
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
26		SAND	9,9,11,11	18"	Brown, fine to v. fine SAND, some med. Sand, well sorted, loose, bedded, wet; 1/2" layer of orange & black staining at 25'	S-3/25'-26'	33.2	
27		SAND & SILT	10,11 11,10	24"	Brown, interbedded layers of fine SAND and SILT, well sorted, loose, wet; orange staining -26.5' (2" thick) and 27.5' (1" thick)	S-4 26'-28'	2.2 1.0	
28		SAND	10,10 12,13	24"	Brown, interbedded fine SAND, v. fine SAND and med. SAND, well sorted, loose, wet; orange staining -29.5' (two 1/2" thick layers)	S-5 28'-30'	0.0	
29		SAND	6,6 7,7	24"	Brown, medium SAND, well sorted, homogenous, loose, wet; orange staining from 31.5'-32.0'	S-6 30'-32'	0.0	
30		SAND	8,9 12,11	24"	Brown, fine SAND, well sorted, homogeneous, loose, wet; orange staining from 33.0'-33.2' and from 33.7'-34.0'	S-7 32'-34'	0.0	
31		SAND	weight of rods	24"	Grey, fine SAND, well sorted, homogenous, loose, wet	S-8 34'-36'	0.0	
32		SAND	weight of rods	18"	Grey, fine SAND, well sorted, homogenous, loose, wet	S-9 36'-38'	0.0	
33		SAND	weight of rods	24"	Grey, fine to v. fine SAND, well sorted, homogenous, loose, wet	S-10 38'-40'	0.0	
34		SAND	weight of rods	24"	Grey, fine to v. fine SAND, well sorted, homogenous, loose, wet; orange staining (two 1" thick layers) between 41.5'-42.0'	S-11 40'-42'	0.0	
35		SAND	12,15 12,11	24"	Grey, fine to v. fine SAND, well sorted, homogenous, loose, wet; bottom 3" of spoon contains broken rock clasts	S-12 42'-44'	0.0	
36		SILT & SAND	41,46 43,39	12"	Grey SILT and fine SAND, some medium coarse Sand, trace fine to med gravel, poorly sorted, compact, wet; TILL.	S-13 44'-46'	0.0	
37		SILT & SAND	38,34 29,31	24"	Grey SILT and fine SAND, some medium coarse Sand, trace fine to med gravel, poorly sorted, compact, wet; TILL.	S-14 46'-48'	0.0	
38	<p>Note: Advanced augers to 55 feet; top of bedrock noted at 54 feet.</p> <p><u>Well Construction Details</u> Flush-mount Roadbox 0-2' Concrete surface seal 2-43' Portland cement-bentonite slurry grout 43-45' Bentonite chip seal 45-55' #1 Silica sand filter pack 50-55' 0.010" slotted PVC well screen 55' Bottom of borehole</p>							

DRILLING LOG for Well #: MW-44S



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

Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Tom Belsky		
Date Started:	05-Nov-98	Date Finished:	05-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	27'	Type:	PVC
Boring Depth:	32'	Well Dept	32'	Boring Diam.:	8"
Surface Elev.:	135.02'	MP:	PVC	Depth to GW:	16.17'
		MP Elev.:	134.71'		



Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
2								
4								
6								
8								
10					No Split-Spoon Samples Collected			
12								
14								
16					Well Construction Details:			
18					Protective Flushmount Roadbox			
20					0'-1' Concrete surface seal			
22					1'-5' Native backfill			
24					5'-22' Grout			
26					22'-25' Bentonite chip seal			
28					25'-32' #1 silica sand filter pack			
30					27'-32' 0.010 slotted PVC well screen			
32					32' Bottom of boring			
34								
36								
38								
40								
42								
44								
46								
48								

Footnotes for Blowcounts
 (1) 110 lb. Hammer
 (2) 300 lb. Hammer
 (3) Slide Hammer

Key to Well Construction

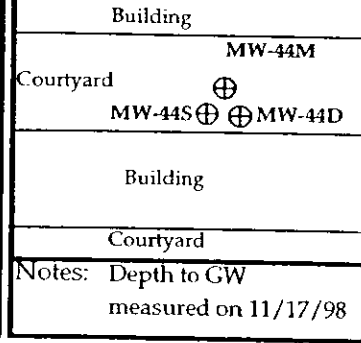
	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #: MW-44M



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

SITE MAP



Project: Raytheon - Wayland	Project Number: 143.45
Client: Raytheon	Logged by: Ryan Bagley
Drilling Co: Geosearch, Inc.	Driller: Mike D'Amico
Date Started: 5-Nov-98	Date Finished: 5-Nov-98
Location: Wayland, Massachusetts	Drilling Method: 4.25 ID HSA
Screen Diam: 2" Length: 5'	Slot Size: 0.01
Casing Diam: 2" Length: 43'	Type: PVC
Boring Depth: 48' Well Dept: 48'	Boring Diam.: 8"
Surface Elev.: MP: PVC	Depth to GW: 16.15'
MP Elev.: 134.58'	

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0					No Split-Spoon Samples Collected			
5					Well Construction Details:			
10					Protective Flushmount Roadbox			
15					0'-1' Concrete surface seal			
20					1'-12' Native backfill			
25					12'-39' Grout			
30					39'-41' Bentonite chip seal			
35					41'-48' #1 silica sand filter pack			
40					43'-48' 0.010 slotted PVC well screen			
45					48' Bottom of boring			
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100								
105								
110								
115								
120								

Footnotes for Blowcounts
 (1) 140 lb Hammer
 (2) 300 lb. Hammer
 (3) Side Hammer

Key to Well Construction

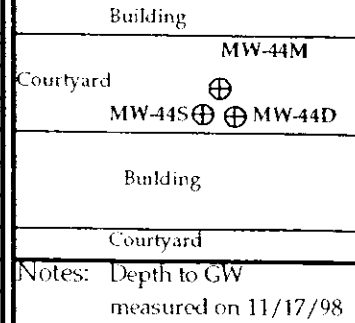
	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #: MW-44D



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

SITE MAP



Project: Raytheon - Wayland	Project Number: 143-45	
Client: Raytheon	Logged by: Ryan Bagley	
Drilling Co: Geosearch, Inc.	Driller: Tom Belsky	
Date Started: 03-Nov-98	Date Finished: 05-Nov-98	
Location: Wayland, Massachusetts	Drilling Method: 4.25 ID HSA	
Screen Diam: 2"	Length: 5'	Slot Size: 0.01
Casing Diam: 2"	Length: 63'	Type: PVC
Boring Depth: 68'	Well Dept: 68'	Boring Diam: 8"
Surface Elev.: 134.94'	MP: PVC	Depth to GW: 16.33'
	MP Elev.: 134.66'	

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND	7,9	23"	Light brown fine SAND, trace Gravel, loose, damp	S-1	1.7	
7			11,8			5'-7'		
8								
9								
10								
11		SAND & SILT	4,4	20.5"	Top 12": Light brown fine SAND, moist	S-2	2.0	
12			4,5		Bottom 9": Brown SILT, some fine Sand, wet	10'-12'		
13								
14								
15								
16		SAND & SILT	4,2	22"	Brown SAND and SILT, wet to saturated	S-3	2.4	
17			2,2			15'-17'		
18		SILT	4,3	23"	Brown SILT, some fine Sand	S-4	2.1	
19			2,3			17'-19'		
20		SAND & SILT	7,8	20.5"	Top 10": Brown SILT	S-5	1.4	
21			10,13		Bottom 9.5": Brown fine SAND, some Silt	19'-21'		
22		SAND & SILT	9,11	14"	Top 8": Brown SAND and SILT	S-6	1.8	
23			9,14		Bottom 6": Brown coarse SAND, some fine Gravel	21'-23'		
24		SAND	17,21,27,34	18"	Brown fine SAND, some Gravel, loose	S-7 23' 25'	2.6	

Footnotes for Blowcounts

- (1) 140 lb Hammer
- (2) 300 lb Hammer
- (3) Split Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #:

MW-44D



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

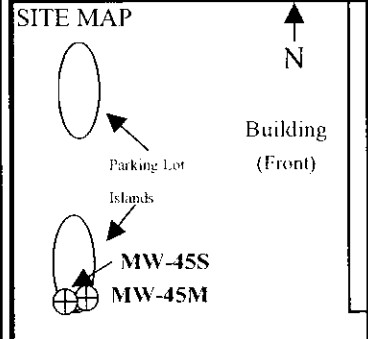
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
26								
27								
28								
29		SAND	7,15 19,11	13"	Brown coarse SAND, some fine Gravel, poorly sorted, loose	S-8 28'-30'	0.7	
30								
31		SAND	17,14 23,60(4")	18"	Brown coarse SAND, some fine Gravel, poorly sorted, loose	S-9 30'-32'	0.8	
32								
33		SAND & SILT	29,41 44,17	14"	Top 7": Brown SAND, some Gravel, trace Silt Bottom 7": Brown SILT, some fine Sand, dense	S-10 32'-34'	1.0	
34								
35		SAND & SILT	29,34 31,27	18"	Brown SAND and SILT, some Gravel	S-11 34'-36'	0.8	
36								
37		SAND & SILT	27,32 38,31	19"	Brown SAND and SILT	S-12 36'-38'	1.0	
38								
39		SAND	17,19 21,33	12"	Brown coarse SAND, trace Silt, odor, loose	S-13 38'-40'	0.8	
40								
41		SAND	11,14 12,13	10"	Brown medium to coarse SAND, little Gravel, loose, wet	S-14 40'-42'	1.8	
42								
43		SAND	12,12 13,16	16"	Brown medium to coarse SAND, little Gravel, trace Silt, loose	S-15 42'-44'	2.0	
44								
45			12,17 31,34	0"	No Recovery			
46								
47		SAND & GRAVEL	31,27 17,12	12"	Brown medium coarse SAND and GRAVEL, rock fragments	S-16 46'-48'	1.6	
48								
49			15,17 17,23	0"	No Recovery			
50								
51		SAND & GRAVEL	5,6 6,8	10"	Brown coarse SAND and GRAVEL, loose	S-17 50'-52'	0.7	
52								
53		SAND & SILT	5,7 15,24	12"	Dark grey SAND and SILT, some Gravel, poorly sorted, dense	S-18 52'-54'	0.4	
54								
55		SAND	54,44,48,39	16"	Dk.Grey med to fine SAND, some Silt, lt. Gravel, stiff	S-19 54 56	0.6	

DRILLING LOG for Well #: MW-45S



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

Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co.:	Geosearch, Inc.	Driller:	Mike D'Amico		
Date Started:	3-Nov-98	Date Finished:	3-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	32'	Type:	PVC
Boring Depth:	37'	Well Depth:	37'	Boring Diam.:	8"
Surface Elev.:	132.51'	MP:	PVC	Depth to GW:	18.17'
		MP Elev.:	132.05'		

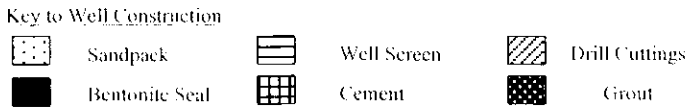


Notes: Depth to GW measured on 11/17/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0					No Split-Spoon Samples Collected			
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								

Well Construction Details:
 Protective Flushmount Roadbox
 0'-1' Concrete surface seal
 1'-17' Native backfill
 17'-28' Grout
 28'-30' Bentonite chip seal
 30'-37' #1 silica sand filter pack
 32'-37' 0.010 slotted PVC well screen
 37' Bottom of boring

Footnotes for Blowcounts
 (1) 140 lb. Hammer
 (2) 300 lb. Hammer
 (3) Slide Hammer

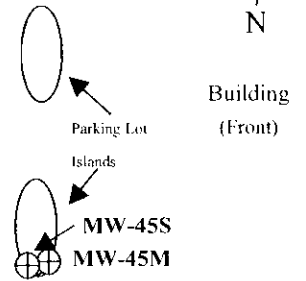


DRILLING LOG for Well #: MW-45M



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

SITE MAP



Notes: Depth to GW measured on 11/17/98

Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico		
Date Started:	3-Nov-98	Date Finished:	3-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	43'	Type:	PVC
Boring Depth:	48'	Well Depth:	48'	Boring Diam.:	8"
Surface Elev.:	132.56'	MP:	PVC	Depth to GW:	18.33'
		MP Elev.:	132.31'		

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND & FILL	12,10 7,7	21"	Light brown medium SAND and FILL, dry	S-1 5'-7'	1.9	
7								
8								
9								
10								
11		SAND	11,14 12,9	14"	Light brown medium to fine SAND, some Gravel, poorly sorted, dry	S-2 10'-12'	1.4	
12								
13								
14								
15								
16		SAND	7,9 5,8	12"	Brown medium SAND, some Gravel, poorly sorted, dry to damp	S-3 15'-17'	3.0	
17								
18								
19								
20								
21		SAND	5,8 8,6	16"	Brown medium to fine SAND, trace Gravel, poorly sorted, saturated	S-4 20'-22'	0.0	
22								
23		SAND	10,11 10,10	20"	Brown medium to fine SAND, trace Gravel, poorly sorted, saturated	S-5 22'-24'	0.0	
24								

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #:

MW-45M



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
56					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0'-1' Concrete surface seal</p> <p>1'-17' Native backfill</p> <p>17'-39' Grout</p> <p>39'-41' Bentonite chip seal</p> <p>41'-48' #1 silica sand filter pack</p> <p>43'-48' 0.010 slotted PVC well screen</p> <p>48' Bottom of boring</p>			
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
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85								

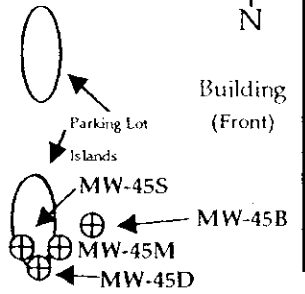
DRILLING LOG for Well #: MW-45B



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

Project:	Raytheon - Wayland	Project Number:	143.50		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	M. Bovenzi		
Date Started:	24-Mar-00	Date Finished:	27-Mar-00		
Location:	Wayland, Massachusetts	Drilling Method:	4.25" ID HSA/Drive and Wash/HV Rk Core		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	92'	Type:	PVC
Boring Depth:	97'	Well Dept	97'	Boring Diam.:	8"
Surface Elev.:	132.25'	MP:	PVC	Depth to GW:	15.31'
		MP Elev.:	132.25'		

SITE MAP



Notes: Depth to GW measured on 4/5/00

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0					No Split spoon samples collected			
2					Augered using 4.25" flights from 0'-40'			
4					Advanced using 5" casing to 40'			
6					Telescoped 4" casing from 40'-76'			
8					HV Rock core from 76'-97'			
10								
12								
14								
16					<u>Well Construction Details:</u>			
18					Protective Flushmount Roadbox			
20					0'-1' Concrete surface seal			
22					1'-5' Native backfill			
24					5'-75' Grout			
26					75'-91' Bentonite chip seal			
28					91'-97' #1 silica sand filter pack			
30					92'-97' 0.010 slotted PVC well screen			
32					97' Bottom of boring			
34								
36								
38								
40								
42								
44								
46								
48								

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #:

MW-45B



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
50					76'-77.5' Hard to moderately hard, very slight weathering, sound, unfractured, light grey, DIORITE (fine grained).			
52								
56					77.5'-80.0' Moderately hard, medium to severe weathering reduced to mainly (>90%) Gravel size fragments, extremely fractured GABBRO/ DIORITE (fine grained).			
58								
60								
62								
64								
66					81' - 84' Moderately hard, severe weathering, reduced to mainly (>90%) Gravel size frags, extremely fractured GABBRO/ DIORITE			
68								
70					Oxidation apparent on >50% of joint surfaces.			
72								
74					85' Same as above. GABBRO with some Feldspar.			
76								
80		DIORITE	Rec = 32"	RQD = 51%	86' - 88' Moderately hard, moderately weathered, moderate to slightly fractured, medium grained, green/ grey GABBRO.	76'-80'		CORE RUN C-1
82		GABBRO	Rec = 16"	RQD = 0%		81' - 84'		CORE RUN C-2
84		DIORITE						
86		GABBRO	Rec = 9"	RQD = 0%	88.0' - 88.2' Fracture 40 degrees, evidence of healed fracturing (chlorite).	85'		CORE RUN C-3
88		GABBRO	Rec = 86"	RQD = 95%		86' - 92'		CORE RUN C-4
92					93' - 93.7' Moderately hard, moderately weathered moderately fractured, medium grained, green/ gr GABBRO. Evidence of silt/ clay caps and jointing.	93' - 97'		CORE RUN C-5
94		GABBRO	Rec = 41"	RQD = 92%				
96								
98					93.7' - 93.1' Fracture, highly weathered, evidence of clay coatings.			
100					96.1' - 97.0' Fracture, highly weathered, reduced to mainly Gravel size fragments.			

DRILLING LOG for Well #: MW-46S



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

SITE MAP



Parking Lot

MW-46M



HA-103

MW-46S

Notes: Depth to CW
measured on 11/17/98

Project:	Raytheon - Wayland	Project Number:	143.45
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co.:	Geosearch, Inc.	Driller:	Mike D'Amico
Date Started:	04-Nov-98	Date Finished:	04-Nov-98
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA
Screen Diam:	2"	Length:	5'
Casing Diam:	2"	Slot Size:	0.01
Boring Depth:	25'	Type:	PVC
Surface Elev.:	132.81'	Boring Diam.:	8"
		MP:	PVC
		MP Elev.:	132.45'
		Depth to CW:	14.74'

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1					No Split-Spoon Samples Collected			
2								
3								
4								
5								
6					Well Construction Details:			
7					Protective Flushmount Roadbox			
8					0'-1' Concrete surface seal			
9					1'-14' Native backfill			
10					14'-16' Grout			
11					16'-18' Bentonite chip seal			
12					18'-25' #1 silica sand filter pack			
13					20'-25' 0.010 slotted PVC well screen			
14					25' Bottom of boring			
15								
16								
17								
18								
19								
20								
21								
22								
23								
25								

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #: MW-46M

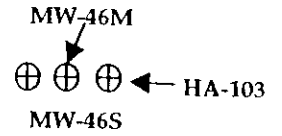


ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Parking Lot



Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico		
Date Started:	4-Nov-98	Date Finished:	4-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	45'	Type:	PVC
Boring Depth:	50'	Well Dept	50'	Boring Diam.:	8"
Surface Elev.:	132.84'	MP:	PVC	Depth to GW:	16.98'
		MP Elev.:	132.54'		

Notes: Depth to GW measured on 11/17/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND	7,9 13,20	9"	Brown medium SAND [FILL], some Gravel, loose poorly sorted, dry	S-1 5'-7'	1.3	
7								
8								
9								
10								
11		SAND & GRAVEL	11,14 12,9	11"	Brown medium SAND and GRAVEL, loose [FILL], poorly sorted, dry	S-2 10'-12'	1.5	
12								
13								
14								
15								
16		SAND	6,8 9,7	7"	Brown medium SAND, some fine Sand, trace Silt, saturated	S-3 15'-17'	1.4	
17								
18		SAND	11,14 10,11	24"	Brown medium to fine SAND, trace Silt, well sorted, saturated	S-4 17'-19'	1.7	
19								
20		SAND	7,9 6,9	18"	Brown medium to coarse SAND, some Gravel, poorly sorted, loose, saturated	S-5 19'-21'	1.5	
21								
22		SAND & SILT	11,13 12,12	20"	Top 15": Brown med to coarse SAND, some Gravel Bottom 5": Brown SILT, well sorted, saturated	S-6 21'-23'	1.2	
23								
24		SAND	20,23	24"	Top 22": Brown med to coarse SAND, some Gravel	S-7	1.0	

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

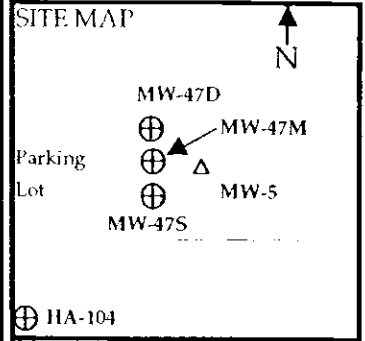
DRILLING LOG for Well #: MW-47S



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

Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Tom Belsky		
Date Started:	06-Nov-98	Date Finished:	06-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	31'	Type:	PVC
Boring Depth:	37'	Well Dept:	36'	Boring Diam.:	8"
Surface Elev.:	132.58'	MP:	PVC	Depth to GW:	17.73'
		MP Elev.:	131.99'		

SITE MAP



Notes: Depth to GW measured on 11/17/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0					No Split-Spoon Samples Collected			
2								
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								
46								
48								

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

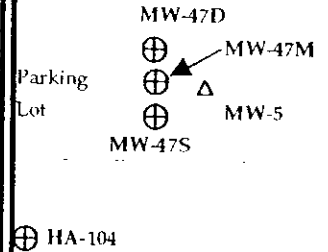
Key to Well Construction

- | | | | | | |
|--|----------------|--|-------------|--|----------------|
| | Sandpack | | Well Screen | | Drill Cuttings |
| | Bentonite Seal | | Cement | | Grout |

DRILLING LOG for Well #: MW-47M

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

SITE MAP



Project:	Raytheon Wayland	Project Number:	143.45
Client:	Raytheon	Logged by:	Ryan Bagley
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico
Date Started:	05-Nov-98	Date Finished:	05-Nov-98
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA
Screen Diam:	2"	Length:	5'
		Slot Size:	0.01
Casing Diam:	2"	Length:	45'
		Type:	PVC
Boring Depth:	50'	Well Dept:	50'
		Boring Diam.:	8"
Surface Elev.:	132.58'	MP:	PVC
		Depth to GW:	17.20'
		MP Elev.:	131.30'

Notes: Depth to GW measured on 11/17/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6		SAND	5,7 6,6	16"	Brown medium to fine SAND, well sorted, dry	S-1 5'-7'	0.8	
7								
8								
9								
10								
11		SAND	5,7 6,5	14"	Brown medium to fine SAND, well sorted, dry to damp	S-2 10'-12'	1.0	
12								
13								
14								
15								
16		SAND	5,5 7,8	15"	Brown fine SAND, well sorted, damp	S-3 15'-17'	2.6	
17								
18								
19								
20								
21		SAND & SILT	3,3 3,3	22"	Top 20": Brown fine SAND and SILT, w.sorted, sat. Bottom 2": Brown medium to fine SAND, sat.	S-4 20'-22'	2.1	
22								
23		SAND & SILT	4,4 5,4	24"	Top 8": Brown fine SAND and SILT, sat. Bottom 16": Brown med to fine SAND, sat.	S-5 22'-24'	5.0	
24								

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #: MW-47M



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
25		SAND	7,8	24"	Brown medium to fine SAND, well sorted,	S-6	2.4	
26					saturated	24'-26'		
27		SAND	7,7	24"	Brown medium to fine SAND, well sorted,	S-7	3.0	
28					saturated	26'-28'		
29		SAND	7,9	24"	Brown medium to fine SAND, well sorted,	S-8	3.0	
30					saturated	28'-30'		
31		SAND	8,8	24"	Brown medium to fine SAND, well sorted,	S-9	1.7	
32					saturated	30'-32'		
33		SAND	10,10	24"	Brown medium to fine SAND, well sorted,	S-10	2.1	
34					saturated	32'-34'		
35		SAND	7,11	20"	Brown medium to fine SAND, well sorted,	S-11	2.3	
36					saturated	34'-36'		
37		SAND & SILT	11,15	24"	Top 18": Brown med to fine SAND, saturated	S-12	2.1	
38			13,16		Bottom 6": Brown SILT, well sorted, sat.	36'-38'		
39		SAND & SILT	7,10	18"	Grey fine SAND and SILT, well sorted,	S-13	2.7	
40			5,5		saturated	38'-40'		
41		SAND & SILT	11,9	24"	Top 16": Grey fine SAND and SILT	S-14	2.0	
42			9,9		Bottom 8": Grey SILT, saturated	40'-42'		
43	SILT	5,8	16"	Grey SILT, well sorted, saturated	S-15	1.2		
44		7,5			42'-44'			
45	SAND & SILT	8,13	24"	Top 12": Grey fine SAND, saturated	S-16	2.0		
46		10,14		Bottom 12": Grey SILT, saturated	44'-46'			
47	SILT	9,7	24"	Grey SILT, well sorted, saturated	S-17	1.1		
48		7,7			46'-48'			
49	SILT	10,9	24"	Grey SILT, well sorted, saturated	S-18	1.1		
50		9,11			48'-50'			
51								
52								
53					Well Construction Details on Following Page			
54								

DRILLING LOG for Well #: MW-47M



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

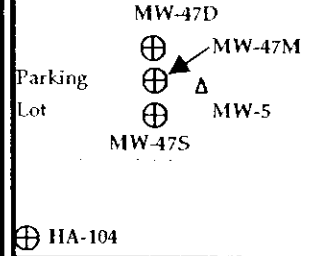
Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	PID Conc. (ppm) spoon/HS	Lab Sample # & Analyses
56					<p>Well Construction Details:</p> <p>Protective Flushmount Roadbox</p> <p>0'-1' Concrete surface seal</p> <p>1'-15' Native backfill</p> <p>15'-41' Grout</p> <p>41'-43' Bentonite chip seal</p> <p>43'-50' #1 silica sand filter pack</p> <p>45'-50' 0.010 slotted PVC well screen</p> <p>50' Bottom of boring</p>			
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DRILLING LOG for Well #: MW-47D



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399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Project:	Raytheon - Wayland	Project Number:	143.45		
Client:	Raytheon	Logged by:	Ryan Bagley		
Drilling Co:	Geosearch, Inc.	Driller:	Mike D'Amico		
Date Started:	05-Nov-98	Date Finished:	06-Nov-98		
Location:	Wayland, Massachusetts	Drilling Method:	4.25 ID HSA		
Screen Diam:	2"	Length:	5'	Slot Size:	0.01
Casing Diam:	2"	Length:	66'	Type:	PVC
Boring Depth:	72'	Well Dept:	71'	Boring Diam.:	8"
Surface Elev:	132.57'	MP:	PVC	Depth to GW:	17.21'
		MP Elev.:	132.26'		

Notes: Depth to GW measured on 11/17/98

Depth	Well Log	Stratigraphy	Blowcounts per 6 inches	Recovery	Split Spoon Description/Soil Classification	Sample # & Depth	HS Conc. (ppm)	Lab Sample # & Analyses
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								

Augered using 4" flights from 0'-23'
Advanced 5" casing to 40'
Telescoped 4" casing from 40'-70'

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) Slide Hammer

Key to Well Construction

	Sandpack		Well Screen		Drill Cuttings
	Bentonite Seal		Cement		Grout

DRILLING LOG for Well #:

MW-47D



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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
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51		SILT	5,6 5,7	18"	Grey SILT, well sorted, compact, saturated	S-1 50'-52'	0.8	
52								
53		SAND	9,8 8,11	10"	Grey fine SAND, well sorted, saturated	S-2 52'-54'	0.8	
54								
55		SAND & SILT	8,8,7,10	10"	Grey fine SAND and SILT, well sorted, sat.	S-3 54'-56'	0.9	

