

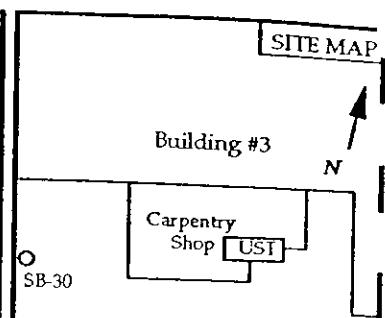
DRILLING LOG for Well #: MW-30

ERM-NEW ENGLAND, INC.
205 PORTLAND STREET
ERM BOSTON, MA 02114

SITE MAP

Project: Raytheon, Wayland Project Number: 143.40
 Client: Raytheon Company Log By: I. D'Agostino
 Drilling Co.: Geologic Driller: Mike & Darell
 Date Started: 21 March 1996 Date Finished: 21 March 1996
 Location: Wayland, MA Drilling Method: Odex Air Rotary
 Screen Diameter: _____ Length: _____ Slot Size: _____
 Casing Diameter: _____ Length: _____ Type: _____
 Boring Depth: ≈23' vertical Well Depth: _____ Boring Diam.: 6"
 Surface Elev.: _____ MP: _____ Depth to GW: ≈17'
 MP Elev.: _____

NOTES: SB-30 advanced vertically 54' of the carpentry shop, to a depth of 20'.



| Depth | Well Log | Graphic Log | General Stratigraphy | Blowcounts per 6 inches | Rec. | Soil Classification based on inspection of cuttings (Color, Texture, Structures) | Sample # & Depth | PID conc. (ppm) initial/2 hr | Lab Samp. # & Anal. |
|-------|----------|-------------|----------------------|-------------------------|------|--|------------------------|------------------------------|---------------------|
| 1 | | | | | | Asphalt | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | 1-10' - Brown, med-coarse SAND, SILT and trace Gravel; dry; clean, no evidence of petroleum impact based on visual and olfactory observations. | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | Brown, med SAND, Silt, with trace Gravel; dry; clean, no evidence impact from petroleum based on visual and olfactory observations. | S-1, 10'-12.5' 3:30 AM | | |
| 12 | | | | | | | | | |
| 13 | | | | | | Brown, v-fine SAND, Silt and trace Clay, clean, dry, no evidence petroleum impact. | S-2, 12.5'-15' 3:35AM | | |
| 14 | | | | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | Brown, SILT and Clay with trace v-fine Sand, wet, slight petroleum odor, no visible evidence of petroleum impact. Hanby test kit detected ≈50 ppm TPH. | S-3, 15'-17.5' 3:45 AM | | TPH-8100 |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | Brown v-fine SAND and Silt and Clay, slight petroleum odor with sheen visible on wetted surfaces. Hanby test kit detected 50-100ppm TPH. | S-4, 17.5'-20' 3:55PM | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |

Footnotes for Blowcounts
 (1) 140 LB. HAMMER
 (2) 300 LB. HAMMER
 (3) SLIDE HAMMER

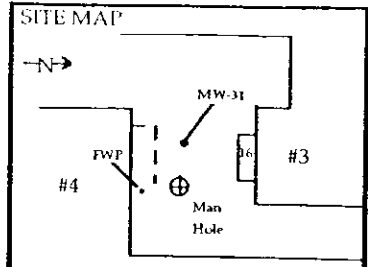
Key to Well Construction
 Sandpack
 Well Screen
 Bentonite Seal
 Cement
 Grout

Key to Geologic Symbols
 Till
 Clay
 Silty Clay
 Silt
 Silty Sand
 Sand

Sandy Gravel
 Gravel
 Fill
 Bedrock (Fine-Grain)
 Bedrock (Coarse-Grain)

DRILLING LOG for Well #: MW-31

ERM-NEW ENGLAND, INC.
205 PORTLAND STREET
ERM BOSTON, MA 02114



Project: Raytheon, Wayland Project Number: 143.41
 Client: Raytheon Corporation Log By: J. McTigue
 Drilling Co.: T & K Drilling Driller: Kevin & Alan
 Date Started: 30 July 1996 Date Finished: 30 July 1996
 Location: Wayland, MA Drilling Method: 4" Hollow Stem Auger
 Screen Diameter: 2 inch PVC Length: 10 ft Slot Size: 0.01
 Casing Diameter: 2 inch PVC Length: 11 ft Type: PVC
 Boring Depth: 22 ft bgs Well Depth: 21 feet Boring Diam.: -8" I.D.
 Surface Elev.: Not Measured MP: grade Depth to GW: 14'
 MP Elev.:

NOTES

| Depth | Well Log | Graphic Log | General Stratigraphy | Blowcounts per 6 inches | Rec. | Split Spoon Description/Soil Classification (Color, Texture, Structures) | Sample # & Depth | PID conc. (ppm) initial/2hr | Lab Samp. # & Anal. |
|-------|----------|-------------|----------------------|-------------------------|------|--|------------------|-----------------------------|---------------------|
| 1 | | | | 7-13 | 14" | FILL-brown fine to coarse SAND, trace Gravel, dry | S-1 | 0.0 | |
| 2 | | | | 7-6 | | | 0-2 | 0.0 | |
| 3 | | | | 6-9 | 12" | FILL- olive gray/brown med. to coarse SAND, dry | S-2 | 0.0 | |
| 4 | | | | 6-9 | | | 2-4 | 0.0 | |
| 5 | | | | 3-5 | 15" | As above, dry | S-3 | 0.0 | |
| 6 | | | | 5-5 | | | 4-6 | 0.0 | |
| 7 | | | | 6-10 | 22" | Tan, fine SAND, interlayered w/minor FE stained fine SAND, trace silt, dry to damp | S-4 | 0.0 | |
| 8 | | | | 15-23 | | | 6-8 | 0.0 | |
| 9 | | | | 7-9 | 18" | Interlayered Brown/gray med. SAND and silty fine SAND layers, damp | S-5 | 0.0 | |
| 10 | | | | 13-15 | | | 8-10 | 0.0 | |
| 11 | | | | 6-12 | 14" | As above, damp | S-6 | 0.0 | |
| 12 | | | | 16-26 | | | 10-12 | 0.0 | |
| 13 | | | | 35-23 | 20" | As above, dry to damp | S-7 | 0.0 | |
| 14 | | | | 29-28 | | | 12-14 | 0.0 | |
| 15 | | | | 11-18 | 19" | As above, wet @ 14' | S-8 | 0.0 | |
| 16 | | | | 17-23 | | | 14-16 | 0.0 | |
| 17 | | | | | | | 17-20 | 0.0 | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | 8-10 | 18" | Interlayered brown SILT and medium SAND, saturated | S-9 | | |
| 22 | | | | 12-10 | | | 20-22 | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |

Footnotes for Blowcounts
 (1) 140 LB. HAMMER
 (2) 300 LB. HAMMER
 (3) SLIDE HAMMER

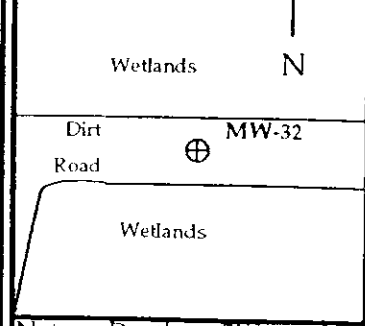
| Key to Well Construction | | Key to Geologic Symbols | | | |
|--------------------------|-------------|-------------------------|------------|--------------|------------------------|
| Sandpack | Well Screen | Till | Silt | Sandy Gravel | Bedrock (Fine-Grain) |
| Bentonite Seal | Cement | Clay | Silty Sand | Gravel | Bedrock (Coarse-Grain) |
| Grout | | Silty Clay | Sand | Fill | |

DRILLING LOG for Well #: MW-32



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: | 14-May-98 | Date Finished: | 14-May-98 |
| Location: | Wayland, Massachusetts | Drilling Method: | 4.25 ID HSA |
| Screen Diam: | 2" | Length: | 10' |
| | | Slot Size: | 0.01 |
| Casing Diam: | 2" | Length: | 2' |
| | | Type: | PVC |
| Boring Depth: | 12' | Well Depth: | 12' |
| | | Boring Diam.: | 8" |
| Surface Elev.: | 124.86' | MP: | PVC |
| | | Depth to GW: | 0.87' |
| | | MP Elev.: | 124.43' |

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 | | SAND | 6,5 | 16" | Brown medium to coarse SAND, some Gravel, loose, dry to damp | S-1 | 0.0 | |
| 1 | | | 9,11 | | | 0'-2' | | |
| 2 | | SAND | 8,8 | 18" | Brown medium to coarse SAND, some Silt, trace Gravel, wet | S-2 | 0.0 | |
| 3 | | | 11,6 | | | 2'-4' | | |
| 4 | SAND & SILT | 3,4 | 18" | Brown fine SAND and SILT, trace Gravel, saturated | S-3 | 0.0 | | |
| 5 | | 3,3 | | | 4'-6' | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | SAND & SILT | 4,3 | 19" | Brown-grey fine SAND and SILT, well sorted, saturated | S-4 | 0.0 | |
| 12 | | SILT | 3,4 | | | 10'-12' | | |
| 13 | | | | | | | | |
| 14 | | | | | Well Construction Details: | | | |
| 15 | | | | | Protective Flushmount Roadbox | | | |
| 16 | | | | | 0'-0.5' Concrete surface seal | | | |
| 17 | | | | | 0.5'-1' Bentonite chip seal | | | |
| 18 | | | | | 1'-12' #1 silica sand filter pack | | | |
| 19 | | | | | 2'-12' 0.010" slotted PVC well screen | | | |
| 20 | | | | | 12' Bottom of boring | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

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

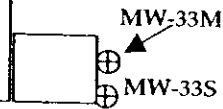
DRILLING LOG for Well #: MW-33S

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

SITE MAP



Former
Haz.
Waste
Storage
Area



| | | | | | |
|----------------|------------------------|------------------|--------------|---------------|--------|
| 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.: | 133.91' | MP: | PVC | Depth to GW: | 17.02' |
| | | MP Elev.: | 133.79' | | |






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 | | | | | No split spoons collected | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | Well Construction Details: | | | |
| 10 | | | | | Steel Protective Standpipe | | | |
| 11 | | | | | 0'-1' Cement surface seal | | | |
| 12 | | | | | 1'-22' Portland cement/bentonite grout | | | |
| 13 | | | | | 22'-24' Bentonite chip seal | | | |
| 14 | | | | | 24'-30' # 1 silica sand filter pack | | | |
| 15 | | | | | 25'-30' 0.010" slotted PVC well screen | | | |
| 16 | | | | | 30' Bottom of boring | | | |
| 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-33S



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 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
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DRILLING LOG for Well #: MW-33M

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: | 13-May-98 | Date Finished: | 13-May-98 |
| Location: | Wayland, Massachusetts | Drilling Method: | 4 25 ID HSA |
| Screen Diam: | 2" | Length: | 5' |
| Casing Diam: | 2" | Length: | 45' |
| Boring Depth: | 50' | Well Dept | 50' |
| Surface Elev.: | 133.91' | MP: | PVC |
| | | MP Elev.: | 133.57' |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam.: | 8" |
| | | Depth to GW: | 17.74' |

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 | 2,2 2,5 | 16" | Brown medium to fine SAND and SILT, well sorted, damp | S-1 0'-2' | 0.0 | |
| 2 | | SAND & SILT | 5,6 8,7 | 12" | Brown medium to fine SAND and SILT, trace Gravel, damp | S-2 2'-4' | 0.0 | |
| 3 | | SAND | 6,6 4,5 | 20" | Brown medium to fine SAND, some Silt, trace Gravel, damp | S-3 4'-6' | 0.0 | |
| 4 | | SAND & SILT | 6,6 9,10 | 18" | Brown fine SAND and SILT, well sorted, damp | S-4 6'-8' | 0.0 | |
| 5 | | SAND & SILT | 7,6 10,9 | 16" | Brown fine SAND and SILT, well sorted, damp | S-5 8'-10' | 0.0 | |
| 6 | | SAND | 10,9 7,7 | 18" | Brown medium to coarse SAND, some Silt, wet | S-6 10'-12' | 0.0 | |
| 7 | | SAND | 10,9 8,8 | 7" | Brown medium to coarse SAND, some Silt, wet | S-7 12'-14' | 0.0 | |
| 8 | | SAND & SILT | 7,14 9,11 | 12" | Brown-grey fine SAND and SILT, trace Clay, well sorted, saturated | S-8 14'-16' | 0.0 | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | SAND & SILT | 4,4 3,4 | 22" | Brown fine SAND and SILT, trace Clay, well sorted, saturated | S-9 20'-22' | 0.0 | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

Footnotes for Blowcounts

- (1) 140 lb. Hammer
- (2) 300 lb. Hammer
- (3) S&S Hammer

Key to Well Construction

- Sandpack
- Well Screen
- Portland Cement/Bentonite Grout
- Bentonite Seal
- Cement

DRILLING LOG for Well #: MW-33M



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/115 | Lab Sample # & Analyses |
|-------|----------|--------------|-------------------------|----------|--|------------------|---------------------------|-------------------------|
| 56 | | | | | <p>Well Construction Details:</p> <p>Steel Protective Standpipe</p> <p>0'-1' Concrete surface seal</p> <p>1'-41' Portland cement/bentonite grout</p> <p>41'-44' Bentonite chip seal</p> <p>44'-50' # 1 silica sand filter pack</p> <p>45'-50' 0.010" slotted PVC well screen</p> <p>50' Bottom of boring</p> | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |
| 60 | | | | | | | | |
| 61 | | | | | | | | |
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| 80 | | | | | | | | |
| 81 | | | | | | | | |
| 82 | | | | | | | | |
| 83 | | | | | | | | |
| 84 | | | | | | | | |
| 85 | | | | | | | | |

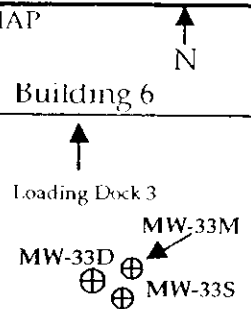
DRILLING LOG for Well #: MW-33D



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

| | | | |
|----------------|------------------------|------------------|----------------------------|
| Project: | Raytheon Wayland | Project Number: | 143.48 |
| Client: | Raytheon | Logged by: | Ryan Bagley |
| Drilling Co: | Geosearch, Inc. | Driller: | Tom Belsky |
| Date Started: | 11-Aug-99 | Date Finished: | 11-Aug-99 |
| Location: | Wayland, Massachusetts | Drilling Method: | 4.25 ID HSA/Drive and Wash |
| Screen Diam: | 2" | Length: | 5' |
| Casing Diam: | 2" | Length: | 55' |
| Boring Depth: | 60' | Well Dept: | 60' |
| Surface Elev.: | 134.13 | MP: | PVC |
| | | MP Elev.: | 133.80 |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam.: | 8" |
| | | Depth to GW: | 20.05' |

SITE MAP



Notes: Depth to GW measured on 8/19/99

| 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 | | | | | Augered using 4.25" flights from 0'-35' | | | |
| 4 | | | | | Advanced 5" casing to 40' | | | |
| 5 | | | | | Telescoped 4" casing from 40'-78' | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | Well Construction Details: | | | |
| 9 | | | | | Protective Flushmount Roadbox | | | |
| 10 | | | | | 0'-1' Concrete surface seal | | | |
| 11 | | | | | 1'-10' Native backfill | | | |
| 12 | | | | | 15'-60' Grout | | | |
| 13 | | | | | 60'-52' Bentonite chip seal | | | |
| 14 | | | | | 53'-60' #1 silica sand filter pack | | | |
| 15 | | | | | 55'-60' 0.010 slotted PVC well screen | | | |
| 16 | | | | | 60' Bottom of boring | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

Footnotes for Blowcounts

- (1) 140 lb Hammer
- (2) 300 lb Hammer
- (3) S&B Hammer

Key to Well Construction

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

DRILLING LOG for Well #: MW-33B

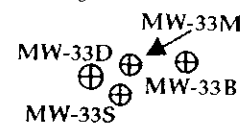
ERM
399 Boylston Street, 6th Floor
Boston, MA 02116

SITE MAP



Building 6

Loading Dock 3



| | | | |
|----------------|------------------------|------------------|--|
| Project: | Raytheon - Wayland | Project Number: | 143.50 |
| Client: | Raytheon | Logged by: | Ryan Bagley |
| Drilling Co: | Geosearch, Inc. | Driller: | M. Bovenzi |
| Date Started: | 21-Mar-00 | Date Finished: | 23-Mar-00 |
| Location: | Wayland, Massachusetts | Drilling Method: | 4.25" ID HSA/Drive and Wash/HV Rk Core |
| Screen Diam: | 2" | Length: | 5' |
| Casing Diam: | 2" | Length: | 76' |
| Boring Depth: | 81' | Well Dept: | 81' |
| Surface Elev.: | 129.36' | MP: | PVC |
| | | MP Elev.: | 133.88' |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam: | 8" |
| | | Depth to GW: | 17.00' |







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'-35' | | | |
| 4 | | | | | Advanced 5" casing to 40' | | | |
| 6 | | | | | Telescoped 4" casing from 40'-60' | | | |
| 8 | | | | | HV Rock Core from 60'-81' | | | |
| 10 | | | | | | | | |
| 12 | | | | | | | | |
| 14 | | | | | | | | |
| 16 | | | | | <u>Well Construction Details</u> | | | |
| 18 | | | | | 0'-1' Concrete Surface Seal | | | |
| 20 | | | | | 1'-5' Native Backfill | | | |
| 22 | | | | | 5'-60' Grout | | | |
| 24 | | | | | 60'-74' Bentonite Chip Seal | | | |
| 26 | | | | | 74'-81' #1 silica sand filter pack | | | |
| 28 | | | | | 76'-81' 0.010 Slotted PVC Well Screen | | | |
| 30 | | | | | 81' Bottom of Boring | | | |
| 32 | | | | | | | | |
| 34 | | | | | | | | |
| 36 | | | | | | | | |
| 38 | | | | | | | | |
| 40 | | | | | | | | |
| 42 | | | | | | | | |
| 44 | | | | | | | | |
| 46 | | | | | | | | |

Footnotes for Blowcounts

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

Key to Well Construction

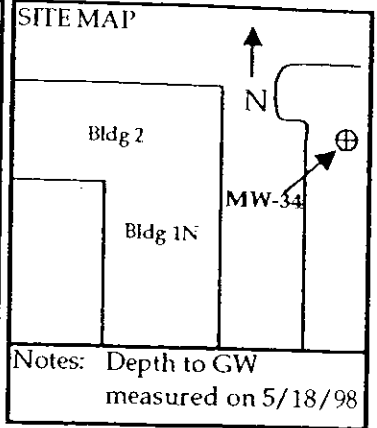
| | | | | | |
|---|----------------|---|-------------|--|----------------|
|  | Sandpack |  | Well Screen |  | Drill Cuttings |
|  | Bentonite Seal |  | Cement |  | Grout |

DRILLING LOG for Well #: MW-34



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: | 13-May-98 | Date Finished: | 13-May-98 | | |
| Location: | Wayland, Massachusetts | Drilling Method: | 4.25 ID HSA | | |
| Screen Diam: | 2" | Length: | 10' | Slot Size: | 0.01 |
| Casing Diam: | 2" | Length: | 5' | Type: | PVC |
| Boring Depth: | 15' | Well Depth: | 15' | Boring Diam: | 8" |
| Surface Elev.: | 136.97' | MP: | PVC | Depth to GW: | 7.18' |
| | | MP Elev.: | 136.71' | | |



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

Well Construction Details:
 Protective Flushmount Roadbox
 0'-1' Concrete surface seal
 1'-2' Native backfill
 2'-4' Bentonite chip seal
 4'-15' #1 silica sand filter pack
 5'-15' 0.010" slotted PVC well screen
 15' Bottom of boring

Footnotes for Blowcounts

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

Key to Well Construction

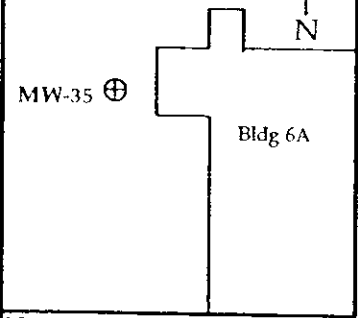
- Sandpack
- Well Screen
- Drill Cuttings
- Bentonite Seal
- Cement

DRILLING LOG for Well #: MW-35



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' | Slot Size: | 0.01 |
| Casing Diam: | 2" | Length: | 12' | Type: | PVC |
| Boring Depth: | 22' | Well Depth: | 22' | Boring Diam.: | 8" |
| Surface Elev.: | 133.22' | MP: | PVC | Depth to GW: | 12.55' |
| | | MP Elev.: | 132.80' | | |

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 | | SAND | 25,18 | 18" | Brown-grey medium SAND, some Cobbles and Rock fragments, damp | S-1 0'-2' | 0.0 | |
| 1 | | | 15,14 | | | | | |
| 2 | | SAND | 21,19 | 8" | Brown medium SAND, trace Cobbles and Rock fragments, damp | S-2 2'-4' | 0.0 | |
| 3 | | | 24,17 | | | | | |
| 4 | | SAND | 10,12 | 16" | Brown-grey medium SAND, some coarse Gravel, trace Rock fragments, damp | S-3 4'-6' | 0.0 | |
| 5 | | | 13,14 | | | | | |
| 6 | | SAND | 36,63 | 16" | Light brown medium to fine SAND, trace Gravel, well sorted, damp | S-4 6'-8' | 0.0 | |
| 7 | | | 17,10 | | | | | |
| 8 | | | 10,12 | 0' | No Sample recovered in spoon | S-5 8'-10' | 0.0 | |
| 9 | | | 12,15 | | | | | |
| 10 | | SAND | 10,12 | 15" | Brown medium to fine SAND, some coarse Gravel, trace Rock fragments, damp | S-6 10'-12' | 0.0 | |
| 11 | | | 9,13 | | | | | |
| 12 | | SAND | 9,10 | 15" | Brown medium to fine SAND, trace coarse Gravel, damp to wet | S-7 12'-14' | 0.0 | |
| 13 | | | 8,9 | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | SAND | 19,21 | 2" | Brown medium to fine SAND, trace Gravel, saturated | S-8 19'-21' | 0.0 | |
| 21 | | | 24,25 | | | | | |
| 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-35



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 |
|-------|----------|--------------|----------------------------|----------|---|---------------------|--------------------------------|----------------------------|
| | | | | | 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-36



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.: | 132.94' | MP: | PVC |
| | | MP Elev.: | 132.52' |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam: | 8" |
| | | Depth to GW: | 14.10' |

SITE MAP



MW-36
⊕

Bldg 6

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 | 27,19 | 18" | Brown fine SAND, trace Asphalt, dry | S-1 | 0.0 | |
| 2 | | | 9,9 | | | 0'-2' | | |
| 3 | | SAND | 14,7 | 18" | Brown medium to fine SAND, trace Gravel, dry | S-2 | 0.0 | |
| 4 | | | 7,6 | | | 2'-4' | | |
| 5 | | SAND | 9,17 | 14" | Brown medium to fine SAND, some Gravel, dry | S-3 | 0.0 | |
| 6 | | | 14,15 | | | 4'-6' | | |
| 7 | | SAND | 11,14 | 18" | Brown fine SAND, well sorted, dry to damp | S-4 | 0.0 | |
| 8 | | | 15,17 | | | 6'-8' | | |
| 9 | | SAND & SILT | 11,14 | 12" | Brown fine SAND and SILT, well sorted, damp | S-5 | 0.0 | |
| 10 | | | 14,16 | | | 8'-10' | | |
| 11 | | SAND & SILT | 13,15 | 12" | Brown fine SAND and SILT, well sorted, damp | S-6 | 0.0 | |
| 12 | | | 15,18 | | | 10'-12' | | |
| 13 | | SAND & SILT | 16,19 | 12" | Brown fine SAND and SILT, well sorted, damp to wet | S-7 | 0.0 | |
| 14 | | | 19,22 | | | 12'-14' | | |
| 15 | | SAND & SILT | 17,19 | 16" | Brown fine SAND and SILT, well sorted, wet to saturated | S-8 | 0.0 | |
| 16 | | | 22,21 | | | 14'-16' | | |
| 17 | | SAND & SILT | 16,21 | 17" | Brown fine SAND and SILT, well sorted, saturated | S-9 | 0.0 | |
| 18 | | | 22,27 | | | 16'-18' | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | SAND & SILT | 13,11 | 24" | Brown fine SAND and SILT, well sorted, saturated | S-10 | 0.0 | |
| 22 | | | 14,12 | | | 20'-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-36



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 backfill</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 boring</p> | | | |

DRILLING LOG for Well #: MW-37



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: | 12-May-98 | Date Finished: | 12-May-98 |
| Location: | Wayland, Massachusetts | Drilling Method: | 4.25 ID HSA |
| Screen Diam: | 2" | Length: | 10' |
| | | Slot Size: | 0.01 |
| Casing Diam: | 2" | Length: | 12' |
| | | Type: | PVC |
| Boring Depth: | 22' | Well Dept: | 22' |
| | | Boring Diam.: | 8" |
| Surface Elev.: | 134.72' | MP: | PVC |
| | | Depth to GW: | 13.52' |
| | | MP Elev.: | 134.41' |

FHWSA

Bldg 5

MW-37

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 | H5 Conc. (ppm) | Lab Sample # & Analyses |
|-------|----------|--------------|-------------------------|----------|---|------------------|----------------|-------------------------|
| 0 | | SAND | 7,5 | 12" | Brown medium to coarse SAND, trace Gravel, dry to damp | S-1 | 0.0 | |
| 1 | | | 4,4 | | | 0'-2' | | |
| 2 | | SAND | 9,13 | 14" | Brown medium to fine SAND, some Silt, trace Gravel, dry to damp | S-2 | 0.0 | |
| 3 | | | 12,15 | | | 2'-4' | | |
| 4 | | SAND | 7,9 | 18" | Brown medium SAND, little Silt, trace Gravel, damp | S-3 | 0.0 | |
| 5 | | | 11,11 | | | 4'-6' | | |
| 6 | | SAND | 7,9 | 16" | Brown medium SAND, little Silt, trace Gravel, damp | S-4 | 0.0 | |
| 7 | | | 6,6 | | | 6'-8' | | |
| 8 | | SAND & SILT | 8,6 | 16" | Brown medium to fine SAND and SILT, trace Gravel, damp | S-5 | 0.0 | |
| 9 | | | 7,5 | | | 8'-10' | | |
| 10 | | SAND & SILT | 5,5 | 19" | Brown fine SAND and SILT, trace Gravel, damp | S-6 | 0.0 | |
| 11 | | | 5,6 | | | 10'-12' | | |
| 12 | | SAND | 5,9 | 12" | Brown-grey fine SAND, some Silt, trace Gravel, wet | S-7 | 0.0 | |
| 13 | | | 11,16 | | | 12'-14' | | |
| 14 | | SAND & SILT | 7,9 | 20" | Brown fine SAND and SILT, saturated | S-8 | 0.0 | |
| 15 | | | 14,22 | | | 14'-16' | | |
| 16 | | SAND & SILT | | | | | | |
| 17 | | | | | | | | |
| 18 | | SAND & SILT | 4,9 | 20" | Brown fine SAND and SILT, well sorted, saturated | S-9 | 0.0 | |
| 21 | | | 11,14 | | | 20'-22' | | |
| 22 | | | | | | | | |
| 23 | | | | | Well Construction Details on Following Page | | | |

Footnotes for Blowcounts

- (1) 140 lb Hammer
- (2) 300 lb Hammer
- (3) 60 lb Hammer

Key to Well Construction

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

DRILLING LOG for Well #:

MW-37



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

| Depth | Well Log | Stratigraphy | Blow counts 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-37M



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

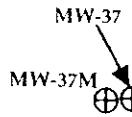
SITE MAP



Building

MW-33M

MW-33S



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' |
| | | Slot Size: | 0.01 |
| Casing Diam: | 2" | Length: | 45' |
| | | Type: | PVC |
| Boring Depth: | 50' | Well Dept | 50' |
| | | Boring Diam.: | 8" |
| Surface Elev.: | 134.72' | MP: | PVC |
| | | Depth to GW: | 17.93' |
| | | MP Elev.: | 134.38' |

| 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 | | SAND | 14,10 | 14" | Brown medium to fine SAND, well sorted, | S-1 | 2.0 | |
| 22 | | | 8,8 | | saturated | 20'-22' | | |
| 23 | | SAND | 8,9 | 24" | Brown fine SAND, trace Silt, well sorted, | S-2 | 1.0 | |
| 24 | | | 9,11 | | saturated [iron staining] | 22'-24' | | |

Footnotes for Blowcounts

- (1) 100 lb. Hammer
- (2) 300 lb. Hammer
- (3) Sloto Hammer

Key to Well Construction

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

DRILLING LOG for Well #: MW-37M



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> | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |
| 60 | | | | | | | | |
| 61 | | | | | | | | |
| 62 | | | | | | | | |
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| 76 | | | | | | | | |
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| 78 | | | | | | | | |
| 79 | | | | | | | | |
| 80 | | | | | | | | |
| 81 | | | | | | | | |
| 82 | | | | | | | | |
| 83 | | | | | | | | |
| 84 | | | | | | | | |
| 85 | | | | | | | | |

DRILLING LOG for Well #: MW-38



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: | 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.: | 134.76' | MP: | PVC |
| | | MP Elev.: | 134.46' |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam.: | 8" |
| | | Depth to GW: | 13.41' |

Bldg 5

MW-37

MW-38



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 | 9,11 | 14" | Brown medium to coarse SAND and SILT, some Gravel, trace Rock fragments, damp | S-1 0'-2' | 0.0 | |
| 2 | | | 13,14 | | | | | |
| 3 | | SAND & SILT | 4,4 | 14" | Brown medium to coarse SAND and SILT, some Gravel, damp | S-2 2'-4' | 0.0 | |
| 4 | | | 6,7 | | | | | |
| 5 | | SAND & SILT | 9,14 | 14" | Brown medium to coarse SAND and SILT, trace Gravel, damp | S-3 4'-6' | 0.0 | |
| 6 | | | 17,15 | | | | | |
| 7 | | SAND & SILT | 22,21 | 15" | Brown medium to coarse SAND and SILT, some Gravel, damp | S-4 6'-8' | 0.0 | |
| 8 | | | 22,21 | | | | | |
| 9 | | SAND & SILT | 8,10 | 12" | Brown medium to coarse SAND and SILT, some Gravel, damp | S-5 8'-10' | 0.0 | |
| 10 | | | 9,10 | | | | | |
| 11 | | SAND & SILT | 4,6 | 9" | Brown medium to fine SAND and SILT, trace Gravel, damp to wet | S-6 10'-12' | 0.0 | |
| 12 | | | 6,25 | | | | | |
| 13 | | | 25,25 | 0" | No sample recovered in spoon | S-7 12'-14' | 0.0 | |
| 14 | | | 25,23 | | | | | |
| 15 | | SAND & SILT | 6,5 | 15" | Brown medium SAND and SILT, trace Gravel, saturated | S-8 14'-16' | 0.0 | |
| 16 | | | 5,7 | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | SAND & SILT | 18,19 | 18" | Brown medium SAND and SILT, trace Clay, saturated | S-9 20'-22' | 0.0 | |
| 22 | | | 21,20 | | | | | |
| 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-38



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 backfill</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 boring</p> | | | |

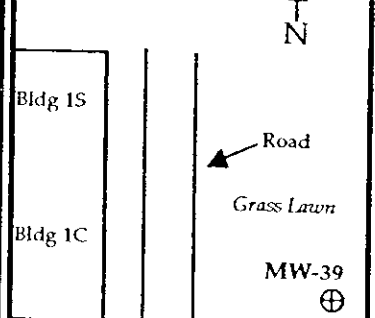
DRILLING LOG for Well #: MW-39



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.: | 135.20' | MP: | PVC |
| | | MP Elev.: | 134.89' |
| | | Slot Size: | 0.01 |
| | | Type: | PVC |
| | | Boring Diam.: | 8" |
| | | Depth to GW: | 13.56' |

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 | 9,11 | 18" | Brown medium to fine SAND, well sorted, loose, damp | S-1 | 0.0 | |
| 2 | | | 7,7 | | | 0'-2' | | |
| 3 | | SAND | 6,6 | 18" | Brown medium to fine SAND, well sorted, loose, damp | S-2 | 0.0 | |
| 4 | | | 10,9 | | | 2'-4' | | |
| 5 | | SAND | 4,6 | 24" | Brown fine SAND, trace Silt, well sorted, loose, damp | S-3 | 0.0 | |
| 6 | | | 6,7 | | | 4'-6' | | |
| 7 | | SAND & SILT | 9,11 | 20" | Brown fine SAND and SILT, well sorted, damp | S-4 | 0.0 | |
| 8 | | | 10,12 | | | 6'-8' | | |
| 9 | | SAND & SILT | 5,6 | 18" | Brown fine SAND and SILT, well sorted, damp to wet | S-5 | 0.0 | |
| 10 | | | 6,5 | | | 8'-10' | | |
| 11 | | SAND & SILT | 15,13 | 18" | Brown fine SAND and SILT, trace Clay, well sorted, damp to wet | S-6 | 0.0 | |
| 12 | | | 10,9 | | | 10'-12' | | |
| 13 | | SAND & SILT | 25,20 | 16" | Brown medium to fine SAND and SILT, well sorted, loose, wet | S-7 | 0.0 | |
| 14 | | | 15,15 | | | 12'-14' | | |
| 15 | | SAND & SILT | 6,10 | 16" | Brown fine SAND and SILT, trace Clay, well sorted, saturated | S-8 | 0.0 | |
| 16 | | | 10,10 | | | 14'-16' | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | SAND & SILT | 6,7 | 24" | Brown fine SAND and SILT, well sorted, saturated | S-9 | 0.0 | |
| 22 | | | 8,7 | | | 20'-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-39



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 |
|-------|----------|--------------|----------------------------|----------|---|---------------------|--------------------------------|----------------------------|
| | | | | | 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 | | | |