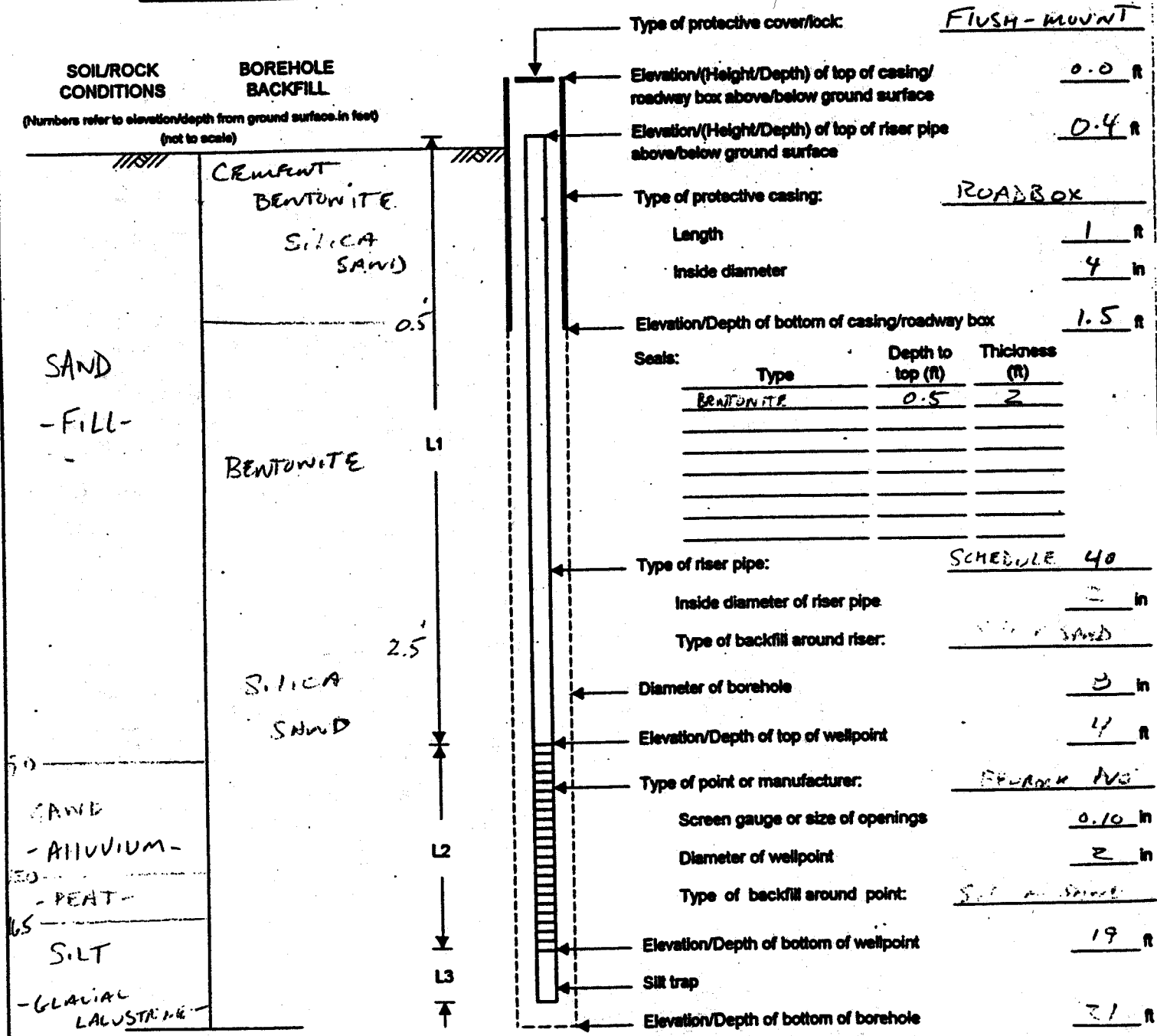


Observation Well HA-101
 Test Boring HA-101
 Installation Date JAN 8, 1998
 Location SEE PLAN
 H&A File No. 12069-041
 H&A Rep. J. McLAUGHLIN

Project FORMER RATHCON PLANT
 City/State WAYLAND, MA
 Client CONGRESS GROUP VENTURES
 Contractor NEW HAMPSHIRE BORING
 Foreman KEN SMITH

Ground El. _____ Casing: Elevation Above Below Depth Below
 Riser Pipe: Above Below Roadway Box Pay from Ground Surface Pay from Riser Top
 Survey Datum _____



Bottom of Exploration @ 21' (Depths refer to ground surface)

Remarks: _____

$$\frac{4 \text{ ft}}{\text{Riser Pay Length (L1)}} + \frac{15 \text{ ft}}{\text{Length of point (L2)}} + \frac{2 \text{ ft}}{\text{Length of silt trap (L3)}} = \frac{21 \text{ ft}}{\text{Pay length}}$$

Boring #: HA101 Project: FORMER RAYTHEON FACILITY Project # : 12069-041
Project Address: City: WAYLAND State: MA Zip:
Date Start: 01/08/98 Date End: 01/08/98 Location: See Plan

Casing Sampler Casing Sampler
TYPE : H-S-A S/S SIZE: 4 1/4 in. I.D. 1 3/8 in. I.D.
HAMMER: 140 lbs. FALL: 30 in.

GROUNDWATER OBSERVATION
DATE 01/08/98 DEPTH 9' CASING OUT STABILIZATION PER. Upon Completion

OP.	S./#	DEPTH	PEN	REC	BLOWS/6"	ST/CH	SAMPLE DESCRIPTION
-	S-1	0'-2'	24"	14"	7-9-24-	25	0'-0.3' - ASPHALT
-	S-2	2'-4'	24"	13"	24-28 37-42		S-1: Dense, brown silty fine SAND, little medium to coarse sand, trace fine gravel.
-	S-3	4'-6'	24"	15"	16-36 50-50		S-2: Very dense, tan coarse to fine SAND, trace fine gravel.
-	S-4	6'-8'	24"	13"	72-55 50-70		S-3: Very dense, tan, coarse to fine SAND, trace fine gravel.
-	S-5	8'-10'	24"	11"	6-8 12-15	8'	S-4: Very dense, tan, coarse to fine SAND, trace fine gravel.
-	S-6	10'-12'	24"	14"	6-8 8-12		S-5: Medium dense, gray fine SAND little coarse to medium sand, trace fine gravel.
-	S-7	15'-17'	24"	10"	2-4 6-12	15' 16.5'	S-6: Medium dense, gray fine SAND, little coarse to medium sand, trace fine gravel.
-	S-8	19'-21'	24"	12"	11-11 13-17		-ALLUVIAL DEPOSITS- S-7: Stiff, dark brown fibrous PEAT, little silt, trace fine SAND. -ORGANIC DEPOSIT- S-8: Very stiff, gray SILT, little clay.
							-GLACIOLACUSTRINE DEPOSITS- Bottom of exploration at 21' OW installed at 21'

DRILLER: K. Smith HELPER: S. Cooley INSPECTOR:

REMARKS: 2" PVC well installed at 21'

NEW HAMPSHIRE BORING INC.
P.O. BOX 165
DERRY NH 03038

TEL: -603-437-1610

Boring #: HA102 Project: FORMER RAYTHEON FACILITY Project #: 12069-041
Project Address: City: WAYLAND State: MA Zip:
Date Start: 01/08/98 Date End: 01/08/98 Location: See Plan

Casing Sampler Casing Sampler
TYPE : H-W S/S SIZE: 4 in. I.D. 1 3/8 in. I.D.
CAMMER: 140 lbs. FALL: 30 in.

GROUNDWATER OBSERVATION

DATE: 01/08/98 DEPTH: 12' CASING OUT: STABILIZATION PER. Upon Completion

SP.	S./#	DEPTH	PEN	REC	BLOWS/6"	ST/CH	SAMPLE DESCRIPTION
	S-1	0' -2'	24"	8"	9-29-30-	34	0' -0.3' - ASPHALT
	S-2	2' -4'	24"	5"	7-17 20-46		S-1: Medium dense, tan coarse to fine SAND, trace silt. S-2: D.O. except dense
	S-3	5' -7'	24"	24"	PUSH		U-1: Push 3" undisturbed tube from 5' -7' -FILL
	S-3	8' -10'	24"	10"	9-11 13-15	8'	S-3: Medium dense, coarse to fine SAND.
	S-4	13' -15'	24"	7"	27-30 14-38		-GLACIOLACUSTRINE DEPOSITS- S-4: Same except dense
	S-5	19' -21'	24"	7"	10-10 12-19		S-5: Same except medium dense.
	S-6	25' -27'	24"	6"	9-12 14-17		S-6: Medium dense, brown medium to fine SAND, little coarse sand.
	S-7	29' -31'	24"	17"	25-33 35-27		S-7: Very dense, brown fine SAND, trace medium sand.

DRILLER: K. Smith HELPER: S. Cooley INSPECTOR:

Boring #: HA102 Project: FORMER RAYTHEON FACILITY Project # : 12069-041
Project Address: City: WAYLAND State: MA Zip:
Date Start: 01/08/98 Date End: 01/08/98 Location: See Plan

Casing TYPE : H-W SAMMER: Sampler S/S 140 lbs. Casing SIZE: 4 in. I.D. FALL: Sampler 1 3/8 in. I.D. 30 in.

GROUNDWATER OBSERVATION
DATE 01/08/98 DEPTH 12' CASING OUT STABILIZATION PER. Upon Completion

DP.	S./#	DEPTH	PEN	REC	BLOWS/6"	ST/CH	SAMPLE DESCRIPTION
-							-GLACIOLACUSTRINE DEPOSITS-
15'	S-8	34' -36'	24"	14"	8-11 16-22		S-8: Medium dense, brown medium fine SAND, trace coarse sand.
-						36'	Bottom of exploration at 36' DW installed at 26'
-							
5'							
-							
0'							
-							
5'							
-							
0'							

RILLER: K. Smith HELPER: S. Cooley INSPECTOR:

MARKS: Page 2 of 2.

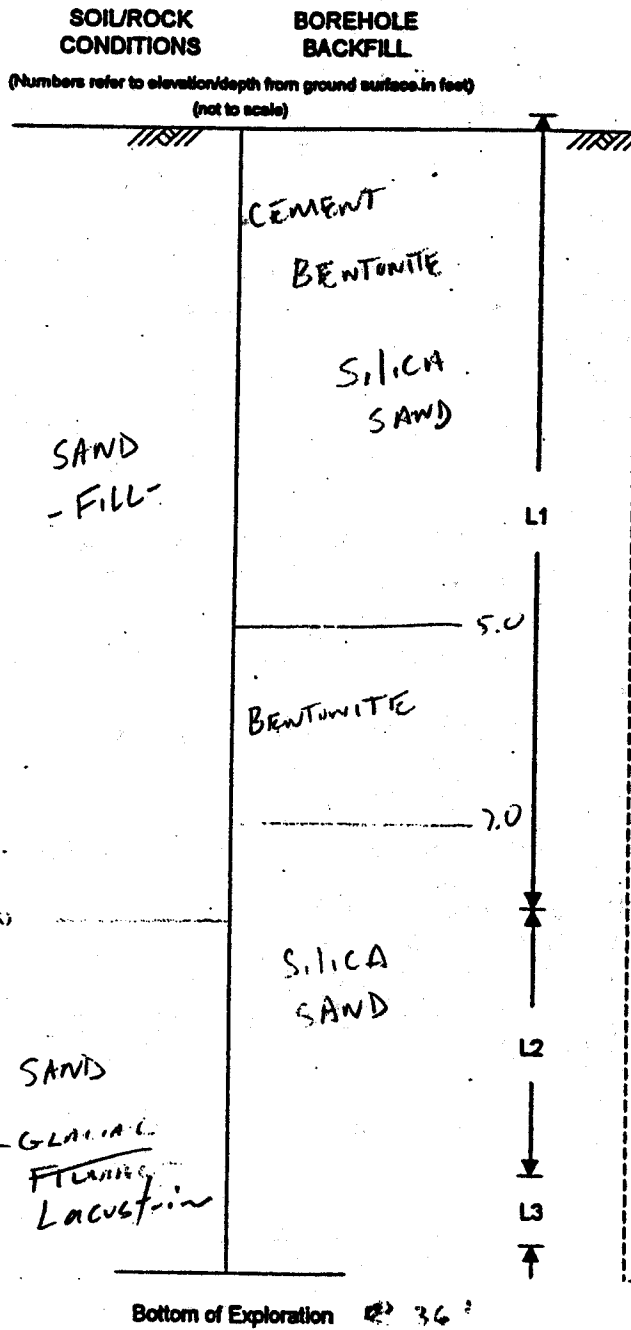
Observation Well HA-102 OW
 Test Boring HA-102
 Installation Date JAN 9, 1998
 Location SEE PLAN
 H&A File No. 12064-041
 H&A Rep. J. McLAUGHLIN

Project FORMER RATTICON PLANT
 City/State WATERBURY, MA
 Client CONGRESS GROUP VENTURES
 Contractor NEW HAMPSHIRE BORING
 Foreman KRIV SMITH

Ground El. _____
 Survey Datum _____

- Casing: Elevation Above Casing Pay from Ground Surface
 Depth Below Roadway Box Pay from Riser Top

Type of protective cover/lock: FLUSH-MOUNT



- Elevation/(Height/Depth) of top of casing/roadway box above/below ground surface 0.0 ft
 Elevation/(Height/Depth) of top of riser pipe above/below ground surface 0.4 ft
 Type of protective casing: ROAD BOX
 Length 1.5 ft
 Inside diameter 4 in
 Elevation/Depth of bottom of casing/roadway box 1.5 ft
- | Seals: | Type | Depth to top (ft) | Thickness (ft) |
|--------|------------------|-------------------|----------------|
| | <u>BENTONITE</u> | <u>5</u> | <u>2</u> |
| | | | |
| | | | |
| | | | |
| | | | |
- Type of riser pipe: SCHEDULE 40
 Inside diameter of riser pipe 2 in
 Type of backfill around riser: SILICA SAND
 Diameter of borehole 8 in
 Elevation/Depth of top of wellpoint 9 ft
 Type of point or manufacturer: _____
 Screen gauge or size of openings 0.10 in
 Diameter of wellpoint 2 in
 Type of backfill around point: SILICA SAND
 Elevation/Depth of bottom of wellpoint 29 ft
 Silt trap
 Elevation/Depth of bottom of borehole 36 ft

Bottom of Exploration 36

(Depths refer to ground surface)

Remarks:

$$\frac{9 \text{ ft}}{\text{Riser Pay Length (L1)}} + \frac{15 \text{ ft}}{\text{Length of point (L2)}} + \frac{2 \text{ ft}}{\text{Length of silt trap (L3)}} = \frac{26 \text{ ft}}{\text{Pay length}}$$

Boring #: HA103 Project: FORMER RAYTHEON FACILITY Project #: 12069-041
Project Address: City: WAYLAND State: MA Zip:
Date Start: 01/08/98 Date End: 01/08/98 Location: See Plan

Casing Sampler Casing Sampler
TYPE : H-S-A S/S SIZE: 4 1/4 in. I.D. 1 3/8 in. I.D.
HAMMER: 140 lbs. FALL: 30 in.

GROUNDWATER OBSERVATION
DATE 01/08/98 DEPTH CASING OUT STABILIZATION PER. Upon Completion

DP.	S. /#	DEPTH	PEN	REC	BLOWS/6"	ST/CH	SAMPLE DESCRIPTION
-	S-1	0' -2'	24"	12"	15-17-13	-14	0' -0.3' ASPHALT
-	S-2	2' -4'	24"	18"	14-16 19-18		S-1: Dark brown coarse to fine SAND, little fine gravel. -FILL-
-	S-3	4' -6'	24"	9"	16-18 19-21		
-	S-4	6' -8'	24"	19"	19-24 25-16	6'	Dense, brown coarse to fine SAND, little fine gravel.
-	S-5	8' -10'	24"	10"	19-25 24-21		
-	S-6	10' -12'	24"	20"	27-25 24-23		-GLACIOLACUSTRINE DEPOSITS-
-	S-7	12' -14'	24"	12"	26-32 32-27	13'	S-7: Top 6" - dense brown coarse to fine sand. bottom 6" - very dense, brown fine SAND
5'	S-8	15' -17'	24"	12"	9-16 18-17		-GLACIOLACUSTRINE DEPOSITS-
0'	S-9	20' -22'	24"	20"	13-15 19-20	20'	S-9: Top 6" - medium dense brown SILT. -GLACIOLACUSTRINE DEPOSITS- Bottom 14" - Medium dense, brown coarse to fine SAND, little fine gravel. -GL.LACUSTRINE DEPOSITS-
							Bottom of exploration at 25' OW installed at 25'

DRILLER: K. Smith HELPER: S. Cooley INSPECTOR:



Haley & Aldrich, Inc.

GROUNDWATER OBSERVATION WELL REPORT

WELL NO. HA-103

FILE NO. 12069-041

PROJECT FORMER RATHEDON PLANT

BORING NO. HA-103

LOCATION WAYLAND, MA

LOCATION _____

CLIENT CONGRESS GROUP VENTURES

SEE PLAN

CONTRACTOR NEW HAMPSHIRE BORING

INSTALLATION DATE JAN 9, 1998

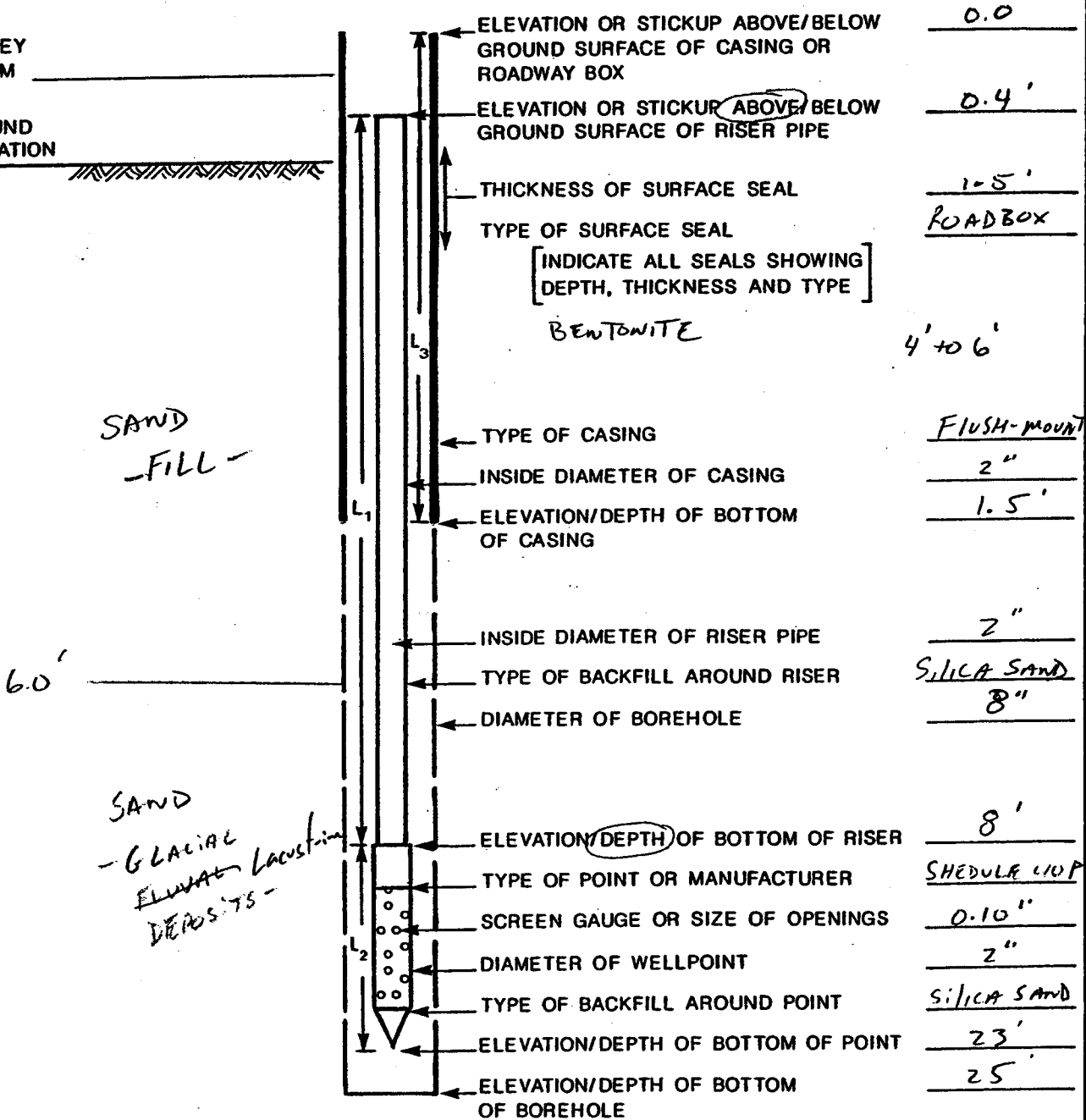
DRILLER KEN SMITH

H&A REP J. McLAUGHLIN

SURVEY DATUM _____

GROUND ELEVATION _____

SUMMARIZE SOIL CONDITIONS (NOT TO SCALE)



[FIGURES REFER TO: EL. _____ DEPTH _____]

$$\left[\frac{1.5'}{\text{LENGTH OF CASING (L}_3\text{)}} \right] \left[\frac{8'}{\text{LENGTH OF RISER PIPE (L}_1\text{)}} + \frac{15'}{\text{LENGTH OF POINT (L}_2\text{)}} \right] = \frac{25'}{\text{PAY LENGTH}}$$

+ 2' S.I.T TRAP

Boring #: HA104 Project: FORMER RAYTHEON FACILITY Project # : 12069-041
Project Address: City: WAYLAND State: MA Zip:
Date Start: 01/09/98 Date End: 01/09/98 Location: See Plan

Casing TYPE : H-S-A SAMMER: S/S 140 lbs. Casing SIZE: 4 1/4 in. I.D. FALL: Sampler 1 3/8 in. I.D. 30 in.

GROUNDWATER OBSERVATION
DATE 01/09/98 DEPTH CASING OUT STABILIZATION PER. Upon Completion

DP.	S./#	DEPTH	PEN	REC	BLOWS/6"	ST/CH	SAMPLE DESCRIPTION
-	S-1	0'-2'	24"	15"	13-17-22	-17	0'-0.3' ASPHALT
-	S-2	2'-4'	24"	15"	25-31		S-1: Dense, brown coarse to fine SAND, little fine grave;.
-	S-3	4'-6'	24"	16"	8-9	4'	-FILL-
5'	S-4	6'-8'	24"	18"	9-11		S-3: Medium dense, brown fine SAND, little silt, occasional piece of coarse sand and fine gravel.
-	S-5	8'-10'	24"	17"	12-18		S-4: Same, except dense
0'	S-6	10'-12'	24"	15"	14-25		S-5: Same, except medium dense
-	S-7	12'-14'	24"	14"	18-20		S-6: Same, except dense
-	S-8	14'-16'	24"	20"	12-15		S-7: Same, except dense
5'	S-9	16'-18'	24"	20"	17-13		S-8: Same, except dense.
-					14-16		S-9: Same except dense
-					15-16		
-					16-18		
0'	S-10	20'-22'	24"	16"	5-7		-GLACIOLACUSTRIE POSITS-
-					7-14		S-10: Same, except loose.
-							
5'	-11	25'-27'	24"	19"	2-2		
-					5-10		
-						28'	Bottom of exploration at 28' DW installed at 28'

DRILLER: K. Smith HELPER: S. Cooley INSPECTOR:

MARKS:



Haley & Aldrich, Inc.

GROUNDWATER OBSERVATION WELL REPORT

WELL NO. HA-104

FILE NO. 12069-041

PROJECT FORMER RATHEN PLANT

BORING NO. HA-104

LOCATION WAYLAND, MA

LOCATION SEE PLAN

CLIENT CONGRESS GROUP VENTURES

INSTALLATION DATE JAN 9, 1998

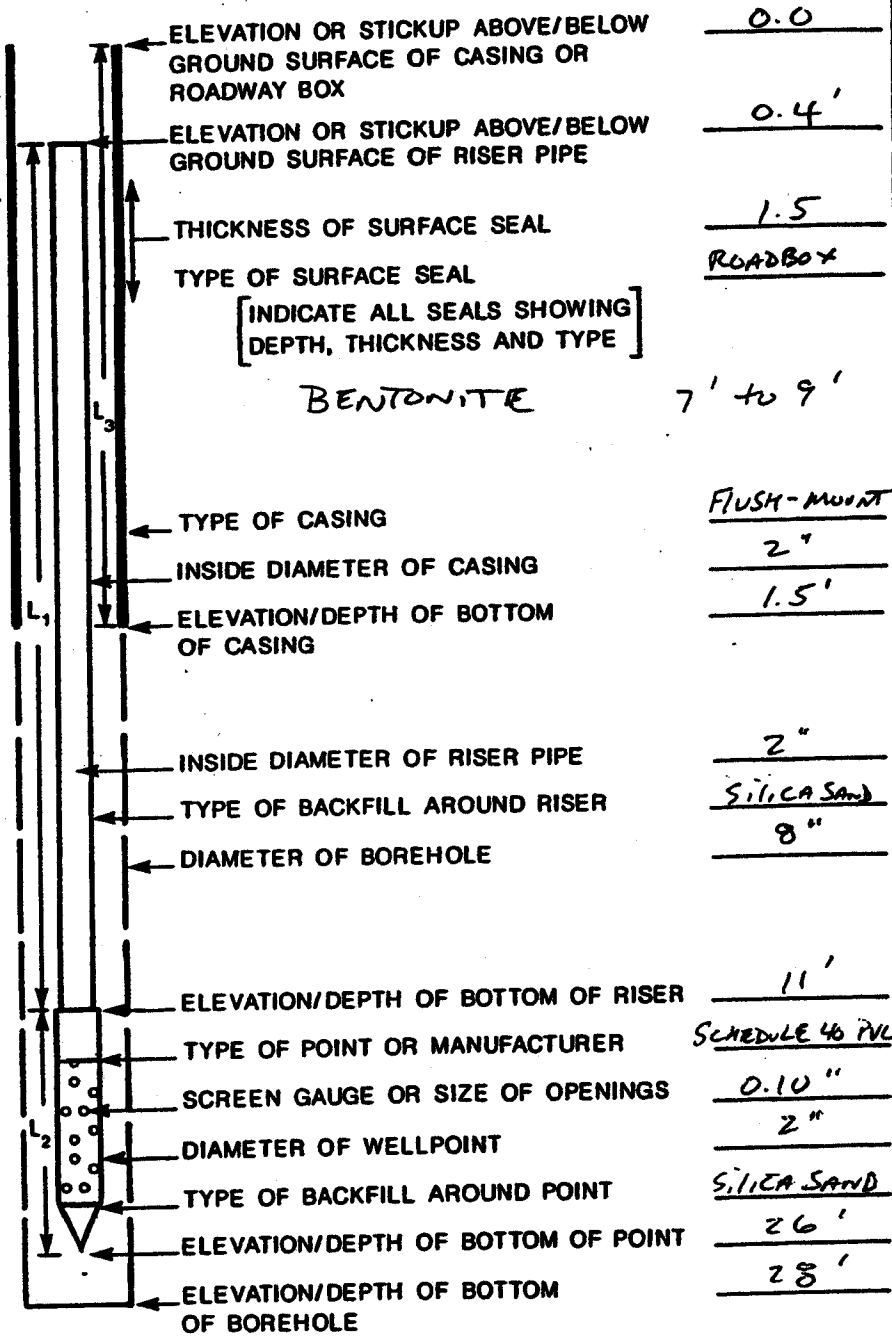
CONTRACTOR NEW HAMPSHIRE BORING

H&A REP J. McLAUGHLIN

DRILLER KEN SMITH

SURVEY DATUM _____

GROUND ELEVATION _____



SUMMARIZE SOIL CONDITIONS (NOT TO SCALE)

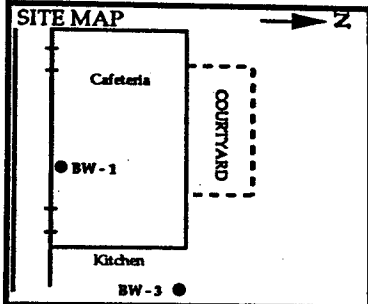
[FIGURES REFER TO: EL. _____ (DEPTH) _____]

$$\left[\frac{1.5'}{\text{LENGTH OF CASING (L}_3\text{)}} \right] \left[\frac{11'}{\text{LENGTH OF RISER PIPE (L}_1\text{)}} + \frac{15'}{\text{LENGTH OF POINT (L}_2\text{)}} \right] = \frac{28'}{\text{PAY LENGTH}}$$

+ 2' S.I.T. TRAP

DRILLING LOG for Well #: BW-1

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



NOTES
Wells located inside facility.

Project: Raytheon Project Number: EC9610-01
 Client: Raytheon Log By: Steven Sacco
 Drilling Co.: Environmental Drilling Driller: Duane Stevens
 Date Started: 3 December 1996 Date Finished: 3 December 1996
 Location: Wayland, Massachusetts Drilling Method: 4.25" I.D Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: 0.010"
 Casing Diameter: 2" Length: 12.5' Type: PVC
 Boring Depth: 23' Well Depth: 22.5' Boring Diam.: ≈ 8"
 Surface Elev.: _____ MP: grade Depth to GW: ≈ 15'
 MP Elev.: _____

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			FILL	21 - 27 31 - 45	1"	1" Fill: Medium brown, medium to fine SAND, some Silt; rock in bottom of spoon; no odor or staining; dry.	S - 1 0 - 2'	ND/ND	
2			SAND	34 - 31 24 - 24	20"	20" Medium brown, fine SAND, some Silt; no odor or staining; dry.	S - 2 2 - 4'	ND/ND	
3			SAND	13 - 19 29 - 31	2"	2" Medium brown, fine SAND, some Silt, little Gravel; rock in bottom of spoon; no odor or staining; dry.	S - 3 4 - 6'	ND/ND	
4			SILT & SAND	9 - 21 18 - 17	18"	18" Medium brown, fine SAND, some Silt; no odor or staining; dry.	S - 4 6 - 8'	ND/ND	
5			SAND	18 - 21 22 - 19	20"	8" Medium brown, SILT, some Gravel; 12" medium brown, fine SAND, little coarse Sand; no odor or staining; dry.	S - 5 8 - 10'	ND/ND	
6			SAND & SILT	17 - 21 22 - 35	15"	3" Medium brown, SILT; 9" medium brown, fine SAND, little Silt; 3" medium brown, fine SAND and Gravel; no odor or staining; dry.	S - 6 10 - 12'	ND/ND	
7			SILT	38 - 32 31 - 35	12"	2" Medium brown, fine SAND and GRAVEL; 10" medium brown, SILT, little Clay; no odor or staining; dry.	S - 7 12 - 14'	ND/ND	8260 8100 8080
8			SILT	10 - 21 33 - 31	16"	16" Medium brown, dense SILT, some Clay; no odor or staining; moist to wet.	S - 8 14 - 16'	ND/ND	
9			SILT	34 - 31 29 - 31	20"	6" Medium brown, coarse SAND and SILT; 14" medium brown, dense SILT, little Clay; no odor or staining; wet.	S - 9 16 - 18'	ND/NA	
10			SAND			Cuttings: Medium brown, very fine SAND, some coarse Sand; no odor or staining; wet.			
11									
12									
13									
14									
15									
16									
17									
18									
19									
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

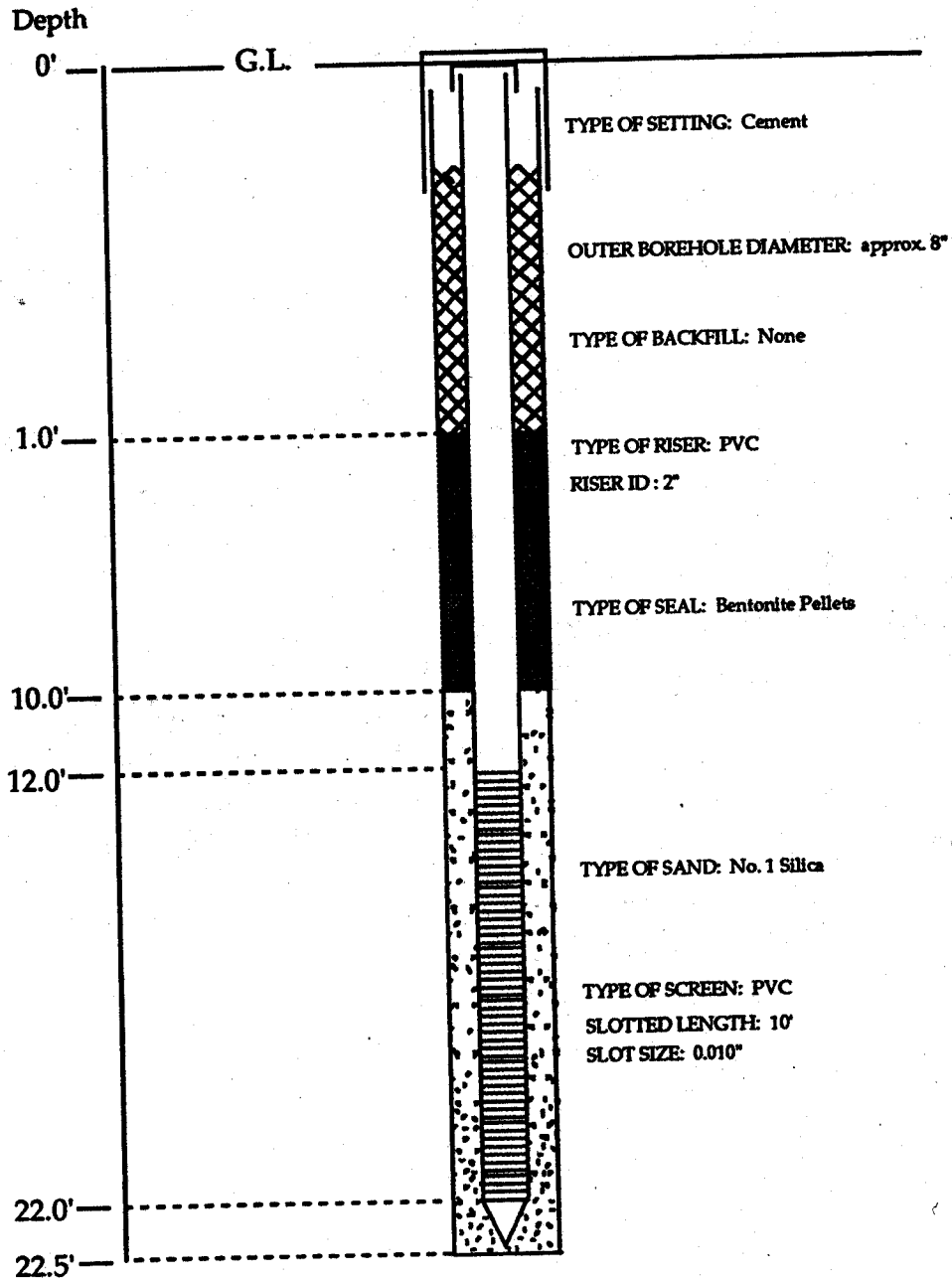
Key to Geologic Symbols

- Till
- Silt
- Sandy Gravel
- Bedrock (Fine-Grain)
- Clay
- Silty Sand
- Gravel
- Bedrock (Coarse-Grain)
- Silty Clay
- Sand
- Fill

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

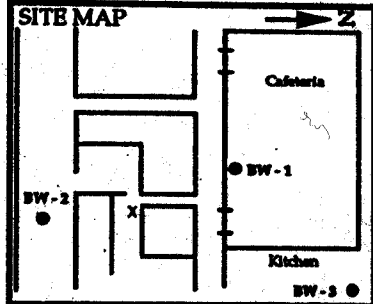
Well Number: BW-1
Project: Raytheon
Project number: EC9610-01
Date Installed: 3 December 1996

Monitoring Well Installation Diagram



DRILLING LOG for Well #: BW-2

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



NOTES
Wells located inside facility. Original BW-2 was located approx. 50 north at point X.

Project: Raytheon Project Number: EC9610-01
 Client: Raytheon Log By: Steven Sacco
 Drilling Co.: Environmental Drilling Driller: Duane Stevens
 Date Started: 4 December 1996 Date Finished: 4 December 1996
 Location: Wayland, Massachusetts Drilling Method: 4.25" I.D Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: 0.010"
 Casing Diameter: 2" Length: 12.0' Type: PVC
 Boring Depth: 23' Well Depth: 22.0' Boring Diam.: ~ 8"
 Surface Elev.: MP: grade Depth to GW: ~ 15'
 MP Elev.: _____

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/2 hr	Lab Samp. # & Anal.
1			SAND	12 - 10 9 - 10	20"	20" Medium brown, very fine SAND and SILT; no odor or staining; dry.	S - 1 0 - 2'	ND/ND	
2			SILT	8 - 8 9 - 8	12"	12" Medium brown, SILT, little very fine Sand; no odor or staining; dry.	S - 2 2 - 4'	ND/ND	
3			SILT	6 - 8 9 - 12	18"	18" Medium brown, SILT, little very fine Sand; no odor or staining; dry.	S - 3 4 - 6'	ND/ND	
4			SAND & SILT	12 - 12 13 - 9	18"	18" Medium brown, very fine SAND, some Silt; no odor or staining; dry.	S - 4 6 - 8'	ND/ND	
5			SILT	12 - 15 15 - 16	12"	12" Medium brown, SILT, little very fine Sand; no odor or staining; dry.	S - 5 8 - 10'	ND/ND	
6			SILT	12 - 9 15 - 19	12"	12" Medium brown, SILT, little very fine Sand; no odor or staining; dry.	S - 6 10 - 12'	ND/ND	
7			SILT	14 - 16 14 - 18	16"	16" Medium brown, dense SILT, some Clay; no odor or staining; dry.	S - 7 12 - 14'	ND/ND	8260 8100 8080
8			SAND & SILT	20 - 25 30 - 31	14"	8" Medium brown, dense SILT, some Clay; 6" medium brown, fine SAND, some medium Sand and Gravel; no odor or staining; wet.	S - 8 14 - 16'	ND/NA	
9			SILT			Cuttings: Medium brown, SILT, little Clay; no odor or staining; wet.			
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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

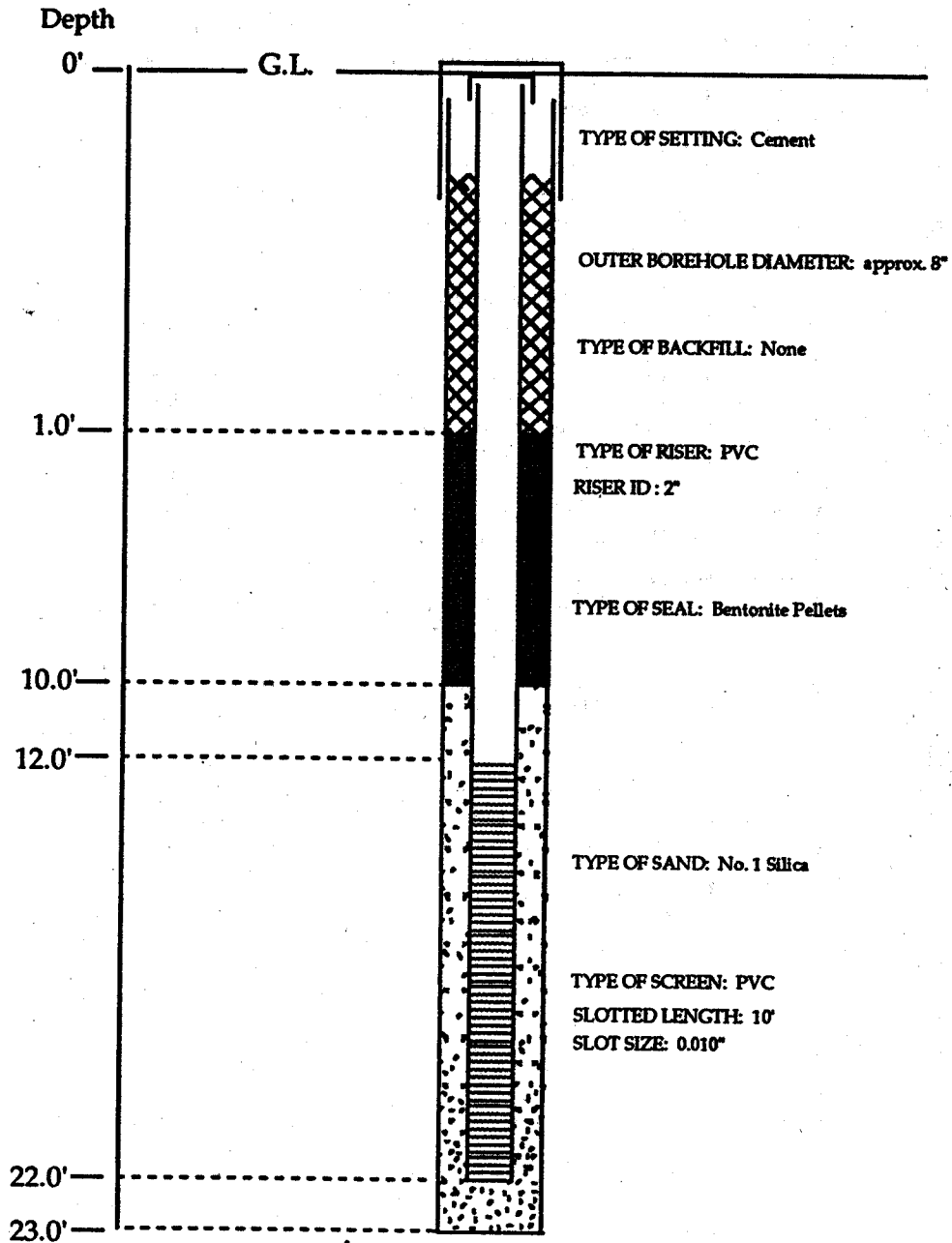
Key to Well Construction

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

Key to Geologic Symbols

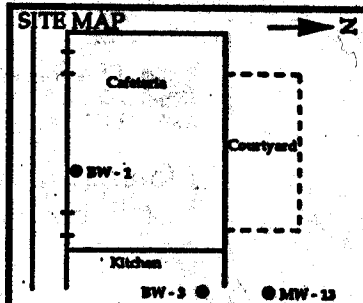
- Till
- Clay
- Silty Clay
- Silt
- Silty Sand
- Sand
- Sandy Gravel
- Gravel
- Fill
- Bedrock (Fine-Grain)
- Bedrock (Coarse-Grain)

Monitoring Well Installation Diagram



DRILLING LOG for Well #: BW-3

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



NOTES
Wells located inside facility.

Project: Raytheon Project Number: EC9610-01
 Client: Raytheon Log By: Steven Sacco
 Drilling Co.: Environmental Drilling Driller: Duane Stevens
 Date Started: 4 December 1996 Date Finished: 4 December 1996
 Location: Wayland, Massachusetts Drilling Method: 4.25" I.D Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: 0.010"
 Casing Diameter: 2" Length: 12.5' Type: PVC
 Boring Depth: 23' Well Depth: 22.5' Boring Diam.: ~ 8"
 Surface Elev.: _____ MP: grade Depth to GW: ~ 16'
 MP Elev.: _____

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) (n/a)/2 hr	Lab Samp. # & Anal.
1			FILL	4-4 4-4	8"	8" Fill: Medium brown, fine SAND, some Gravel; no odor or staining; dry.	S-1 0-2'	ND/ND	
2			SAND & SILT	5-6 9-10	14"	8" Medium brown, medium SAND, some medium Gravel; 6" medium brown, SILT, little fine Sand; no odor or staining; dry.	S-2 2-4'	ND/ND	
3				9-9 12-15	12"	12" Medium brown, very fine SAND, some Silt; no odor or staining; dry.	S-3 4-6'	ND/ND	
4			SAND	15-16 12-11	18"	18" Medium brown, fine SAND, little Silt; no odor or staining; dry.	S-4 6-8'	ND/ND	
5					7-9 7-8	18"	8" Medium brown, fine SAND, little medium Sand; 10" medium brown SILT, little Clay; no odor or staining; dry.	S-5 8-10'	ND/ND
6			SAND & SILT	6-8 9-10	14"	14" Medium brown, fine SAND and SILT; no odor or staining; dry.	S-6 10-12'	ND/ND	
7					10-14 14-16	16"	4" Medium brown, very fine SAND, some Silt; 6" medium brown, medium SAND and fine SAND; 6" brown, dense SILT, little Clay; no odor or staining; dry.	S-7 12-14'	ND/ND
8			SAND	12-17 17-20	14"	14" Medium brown, fine SAND, little fine Sand; no odor or staining; moist to wet.	S-8 14-16'	ND/NA	
9									
10			SAND			Cuttings: Medium brown, very fine SAND, some coarse Sand; no odor or staining; wet.			
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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

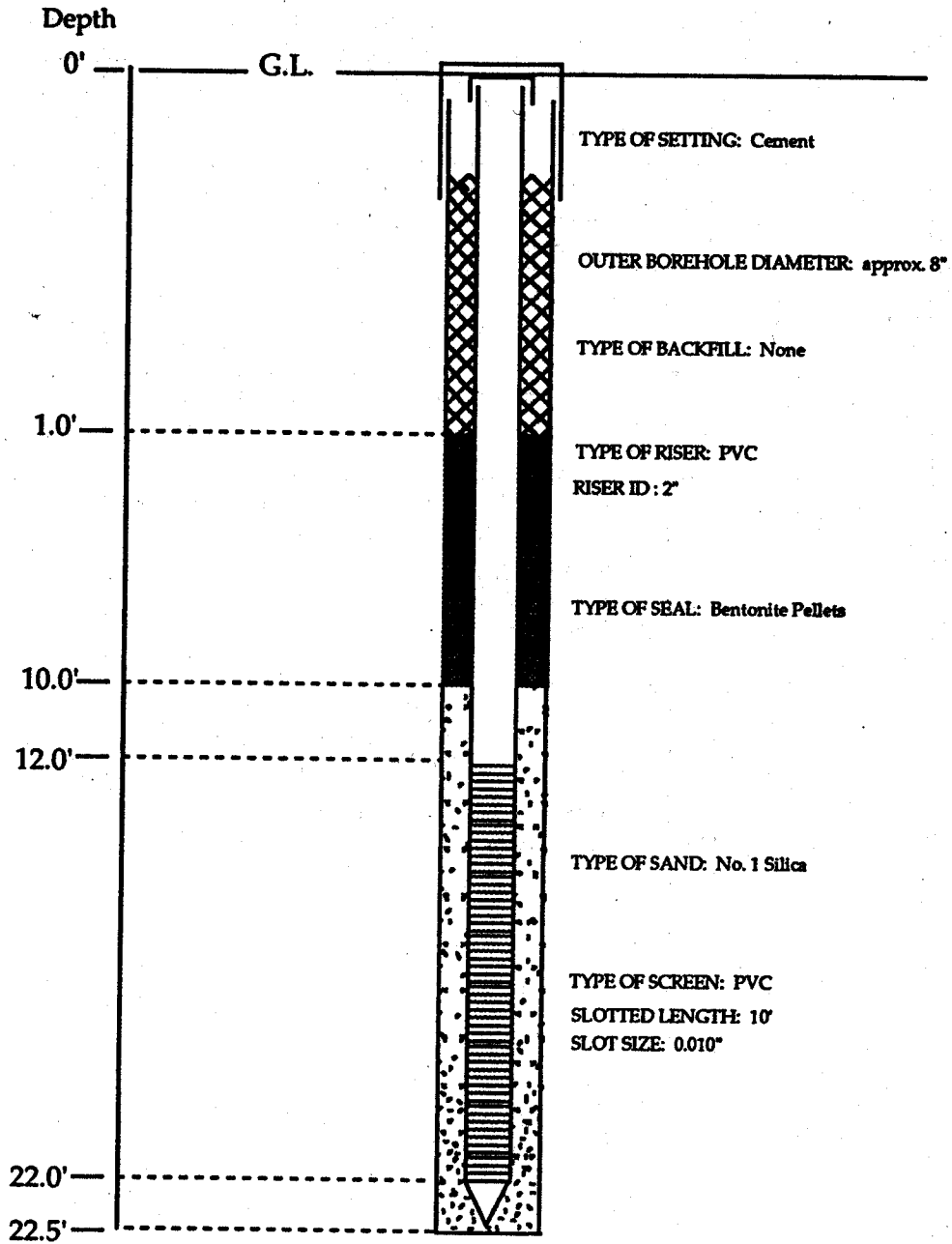
Key to Well Construction

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

Key to Geologic Symbols

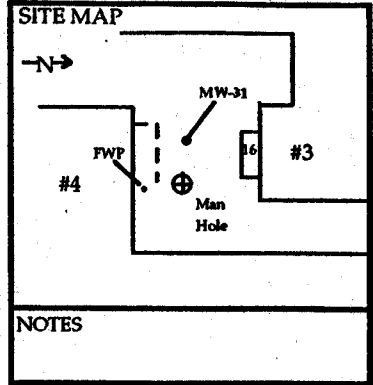
- Fill
- Clay
- Silty Clay
- Silt
- Silty Sand
- Sand
- Sandy Gravel
- Gravel
- Fill
- Bedrock (Fine-Grain)
- Bedrock (Coarse-Grain)

Monitoring Well Installation Diagram



DRILLING LOG for Well #: MW-31

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



Project: Raytheon Wayland Project Number: 14341
 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.:

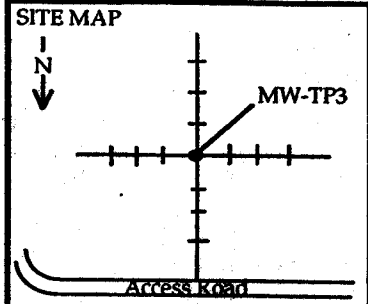
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Split Spoon Description/Soil Classification (Color, Texture, Structures)	Sample # & Depth	PID conc. (ppm) Initial/2 hr	Lab Samp. # & Anal.
1				7-13 7-6	14"	FILL-brown fine to coarse SAND, trace Gravel, dry	S-1 0-2 1640	0.0 0.0	
2				6-9 6-9	12"	FILL- olive gray/brown med. to coarse SAND, dry	S-2 2-4 1645	0.0 0.0	
3				3-5 5-5	15"	As above, dry	S-3 4-6	0.0 0.0	
4				6-10 15-23	22"	Tan, fine SAND, interlayered w/minor FE stained fine SAND, trace silt, dry to damp	S-4 6-8	0.0 0.0	
5				7-9 13-15	18"	Interlayered Brown/gray med. SAND and silty fine SAND layers, damp	S-5 8-10 1655	0.0 0.0	
6				6-12 16-26	14"	As above, damp	S-6 10-12 1705	0.0 0.0	
7				35-23 29-28	20"	As above, dry to damp	S-7 12-14 1710	0.0 0.0	
8				11-18 17-23	19"	As above, wet @ 14'	S-8 14-16 1720	0.0 0.0	
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21				8-10 12-10	18"	Interlayered brown SILT and medium SAND, saturated	S-9 20-22		
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
Bentonite Seal	Cement	Clay	Silty Sand	Gravel
Grout		Silty Clay	Sand	Fill
				Bedrock (Fine-Grain)
				Bedrock (Coarse-Grain)

DRILLING LOG for Well #: MW-TP3

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



Project: Raytheon Wayland Project Number: 143.41
 Client: Raytheon Corporation Log By: I. 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: 7 ft Type: H.S. Auger
 Boring Depth: 18 ft bgs Well Depth: 17 feet Boring Diam.: 4.25" I.D.
 Surface Elev.: Not Measured MP: _____ Depth to GW: -9.5
 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/2 hr	Lab Samp. # & Anal.
1			SAND	3-4 4-6	18"	T an, very fine loose SAND, sweet odor	0.0 to 1.5 ft	0.0 / 7.2	S-1 8080
2			Fine tan to brown SAND	8-5 9-7	20"	Upper 4: Tan very fine SAND	2.0 to 4.0 ft	0.0 / 4.0	S-2 8080
3		Lower 16" Brown to Black Fine SAND, some cobble							
4			Med. Tan SAND	7-6 8-12	22"	Upper 10": Tan to brwon Fine SAND (loose)	4.0 to 6.0 ft	0.0 / 0.0	S-3 8080
5		Lower 10": Brown to Black very fine SAND, SILT w/ Clay							
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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

Key to Well Construction
 [Symbol] Sandpack [Symbol] Well Screen
 [Symbol] Bentonite Seal [Symbol] Cement
 [Symbol] Grout

Key to Geologic Symbols
 [Symbol] Till [Symbol] Silt [Symbol] Silty Sand [Symbol] Sandy Gravel [Symbol] Bedrock (Fine-Grain)
 [Symbol] Clay [Symbol] Silty Clay [Symbol] Sand [Symbol] Gravel [Symbol] Bedrock (Coarse-Grain)
 [Symbol] Fill



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

WELL NUMBER: MW-1

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 8'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 9.85'

Well Depth: 19'

Refusal Depth: No

Cap and Lock: Yes

Map

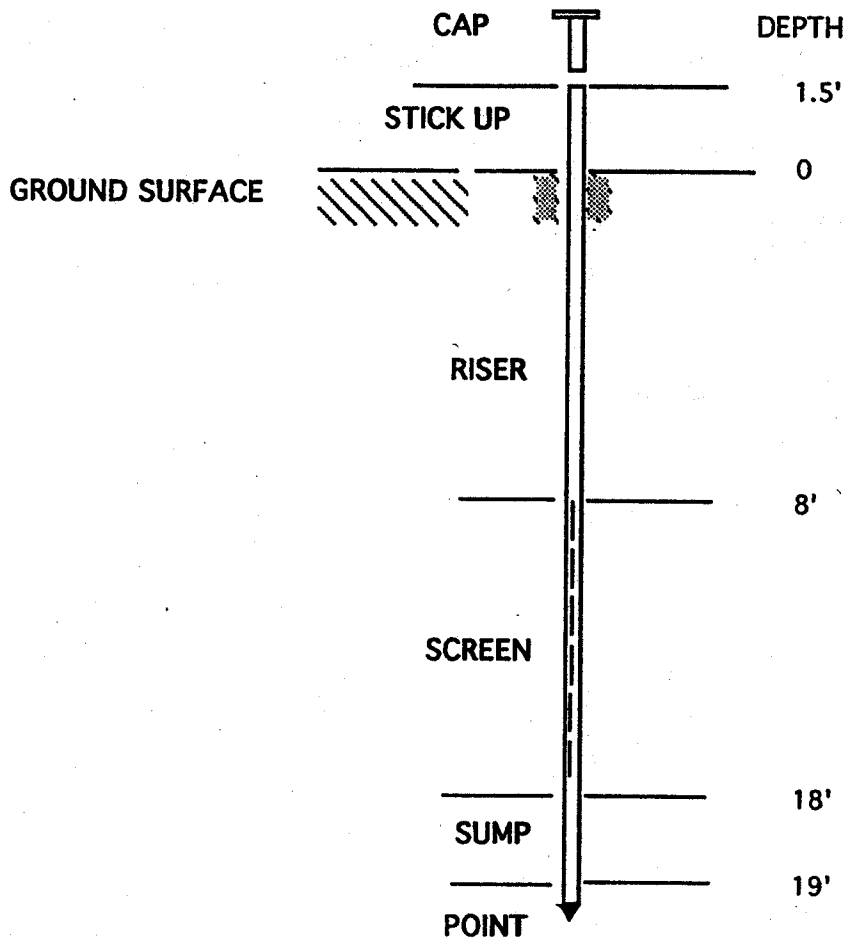


MW-1

ABANDONED
SAND FILTER
BED

BUILDING
#2

Notes:





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

WELL NUMBER: MW-2

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 11'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 16.26'

Well Depth: 22'

Refusal Depth: No

Cap and Lock: Yes

Map



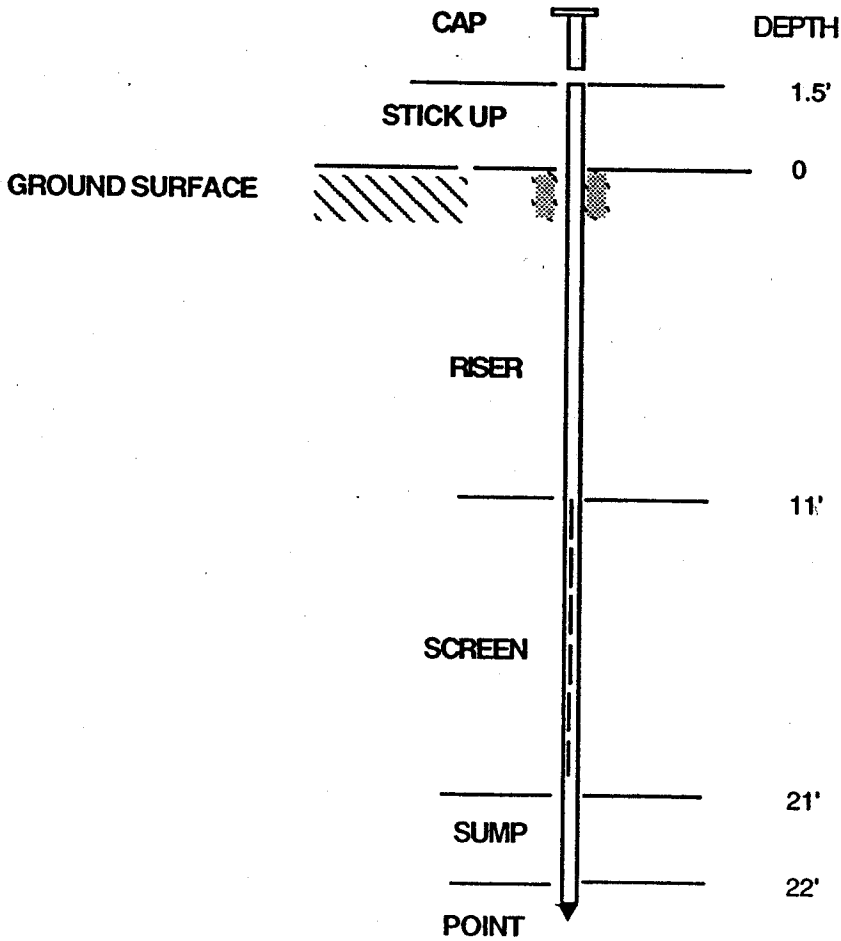
GRASS

MW-2



BUILDING #2

Notes:





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

WELL NUMBER: MW-3

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 12'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 18.72'

Well Depth: 23'

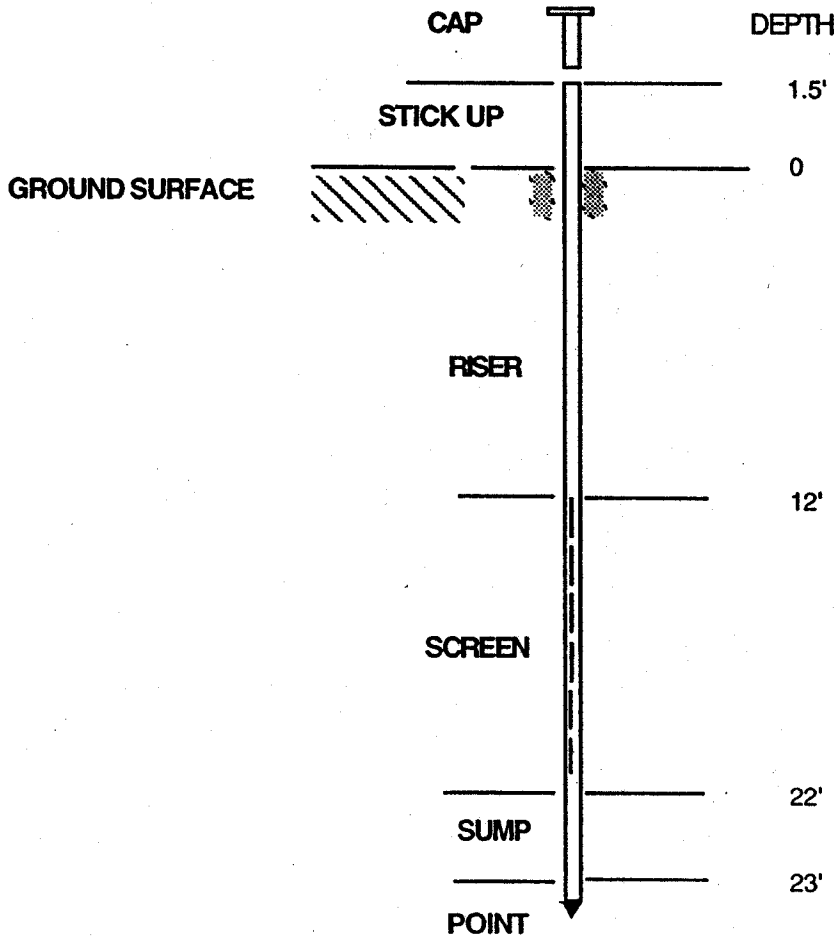
Refusal Depth: No

Cap and Lock: Yes

Map



Notes:





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

WELL NUMBER: MW-4

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 13'

Screen Length: 10.0'

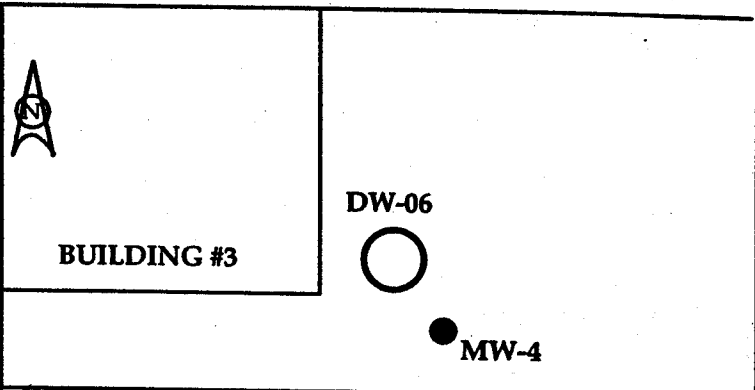
Screen Slot Size: 0.015"

Depth to Groundwater: _____

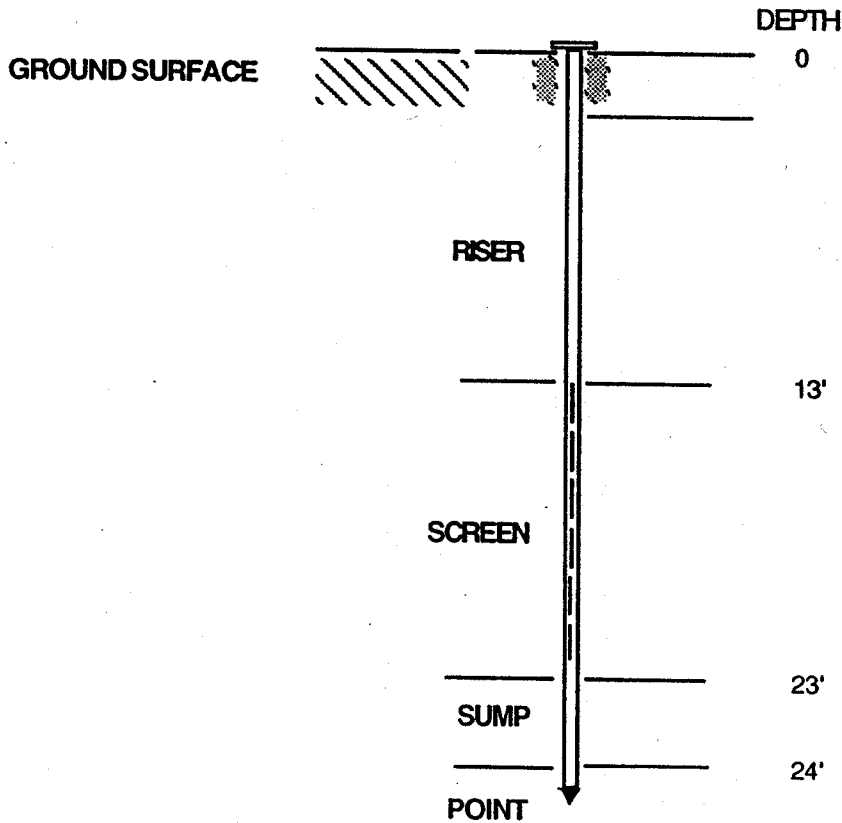
Well Depth: 24.0'

Refusal Depth: No

Cap and Lock: Yes



Notes:





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

WELL NUMBER: MW-5

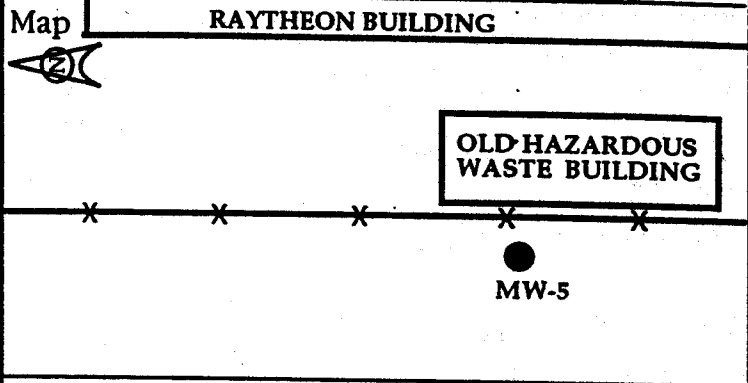
PROJECT: Raytheon Corporation

PROJECT NUMBER: 143-40

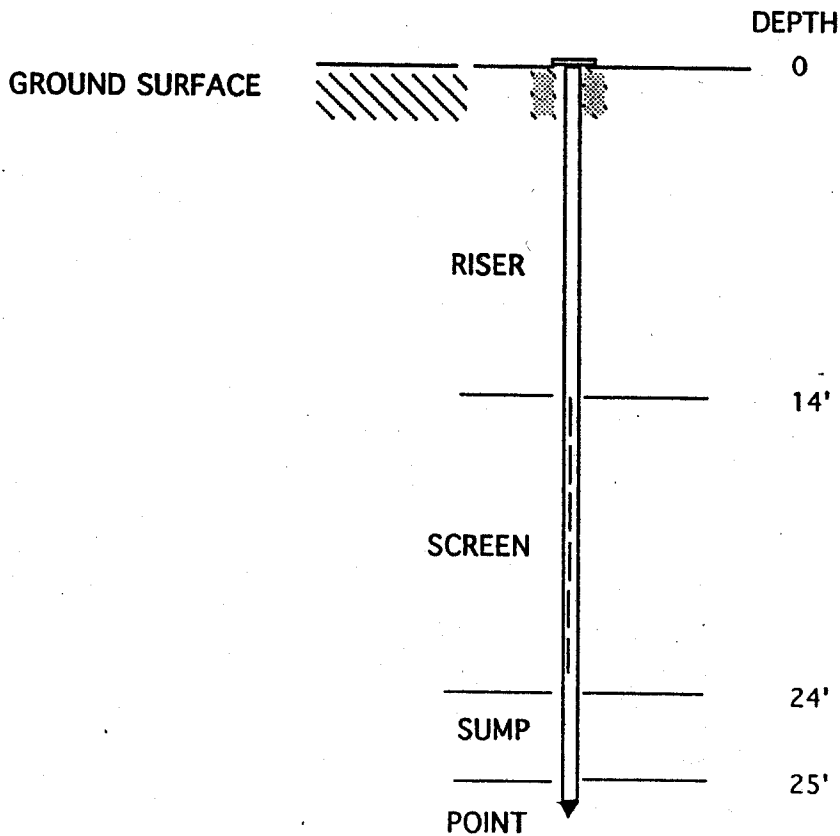
DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna
 Pipe ID: 0.5"
 Pipe Material: Carbon Steel
 Riser Length: 14'
 Screen Length: 10.0'
 Screen Slot Size: 0.015"
 Depth to Groundwater: _____
 Well Depth: 25.0'
 Refusal Depth: No
 Cap and Lock: Yes



Notes:





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

WELL NUMBER: MW-6

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 13'

Screen Length: 10.0'

Screen Slot Size: 0.015"

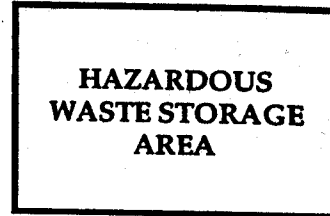
Depth to Groundwater: 17.82'

Well Depth: 24.0'

Refusal Depth: No

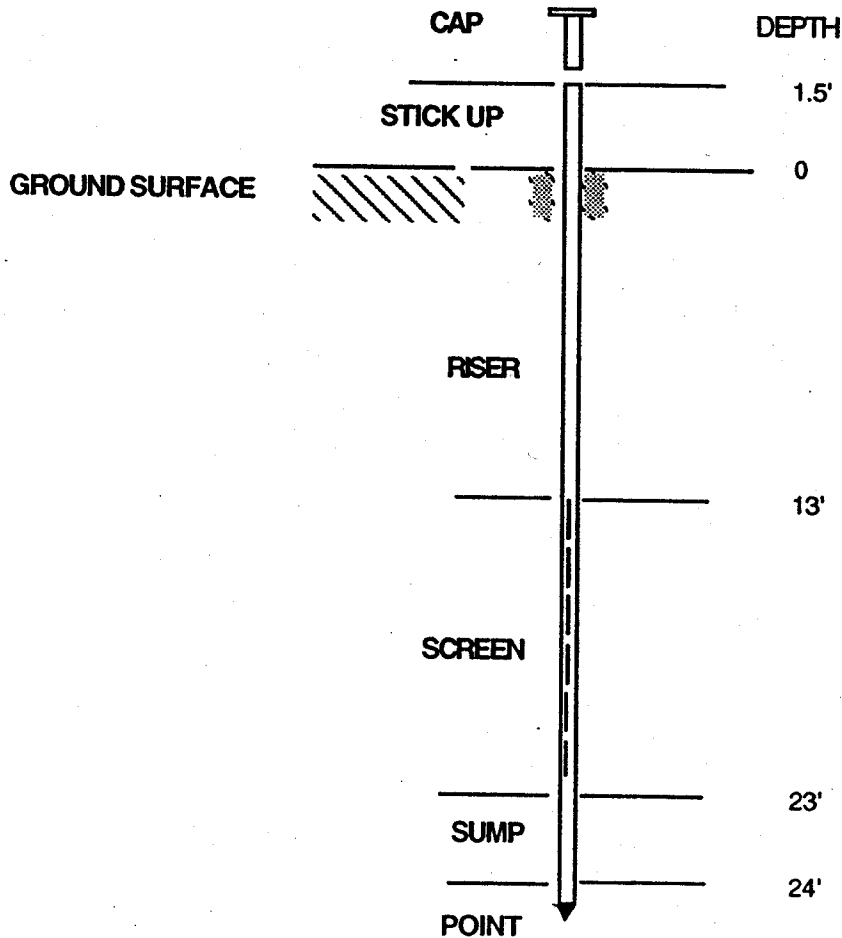
Cap and Lock: Yes

Map



MW-6 ●

Notes:





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

WELL NUMBER: MW-7

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 9'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 18.38'

Well Depth: 20.0'

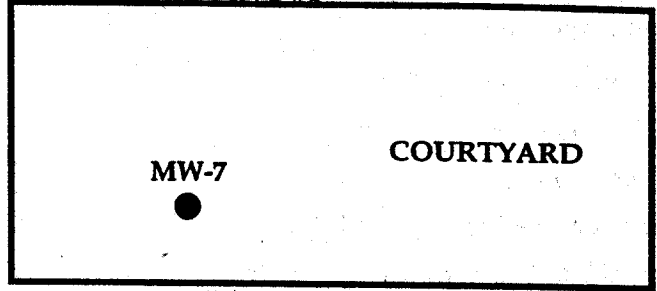
Refusal Depth: No

Cap and Lock: Yes

Map



BUILDING #4

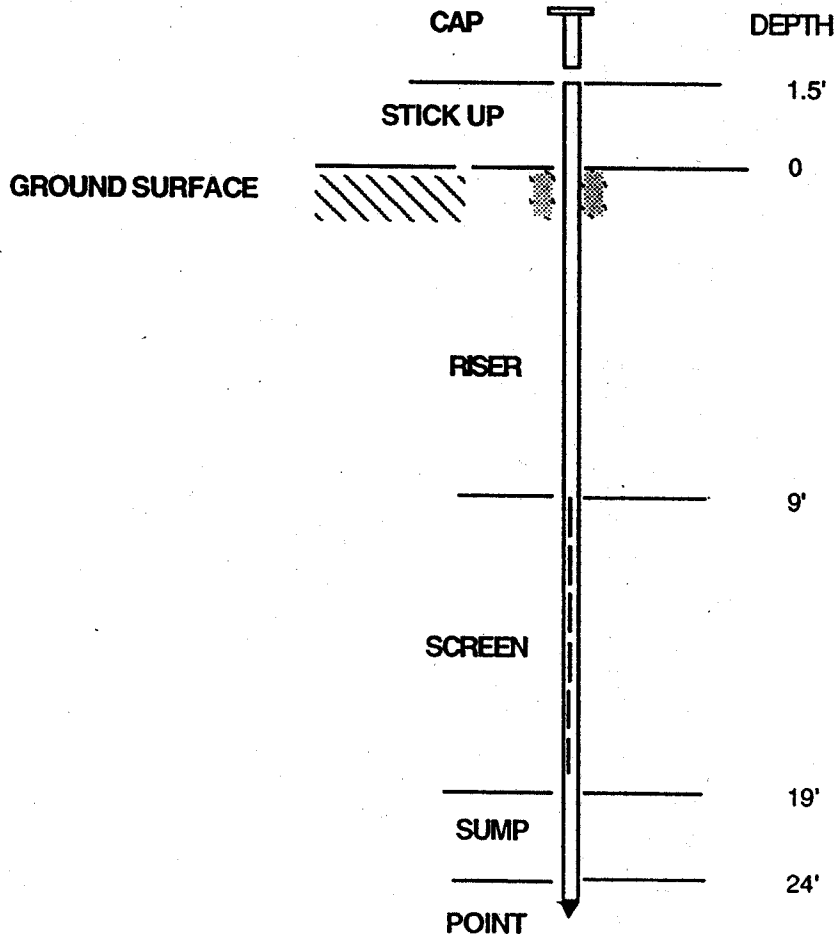


MW-7

COURTYARD

BUILDING #5

Notes:





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

WELL NUMBER: MW-8

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 12.5'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 18.68'

Well Depth: 23.50'

Refusal Depth: No

Cap and Lock: Yes

Map



BUILDING
#1C

MW-8



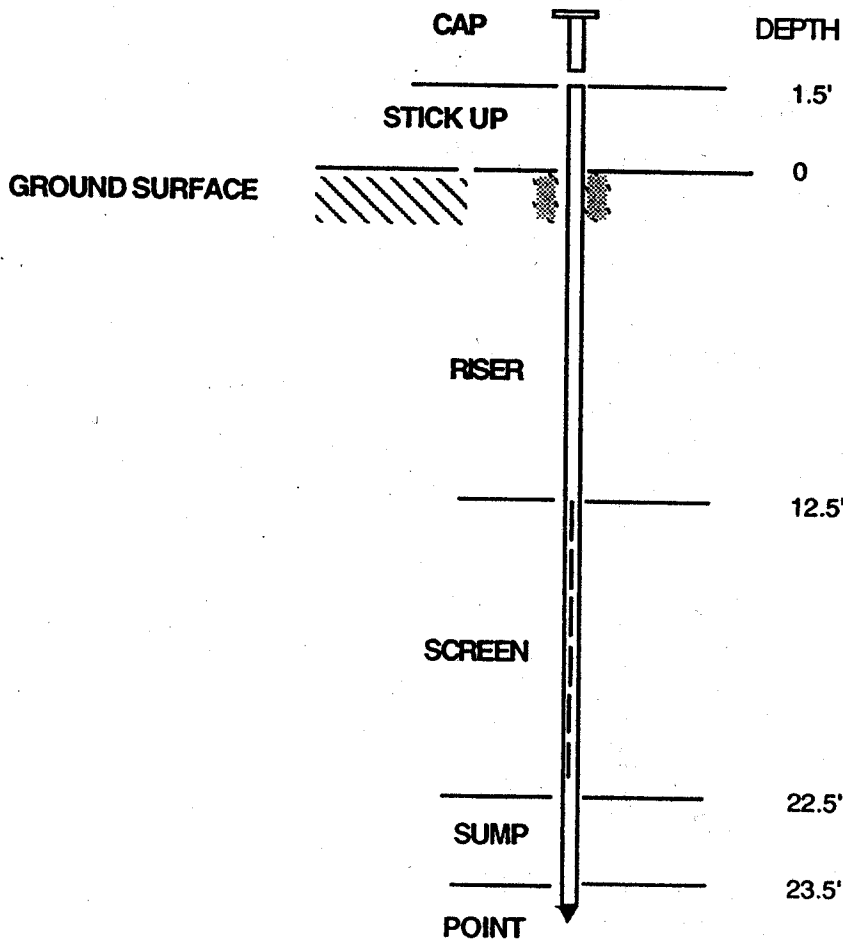
CURB



DW-05



Notes:





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

WELL NUMBER: MW-9

PROJECT: Raytheon Company

PROJECT NUMBER: 143-40

DATE INSTALLED: 10/18/95

FASTWELL INSTALLATION FORM

Personnel: J. D'Agostino & C. McKenna

Pipe ID: 0.5"

Pipe Material: Carbon Steel

Riser Length: 6'

Screen Length: 10.0'

Screen Slot Size: 0.015"

Depth to Groundwater: 4.89'

Well Depth: 17'

Refusal Depth: No

Cap and Lock: Yes

Map

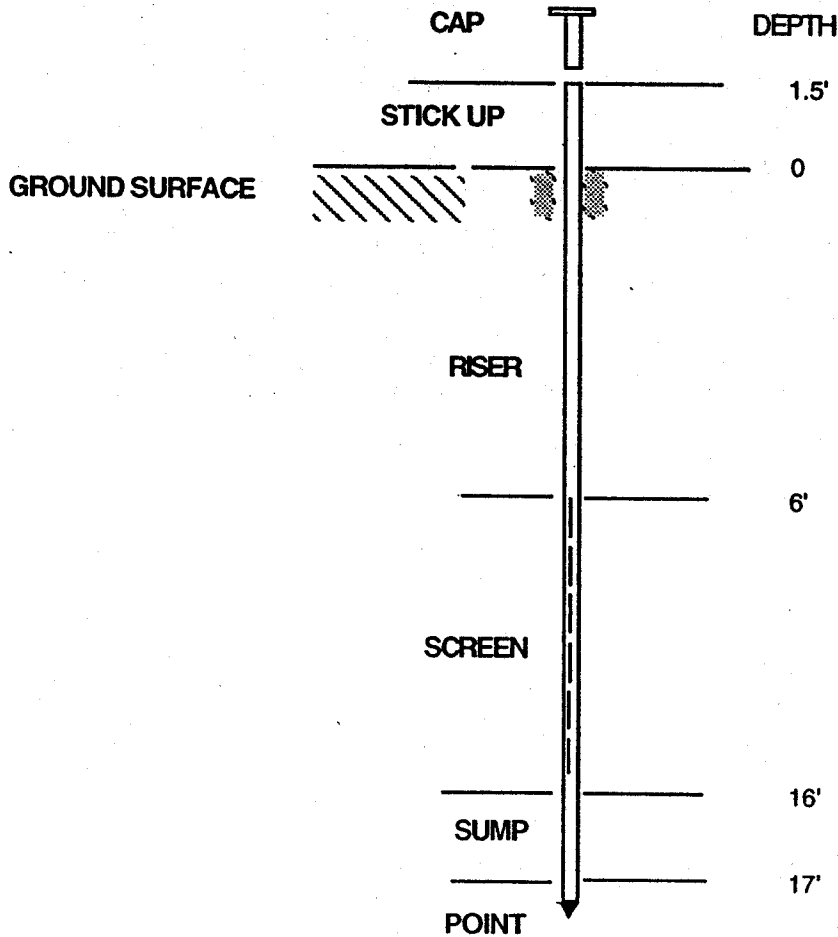


MW-9



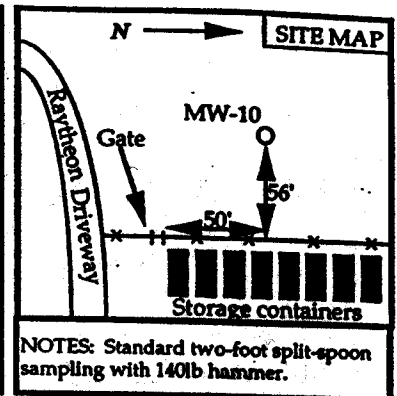
BUILDING #12/21

Notes:



DRILLING LOG for Well #: MW-10

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



Project: Raytheon Wayland Project Number: 14340
 Client: Raytheon Company Log By: I. D'Agostino
 Drilling Co.: T & K Drilling Driller: Kevin & Alan
 Date Started: 21 December 1995 Date Finished: 21 December 1995
 Location: Wayland, MA Drilling Method: 4.25" Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: _____
 Casing Diameter: _____ Length: _____ Type: _____
 Boring Depth: 14.5' Well Depth: 18' Boring Diam.: 4.25" I.D.
 Surface Elev.: _____ MP: _____ Depth to GW: -12'
 MP Elev.: _____

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/2 hr	Lab Samp. # & Anal.
1									
2									
3									
4									
5				10 - 24	12"	12" - Lt brown, v-fine SAND & silt, some gravel; no odor, no staining, dry. Top 3" - dense. Next 3" - loose. Next 6" - moderately packed.	S - 1 4' - 6' 10:35AM	0.0 1.2	
6									
7				9 - 20	12"	Light brown-brown, fine-med. SAND & SILT with some gravel, few cobbles(3/4"), tightly packed; area of moist sand ~6"; no odor; no staining; dry.	S - 2 6' - 8' 10:45AM	0.2 4.2	PCB
8									
9				9 - 14	15"	Top 4" - Light brown, very fine SAND & SILT with trace gravel, poor sorting, no odor, no stain, dry.	S - 3 8' - 10" 10:50AM	0.0 6.4	
10				10 - 6		Bottom 11" - Brown, coarse-med SAND & silt with some gravel, poor sorting, no odor or stain, dry.			
11				5 - 13	14"	Top 9" - Dark brown SAND & silt with some gravel, no odor, no staining. Top 4" - dry; bottom 5" - moist.	S - 4 10' - 12' 10:55AM	0.0 4.7	
12				9 - 12		Bottom 5" - Dark brown very fine sand & SILT, some clay, trace gravel; wet- saturated; no odor, no staining.			
13				12 - 13	12"	Top 6" - Gray, med-coarse SAND & Silt with some gravel, saturated; no odor, no staining. Bottom 6" - Brown-black, very fine SILT, CLAY & sand, some areas of gray clay; contains organics (almost a peat); slight sewage odor, dry.	S - 5 12' - 14' 11:05AM	0.0 54.6	
14				6 - 8					
15						Well specifications:			
16						Screen: 18'-8'			
17						Sand: 18'-7'			
18						Bentonite: 7'-5'			
19						Sand & grout: 5'-0'			
20									
21									
22									
23									
24									

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

Key to Well Construction

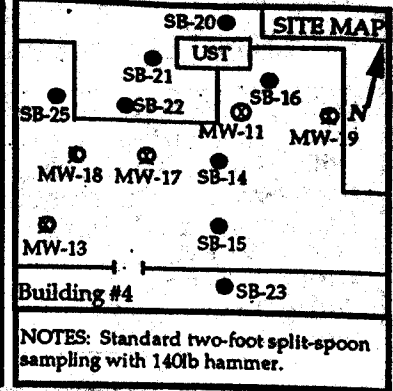
- Sandpack
- Well Screen
- Bentonite Seal
- Cement
- Grout

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-11

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



Project: Raytheon Wayland Project Number: 143.40
 Client: Raytheon Company Log By: I. D'Agostino
 Drilling Co.: T & K Drilling Driller: Kevin & Alan
 Date Started: 21 December 1995 Date Finished: 21 December 1995
 Location: Wayland, MA Drilling Method: 4.25" Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: _____
 Casing Diameter: _____ Length: _____ Type: _____
 Boring Depth: 25' Well Depth: 25' Boring Diam.: 4.25" I.D.
 Surface Elev.: _____ MP: _____ Depth to GW: ≈17'
 MP Elev.: _____

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/2 hr	Lab Samp. # & Anal.
1									
2									
3				12-11	10"	Black, fine-med SAND & Silt with gravel, loose & poorly sorted; petrol odor, visible staining in places; dry.	S-1 2'-4' 12:50	8.2 11.4	
4									
5									
6									
7				11-51/6	4"	Black, oil soaked, coarse SAND & Silt with gravel, very poorly sorted. Refusal encountered at 7.	S-2 6'-8' 1:10	50.2 31.3	
8									
9									
10									
11				4-12	11"	Top 1" - Black, coarse SAND & Silt, loose & poorly sorted, oil soaked, dry. Mid 7" - Grey med-coarse SAND & silt with gravel & cobbles, oil soaked, dry (no water). Bottom 3" Gray sand & silt with some gravel, saturated with oil.	S-3 10'-12" 2:10	16.9 36.6	
12									
13									
14									
15				11-14	20"	Gray-green, very fine SAND, Silt & Clay; completely saturated with very sticky oil (#6?); some areas contain no oil but entire spoon contains visible contamination. Bottom 2" - Same as above but coarser SAND.	S-4 14-16' 2:20	91.6 130	TPH-8100 VOC 8260
16									
17									
18									
19				14-15	22"	Top 18" - Black oil saturated fine-med. SAND, Silt & Clay areas of gray clay; oil soaked throughout spoon. Bottom 4" - Gray-green SILT & clay with petroleum odor no visible staining in bottom 4"; dry.	S-5 18'-20' 2:30	41.6 95.8	
20									
21									
22									
23				14-28	24"	Top 20" - Medium-coarse brown SAND & Silt; no evidence of staining present; no gravel; well sorted saturated. Bottom 4" - Brown, very fine SAND, silt & clay; no odor, no staining; dry.	S-6 22'-24' 2:45	6.2	
24									

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

Key to Well Construction

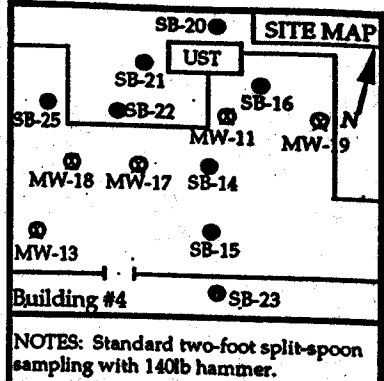
- Sand/pack
- Well Screen
- Bentonite Seal
- Cement
- Grout

Key to Geologic Symbols

- Till
- Silt
- Sandy Gravel
- Bedrock (Fine-Grain)
- Clay
- Silty Sand
- Gravel
- Bedrock (Coarse-Grain)
- Silty Clay
- Sand
- Fill

DRILLING LOG for Well #: MW-13

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



Project: Raytheon Wayland Project Number: 143.40
 Client: Raytheon Company Log By: I. D'Agostino
 Drilling Co.: T & K Drilling Driller: Kevin & Alan
 Date Started: 23 January 1996 Date Finished: 23 January 1996
 Location: Wayland, MA Drilling Method: 4.25" Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: .015"
 Casing Diameter: _____ Length: _____ Type: _____
 Boring Depth: 23' Well Depth: 22' Boring Diam.: 4.25" I.D.
 Surface Elev.: _____ MP: _____ Depth to GW: ~17'
 MP Elev.: _____

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						Ashphalt & Frost			
2				19 - 15	14"	Top 8" - Dark brown, med-coarse SAND and Silt, trace fine gravel, no odor or stain, dry. Next 2" - Coarse SAND and gravel with silt and med sand. Bottom 4" - same as 5' - 7' interval.	S - 1 1' - 3' 11:05AM	342	
3				12 - 10					
4									
5									
6				4 - 7	15"	15" - Light brown, fine SAND and Silt with layers of coarse sand ~1" thick throughout, well sorted no odor or stain, dry.	S - 2 5' - 7' 11:10AM	430	
7				13 - 11					
8									
9									
10				3 - 19	12"	Top 6" - Light brown, V-fine SAND & Silt, well sorted, no odor or stain, dry. Cobble at 6". Next 3" - Dark brown fine-med SAND & Silt w/trace coarse sand. Bottom 3" - Brown, fine-coarse SAND & Silt, no odor, no stain, dry.	S - 3 9' - 11' 11:15AM	424	
11				21 - 13					
12									
13									
14				12 - 18	18"	Top 3" - Light brown, med-coarse SAND & Silt, loose, well sorted, no odor or stain, damp. Bottom 15" - Light brown-dark br., fine SAND & Silt, well sorted, no odor or stain, bottom 4" wet.	S - 4 13' - 15' 11:25AM	408	
15				21 - 28					
16									
17									
18				8 - 12	18"	Top 6" - Light brown, fine SAND & Silt, no gravel, well sorted, saturated. Next 6" - Same as above but med-coarse SAND. Bottom 6" - Same as top 6" with clay and silt.	S - 5 17' - 19' 11:40AM	354	
19				11 - 16					
20									
21									
22									
23									
24									

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

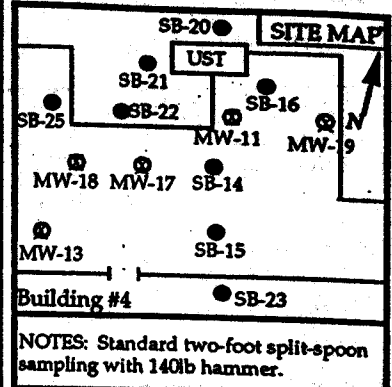
Key to Well Construction
 Sandpack
 Well Screen
 Bentonite Seal
 Cement
 Grout

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-17

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



Project: Raytheon Wayland Project Number: 143.40
 Client: Raytheon Company Log By: J. D'Agostino
 Drilling Co.: T & K Drilling Driller: Kevin & Alan
 Date Started: 23 January 1996 Date Finished: 23 January 1996
 Location: Wayland, MA Drilling Method: 4.25" Hollow Stem Auger
 Screen Diameter: 2" Length: 10' Slot Size: _____
 Casing Diameter: _____ Length: _____ Type: _____
 Boring Depth: 25' Well Depth: 25' Boring Diam.: 4.25" I.D.
 Surface Elev.: _____ MP: _____ Depth to GW: ≈17'
 MP Elev.: _____

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						Asphalt and frost			
2				13 - 35	8"	8" - Brown-gray, fine SAND and Silt with gravel, cobbles and associated rock flour, no odor or stain, poor sorting, dry.	S - 1 1' - 3' 7:45AM	0.0 37.7	
3				41 - 44					
4				14 - 29	16"	16" - Brown-gray, fine-coarse SAND and Silt with coarse gravel, cobbles and rock flour, no odor or stain, poor sorting, dry.	S - 2 3' - 5' 7:50AM	1.6 114	
5				19 - 33					
6				18 - 25	11"	11" - Brown-gray, fine-coarse SAND and Silt with trace fine gravel and no cobbles, no odor or stain, poor sorting, dry.	S - 3 5' - 7' 8:05AM	4.5 103	
7				16 - 14					
8				4 - 8	15"	14" - Brown, fine-med SAND and Silt with trace coarse sand and fine gravel, no odor or stain, moist-damp.	S - 4 7' - 9' 8:15AM	16 103	
9				9 - 13		1" - (end of spoon) fine-med SAND and Silt, oil soaked.			
10				11 - 19	14"	Top 2" - Brown fine-med SAND and Silt, no stain.	S - 5 9' - 11' 8:25AM	22 29.5	Hanby = >1000ppm
11				23 - 21		12" - Grey-black, fine-med SAND and Silt w/trace gravel, saturated with oil in places and clean in others (=1" sections), dry.			
12				10 - 14	12"	Top 7" - Black, oil saturated, fine SAND and Silt with trace gravel.	S - 6 11' - 13' 10:15AM	18.5	
13				11 - 15		Bottom 5" - Same as above with 2-1" layers of fine gravel at bottom 1" and mid 1"			
14				22 - 19	22"	Top 5" - Gray, fine SAND and Silt, saturated w/oil.	S - 7 13' - 15' 10:25AM	22	
15				17 - 23		Mid 6" - Gray, fine SAND, Silt and gravel saturated with oil. Bottom 11" - Gray, fine-med SAND and silt, no gravel, saturated with oil.			
16				4 - 16	22"	21.5" - Gray, fine SAND, Silt and Clay, saturated with oil, except mid 6" has areas where oil could not permeate.	S - 8 15' - 17' 10:50AM	34	
17				22 - 19		Bottom .5" - Brown-gray, v-fine SAND and Silt, clean.			
18				9 - 14	22"	Top 12" - Gray, fine SAND and Silt, clean, no gravel, grades into bottom 10" - Brown fine SAND and Silt, clean, no odor or stain, saturated with water.	S - 9 17' - 19' 11:05AM		
19				21 - 24					
20				14 - 13	24"	24" - Brown, fine SAND and Silt, no odor or stain, saturated with water.	S - 10 19' - 21' 11:20AM		
21				16 - 26					
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)