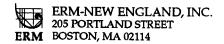
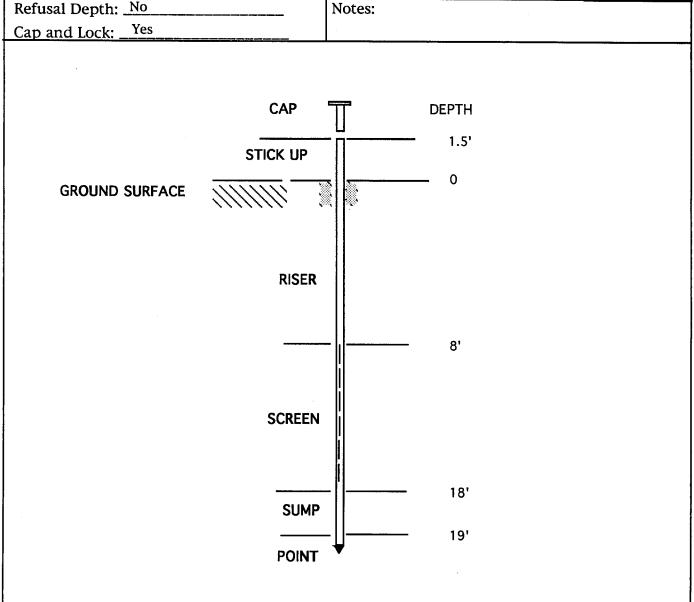
Appendix B Well Construction and Boring Logs



WELL NUMBER: MW-1

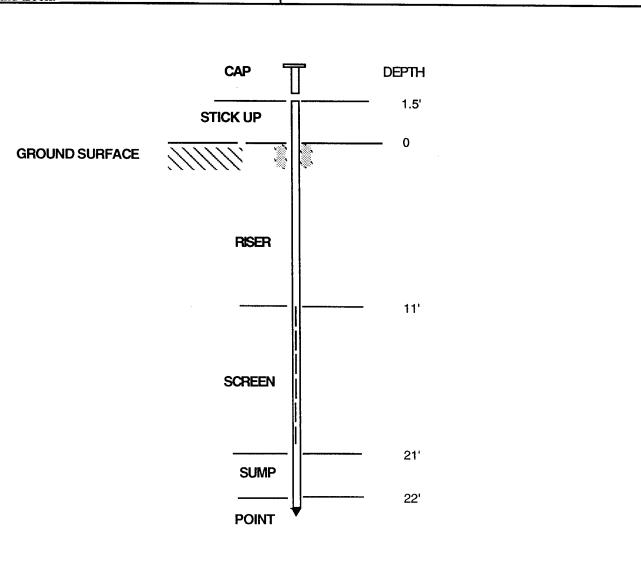
Personnel: J. D'Agostino & C. McKenna	Map		ABANDONED	
Pipe ID: <u>0.5"</u>	ΙΔ	MW-1	SAND FILTER	
Pipe Material: <u>Carbon Steel</u>			BED	
Riser Length:8'	' '			
Screen Length: 10.0'				
Screen Slot Size: 0.015"				
Depth to Groundwater: 9.85'				BUILDING
Well Depth:				#2
Refusal Depth: <u>No</u>	Notes			
<u>.</u> .				

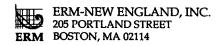




WELL NUMBER: MW-2

Personnel: J. D'Agostino & C. McKenna	Мар		
Pipe ID:	Δ		
Pipe Material: Carbon Steel			BUILDING
Riser Length: 11'			#2
Screen Length: 10.0'	GRASS	$\bigcup$	
Screen Slot Size:0.015"		DW-01	
Depth to Groundwater:16.26'	MW-2		
Well Depth: 22'			-
Refusal Depth: No	Notes:		
Cap and Lock: Yes			





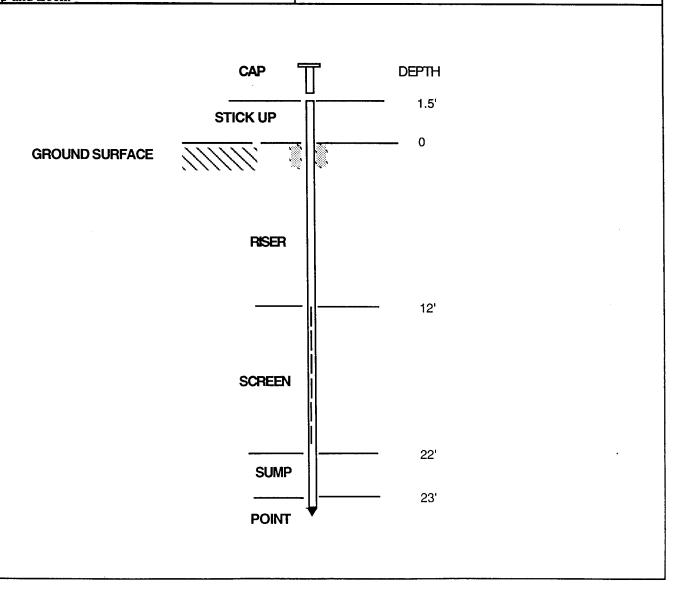
#### WELL NUMBER: MW-3

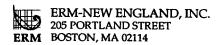
PROJECT: Raytheon Company PROJECT NUMBER: 143-40 DATE INSTALLED: 10/18/95

## **FASTWELL INSTALLATION FORM**

ORM DATE

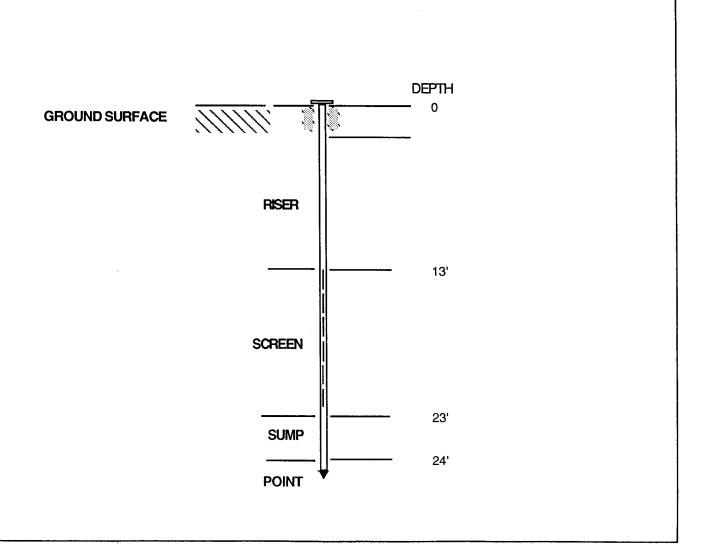
Personnel: J. D'Agostino & C. McKenna	Map	
Pipe ID:	Λ	
Pipe Material: Carbon Steel	MW-3	
Riser Length: 12'	<b>'``●</b>	
Screen Length: 10.0'		
Screen Slot Size:0.015"	GRASS	BUILDING
Depth to Groundwater:18.72'		#3
Well Depth:23'		
Refusal Depth: No	Notes:	
Cap and Lock: Yes		

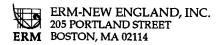




WELL NUMBER: MW-4

Personnel: J. D'Agostino & C. McKenna	
Pipe ID:	Ι Δ
Pipe Material: Carbon Steel	
Riser Length:13'	
Screen Length: 10.0'	DW-06
Screen Slot Size: 0.015"	BUILDING #3
Depth to Groundwater:	
Well Depth: 24.0'	MW-4
Refusal Depth: No	Notes:
Cap and Lock: Yes	



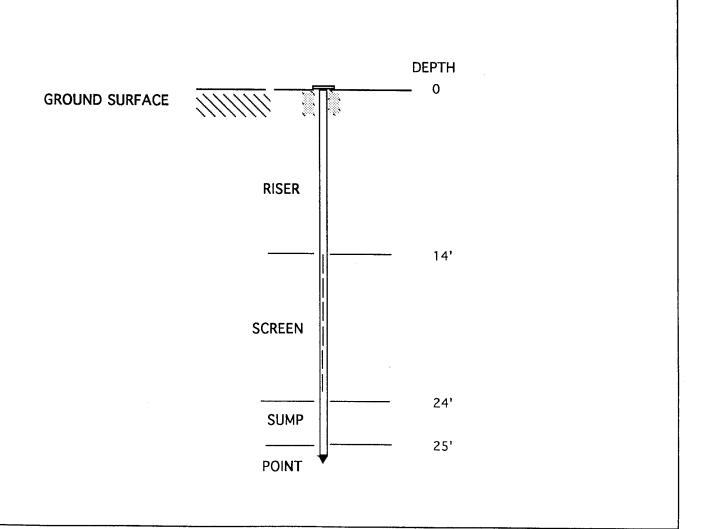


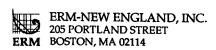
WELL NUMBER: MW-5

PROJECT: Raytheon Corporation

PROJECT NUMBER: 143-40 DATE INSTALLED: 10/18/95

Personnel: J. D'Agostino & C. McKenna	Мар	RAYTHEON BI	UILDING
Pipe ID: <u>0.5"</u>	<b>₹</b>		
Pipe Material: <u>Carbon Steel</u>			
Riser Length:14'			OLD HAZARDOUS WASTE BUILDING
Screen Length: 10.0'	- X	<del></del>	X
Screen Slot Size:0.015"			•
Depth to Groundwater:			MW-5
Well Depth:25.0'			
Refusal Depth: No	Notes:		
Can and Lock. Yes			

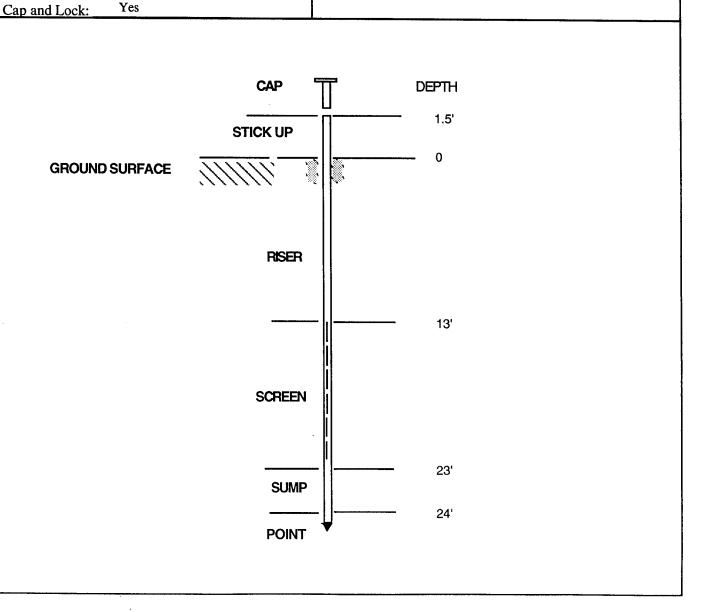


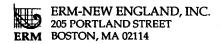


WELL NUMBER: MW-6

PROJECT: Raytheon Company PROJECT NUMBER: 143-40 DATE INSTALLED: 10/18/95

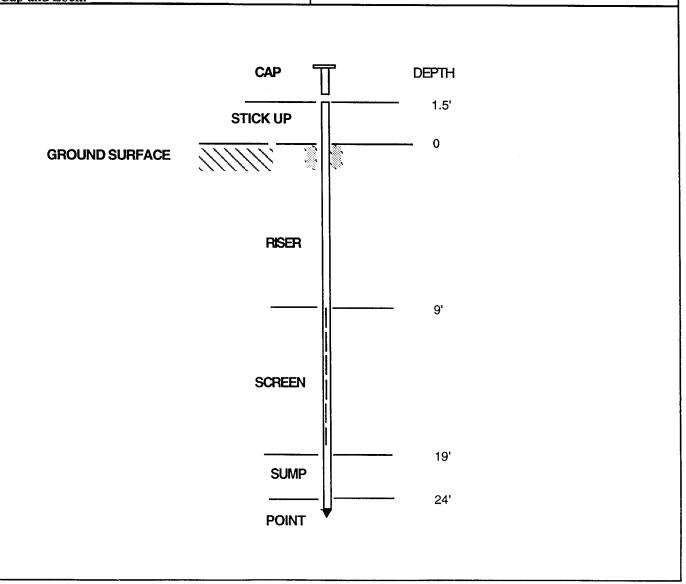
J. D'Agostino & C. McKenna Personnel: Map Pipe ID: \_\_0.5" Carbon Steel Pipe Material: \_\_ **HAZARDOUS WASTE STORAGE** 13' Riser Length: \_\_ AREA 10.0' Screen Length: \_\_\_ 0.015" Screen Slot Size: \_\_\_ 17.82' Depth to Groundwater: \_ MW-6 24.0' Well Depth: \_\_ Refusal Depth: \_ No Notes:

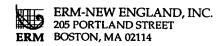




WELL NUMBER: MW-7

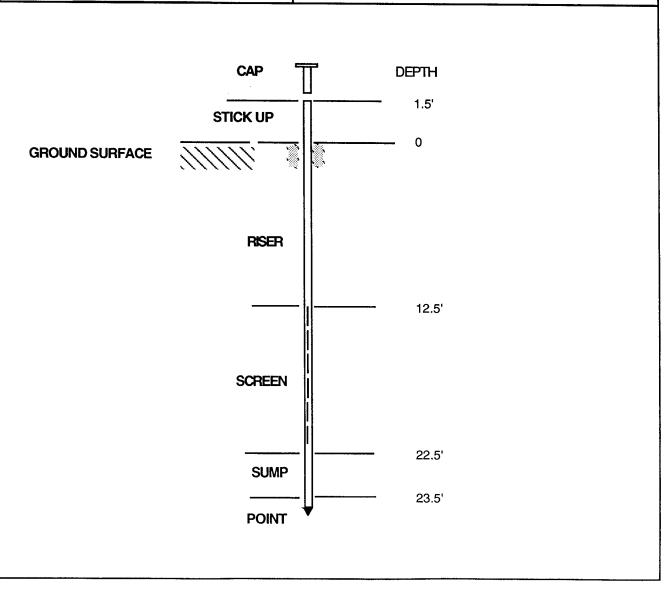
Personnel: J. D'Agostino & C. McKenna	Map	BUILDING #4	4	_
Pipe ID:	Δ			1
Pipe Material: Carbon Steel				l
Riser Length:9'			COLUMN	l
Screen Length:		MW-7	COURTYARD	
Screen Slot Size:0.015"		•		
Depth to Groundwater:18.38'				
Well Depth:		BUILDING:	#5	
Refusal Depth: No	Notes:			_
Can and Lock: Yes				

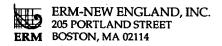




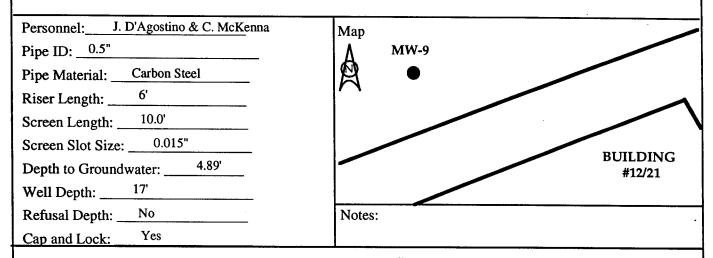
WELL NUMBER: MW-8

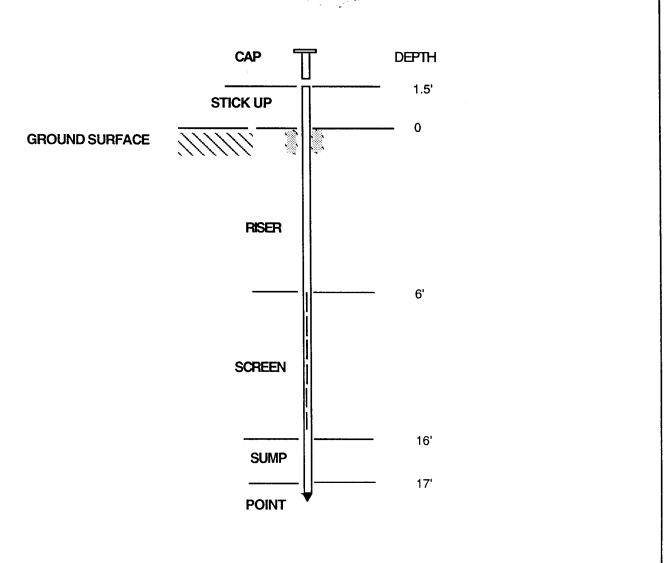
Personnel: J. D'Agostino & C. McKenna	Map	
Pipe ID:	Δ	<b> ──</b> CURB
Pipe Material: Carbon Steel		
Riser Length: 12.5'	' `	MW-8
Screen Length: 10.0'	BUILDING	•
Screen Slot Size: 0.015"	#1C	DW-05
Depth to Groundwater:18.68'		
Well Depth:23.5.0'		
Refusal Depth: No	Notes:	
Cap and Lock: Yes		





WELL NUMBER: MW-9





DR	ILLIN	G LO	G for W	ell#: S	B-1	***	205	RM-NEW ENC 5 PORTLAND S' STON, MA 021:	TREET	NC.	DW-01 SB-1	Building #	SITE MAP
Location: Wayland, MA Drilling M							. McKenna . McKenna 20 Octol l: Hand	ber 1995 Auger			DW-02 SB-2	DW-03 SB-3	Building #1
Casi Bori Surf	ng Diam ng Deptl ace Elev.	eter: \: :		Length: Well De MP: MP Elev	pth:		Type: Boring Depth	ze: Diam.:≈2 to GW:N	2.0"I.D.	_	NOTES:	Building #	3
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli		scription/Soil Texture, Struc		ation	Sample #		Lao Samp.#
- 1 - - 2 - - 3 -			. The state of the										<u>-</u>
<b>- 4 -</b> <b>-</b> 5 <b>-</b>						Tan, o	lry, very fin	ne to fine SAN	D.				VOC, SVOC, PCB, Metals
<b>-</b> 6 <b>-</b>							1 was collec	cted using a h	-	r	·		Metals
- 8 - - 9 -						from t	he bottom o	of the drywell	·				
-10 - -11 -													
-12 - -13 -	į				_								
-14 - -15 -													
<b>-</b> 16													
- 18- - 19-													-
-20 -													
-21 -22	-			:									
-23 - -24 -													
(1) 140 LI (2) 300 LI	s for Blowc B. HAMME B. HAMME E HAMME	ER ER	Sandp	nite Seal	Well Scre	en 😤	to Geologic S Till Clay Silty Clay	ymbols Silt Silty Silty Silty Silty Si	and	Sand Grav	· .		(Fine-Grain) (Coarse-Grain)

	· · · · · · · · · · · · · · · · · · ·								
DR	ILLING	G LO	G for W	ell#: S	B-2	ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114	ITE MAP Bı	uilding #2	
Project: Raytheon, Wayland Client: Raytheon Company Drilling Co.: T & K Drilling Date Started: 20 October 1995 Location: Wayland, MA Screen Diameter: Length Casing Diameter: Length Boring Depth: 14.5' Well I						By: C. McKenna/C. Frate ller: Kevin & Alan e Finished: 20 October 1995 lling Method: 4.25" Hollow Stem Auger Slot Size:	DW-02 SB-2		Building #1
Suri	ace Elev.		14.5	_ Well De _ MP: MP Elev		Depth to GW: ≈15'	NOTES: Standa ampling with	ard two foo 140lb hamr	t split spoon ner.
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				4-5 3-3	15"	Tan, dry, very fine to fine SAND.	S - 1 .5' - 2.5' 9:10AM	0.0	
- 3 - - 4 -	,			2 - 4 4 - 7	12"	Top 6" - Tan, dry, very fine to fine SAND. Piece of clay pipe at 3'.  Bottom 5" - Dark brown, dry, fine to medium SAND trace Silt - fill.	S - 2 2.5' - 4.5' 9:15AM	0.0	РСВ
- 5 - - 6 -		:		12 - 10 9 - 16	18"	Top 8" - Dark brown, dry, fine to med. SAND with trace SIlt - fill.  Bottom 10" - Light brown SILT, trace Clay, trace fine Sand, damp to wet.	S - 3 4.5' - 6.5' 9:20AM	0.0	
- 7 - - 8 -				17 - 16 16 - 15	20"	Tan, dry, very fine to fine SAND.	S - 4 6.5' - 8.5' 9:25AM	0.0	
- 9 - -10 -				8 - 14 14 - 16		Tan, dry, very fine to fine SAND.	S - 5 8.5' - 10.5' 9:30AM	0.0	
11 12				23 - 14 16 - 15		Tan, dry, very fine to fine SAND.  Bottom 3" - wet	S - 6 10.5' - 12.5' 9:35AM	0.0	
- 13 - - 14 -						<del></del>			
15 16		į							_
-17 -									
- 18 - - 19 -									
20 <b></b>						<u></u>			
-21 - -22 -						<del></del>			_
-23 - -24 -									
(1) 140 (2) 300	es for Blowe LB. HAMM LB. HAMM DE HAMME	ER ER	Sand	nite Seal	∃w	Key to Geologic Symbols   Silt   Sand   Sand   Silt   Sand   Sand   Silt   Sand   Sa			(Fine-Grain) (Coarse-Grain

DR	ILLING	G LO	G for W	ell#: S	B-3		ERM	ERM-NEV 205 PORTL BOSTON, I	W ENGLANI AND STREET MA 02114	O, INC.	SIT	E MAP Bui	lding #2	1
Project: Raytheon, Wayland Client: Raytheon Company Drilling Co.: T & K Drilling Date Started: 20 October 1995 Location: Wayland, MA Screen Diameter: Length: Casing Diameter: Length:						By: ller: e Finis lling M	mber: 1 C. McK Kevin & hed: 20 ( lethod: 4.	43.40 enna/C. Fr Alan October 199 25" Hollow ot Size:	rate 95 7 Stem Auge			DW-02 SB-2	DW-03 SB-3	DW-04 SB-4 Building #1
Bori	ng Depth	1:	14.5'	Well De	nth:		Ro	pe: ring Diam.	:4.25"I.D	<u> </u>	L		uilding #3	
Suri	ace Elev.:			_ MP: MP Elev			De	pth to GW			N sa	OTES: Stand impling with	ard two foo 140lb hami	t split spoon ner.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.				on/Soil Classi e, Structures)			Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
, - 1 —									drywell,DW-	-03, at				
<b>–</b> 2 <b>–</b>							6' below	ground surf	ace.					
<b>-</b> 3 <b>-</b>														
- 4 - - 5 -														
- 6 -						<del></del>	Ton 6" Doub	hanna ta bi		UT1				
7 -			:	2 - 6 7 - 8	22"		day; damp.	prown to br	ack, mix of SI	ILI, sand	&c	S - 1 6' - 8'	2.1	PCB, Pest. VOC, —— SVOC
8 -				0 10		T	an, very fine	to fine SANI	D. drv	<u></u>	$\dashv$		0.0	3VCC
<b>-</b> 9 -				8 - 10 10 - 12	20"		,,		-,, .			S - 2 8' - 10'	0.0	
<b>-</b> 10														,
-11 - -12 -														
<b>–</b> 13 <b>–</b>														
-14 -	ļ													
-15-						_								
<b>—</b> 16 <b>—</b>														
-17 -				<u> </u> 										
18-						_								
<b>-</b> 19 <b>-</b>														
-20 -						_					·			
<b>—</b> 21 <b>—</b>														
<b>-</b> 22 <b>-</b>														
<b>-</b> 23 <b>-</b>			:											
<b>-24</b> -														
(1) 140 (2) 300	es for Blowe LB. HAMMI LB. HAMMI DE HAMME	ER ER	Sand	nite Seal	∃w	ell Screei ement		<b></b>	Silt Silty Sand Sand	Sa O G () Fi	ravel	Gravel 🐰		(Fine-Grain) (Coarse-Grain)

<u> </u>							· · · · · · · · · · · · · · · · · · ·					
DR	ILLING	G LO	G for W	ell#: S	B-4 ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114					TE MAP Buil	ding #2	
Project: Raytheon, Wayland Client: Raytheon Company Drilling Co.: T & K Drilling Date Started: 20 October 1995 Location: Wayland, MA Screen Diameter: Length Casing Diameter: Length						g By:C Iller:Ke re Finished:_ Illing Method		SB-2	SB-3 [	Building #1		
Bori	ng Depth	:	14.5'	Well De	pth:		. Boring Diam.:		11-			
Suri	ace Elev.			_ MP: MP Elev	:		Depth to GW:	<u>≈15'</u>	s	NOTES: Standa ampling with	rd two fool 140lb hamn	t split spoon ner.
Depth	Well Log	Graphic Log		Blowcounts per 6 inches	Rec.	Spli	it Spoon Description/ (Color,Texture, S		1	Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1 - - 2 -			,				ing started at the botto below ground surface		'-04,			
<b>-</b> 3 <b>-</b>			·	:								_
- 4 - - 5 -				1 - 1 1 - 1	15"	_	Black cinders, asphal 13" - Tan, dry, very fi			S - 1 3.5' - 5.5'	0.0	·
- 6 - - 7 -				1 - 1 1 - 1	18"	Tan, dr	ry, very fine SAND.			S - 2 5.5' - 7.5'	0.0	
- 8 - - 9 -				4 - 8 4 - 3	20"	SAND,	' - alternating layers of tan, dry. 2" - Gray-brown SILT	-	e	S - 3 7.5' - 9.5'	0.0	_
-10 - -11 -				3 - 5 5 - 8	16"	l	ATED, fine brown SA on staining in alternat		n	S - 4 9.5' - 11.5'	0.0	_
-12 - -13 -				6 - 6 8 - 7	15"	oxidatio	Fine brown saturated on in alternating layers 7" - Gray-brown CLA	s.	iron	S - 5 11.5' - 13.5'	0.0	
-14 - -15 -												_
16-												
-17 -												_
18-	-											-
19-	1											
-20-	1					<del> </del>						_
-21 -	-					<del> </del>						-
-22-	-					<u> </u>						-
-23 -	-					<u> -</u>						
-24 -	_							,				-
(1) 140 (2) 300	tes for Blow LB. HAMM LB. HAMM DE HAMMI	ER ER	Sand	onite Seal	∄"	ell Screen	Clay	Silty Sand		y Gravel	20	(Fine-Grain) (Coarse-Grain)

DR	ILLIN	G LO	G for W	ell#: S	<b>B-</b> 5	ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114	1
Project: Raytheon, Wayland Client: Raytheon Company Drilling Co.: T & K Drilling Date Started: 20 October 1995 Location: Wayland, MA Screen Diameter: Length Casing Diameter: Length Boring Depth: 14.5' Well Do Surface Elev.: MP: MP Ele						By: C. McKenna/C. Frate    C. McKenna/C. Frate	plit spoon
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.		ab Samp.# & Anal.
- 1 - - 2 -			_	10 - 14 8 - 9	15"	Dark brown, fine-medium SAND; trace coarse sand; S - 1 1.2 trace silt; dry. 12:20 0.0	
- 3 - - 4 -				6 - 6 9 - 17	19"	Dark brown, fine-medium SAND; trace coarse sand; trace silt; dry.  Mid 4" - Tan fine SAND.  S - 2 2.5' - 4.5' 12:25  0.0	-
- 5 - - 6 -				5 - 6 9 - 13	14"	Medium brown fine SAND; moist at top.  Mid 4" - very coarse SAND to fine SAND with trace gravel.  S - 3 4.5' - 6.5' 12:30 0.0	
- 7 - - 8 -				18 - 8 19 - 22	15"	M id 6" - fine-med SAND with some coarse sand.  6.5' - 8.5'	PCB, Total Metals
- 9 - -10 -				13 - 18 19 - 28	12"	Very poorly sorted mix of fine SAND to fine gravel.  Damp; dark brown.  S - 5 8.5' - 10.5' 12:40 0.0	
-11 - -12 -	ļ			26 - 24 22 - 24	22"	Top 2" - v-poorly sorted mix of fine SAND-fine gravel.  Next 8" - Very fine tan SAND. Next 8" - Clayey SILT.  Bottom 4" - Medium brown SAND.  12:45	
- 13 - -14 -				13 - 18 21 - 22	19"	Top 6" - Brown SILT.  Bottom 13" - Tan, fine SAND, minor layering  S - 7 12.5' - 14.5' 12:50 0.0	
- 15 - - 16 -							
-17 - -18 -							<u>-</u>
19-							
-20 - -21 -							
-22	l						_
-23 - -24 -							
(1) 140 (2) 300	tes for Blow LB. HAMM LB. HAMM DE HAMMI	ER ER	Sand	nite Seal	∃w	Key to Geologic Symbols   ell Screen	ine-Grain) Coarse-Grain)

DR	ILLING	G LO	G for W	ell #: S	В-6	5	ERM-1 205 PO ERM BOSTO	NEW ENGLAND, RTLAND STREET	INC. SI	TE MAP E	Building #	3	A
Clie Dril Date Loca Scre Cas	nt: ling Co.:_e Started:_ ation: en Diame ing Diame	Raythe T & 20 Wayleter: eter:		995 Length:	Log Dri Da Dri	ller:Ke te Finished:	McKenna/Cevin & Alan 20 October: 4.25" Hol Slot Size:_ Type:_	. Frate	-	Courtyard Buildin	SB-6	RId	-
Suri	ace Elev.:							GW: ≈16.5'	NC sar	OTES: Standa npling with 1	rd two foot 40lb hamm	t split spoo er.	n
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Descri (Color,Tex	ption/Soil Classifi ture, Structures)	ication	Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp & Anal.	
- 1 - - 2 -				4 - 6 5 - 6	15"	Dark bro	wn medium S	AND; damp; little	coarse	S - 1 .5' - 2.5' 11:30	0.0	-	
- 3 - - 4 -				4 - 6 7 - 8	18"	sand. Bottom 1	6" - Very fine t	ed. SAND, damp; o fine tan SAND;	dry.	S - 2 2.5' - 4.5' 11:35	0.0		
<b>-</b> 5 <b>-</b>				3 - 6 8 - 11	15"	Mid 4" - 9 Bottom 9	Clayey silt. )" - Medium br	ND; damp; little o	coarse sand.	S - 3 4.5' - 6.5' 11:40	0.0	•	
- 7 - - 8 -			:	24 - 20 18 - 21	12"	Fine to m		SAND, little silt.		S - 4 6.5' - 8.5' 11:45	0.0	•	
- 9 - - 10 -				6 - 10	15"	brown cl	ay.	SAND. Dry, pocke		S - 5 8.5' - 10.5' 11:50	0.0	TPH-81	.00
-11 - -12 -				22 - 18 19 - 16	18"	sand.  Bottom 1	2" - Varved ve	ed. SAND; damp; ry fine and fine SA ed. SAND; damp;	AND. Dry.	S - 6 10.5' - 12.5 11:55 S - 7	0.0	•	
13 14				12 - 14 12 - 14		sand.		ry fine and fine SA		12.5' - 14.5' 12:00	0.0		
- 15 - - 16 -					,						ļ		
<b>-</b> 17 -		:	: :										
- 18 - 19													
-20-						_							
<b>—</b> 21 <b>—</b>													
-22 - -23 -													
-23 - -24 -													
(1) 140 t (2) 300 t	es for Blowd LB. HAMMI LB. HAMMI DE HAMME	ER ER	Sand	nite Seal	<b>∃</b> w	ell Screen	to Geologic Sym Till Clay Silty Clay	bols Silt Silty Sand	Sandy Gravel			(Fine-Grai (Coarse-G	

			·							
DR	ILLING	G LO	G for W	ell#: S	B-8	ERM-NEW ENGLAND, INC. 205 PORTLAND STREET			I	SITE MAP
<u> </u>			n. Waylan			ect Number: 143.40		S.	B-8	—Curb
Clie	nt:	Raythe	on Compa	nv	Log	By: C. McKenna/C. Frate	Bu	ilding	"\ <u>~</u>	DW-05
			K Drilling October 1			ler: <u>Kevin &amp; Alan</u> e Finished: <u>20 October 1995</u>	#1	С		ין פ
Loca	tion:	_Wavl	and, MA		Dri	ling Method: 4.25" Hollow Stem Auger				SB-8A
L Cas	ing Diamo	eter:		I enoth:		Slot Size: Type:	1			
Bori	ng Depth	:	14.5'	Well De	nth•	Boring Diam.: 4.25"I.D.  Depth to GW: ≈18'	NC	TES: Standa		
				MP Elev	<b>7.:</b>	Depurto Gw:≈16	san	npling with 1	40lb hamm	er.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Split Spoon Description/Soil Classification (Color, Texture, Structures)		Sample #	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
								1	initial/2 hr	
- 1 - - 2 -						<del></del>				
- 2 - - 3 -										
<b>-</b> 4										
- 5 <b>-</b>				.55		Top 8" - Dark brown slimy muck with bright greer	$\overline{}$	S - 1	0.0	PCB;Pest.
<b>-</b> 6 <b>-</b> -				1 - 1	15"	material (Cu or Ni?)  Bottom 7" - Iron oxidized mediumSAND.	•	4.5' - 6.5' 13:30		VOC; Tot. Metals
<b>-</b> 7-				4 - 4		Fine-medium brown SAND. Some iron oxidation		S-2	0.0	PCB;
<b>-</b> 8-				7 - 8	14"	staining present.		6.5' - 8.5' 13:40	10.6	Total Metals——
9-				11 - 13		Fine to coarse Brown SAND; damp.		S-3	0.0	PCB;
-10				15 - 19	14"	<del>-</del>		8.5' - 10.5" 13:50		Total Metals ——
-11-				13 - 21	14"	Fine to medium varved SAND; tan; damp.		S - 4	0.0	PCB; SV <u>OC</u> Total
<b>—</b> 12 <b>—</b>				22 - 26	14			10.5' - 12.5 13:55		Metals —
13 —				9 - 19	1 411	Fine to medium varved SAND; tan; damp.		S - 5 12.5' - 14.5	0.0	
-14 -				17 - 24	14"			14:00	0.0	
<b>-</b> 15-						<del></del>				
<b>-</b> 16						<del>_</del>				
-17 -						<b>—</b>				
- 18 - - 19 -						_				
20-								:		
21 -										
-22 -										
<b>—</b> 23 —						,				
-24 -										
L	( 5)		Key to Wel	l Constructio	<u> </u>	Key to Geologic Symbols				
(1) 140 l (2) 300 l	es for Blowd LB. HAMMI LB. HAMMI DE HAMME	ER ER	Sand	oack E	∃w	ell Screen 🚰 Tiil 🔀 Silt 🔀 Sa	ravel	Gravel 🏻	<u>~</u>	(Fine-Grain) (Coarse-Grain)

DR	ILLING	G LO	G for W	ell#: S	B-8	BA	ERM-NEW ENGL 205 PORTLAND STR ERM BOSTON, MA 02114	REET				SITE MAP
Proj	ect: F	Raytheo	n. Waylan	d	Pro	ject Number						——Curb
Clie	nt:	Raythe	n. Waylan on Compa	ıny	Log	g By:C	. McKenna/C. Frate evin & Alan			ilding	10	DW-05
Date	Started:	20	K Drilling October 1	995	Da	te Finished:	20 October 1995		# 1	C		
Loca	tion:	Wayl	and MA		De	lling Mathod	l. 4 25" Hollow Cham A	luger				SB-8A
Casi	ing Diame	eter:		Length: Length:		ming Method	Slot Size:	<del></del>				
וגטעו	TIK DEDUI	L•	14.0	wellbe	ntn:		Boring Diam.: <u>4.25</u>	<u>::1.D.</u>	NO	TES: Standa	rd two-foo	split-spoon
			***************************************	MP Elev	<b>'.:</b>		Depth to GW: <u>≈18</u>	; <u> </u>	san	npling with 1	40lb hamm	er.
Denth	Well Log	Graphic	General	Blowcounts	Rec.	Spli	it Spoon Description/Soil C	Classification	$\overline{\exists}$	Sample #	PID conc.	Lab Samp.#
Depar	Well Log	Log	Stratigraphy	per 6 inches	Rec.	-	(Color, Texture, Structu			& Depth	(ppm) initial/2 hr	& Anal.
<b>–</b> 1 –				4 - 14			- FILL - cinders/asphalt			S-1	22 /	
				6-7	12"	1	9" - Brown fine SAND and	medium grav	el;	0.5' - 2.5'	0.0	
<b>–</b> 2 <b>–</b>						dry.				14:20	31.2	
<b>-</b> 3 -				8-5	12"		, fine to medium SAND; dr	y.		S - 2 2.5' - 4.5'	0.0	-
- 4 -				4 - 4	12					14:25	15.2	•
<b>–</b> 5 <b>–</b>				2 - 2			•			S-3		noni a
<b>-</b> 6 <b>-</b>				1-2	13"	Same a	s above.			4.5' - 6.5'	0.0	PCB's & Total
					_					14:30 S - 4	0.0	Metals
7 —				7-8	1 <b>4</b> "	Same a	s above; damp.			5 - 4 6.5' - 8.5'	0.0	
<b>–</b> 8 –				10 - 10		<del></del>				14:35	0.0	-
<b>-</b> 9 <b>-</b>				5-7		Same a	s above; damp.			S-5	0.0	PCB's &
<b>—</b> 10 <b>—</b>				7-9	18"	<b>_</b>	•			8.5' - 10.5' 14:40		Total Metals
-11 -						Sama a	as above dome			S-6		Ivietais
				13 - 15	20'		s above; damp. n 10" - layering evident.			10.5' - 12.5		
<b>—</b> 12 <b>—</b>				16 - 29	_					14:45	0.0	
<b>-</b> 13 <b>-</b>				18 - 18		Same a	s above.			S - 7 12.5' - 14.5	0.0	
<b>—</b> 14 <b>—</b>				20 - 22	1 <i>7</i> "	<b>—</b>				14:50	0.0	_
<b>—</b> 15 <b>—</b>			ļ									
16—										:		
	]											
-17 -												
- 18												
19—						<b>—</b>						
<b>–</b> 20 <b>–</b>						<u></u>						_
<b>—</b> 21 <b>—</b>												
<b>—</b> 22 <b>—</b>	1											
<b>-</b> 23 <b>-</b>												
<b>–</b> 24 <b>–</b>	j					<b></b>				:		
Footnot	es for Blowe	counts	يئسسم	Il Constructio			to Geologic Symbols	[67] -			<u>ا</u> م	
(2) 300	LB. HAM <b>M</b> LB. HAM <b>M</b>	ER	Sand Bento	pack E onite Seal [7		ell Screen 🚡	Till Silt Clay Silty Sa	Sa nd <b>汉</b> G	ndy ( ravel		29	(Fine-Grain) (Coarse-Grain)
(3) SLIE	ЭЕ НАММЕ	ER	Grou	_	ے لد		Silty Clay Sand	na Earlo Fi		ř.	4 ~ uick	(~mare-otalli)

			<del> </del>				- EDM	NEW ENGLAND	, n <sub>i</sub>			SITE MAP
DR	ILLIN	G LO	G for W	ell#: S	B-9		205 PC	-NEW ENGLANI DRTLAND STREET DN, MA 02114	D, INC.			SITE MAP
Proj	ect:]	Raythed	on. Waylan	d	Pro	ect Number:	143.40			DI41.00		
Clie	nt:	Rayth	eon Compa	ınv	Log	By:C	. McKenna		_	DW-08		
						ler: <u> </u>		100=		SB-9	Building	#3
								1995		SB-9		
Scre	en Diam	vvayı	land, MA	I an ath.	Dru	iing Method	: Hand At	ıger				
Casi	ing Diam	eter:		Lengun;			Slot Size:		•			
Bori	ng Deptl	า:		Well De	oth:		Boring Di	am : ~2 0"I D	-			
Surf	ace Elev.	•		_ MP:	T		Depth to	am.: <u>≈2.0"I.D</u> GW: <u>NM</u>	— II	NOTES:		
				MP Elev	7.:							
D	*** ***	Graphic	General	Blowcounts		Spli	t Spoon Descr	iption/Soil Classi	fication	Sample #	PID conc.	Lab Carra #
Depth	Well Log	Log	General Stratigraphy	per 6 inches	Rec.	-1-		(ture, Structures)		& Depth	(	Lab Samp.# & Anal.
<b>├</b> 1 <b>-</b>												
<b> </b> 2 -												
3 -		1	,									
<b>-</b> 4 -					<b> </b>	Tan. d	rv. verv fine t	o fine SAND, wel	1 sorted	İ		VOC,
						2 42.7 4	-y, rory 11110 t	, mic 01111D, Wei	i soi tea.			SVOC, PCB,
<b>-</b> 5 <b>-</b>			İ									Metals
6 -			Ì									
						Note:						
<b>-</b> 7-								ed using a hand			•	_
L。J						auger	from the botto	m drywell #8				
8-												
9 -												
+												
10						***************************************				ŀ		
-11-												
1.												
12	:									ŀ		
<b>-</b> 13 <b>-</b>		1	1			<del></del>						-
-14 -		Ì										
		•			1							
15-												-
16-					l							
$\Gamma$		ŀ	ĺ		Ιſ							
17 -												
											1	
18-												
19-				, :	<u> </u>							
20 —			1			_			,		1	_
_												
-21 -	i											
-22-			1									
<b>—23</b> —					-							-
L,_											-	
-24 -											_L_	
Footpots	s for Blowe	Counte	Key to Well	Construction		Key	to Geologic Sym					
(1) 140 L	B. HAMMI	ER	Sandp	ack	<b>∃</b> We	l Screen	Till	Silt		-	💥 Bedrock	(Fine-Grain)
(2) 300 L (3) St ID	B. HAMMI E HAMME	£R R	Bento	nite Seal	Cer	nent	Clay	Silty Sand	Grav	rel	Bedrock (	(Coarse-Grain)
,-, - <del></del> -	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	-•	Grout	_		<b>E</b>	Silty Clay	Sand	Fill	•	_	
							•					

DRI	LLING LC	G for W	ell#: N	1W	-10	ERM-N 205 POI ERM BOSTO	NEW ENGLA RTLAND STREI N, MA 02114	ND, INC. ET	N —	-> [	SITE MAP
Clien Drilli Date Locat Scree Casir Borir	ng Co.: T & Started: 2	eon Compa k K Drilling 1 December land. MA 2"	1995 Length: Length:	Log Dri Dat Dri pth:	ller: <u>Ke</u> e Finished:	D'Agostino evin & Alan 21 Decembe : 4.25" Holl Slot Size: Type:	ow Stem Au		Raytheon Driveway  OTES: Standa impling with 1	50' Storage c	56'  X  A  Ontainers  split-spoon er.
Depth	Well Log Graphic	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Descrip (Color,Text	otión/Soil Cla ture, Structure		Sample #	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1 2 3										articar) 2 tu	
5-			10 - 24 23 - 24	12"	odor, no stair	n, v-fine SANE ning, dry. Top 3 derately packed	3" -dense. Ne	gravel; no xt 3" - loose.	S - 1 4' - 6' 10:35AM	0.0	
- 7 - - 8 -			9 - 20 20 - 17	12'	some gravel, area of moist	-brown, fine-ma , few cobbles(3/ t sand ≈6"; no o	'4"), tightly pa dor; no stainii	acked; ng; dry.	S - 2 6' - 8' 10:45AM	0.2	РСВ
- 9 - - 10 -			9 - 14 10 - 6	15"	gravel, poor s Bottom 11" - I gravel, poor s	t brown, very fi sorting, no odo: Brown, coarse-: sorting, no odo:	r, no stain, dry ned SAND & r or stain, dry.	/. silt with some	S - 3 8' - 10" 10:50AM	0.0	
-11 -12			5 - 13 9 - 12	14	odor, no sta Bottom 5" - trace gravel	k brown SANE ining. Top 4" - Dark brown ve ; wet- saturated	dry; bottom 5 ry fine sand & ; no odor, no	" - moist. t SILT, some cla staining.	10' - 12' 10:55AM	0.0	
- 13 -14			12 - 13 6 - 8	12"	saturated; no very fine SIL	y, med-coarse S o odor, no staini .T, CLAY & san anics (almost a	ing. Bottom d, some areas	6" - Brown-blac of gray clay;	12' - 14'	0.0 54.6	
15 16 17					Well	specifications:	Screen: Sand: Bentonite: Sand & grout	18'-8' 18'-7' 7'-5'			
- 18 - - 19 -							Dana & grou	. 3-0			
-20-											_
-21 - -22 -											
-23 - -24 -											
Footnote (1) 140 L (2) 300 L	es for Blowcounts B. HAMMER B. HAMMER E HAMMER	Sand	onite Seal	<b>∄</b> ′	Key Vell Screen &	y to Geologic Sym Till Clay Silty Clay	bols Silt Silty Sand	Sand d <b>P</b> Grav	_		(Fine-Grain) (Coarse-Grain

DR	ILLIN	G LO	G for W	ell#: N	1W	-11	ERM-1 205 PO ERM BOSTO	NEW ENGLAN RTLAND STREE N. MA 02114	ND, INC.		٦ •	SB-20● UST	SITE MAP
Clier Drill Date Loca	nt: ing Co.:_ Started:_ tion:	Raythe T & 21 Wayl	LDecember and. MA	ny : 1995	Log Dri Dat Dri	ject Number: 3 By: I.] ller: Ke re Finished: lling Method: 10'	143.40 D'Agostino vin & Alan 21 Decemb 4.25" Hol	er 1995 low Stem Au	ger	SB-2	<b>© ©</b> W-18 MW-1	22 <b>8</b> S MW-11	B-16
Casi	ng Diame	eter:		Lengtn:_ _ Length:			Slot Size:_ Type:		- 1		<del></del>		
Bori	ng Depth	:	25'	Well De	pth:_	25'	Boring Dia	m.: <u>4.25"I</u> .	D.		ding #4	●sp	
Surr	ace Elev.			_ MP: MP Elev			Depth to C	GW: <u>      ≈17′                              </u>		NOT sam	TES: Standar pling with 1	rd two-foot 40lb hamm	split-spoon er.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Split	Spoon Descri (Color,Tex	ption/Soil Clas ture, Structure	ssification s)		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1				10 11		Black for	OIGAS born o	& Silt with grav			S - 1		
- 3 - - 4 -				12 - 11 8 - 6	10"	poorly so places; dr	rted; petrol od	or, visible stair	ning in		2 - 4' 12:50	11.4	_
- 6 - - 7 -				11 - 51/6	4"	Black, oil s	soaked, coarse	SAND & Silt v	vith gravel,	very	S - 2	50.2	
- 8 -		•		24 - 33	4						6' - 8' 1:10	31.3	
-10 -11				4 - 12	14"	Top 1" - Black oil soaked, dr with gravel &	y. Mid 7" - Gr	ey med-coarse	SAND & sil	lt	S - 3 10' - 12"-	16.9	
-12 -13				15 - 16		3" Gray sand	& silt with son	ne gravel, satur	rated with o	il.	2:10	36.6	
-14 -15 -16				11 - 14 22 - 23	20"	saturated no oil but	with very sticl entire spoon o	ND, Silt & Cla ky oil (#6?); son ontains visible ve but coarser	ne areas con contaminat	ntain	S - 4 14 - 16' 2:20	91.6	TPH-81 <u>00</u> VOC 8260
-17 - -18 -						Top 18" - Bla	ick oil saturate	d fine-med. SA	ND Silt &	Clay			_
- 19 - - 20 -				14 - 15 19 - 21	22'	areas of gray Bottom 4" - 0	/ clay; oil soak	ed throughout T & clay with	spoon.	1	S - 5 18' - 20' 2:30	41.6 95.8	_
-21 - -22 -				14 20		Top 20" -	Medium-coars	e brown SANI	O & Silt; no		S - 6	62 /	_
-23 - -24 -				14 - 28 29 - 30	24"	evidence saturated	of staining pre	sent; no gravel Brown, very fi	; well sorted	d ilt	22' - 24' 2:45	6.2	
(1) 140 l (2) 300 l	es for Blow LB. HAMM LB. HAMM DE HAMME	ER ER	Sand	nite Seal	∄w	ell Screen &	to Geologic Sym Till Clay Silty Clay	bols Silt Silty Sand Sand		indy G ravel ill			(Fine-Grain) (Coarse-Grain)

								• • • • • • • • • • • • • • • • • • • •					
DR	ILLING	G LO	G for W	ell #: S	B-1	2	ERM-N 205 POR ERM BOSTON	IEW ENGLAN TLAND STREE N, MA 02114	ID, INC. I				SITE MAP
Proje	ect: F	Caytheo	n, Waylan	d	Pro	ject Number:	143.40				B	ldg #6a	<i>T</i>
Clie	nt:	Raythe	on Compa	iny		By:	D'Agostino			SB	·12 ×	7	N
			K Drilling				evin & Alan	004		1	Sidewalk		
	: Started: tion:		B January 1 and. MA	996		te Finished:_ lling Method	23 January 1	.996 ow Stem Aug	_		jg		
		eter:	ailu. MA	Length:	DII	ining Method	Slot Size:		er		"		1 1
Casi	ng Diamo	eter:		Lenoth:			Type:		-		Bı	uilding #6	
Bori	ng Depth	ı:	<u> 17 </u>	_ Well De	pth:		Boring Dias	n.: 4.25"I.I	<del>)</del> .	_		manig #0	
Surf	ace Elev.:	<u> </u>		_ MP:			Depth to G			NC	OTES: Standa	rd two-foot	split-spoon
				MP Elev	<b>7.:</b>					sar	npling with 1	401b hamm	er.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Descrip (Color,Text	tion/Soil Clas ure, Structures			Sample # & Depth	PID conc. (ppm) trittal/2 hr	Lab Samp.# & Anal.
- 1						Asphal	t and frost						
				9 - 13			ark brown-blac			i	S-1	0.0	
- 2 -				12 - 11	3"		ome gravel, poo				1' - 3'		$\dashv$
3 -						Bottom 2	' - Light brown -	same materia	l. 		8:55AM	0.0	
			1			14" - Ligh	t brown, fine SA	ND and Silt, r	o gravel or		S-2	0.0	
- 4				5-7 6-8	14"	cobbles, w	vell sorted(all sa	nd & silt), no c	odor, no sta	in,	3' - 5'	0.0	
				0-0		dry.					9:05 AM	0.0	
<b>-</b> 5 -						15" - Ligh	t brown, V-fine	SAND and Sile	t, no gravel	or	S-3	0.0	
- 6				5-6	15"	cobbles, w	vell sorted, no o	dor, no stain, v	vet on		5' - <b>7</b> '	0.0	
				7 - 18		outside of	spoon, moist o	n inside of san	nple.		9:10AM	0.0	
<b>-7</b>						OW T !- 1.4		AND 16%			S-4	/	
- 8 -				16 - 18	9"		brown, V-fine S cobbles, not we				7"-9'	0.0	
				10 - 42		dry.			,	,	9:15AM	0.0	
<b>-</b> 9-				<del></del>						_			
_10 _	,			10 - 12			it brown, fine SA nd, trace gravel,				S-5	0.0	l l
_10_				18 - 21	23"	stain, dry		wen sorteu, it	0 0001, 180		9' - 11" 9:25AM	<b>/</b>	
-11 -					-	77. Of T	· · · · · · · · · · · · · · · · · · ·	CAND - 101			ļ	0.0	
		ļ		22 - 26		l	own, fine-coarse el, poor sorting,			e	S - 6 11' - 13'	0.0	l l
<b>—</b> 12 <b>—</b>		l		30 - 34	16"	Bottom 8" -	Brown, coarse S	AND and Silt	with		9:30AM		
<b>-</b> 13 <b>-</b> -			İ				gravel, poorly so					0.0	
				22 - 20			ight brown, me			with	S-7	2.5	TDI I 9100
-14 -		1		19 - 21	13"		oorly sorted, no " - Light brown			-11	13' - 15'	/	TPH-8100 VOC 8260
		[	l	., -:	į		hesive, no odor				9:40AM	0.0	VOC 0200
<b>-15</b>				6 - 16	ı	16" - Ligl	ht brown-browr	, V-fine SAND	and Silt		5-8	0.0	
<del>-</del> 16				18 - 20	16"		clay, no gravel,				15' - 17'		
l						staining,	wet-saturated(i	n the water tal	oie).		9:50AM	0.0	
17					Π						1		
<del></del> 18 <del></del>				ĺ	1	N	lotes:						
		•	1		1			set at this locat	tion				
<b>-</b> 19 <b>-</b>							Water ta	ble at ≈16'-17'			1		
<b></b> 20 <b></b>						<b>_</b>							
						1							
<b>—21 —</b>						<del></del>							
-22 -		i				<u></u>							
						1							
<b>–</b> 23 <b>–</b>						<b>—</b>							
L,, .			1										_ <b> </b>
-24			<u> </u>	<u></u>									
Footnot	es for Blow	counts		ll Construction	_		to Geologic Symb		N/CI		_	·	
(1) 140 [	.B. HAMM	ER	Sand	pack E	∄w	ell Screen	Till	Silt			Gravel 🖁		(Fine-Grain)
	LB. HAMM E HAMME		Bento	onite Seal	<b>7</b> ] c	ement 📕	Clay	Silty Sand	ည္သြင		ı 🛭	Bedrock	(Coarse-Grain)
			Grou	ıt		**	Silty Clay	Sand	[] Fi	11			

-

DR	ILLING	G LO	G for W	ell#: N	1W	-13	205	M-NEW ENGLA PORTLAND STR TON, MA 02114			SB-21	UST	SITE MAP
Clier Drill Date Loca	nt: ing Co.:_ Started:_ tion:	Raythe T & 23 Wayla	n. Waylan on Compa K Drilling January 1 and. MA	996	Log Dri Dat Dri	ller: <u> </u>	D'Agostino evin & Alar 23 Janua 4 25" H		uger	SB-2	S S W-18 MW-1	22 <b>6</b> Si MW-11	8-16 <b>⊗</b> N MW-19
Scre Casi Bori	en Diame ng Diame ng Depth	eter: eter: ::	2"	Length:_ Length:_ Well De	pth:	22'	Slot Size Type: Boring I	:015" Diam.:4.25' D GW:≈17'	'I.D.	MW Bui NO	lding #4 TES: Standar	SB-15 SB rd two-foot 40lb hamm	split-spoon
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Des (Color,T	cription/Soil C exture, Structu	lassification res)		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1 - - 2 - - 3 -				19 - 15 12 - 10	14"	fine gravel,	k brown, me no odor or st vith silt and	t & Frost d-coarse SANE ain, dry. Next med sand. Bott	2" - Coarse SA	AND	S - 1 1' - 3' 11:05AM	- 342	
- 4 - - 5 -													
- 6 - 7				4 - 7 13 - 11	15"		and ≈1" thick	SAND and Silt throughout, w		odor	S - 2 5' - 7' 11:10AM	430	
- 8 - - 9 -						Top 6" - Lig	ht brown, V	fine SAND & S	ilt, well sorte	d,	S-3		
-10 - -11 -		•	·	3 - 19 21 - 13	12"	fine-med SA	AND & Silt w	obble at 6". Ne trace coarse s D & Silt. no od	and. Bottom	3" -	9' - 11' 11:15AM	424	
-12 - -13 -				12 - 18				med-coarse SA			S - 4		
14 15				21 - 28	18"	brown-da		r stain. damp. E AND & Silt, we 1" wet.		.ight	13' - 15' 11:25AM	408	
- 16 - - 17 -						Ton 6" Li	-lat haras 6	CANID ¢ C'				ļ.,	
- 18 - 19				8 - 12 11 - 16	18"	well sorted	l, saturated.	ine SAND & Sil Next 6" - Same 6" - Same as top	as above but		S - 5 - 17' - 19' 11:40AM	354	_
-20 <b>-</b>													_
-22 - -23 -						_							
<b>-24 -</b>			Key to Wa	1 Constructio		Kan	to Geologic S	umbole					
(1) 140 I (2) 300 I	es for Blowe LB. HAMMI LB. HAMMI DE HAMME	ER ER	Sand	pack E	<u></u> w	ell Screen	Till Clay	Silt Silty Sar Sand	550	ravel	Gravel 🐰		(Fine-Grain) (Coarse-Grain)

											-		
DR	ILLING	G LO	G for W	'ell#: S	B-1	4	ERM-N 205 POI ERM BOSTO	NEW ENGLAND RTLAND STREET N, MA 02114	O, INC.	_	SB-2	SB-20 UST	SITE MAP
Proj	ect: F	Raythec	n, Waylan	d	Pro	ject Number:_	143.40			SB-2		22 <b>63</b> S	B-16
Clies Drill	nt: ling Co	Raythe	eon Compa K Drilling	iny	Log	g By: <u>I. I</u> ller: <u>Ke</u> v	D'Agostino		l	l	_	MW-11	MW-19
Date	: Started:_	23	3 January 1	996	Da	te Finished:	23 January	1996		М	<b>® ®</b> W-18 MW-1	7 SB-14	<u>L.</u>
Loca	ition:	Wavl	and. MA		Dri	lling Method:	4 25" Hall	ow Stem Auge	er_	ø			l
Casi	ng Diame	eter:		Length: Length:			Slot Size:			MW	′-13 	SB-15	
Bori	ng Depth	ı: <u> </u>	1'	_ Well De	pth:		Boring Dia	m.: 4.25"I.D			lding #4	●sB	
Surr	ace Elev.:			_ MP: MP Elev			Depth to G	W:		NO sam	TES: Standa pling with 1	rd two-foot 40lb hamm	t split-spoon er
						2.11				느			
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec	Split		otion/Soil Classi ure, Structures)	fication		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
<b>-</b> 1 <b>-</b>										_	-		
2 —				30 - 44	17"			d-coarse SAND		vith	S - 1 1' - 3'	0.0	
				<b>47</b> - 55	17	gravel, v-po	oorly sorted, n	o odor or stain, o	dry.	1	1:05PM	310	
<b>-</b> 3				17 - 38		12" - Brow	n, med-coarse	SAND, Silt and	gravel, w	ith	S - 2		
- 4 -			!	35 - 40	12"	rock flour	from cobbles,	loose and uncon			3' - 5'	0.0	
<b>–</b> 5 <b>–</b>			ļ			poor sortin	ng, no odor or	stain, dry.		_	1:45PM	280	
<b>-</b> 6 <b>-</b>				22 - 39	12"	12" - Browr	n, med-coarse	SAND, Silt and §	gravel, loo	se,	S - 3 5' <i>- 7</i> '	0.0	
7	!			20 - 29		poorly sort	ed, no odor or	stain, dry; back	fill(?)		2:05PM	300	
				11 - 17				oarse SAND and			S - 4	0.0	
8 -				26 - 19	10"	gravel, poo in end of sp		se, dry; v-small	pocket of	oil	7' - 9' 2:15PM	270	
<b>-</b> 9				15 - 24		In one or of	70011			$\dashv$	S-5		
<b></b> 10 <b></b>				27 - 21	2"	2" - Rock	fragments cov	ered in oil; no sa	and or silt.		9' - 11'	0.0	
-11-											2:25PM	/ -	
<b>—</b> 12 <b>—</b>													
13-													
<b>—</b> 14 <b>—</b>													
<b>—</b> 15 —													-
<b>-</b> 16-						<u> </u>							
<b>—</b> 17 <b>—</b>													
- 18													
<b>—</b> 19 <b>—</b>						<u> </u>							
<b>–</b> 20 <b>–</b>													
21													
<b>—</b> 22 <b>—</b>													
<b>-</b> 23 <b>-</b> -													
<b>-</b> 24 <b>-</b>													
(1) 140 L	es for Blowd B. HAMMI	ER	Sand	_	∃w	ell Screen 🔯 🤅	o Geologic Symb Till	ols Silt			Gravel 🔯	_	(Fine-Grain)
	B. HAMMI E HAMME		Bento Grou	nite Seal	<b>∆</b> C	=	Clay Silty Clay	Silty Sand Sand	Gr Gr	avel 1		Bedrock	(Coarse-Grain)
			CIOU!			<b>—</b>	citty Clay	Dog variu	التا انضا	•			

DR	ILLING	G LO	G for W	'ell#: S	B-1	.5	ERM-N 205 POF ERM BOSTON	IEW ENGLAN TLAND STREE N, MA 02114	ND, INC. T		SB-21	SB-20 ● UST	SITE MAP
Proj	ect:F	Raythec	n. Wavlan	d	Pro	iect Number	r: 143.40			L	<b>a</b> l		B-16
Clie	nt:	Raythe	eon Compa	ny	Log	By:I	r: 143.40 . D'Agostino evin & Alan			SB-	25	MW-11	<b>⊗ N</b> MW- 9
Drill	ing Co.:_	T&	K Drilling	<u> </u>	Dri	ller: <u>K</u>	evin & Alan			1.	<b>&amp; &amp;</b> IW-18 MW-1		
Date	: Started:_	23	3 Ianuary 1	996	Dat	e Finished:	24 January 1	996		M	IW-18 MW-1	7 SB-14	느
Loca	ition:	<u>Wayl</u>	and, MA		Dri	lling Method	d: 4.25" Holl	ow Stem Aug	ger	Ø	)	•	
Scre	en Diame	eter:		Length:			Slot Size:		_	MV	V-13	SB-15	
Casi	ng Diami	eter:	1771	_ Length:			_ Tvpe:			Bui	ilding #4	●sB	-23
Surf	ng Depun	·:	1/	. Well De	pth: <sub>-</sub>		<ul> <li>Boring Dia</li> </ul>	n.: <u>4.25"I.</u>	D				
Juii	ace Liev	· <del></del>		MP: MP Elev			Depth to G	W: <u>≈17'</u>		NC san	TES: Standar	rd two-foot 401h hamm	: split-spoon
<u> </u>				MIL Flex	<u>.:</u>						Aparta with 1	TOID MAININ	er.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spl	it Spoon Descrip (Color,Text	tion/Soil Clas ure, Structures	ssification s)		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
<b>-</b> 1							Asphalt a	nd frost.					
				20 15							S-1	0.0	
<b>├</b> 2 <b>─</b>				20 - 15	12"		t brown-brown,			lt	1' - 3'		
				6-6		with trace	e fine gravel, loos	se, no odor, no	stain dry.		2:50PM	250	
<b>-</b> 3 -						2" - Brown	n, fine-med SAN	ID and Cite	th trace	$\dashv$			
<b>L</b> , _				7-7	2"		n, nne-med SAN nd, loose, dry.			. ]	S - 2	0.0	1
$\Gamma^*$				6-5	-	gravel in		Wo Charks of	Coarse		3' - 5'	842	
<b>-</b> 5 -				<u> </u>							2:55PM	0-12	
							Brown, fine-coars				S-3	0.0	
<b>–</b> 6 <b>–</b>				5-6	12"		ose and unconso " - Fine-med SAI				5' - 7'		
				4 - 4			mogeneous, no c			arse	3:05PM	607	j ,
7 -											C 4		
L。_				13 - 7			wn, fine-med SA			arse	S - 4	0.0	1
8 -				8 - 16	16"	-sand and	fine gravel, loos	e no odor or s	tain, dry.		7' - 9'	/	
<b>-</b> 9 <b>-</b>											3:10 PM	290	
				10.10			Brown, fine-coar			aces	S-5	8.4	
10-			Ì	18 - 18	16"	fine grave	el, loose, dry. So	me oil in top 1	[0".		9' - 11'		
			ļ	17 - 14		w/trace	" - Black, sticky o coarse sand; silt a	nd clay in no	SAIND and	SILI	3:20PM	1036	l .
-11 -								-	-	- 7		/	
_12 _				5 - 7	4.50	l .	ck, oil saturated f vel and cobbles,				S-6	104	
				14 - 15	17"	certain p		pockets of off	visible in		11' - 13'		
<b>-</b> 13 <b>-</b>					<u> </u>						11:15AM	<del>1</del> 67	
				10 - 10	l		Gray-black, fine			ted,	S - 7	38.2	
14 —				15 - 25	16"		ent oil saturated " - Brown, fine S				13' - 15'		i →
ļ _							nation, wet.	AND and Sm,	no visible		11:25AM	251	1
15				6 - 12			own, fine-med SA	ND and Cile	no marral -		S - 8	11.1	
<b>-</b> 16-				15 - 19	15"		homogeneous, s			1	15' - 17'	14.4	
"				10-19	"		6	The state of the s			11:35AM	11.6	
<b>—</b> 17 <b>—</b>				<del> </del>	-	<b></b>						Y	
		1										/	
18-			1			<del> </del>						/	-
19-												$\vee$	
1,5								-					
20 —						<u> </u>							
ŀ													
21 —						<del></del>							<b>∣</b> ⊢
												1	
-22 -	1				1							1	
<b>-</b> 23 <b>-</b>			1								1		
			-									1	
-24													
				<u> </u>			·				<u> </u>	<u> </u>	
<u>Foot</u> not	es for Blow	counts		ll Constructio			y to Geologic Symb						
(1) 140 1	JB. HAMM	ER	Sand	pack E	₫W	ell Screen	Till	Silt	Sa Sa	andy (	Gravel 🎇	Bedrock	(Fine-Grain)
(4) 500 l	LB. HAMM! DE HAMME	EK R	Bento	onite Seal		ement	Clay	Silty Sand	🎇 G	ravel		Bedrock	(Coarse-Grain)
(-) -011	T TENTANTALE		Grou	 it	_	<u> </u>	Silty Clay	Sand	Fi			_	
						تت ا	<b>_</b> //	-					

Drilli Date Locat Scree Casir Borir Surfa	ing Co.:_ Started:_ tion: en Diame	T &	eon Compa K Drilling	nv			143.40			●SB-		B-16
Date Locat Scree Casir Borir Surfa	Started:_ tion: en Diame	23	K Drilling	<del></del>	Log	g By:	D'Agostino		SB	-23	MW-11	M
Locat Scree Casir Borir Surfa	tion: n Diame	Wavl	2 Tanua 1	004	Dri	ller: Ke		26		<b>Ø Ø</b> MW-18 MW-	17 SB-14	
Casir Borir Surfa	en Diame		and. MÅ		Dri	te Finished: Illing Method	: 4.25" Hollov	v Stem Auger	Ш		_	
Borir Surfa	ng Diamo ng Depth	eter:		Lenoth:			Slot Size	- Tuget		<b>0</b> W-13	SB-15	
Surra	12 176010	eter:	7'	_ Length:			Type:		Bu	——— ⊢ ıilding #4	●sB	-23
	ce Elev.:	!• :		_ Well De MP∙	pth:		Boring Diam. Depth to GW	: 4.25"I.D.		OTES: Standa		
Depth				MP Elev	7.:		Depin to GW	≈1/	sa	mpling with 1	40lb hamm	er.
لـنـــا	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Description (Color,Textur	on/Soil Classificatior e, Structures)		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab &z
											uuda, 21u	
				4 - 2		10" - Bro	wn, fine-med SA	ND and Silt with trac	-	S-1	0.0	
2 —				5 - 8	10"	1		o odor or stain, dry.	_	1' - 3'		
- 3 -										3:40PM	155	
				4-5		Top 4" - B	Brown, fine-med S	AND and Silt with to odor or stain, dry.	ace	S - 2	0.0	
4-				21 - 12	7"	Bottom 3'	" - V-dark brown,	fine-med SAND and	Silt	3' - 5'		
5 —					-			ht odor, no stain, dry		3:50PM	280	
6 -				4-6	9"			aturated, fine-med S	AND	S-3	11.6	
~ 7				8 - 4		and Silt v	vith trace gravel, <sub>]</sub>	petroleum odor.		5' - 7' 4:05PM	250	
7 -										4.001 101	250	
<b>⊢</b> 8 <b>−</b>												
			ļ							1		İ
10												
L <sub>11</sub>												
1												
12												
13												
14				]								ĺ
14						<u> </u>						
15		]										
16-												
17						_						
18						<u> </u>						
<b>-</b> 19 <b>-</b>												
		1										
20											1	
21 —		-										
_22_										}		
"			1									
<b>—</b> 23 —												
-24 -												
			Key to Wa	I Construction	<u></u>	V	to Geologic Symbol					<u> </u>
	s for Blowe B. HAMM		Sand	_		'ell Screen	Till		Sandy	Gravel 🔯	Bedrock	(Fine

DR	ILLING LO	G for W	ell#: N	1W	-17	ERM-NEW ENG 205 PORTLAND S' ERM BOSTON, MA 0211	TREET		SB-21	B-20 ● UST	SITE MAP
Proje	ct: <u>Raytheo</u>	n. Wavlan	d	Pro	ject Number:	143.40			CP 7	نه ا	3-16
Clier	ect: Raytheo	on Compa	ny	Log	ś By:	D'Agostino		SB-25	<u> </u>	MW-11	<b>Q</b>   <b>N</b> MW-19
Drill	ing Co.: &	K Drilling		Dri	ller: <u>K</u> e	evin & Alan		MV	<b>Ø Ø</b> V-18 MW-1	7 SR 14	Î
Date	Started: 23	lanuary 1	996	Dat	te Finished:	23 January 1996	·	1414	4-10 14144-1	/ 30-14	느
Scre	en Diameter:	and. MA	T 11-	Drı	lling Method	: 4.25" Hollow Stem		Ø		SB-15	l
Casi	ng Diameter:		. Length:			Slot Size:		MW-	-13		
Bori	ng Diameter: ng Depth:	25'	Well De	pth:	25'	Type:Boring Diam.:4.2	25"I D	Buile	ding #4	●sB	-23
Surf	ace Elev.:		_ MP:	· · · ·		Depth to GW:≈1	7	NOT	ES: Standar	d two-foot	split-spoon
			MP Elev	<b>′</b> .:		1		samp	oling with 14	101b hamm	er. 1
Depth	Well Log Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli	t Spoon Description/Soil (Color,Texture, Struc			Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
1						Asphalt and frost				addat/21d	
$\lceil \cdot \rceil$	2 2				8" - Brown	n-gray, fine SAND and Si	lt with gravel.		S-1		
<b>-</b> 2 -			13 - 35	8"	cobbles ar	nd associated rock flour, i	no odor or stain,	,	1' - 3'	0.0	
			41 - 44		poor sorti	ng, dry.			7:45AM	37.7	
<b>-</b> 3 <b>-</b>					16" - Brow	vn-gray, fine-coarse SAN	Dand Cilk with	$\neg +$	S - 2	7 37.11	
<del>-</del> ₄ -			14 - 29	16"	coarse gr	avel, cobbles and rock flo	ur, no odor or st	tain	3' - 5'	1.6	
			19 - 33		poor sort		•	1	7:50AM	114	
<b>-</b> 5 <b>-</b>					11" D	C.A.N.	D 10% W			111	
$L_{a}J$			18 - 25	11"		n-gray, fine-coarse SAN gravel and no cobbles, no			S - 3	4.5	
$\Gamma$ $^{\circ}$ $\neg$			16 - 14	11	poor sorti	ng, dry.	odor or stant,	ł	5' - 7' 8:05AM	103	
<b>-</b> 7 -									0:U3AWI	103	
			4-8		14" - Brov	vn, fine-med SAND and S	Silt with trace co	arse	S - 4	16	
8			9-13	15"	sand and	fine gravel, no odor or st of spoon) fine-med SANE	ain, moist-damp	).	7' - 9'		_
<b>-</b> 9 <b>-</b>						-		ikey.	8:15AM	103	
			11 - 19			rown fine-med SAND an r-black, fine-med SAND a			S-5	22	Hanby =
10			23 - 21	14"	gravel, sa	turated with oil in places	and clean in oth	hers	9' - 11'		>1000ppm
-11-					(≈1" sectio	ons), dry.			8:25AM	29.5	>1000ррш
			10 14			lack, oil saturated, fine Sa	AND and Silt		S-6	18.5	
<b>—</b> 12 <b>—</b>			10 - 14 11 - 15	12"	with trace Bottom 5"	- Same as above with 2-1	" lavers of fine		11' - 13'	10.5	
L,,_			11-13			pottom 1" and mid 1"	,		10:15AM	/-	
13 —			22 - 19		Top 5" - C	Gray, fine SAND and Silt,	saturated w/oil	i.	S-7	22	
14 —			17 - 23	22"		Gray, fine SAND, Silt and		d	13' - 15'	/	
			1, 2			Bottom 11" - Gray, fine-navel, saturated with oil.	ned SAIND and		10:25AM	/ -	
15			4.46			ay, fine SAND, Silt and C	lay, saturated		C 0		
16-			4 - 16 22 - 19	22"		xcept mid 6" has areas w		ot	S - 8 15' - 17'	34	
			22 - 19	1	permeate.		NID 1 City -1.	.	10:50AM	<b>/</b> -	
17 -				<del>                                     </del>		" - Brown-gray, v-fine SA		an.			
- 18		1	9-14	22"		Gray, fine SAND and Silt		1	S - 9 17' - 19'	- /	
10			21 - 24			ades into bottom 10" - Bro lean, no odor or stain, sat			17 - 19 11:05AM	/ .	
<b>-</b> 19				<del> </del>		****			S - 10	/	
_20-			14 - 13	24"	i .	wn, fine SAND and Silt, i	no odor or		5 - 10 19' - 21'	- /	
20			16 - 26	24"	Stairt, Sat	urated with water.			11:20AM		
-21 -				_	<u> </u>						
22 —					<b>—</b>						
-23					<u> </u>						
-24 -					<del>-</del>			ļ			
	( D)	Key to Wel	ll Constructio	n	Kev	to Geologic Symbols				L	
	es for Blowcounts B. HAMMER	Sand			ell Screen	Till Silt	Sa	indy G	ravel 🎇	Bedrock	(Fine-Grain)
(2) 300 L	.B. HAMMER	Bento	nite Seal	<u>∃</u> c	ement	Clay Silty S	Sand G	ravel	K	<del>-</del>	(Coarse-Grain)
(0) 0610	E HAMMER	Grou	•••	_		Silty Clay Sand	Pi		LX		
					-	, , ,	٠٠ اسم				

DRILL	ING LO	G for W	ell#: N	1W	-18	ERM- 205 PC ERM BOSTO	NEW ENGLAN PRTLAND STREET DN, MA 02114	D, INC.		SB-21	B-20 ● UST	SITE MAP
Client: Drilling ( Date Star Location	Co.: <u>T &amp;</u> rted: <u>24</u> : Wavl	eon Compa : K Drilling 4 January 1 and, MA	996	Log Dri Dat Dri	ller:Ko te Finished:_ lling Method	D'Agostino evin & Alan 24 January 1 4 25" Ho	low Stem Aug		<b>∞</b>	SB-2 SB-2 SB-2 V-18 MW-1	2 <b>6</b> Si MW-11	B-16
Casing D	nameter: Diameter:		Length:_ Length:		10'	Slot Size:_		-	MW-	<del></del>	SB-15	
boring L	Pepth: Elev.:	25	Well De	pth:_	25'	Boring Di	am.: <u>4.25"I.I</u>	<u> </u>		ding #4	●sB	
Surface i	elev.:		_ MP: MP Elev	 '.:	<del> </del>	Depth to 0	GW: <u>≈17'</u>		NOT samp	ES: Standar oling with 14	d two-foot 101b hamm	split-spoon er.
Depth Well	Log Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli		ption/Soil Class ture, Structures			Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1 - 2 3 4 5 6 6			16 - 24 22 - 14	9"	9" - Brow coarse sa	n-gray, fine-m	ed SAND and Si and cobbles, po	ilt with trac	ee , no	S-1 5'-7'	2	
7-			6 - 9		odor or s Top 6" - B	tain, dry. rown, fine-coa	rse SAND and S	ilt with trac		8:55AM S - 2	199	
- 8 <b>-</b> 9 -			14 - 14	18"	Bottom 12 homogen	2" - Brown, fine eous, no odor o	SAND and Silt			7' - 9' 9:05AM	278	
-10-		;	10 - 14 20 - 25	16"	clay and Bottom 8	gravel, no odo: ' - Brown, fine-	or stain, damp. med SAND and odor or stain, di	l Silt w/ tra	ļ	S - 3 9' - 11' 9:10AM	6 341	_
-12 - -13 -			11 - 21 20 - 28	20"	Top 6" - Lt. odor or sta trace coars	-brown, v-fine in, damp. Nex e SAND, well s	SAND, Silt and t 10" - Brown, m orted, grades in clay, no odor or	trace clay, red. SAND rto bottom 4	w/ 4" -	S - 4 11' - 13' 9:15AM	4.6	_
<b>-</b> 14 <b>-</b>			18 - 20 26 - 28	1 <i>7</i> "	homogei		ID, Silt and trace or stain, moist- y, wet.		,	S - 5 13' - 15' 9:20AM	25.2	
<b>-</b> 16			17 - 21 19 - 20	1 <i>7</i> "	17" - Bro —— odor or s	wn, fine-med S stain, homoger	AND, Silt and t eous, saturated	race clay, n with water		S - 6 15' - 17' 9:30AM	6.4	
- 18 - 19			19 - 13 21 - 23	22'	odor or		SAND, silt and the same of the		10	S - 7 17' - 19' 9:40AM	5.2 330	
-20-												_
21												
<b>-</b> 22 <b>-</b> - □												
<b>—</b> 23 <b>—</b>												
-24 -												
Footnotes for (1) 140 LB. H. (2) 300 LB. H. (3) SLIDE HA	AMMER AMMER	Sand	onite Seal	] w	Key ell Screen	Clay	ibols Silt Silty Sand	=	ndy G avel	ravel 🎇	<b>-</b>	(Fine-Grain) (Coarse-Grain)

DRI	LLIN	G LO	G for W	ell#: N	1W	-19	ERM-1 205 PO ERM BOSTO	NEW ENGLAND RTLAND STREET N, MA 02114	), INC.		SB-20 UST	SITE MAP
Clien Drilli Date	it: ng Co.:_ Started:_	Raythe T & 24	on Compa K Drilling January 1	ny 996	Log Dril Dat	e Finished:	D'Agostino evin & Alan 24 Ianuary	1996		SB-25 SB-25 MW-18 MW-18	22 <b>6</b> Si MW-11	B-16 <b>Q</b> N MW-19
Scree	non: en Diame	vvayla eter:	and. MA 2"	Length:	Dri	lling Method 10'	1: <u>4.25" Hol</u> Slot Size:	low Stem Auge	- 11	<b>Ø</b> MW-13	SB-15	
Borir	ng Diain ng Depth	eter:	25'	. Length: Well De	nth:	25'	. Type: Boring Dis	ım.: 4.25" <u>I</u> .D.	_    	Building #4	●sB	
	ice Liev.			MP Elev	'.:		. Depth to C	SW: <u>≈17'</u>		NOTES: Standa sampling with 1	rd two-foot 40lb hamm	: split-spoon er.
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Spli		ption/Soil Classi ture, Structures)	fication	Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
<b>-</b> 1 -							18" - Concrete a	nd 1" steel rebar.				
- 2 - - 3 - - 4 -							tings - Brown S de loading dod	and and gravel, b	backfill			
- 5 - - 6 -			,	8 - 41 58	5"	5" - Brow cobbles,	unsorted, loose	AND and Silt with , no odor or stair	h gravel ar n, dry.	nd S-1 5'-6.5' 2:00PM	0.0	
<b>-</b> 7 <b>-</b> - 8 -				8 - 77 60	6"		Augered throown, fine-coarse or stain, unsor	e SAND and Silt, ted, dry.	with grav	el, S - 2 7' - 8.5' 2:15PM	0.0	
<b>-</b> 9 <b>-</b>				11 - 11 24 - 38	13"	gravel an	y-black, med-co	parse SAND and soaked throughou			48 370	
11 12 13				15 - 29 16 - 18	9"	6" - Brov		n same interval) SAND and Silt w	rith gravel,	S - 4 11' - 13' 2:40PM	6.4	_
-14 - -15 -				11 - 24 28 - 29	17"	Next 2" - 0 up cobble	Clean, gray fine	ted, med. SAND SAND and Silt v ray-black, fine Sa	with1" bro	S - 5 ken 13' - 15' 2:50PM	43 363	
16 17				6 - 13 24 - 28	18"		ack oil saturated no clay, damp.	I, fine SAND and	l Silt, no	S - 6 15' - 17' 3:00PM	470	
- 18 - 19				14 - 15 28 - 24	19"	Bottom		rated, fine SANE wn, SILTY-Clay v damp.		S - 7 17' - 19' 3:10PM	267	
-20 <b>-</b>				None Taken	20"			and silt with som ous, saturated w		S - 8 19' - 21' 3:20PM	190	
-22 - -23 - -24 -												
(1) 140 L (2) 300 L	es for Blow B. HAMM B. HAMM E HAMMI	ER ER	Sand	nite Seal	∃w	ell Screen 🔐 ement	y to Geologic Sym Till Clay Silty Clay	bols Silt Silty Sand Sand		avel [		(Fine-Grain) (Coarse-Grain)

Proje	ect:F	Caythec	n. Wavlan	d	Pro	ject Number: 143.40	Н ,	SB-21	l ci	B-16
Clier	nt:	Raythe	eon Compa	nv	Loc	By: I. D'Agostino	SB-	25	MW-11	MW- 9
Drilli	ing Co.:_	Geo	ologic		Dri	ller: Chirs & Tom e Finished: 25 January 1996	Ш,	<b>&amp; &amp;</b> IW-18 MW-1		
Date	Started:	747 - 1	January 1	996	Dat	e Finished: 25 January 1996	"	144-10 [6[44-]	(/ 3D-14	L
Loca Scree	non: en Diame	<u>vyayı</u>	and, MA	I onoth.	Dri	lling Method: 2.25" Hollow Stem Auger Slot Size:	) g	<b>)</b> V-13	SB-15	
Casi	ng Diam	eter:		Length:		Slot Size:	I⊩	<del></del> 1.		
Borir	ng Depth	ı:		. Well De	pth:	Type:	Bu	ilding #4	●sB	-23
Surfa	ace Elev.	·		_ MP:		Depth to GW:	NC	TES: Standa	rd two-foot	split-spo
				MP Elev	7.:	-	san	npling with 1	40lb hamm	er.
epth	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 Sam & Anal
				14 17		13" - Brown, fine-med SAND and Silt with trace gr	avel	S-1	4.4	
1				14 - 17 19 - 23	15"	and wood, no odor or stain, dry. 2" - Light brown, v-fine SAND, Silt and Clay(silty-	clav)	.5' - 2.5'	**/	
2				17 20		No odor or stain, dry.		8:45AM	0.0	
ĺ				14 - 22		Top 6" - Light brown, v-fine SAND and Silt with li	tle o	S-2	0.0	
3				26	16"	no clay, no odor or stain, dry.  Bottom 10" - Brown, fine-med. SAND and Silt with	trac		"/	
4				<u> </u>		coarse sand, no odor or stain, dry.	urac	8:50AM	0.0	
* 7				6-9		Top 4" - Light brown, med. SAND and Silt with to	ace	S-3	0.0	
5 —				14 - 33	18"	coarse sand, no odor or stain, dry. Next 12" - Lt. brown v-fine SAND and Silt, no odor or stain, dry	,	4' - 6'	"/	
6			1			Bottom 2" - Fine-coarse SAND, Silt and gravel.	<i>ا</i> ٠	9:15AM	0.0	
-				102 -		5" - Brown-gray, fine-coarse SAND and Silt with		S-4	0.0	
7-				102 -	5"	gravel; loose, unconsolidated and poorly sorted, areas of oil stained sand and gravel(cohesive		6' - 8'		
8				130, 2.0		masses), not saturated.		9:20AM	0.0	
°				144 - 95	14'	14" - Gray, fine-coarse SAND and gravel with son	ne ·	S-5		
9			}	72 -	14	silt(mainly gravel), pockets of oil throughout spor not liquid but cohesive.(Last 18" driven with 3001	on,	8' - 10'		
10				50/2.5"		hammer.)	,	11:15AM	316	
									<u> </u>	
11		1								
12										
7										
13 —						<del></del>				
,, ]										
14										
15					1	<del>-</del>			1	
14_										
16										
17						<del> </del>				
.										
18										
19-						<b></b>				
<u>,</u>										
20 -						<del></del>				1
21 —										]
									:	
22 —						<del> </del>				
23 —										
_										
24 —						<del></del>				
			Key to We	I Il Construction	on.	Key to Geologic Symbols		<u> </u>	I	
	es for Blow B. HAMM		Sand	_				Gravel 🎇	त्रा	(Fine-Gra

DR	ILLIN	G LO	G for W	ell#: S	B-2	:1	ERM BOSTO	NEW ENGLANI RTLAND STREET N, MA 02114	D, INC.		٦ •	SB-20 UST	SITE MAP
Proi	oct: I	Pavthor	n Wardan	d	D=-	ioot Niemba-					SB-2		B-16   7
Clies	<u></u> 	Raveh	eon Compo	ansz	In	ject Number:	143.40 D'Agastina		—	SB-2	5 <b>●</b> SB-	22 0	B-16
Drill	ing Co	Сол	ologic	ацу		ller: <u> </u>	L'Agostino		— 1	·		MW-11	MW-19
Date	Started	<u></u>	Tanuare 1	996	D	ner:	25 Tanara	1996		M	<b>Ø                                     </b>	17 SB-14	
Loca	tion	Wayl	and MA	.220	Dai	le riiusiteu: lling Mathod	Cooperate	1996	<del></del>				
Scre	en Diame	ter.	aria. Ma	Longth	ווט		. Geoprobi	<u> </u>		Ø	. 10	SB-15	
Casi	ng Diam	eter:		Lengui.			Slot Size:_			MW	-13 		
Bori	ne Denth		8'	Lengui.	nsh.		l ype:	m.:2"		Buil	ding #4	●sB	-23
Surf	ace Elev			_ Well De	pui.		Boring Dia	im.: 2"				1	
				MP Elev	, .		Depth to C	SW:		sam	1 ES: Standa pling with 1	rd two-toot 40lb hamm	t split-spoon er
				WII LIE	· · ·							TOTO HULLING	
Donah	Well Log	Graphic	General	Blowcounts		Spli	Spoon Descri	otion/Soil Class	ification	T	Sample #	PID conc.	Lab Samp.#
Depin	well Log	Log	Stratigraphy	per 6 inches	Kec.	•		ture, Structures)			& Depth	(ppm) initial/2 hr	& Anal.
						Concrete						nuuai/21u	
_ 1 _						Top 6" - Lis	tht brown, v-fi	ne SAND and Si	lt.	$\dashv$	S-1	100	
1				$\times$	18"	Mid 6" - Br	, fine-med SA1	ND & Silt, trace o	oarse sand	<u>1</u> .	0.5' - 2'	192	
2 —			1	$\leq$	Ш	Bot. 6" - Br	v-fine SAND,	Silt & clay, trace	coarse sa	nd.	12:15	52.2	
				_	ł Ì	Top 9" - Bi	rown, v-fine Sz	ND, Silt and tra	ice clay, no	o	S - 2	[ Z	
<b>-</b> 3 <b>-</b> -					18"	odor or sta	ain, damp.	_	,		2' - 4'	0.0	<b>│</b>
				$/\!\!\!/\!$	``	Bottom 9"	- Light brown	fine-med. SANI	D and Silt,	no	12:30	82	
- 4 -			1		H	odor or sta	un, dry.					<u>/ ~ ]</u>	
				$\mathbb{N}$		2" - Light	brown, fine-m	ed SAND and Si	ilt, no odo	r	S-3	- /	
<b>–</b> 5 –				X	2"	or stain, o			10 000	1	4' - 6'	/	
						ŕ					12:35	217	
6-						Rock b	it used to brea	k through refusa	1.	-+			
L								ed SAND and Si		$\neg$	S - 4		
7 -				$\times$	2"			ed SAIND and Si	it, ioose, n	10	6.7' - 8'		
8 -						odor or st	ain, dry.				1:30	<b>/</b> -	
9 _													
<b>—</b> 10 <b>—</b>													
				ŀ									
-11-	·									ļ			
										1			
<b>—</b> 12 <b>—</b>						_							
												1	
<b>-</b> 13													
14													
<b>—</b> 14 <b>—</b>												1	<b>│                                    </b>
15													
<b>—</b> 15 <b>—</b>													
16-				i		<u></u>				ł			
``						_							
<b>—</b> 17 <b>—</b>					]	<u> </u>							<u> </u>
					1							· '	
<b>-</b> 18						<u> </u>							
<b>-</b> 19						<u> </u>							
												1	
<b>-20</b> -						<del></del>						ļ	
ا ا												1	
<b>—</b> 21 <b>—</b>						<del></del>						1	
		[										1	<u> </u>
<b>—</b> 22 —												1	<u> </u>
						L				l			[ <b> </b>
<b>—</b> 23 <b>—</b>										1			
-24										-			
4.T													
Footnati	es for Blowe	ount:	Key to We	ll Constructio	n	Key	to Geologic Sym	bols				-	·
	B. HAMM		Sand	-		ell Screen		Silt	San	ndy C	ravel 🔯	Bedrock	(Fine-Grain)
(2) 300 L	B. HAMMI	ΞR		nite Seal	ਰੋ∽	ement	Clay	Silty Sand		avel			(Coarse-Grain)
(3) SLID	E HAMME	R		L-	<u>ب</u> د		•	=			Þ	J Deutock	(Coarse-Oraill)
			Grou	it		<b>2</b>	Silty Clay	Sand	Fil	i			

DR	ILLIN	G LO	G for W	ell#: S	B-2	ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114		¬ •	SB-20 UST	SITE MAP
Drill Date	nt: ling Co.:_ Started:	Kaythe Geo 26	eon Compa ologic 6 Ianuary 1	996	Log Dri Da	ject Number: 143.40 g By: J. D'Agostino  ller: Chirs & Tom ge Finished: 26 January 1996	!)	SB-2 -25 SB- WW-18 MW-1	22 <b>65</b> S MW-11	B-16
Scre	ition: en Diame	<u> </u>	and. MA	Longth	Dri	lling Method: 2.25" Hollow Stem Auger		<b>0</b> W-13	SB-15	
Bori Surf	ng Depth ace Elev	: :	8.5'	Lengtn: Well De	pth:	Slot Size:		ilding #4	●sB	
				MP Elev	7.:	Depth to GW:	sar	OTES: Standa mpling with 1	rd two-foo 40lb hamm	t split-spoon ier.
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										
<u> </u>				:		<del>_</del>			9	
<b>–</b> 3 <b>–</b>						<del>_</del>				-
- 4				9 - 14		9" - Brown, fine-med SAND and Silt with trace co	arse	S - 1	65	
<b>-</b> 5 <b>-</b>				11 - 3	9"	sand and fine gravel, no odor or stain, dry.		4' - 6' 8:00AM	<i>_</i>	
- 6 - - 7 -				8 - 11	5"	5" - Brown, fine-med SAND and silt, with some coarse sand and fine gravel, one cobble, no odor o	r	S - 2	62.3	
- 8 -				37 - 52	5	stain, damp		6' - 8' 8:05AM	/-	
<b>-</b> 9 <b>-</b>						Refusal encountered at 8.5'				
<b>—</b> 10 <b>—</b>										
11										
<b>—</b> 12 —						_				
<b>-</b> 13						<u></u>				_
<b>—</b> 14 <b>—</b>	ı					_				_
<b>-</b> 15 -						_				
<b>-</b> 16-						_		:		
- 17 - - 18 -	•									
<b>-</b> 19 <b>-</b>										
-20 -										
<b>-</b> 21 <b>-</b>		:								
-22 -										
-23 -										
<b>-</b> 24 -				ļ		<u> </u>				
(1) 140 L (2) 300 L	s for Blowc B. HAMNIE B. HAMNIE E HAMMEI	R R	Sandp	Construction ack nite Seal	₽w€	Key to Geologic Symbols     Screen	ravel	Gravel 🔯	_	(Fine-Grain) (Coarse-Grain)

DR	II I INI	GIO	G for W	പി #- ഭ		2	ERM-N	IEW ENGLANI	D, INC.		SB-20●	SITE MAP
Proj Clie Dril Date Loca Scre Cas Bor	ect:F nt: ling Co.:_ e Started: ation: en Diame ing Diame ing Depth	Raythed Raythed ERI 25 Wayl eter: eter:	on, Waylan eon Compa M-New En 5 January 1 and, MA	d ny gland 996 Length: Length:	Proj Log Dril Dat Dril pth:_	ect Number:_ By:I.D ler:Kur e Finished: ling Method:	143.40  'Agostino t & John 25 January 1 Geopm Slot Size: Type: Roring Dio	N, MA 02114		SB-25 SB-25 SB-25 SB-25 MW-18 MW-1  MW-13 Building #4  NOTES: Standa sampling with 1	22 S S MW-11 17 SB-14 SB-15 SB	MW-19
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Split S		tion/Soil Class ure, Structures)		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
- 1 - - 2 -				X	22"	22" - Brown,	fine SAND an	d Silt, no odor	or stain, dry	y. S -1 0' - 2' 11:10AM	nuqai/21t	_
<b>-</b> 3 <b>-</b>				X	20"	20" - Lt. bro dry.	wn, fine SAN	D and Silt, no o	dor or stain	S - 1 2' - 4' 11:20AM		_
- 5 - - 6 -				X	20"	dry.		ID and Silt, no o		4' - 6' 11:30AM		
- 7 - - 8 -				X	20"	stain, dry. Bottom 6" - odor or stai	Lt. brown, v-l n, dry.	fine SAND and	Silt, no	6' - 8' 11:40AM		
- 9 - - 10 -				$\searrow$	20"	dry. Bottom 10" Clay, clean	- Lt brown, v , damp.	-fine SAND, SII	LT and	8' - 10' 11:50AM		_
-11 - -12 -				$\nearrow$	20"			O and Silt, clear		S - 6 10' - 12' 12:00PM		_
- 13 - - 14 -				X	20"			and Silt, clean		12' - 14' 12:10PM		
- 15 - - 16-				$\times$	20"	20" - Brown	ı, v-fine SANI	and Silt, clean	, saturated.	S - 8 14' - 16' 12:20PM		
- 17 - - 18 -						<u> </u>					i i	
<del>-</del> 19 <b>-</b>												
20 -												-
-21 - -22 -												
-23 - -24 -												
(1) 140 (2) 300	es for Blowe LB. HAMMI LB. HAMMI DE HAMME	ER ER	Sand	nite Seal	∃w	ell Screen 🔂 T ment 🔲 C	o Geologic Symb Fill Clay Bilty Clay	ools Silt Silty Sand Sand	Sand Gra	ص		(Fine-Grain) (Coarse-Grain)

Clie Dril Date Loca Scre Casi Bori	nt: ling Co.:_ e Started: ation: en Diame ing Diame ng Deptl	Raythe ERI 2! Wayl eter: eter:	eon Comp M-New En January 1 and. MA	gland 996 Length: Length: Well De	Lo Dr Da Dr	ject Number: 143.40 ject N	M Bu	SB-2 SB-25  WW-18 MW- W-13  uilding #4  OTES:	22 <b>65</b> S MW-11	M
			General Stratigraphy			Split Spoon Description/Soil Classification (Color,Texture, Structures)		Sample # & Depth	PID conc. (ppm) initial/2 hr	La
- 1				X	20"	20" - Brown, fine-med SAND, Silt & Gravel, loose, unsorted, no odor or stain, dry.		S -1 0' - 2' 2:10 PM	nuuai/21tr	
3 -				X	20"	20" - Brown-dark brown, med SAND and Gravel, poor sorting, unconsolidated, no odor or stain, dr		S - 1 2' - 4' 2:30 PM		
- 4 - - 5 - - 6 -				X	4"	4" - GRAVEL pieces and brown fine Sand, dry refusal at ≈6'.		S - 3 4' - 6' 2:40 PM		
- 7 - - 8 -						Note:  • SB-24 completed to 6' below ground surface • SB-24A was advanced inside boiler room	)			
- 9 -						sump to characterized soil below 6' bgs inside boiler room.	;			:
-11 -12						<u> </u>				
- 13 - 14										
<b>-</b> 15 <b>-</b>										
-17 - -18-	;					<del></del>				
- 19- - 20 -										
-21 - -22 -	•									
-23 - -24 -		:								
Footnote (1) 140 L	s for Blowe B. HAMME B. HAMME	R	Sandı	Construction	∄w		andy ravel	Gravel 🐰	2	

Client: Drilling Co.: Date Started: Location: Screen Diam Casing Diam Boring Deptl	Raytheon Cor ERM-New 25 Januar Wayland, M. eter: eter:	npany England y 1996 A Length: Well De	Log By Driller Date F Drillir	Number: 143.40  :	SB-21  MW-17 SB  SE  Building #4  NOTES:		SB-24A SB-24A
pth Well Log	Graphic Genera Log Stratigra	al Blowcounts phy 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 <b>-</b> 5 <b>-</b> 6 <b>-</b>		X	22"	22" - Clean, brown, fine-med SAND and Silt, well sorted, no odor or stain, dry (appears to be backfill from prior removal action.	S -1 4' - 6' 5:10 PM		
7		X	20"	Top 6" - Same as above.  Bottom 14" - Dark brown, medium SAND, Silt, Gravel and cobbles, poorly sorted, no odor or stair dry.	S - 1 6' - 8' 5:30 PM		
9		X	18"	Brown, fine-coarse SAND, Silt and Gravel, unconsolidated, poorly sorted, no odor or stain, dr	y. S-3 8'-10' 5:40 PM		
1-		X	4"	4" - Same as above. Refusal at ≈10.5'.	S - 4 10' - 10.5' 5:50 PM		
3							
4 —							
6-			-				_
8—				•			
9—							
1				•			
2 <b>–</b> 3 <b>–</b>				• •			_
4 —				· •			

•

Proje	ct:F	Raythec	n. Waylar	ıd	Proj	ect Number: 143,40 SB-21 SB-22 SB	-16 Q A
Clien	t:	Raythe	on Compa	any	Log	By: J. D'Agostino MW-11	MW- 9
Driiii Date	Started:	EKI	VI-INEW ED	giand 996	Dat	ler: Kurt & John & MW-17 SB-14	L
Locat	tion:	Wavl	and, MA		Dril	ling Method: Geoprobe	
Scree	en Diame	eter:		_ Length:		Slot Size: MW-13 SB-15	
Casir	ng Diam	eter:		_ Length:		Type	23
DOLIL	ıg Deptr	1:		_ Well De	epth:_	Boring Diam.:	
Surra	ice Elev.			MP: MP Elev	<b>7.</b> :	Depth to GW: ≈17 NOTES: Standard two-foot sampling with 140lb hamme	split-spoo r.
epth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Split Spoon Description/Soil Classification   Sample# & Depth   PID conc. (ppm)   (Color, Texture, Structures)   & Depth   initial/2 br	Lab Samp & Anal.
						Top 14" - Brown, fine-med SAND and Silt, dry. S-1	
1					20"		_
.					-	3:55PM	
2				$\langle \cdot \rangle$	1	Top 14" - Brown fine-med SAND and Silt with some	
3			1		أيرا	coarse sand, dry. Next 5" - Brown, v-fine SAND, Silt	_
-		1			24"	and clay, damp. Bottom 5" - Brown, med. SAND and	-
4				$\langle - \rangle$	╀╌┤	Silt. 4:00PM	
				$  \vee  $	5"	5" - Gray-brown, fine SAND and Silt with trace fine S - 3	
5					3"	gravel, loose, clean, dry.	•
6				$\langle \cdot \rangle$	<del>                                     </del>	4:05PM	
						5" - Brown, fine-coarse SAND and Silt with trace fine S - 4	
7				X	5"	gravel, loose and unconsolidated, dry.	•
8					igwdown	4:10PM	
				$\setminus$		Top 4" - Brown, fineSAND and Silt with trace fine S-5	
9 —			1	X	8"	gravel, no odor or stain, damp.  Bottom 4" - Brown, med-coarse SAND and Silt, clean,	-
10						damp, nose of spoon has silty clay.  4:15PM	
				$\setminus$		12" - Brown , med-coarse SAND and Silt with trace S - 6	
11				X	12"	fine gravel, clean and damp.	-
12						4:20PM	
·- ¬				$\setminus$ /		5" - Brown, fine-coarse SAND and Silt with trace fine S-7	
13 —				X	5"	gravel, med gravel in top of spoon, sweet smell, traces 12' - 14'	-
					]	of oil in bottom of spoon. 4:25PM	
14 🕇			1		1	12" - Black, oil soaked fine SAND and SILT with trace S - 8	
15				$\mid X \mid$	12"		
- 1						4:30PM	
16					1	C 0	
17						18" - Black, oil saturated v-fine SAND and Silt.  S - 9 16' - 18'	
" ]		]			18"	4:35PM	,
18		1		$\leftarrow$	<del>}</del>	Ton 2" Plack oil sected fine CANID and oils	
- 19						Next 4" - Clean brown fine SAND and silt	
19					17"	Next 7" - Black oil coated fine SAND and silt.	,
20 —				<u> </u>	4—	Bottom 3" - Clean, brown, fine SAND and silt. 4:40PM	
_,		1		1			
-21 —							
-22				1			
				1			
-23					-	<b> </b>	
_24 _							
-24 —		<u></u>					
otnot	es for Blow	counte	Key to W	ell Constructi	on	Key to Geologic Symbols	
	B. HAMM		C	lpack	<b></b>	ell Screen 🚰 Till 🔯 Silt 👺 Sandy Gravel 🔯 Bedrock	(Fine-Gra

Proj Clie	ect: <u> </u>	Raytheon	Company	d	Proje	ect Number: Bv: I.	205 PO ERM BOSTO		, INC.	0	lding #3	SITE MAP
Scre Cas Bori	ation:_ en Diame ing Diam ing Depth	Wayl eter: eter: ı: ≈20	and. MA	Length: Length: Well De	Drill	ing Method	Slot Size:_ Type:	996 Rotary nm.: 6" GW: ≈17		SB-26 Ca	Shop US	vertically, 4'
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Soil Cla		ed on inspection ( ture, Structures)	of cuttings	Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
1 -	,						Asph	alt				
2 —					-							
<b>3 –</b>					-	_						
4-					-						-	
<b>-</b> 5 -			:		-	_						
6 —					▎├			arse SAND, Silt ar evidence of petro				
7-			:					factory observation				_
8 -						-						-
9 —					-							
10-	,								,			
11 -												
12 -						Brown, fir	ne SAND, SILT	Γ and trace Grave oleum impact bas	l, clean, ed on	S-1, 10'-15'		
13							l olfactory obs	•		12:30PM		
15						_						
<b>-</b> 16-								with trace v-fine		S-2,		TPH- 8100
<b>–</b> 17 <b>–</b>						strong pet petroleum		visibly saturated	with	15'-17.5' 12:55 AM		
18						Brown SII	T and CLAY	with trace v-fine S	and slight	Ç 2		
- 19-					-	petroleum	odor, visibly	saturated with pered on end of drill	troleum.	S-3, 17.5'-20' 1:10PM		
-20 -					- -					1.107 101		
<b>—</b> 21 <b>—</b>					-	Notes:  Soils v	vere impacted	with petroleum f	rom 15' - 20'			
-22 - -23 -						below olfacto • Soils o	ground surfactory observations on end of hame	ce based upon vis ns. ner appeared clea	ual and			
-24						irom j	petroleum imp	act.				
(1) 140 I (2) 300 I	es for Blowc B. HAMME B. HAMME E HAMME	ER ER	Sandp	nite Seal	_	Screen 🔐	to Geologic Sym Till Clay Silty Clay	ools Silt Silty Sand Sand	Sandy Grave			(Fine-Grain) (Coarse-Grain)

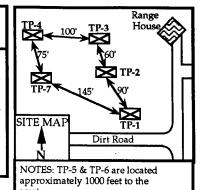
DRILLING LO	G for Well #: SB-	ERM-NEW ENGLAND, INC. 205 PORTLAND STREET BOSTON, MA 02114		SITE MAP
Project: Raytheo	n. Wayland Pi	roject Number: 143,40	η.	ilding #2
Client: Raytheor	Company Lo	og By: I. D'Agostino	DI.	uilding #3 N
Drilling Co.: Geo	ologic D	riller: Mike & Darell	1 C.	
Location: Wayle	march 1996 D	ate Finished: 22 March 1996	Ca	rpentry Shop UST
Screen Diameter	2" Longalla	Thing Metriou: Odex Air Rotary		Shop (UST)—
Casing Diameter:	6" Length: 4	15 Slot Size: .01" 10' @ 30° angle Type: Boring Diam.: 6"		
Boring Depth: <u>≈23</u>	<u>vertical</u> Well Depth	: Boring Diam.: 6"		· ·
Surface Elev.:	MP:	Depth to GW· ≈17' III'	NOTES: SB-27 puilding #3 at a	advanced 10' off
	MP Elev.:			a 30 aligie.
Depth Well Log Casing Distance	General Blowcounts Stratigraphy per 6 inches	Soil Classification based on inspection of cuttings (Color,Texture, Structures)	Sample # & Depth	PID conc. (ppm) Lab Samp.# & Anal.
L,_88 &L _J		Asphalt		
L, 20 10				
	<u> </u>	<b>—</b>		_
L131 13L _1				
L, 201 10 2		1'-11' - Brown, fine-med SAND, SILT some Gravel;		
<b>-</b> -(1) (1)		dry; clean, no evidence of petroleum impact based on visual and olfactory observations.		
I . 🛛 🖂				
<b>-6-</b>				
- 7	1			
┡╺┩╚┛┡╺				
		*		
		_		
L <sub>10</sub> = L <sub>18</sub> -				
		Brown, fine-med SAND, SILT, trace Gravel; dry; clean, no evidence of petroleum impact	S-1, 11'-13'	9-10' horizontally under building
		based on visual and olfactory observations.	1:05PM	under building
		Black, med-coarse SAND and SILT, trace gravel,		10 101 havinantallar
		damp, slight petrol odor, no visible evidence of	S-2, 13'-15'	10-12' horizontally under building
		petroleum impact.	1:35PM	
		D 11 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
<b>-</b>		Brown-black, med-coarse SAND and SILT with trace Gravel, moist, strong petroleum odor, visibly	S-3, 15'-17'	12'-15' horizontally under building
		impacted with petroleum.	1:40PM	
		Brown-black, coarse SAND and SILT, trace Gravel, damp	S-4, 17'-18'	15-17' under TPH-
		strong petroleum odor, visibly impacted with petroleum		building 81 <u>00</u>
		Brown-black, med-coarse SAND, SILT, and Gravel, moist strong petroleum odor, visibly impacted with petroleum.	S-5, 18'-19' 2:00PM	17-18' horizontally under building.
		Brown-black, fine-med SAND, SILT, and Gravel,	S-6,	18'-20' horizontally
20 - 36 -		wet, strong petroleum odor, visibly impacted with	19'-21'	under building
	·	petroleum	2:10PM	
		Brown-black, v-fine SAND, SILT, and trace gravel,	S-7	20'-23' horizontally
-22 <b> </b>   -22		wet, strong petroleum odor, visibly impacted with	21'-23'	under building
40		petroleum.	2:25 PM	
<b>├</b> -24 <b>-  </b>		<del>-</del>		
Englands (* 21	Key to Well Construction	Key to Geologic Symbols		
Footnotes for Blowcounts (1) 140 LB. HAMMER		Vell Screen 🔀 Till 🔀 Silt 🔀 Sandy	Gravel 💥	Bedrock (Fine-Grain)
(2) 300 LB. HAMMER (3) SLIDE HAMMER	Bentonite Seal	Cement Clay Silty Sand & Gravel	፟	Bedrock (Coarse-Grain)
(a) cores I II HATHATEK	Grout	Silty Clay Sand Fill		
		<del>_</del>		

						_					
DR	ILLING LO	G for We	ell#: S	B-2	8	205 P	-NEW ENGLA ORTLAND STREI ON, MA 02114	ND, INC.	Building #3		SITE MAP
Clie Dril Date Loca Scre Casi Bori	ect:Raytheon Ing Co.:Geo Started:18 Intion:Waylen Diameter: Ing Diameter: Ing Depth: ≈23 Face Elev.:	Company blogic March 1996 and. MA 2" 6"	Length:_ Length:_ Well De	Log Dril Date Dril 40 pth:_	By:I.ler:Mie Finished:ling Method:15' ' @ 30° angle	D'Agostino ike & Darel 19 March Odex A Slot Size: Type: Boring D	ir Rotary .01"		NOTES: Standa		t split-spoon
Depth	Well Log Casing Distance	General E Stratigraphy p	Blowcounts per 6 inches	Rec.	Soil Cla		sed on inspection		Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
_ 1 _	0 OL _					Cond	rete				
2 3					damp-dry;	clean with no	se SAND, SILT o evidence of pe actory observati	troleum impac	et e		
<b>-</b> 4 -	<u> </u>			F			ed at a 30° angl		f		
- 5 - - 6 -					rotai	ry techniques	hypotenuse)usi , 5' off Building#	O			
<b>-</b> 7 -	<b>)</b>		,	ŀ	carp • Petro	entry shop oleum impact	ed soils were er				_
- 8 - - 9 -				-	from	13-20' bgs					
<b>—</b> 10 <b>—</b>					Brown, med-c	oarse SAND moist. Hanb	and Gravel w/t y Test Kit = 100	trace silt, poorl	ly S-1, 10'-11' 1:45PM	Under b	
<b>-</b> 11 -					Brown-Gra	y, fine-med S	SAND, SILT and petroleum odo	d Gravel,	S-2, 11'-12' 4:00PM		zontally
<b>—</b> 12 <b>—</b>					Br-gray, n	ned SAND, S	ILT and fine Gr	avel, dry-dam		3-5' hori	izontally
—13 — —14 —					Br-Black, i sorted, mo	med-coarse S oist, visibly ir	y = >1,000ppm AND, SILT and npacted, strong	Gravel, poorly petrol odor.	y S-4, 13'-15 5:00PM	under l	izontally ouilding
<b>—</b> 15 <b>—</b>	27 -				sorted, m	oist, strong p	ith trace gravel etrol odor, visib	ly impacted	S-5, 14'-15 8:00AM	building	8100
<b>—</b> 16 <b>—</b>		<u> </u>					AND and Grave odor, visibly im		S-6, 15-16' 8:30 AM	9-11' hor under bi	rizontally uilding
<b>-</b> 17 -				_		petroleum o	e SAND and G dor, visibly imp		S-7, 16-18' 8:45 AM		orizontally ouilding
<b>—</b> 19 <b>—</b>						g petroleum o	ND and Gravel odor, visibly im		S-8, 18-20' 9:00 AM	13-15' ho under b	rizontall <u>y</u> uilding
—20 — —21 —					cuttings	appear clear	AND and Grave er but are still v rong petroleum	risibly	S-9, 20-22' 9:20 AM	15-17' ho under b	orizontally uilding
-22 - -23 - -24 -	40-				cuttings and have	appear clean	AND and Grave but are still visibleum odor. En d soils.	ibly stained	S-10, 22-24 9:35 AM		orizontally ouilding.
(1) 140 L (2) 300 L	es for Biowcounts B. HAMMER B. HAMMER E HAMMER	Key to Well of Sandpa  Bentoni  Grout	ck	Wel	Screen R	o Geologic Syn Till Clay Silty Clay	Silty Sand	Sandy Grave	r Gravel		(Fine-Grain) (Coarse-Grain)

DRILLING LOG for Well #: SB-29    ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Client: Raytheon Company   Log By: J. D'Agostino   UST   Carpentry Shop Client: Raytheon Client		SITE MAP Boiler
Project: Raytheon, Wayland Project Number: 143.40 Shop Client: Raytheon Company Log By: J. D'Agostino		Pailer
Client: Raytheon Company Log By: I. D'Agostino		
		Room
Drilling Co.: Coologie Dullon Miles & Dent	ď	
Date Started: 20 March 1996 Date Finished: 20 March 1996  Location: Wayland. MA Drilling Method: Odex Air Rotary  Screen Diameter: Length: Slot Size: Type:  Boring Depth: ~23' vertical Well Depth: Boring Diam.: 6"  Surface Elev.: Not measured MP: Depth to GW: ~17'  MP Elev.:	SB-2	
Location: Wayland, MA Drilling Method: Odex Air Rotary		
Screen Diameter: Length: Slot Size: 7		
Roring Depth: 23' vortical W-II D		
Surface Elev.: Not measured MP: Boring Diam.: 6"  NOTES: SB-29 ad	dyanood to	n foot off
MP Flev · Depth to GW: ≈17   Note: Sold and boiler room wall a		
	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
Concrete and rebar		
		_
Brown, med-coarse SAND, SILT and trace S-1, 1'-4' Gravel; dry; clean, no evidence of petroleum impact 8:15 AM		
based on visual and olfactory observations.		
Brown, med-coarse SAND, SILT and trace		
Gravel; dry; clean, no evidence of petroleum impacts to soil.  S-2, 4'-7' 9:55AM		
Brown, med-coarse SAND, SILT, some		
Gravel; dry; clean, no evidence of petroleum impacts to soil based on visual and olfactory observations.		
9 - Observations.		
Brown, med-coarse SAND, SILT and Gravel; S-4, 9'-14' dry; clean, no evidence of petroleum impacts to 3:00PM		
soil basedon visual and olfactory observations.		
Brown-black, med SAND with trace gravel and silt,		TDV 1 04 00
poorly sorted, moist, strong petroleum odor, visibly impacted with petroleum odor, visibly 3:10PM	3-5' hori:	
Brown-black, med-coarse SAND and Gravel trace	under b	
petroleum 3:25 PM	5-7' hori under b	zontally uilding
Brown-black, coarse SAND and Silt with trace S-7, 18-20' gravel, strong petroleum odor, visibly impacted in 3:35 PM	TP	H-8100
places. Two samples collected: one of relatively clean samples collected: one of relatively clean material and one from visibly contaminated soils.  3.35 FM S-8, 18'-20' 7	7'-10' hoi under b	
		_
Kay to Wall Construction   You to Coalor's Combat.		
(2) 300 LB HAMMER		Fine-Grain) Coarse-Grain)

r														
DR	ILLIN	G LO	G for W	ell#: S	B-30		ERM	205 POR	EW ENGLANI TLAND STREET V, MA 02114	D, INC.				SITE MAP
Proj	ect:]	Raythec	n. Waylar	ıd	Projec	t Numb	er: 14	3.40						. <i>†</i> I
Clie	nt: <u>Ray</u>	theon (	Company		Log B	y:	I.D'Ago	stino					Building#	13 N
Drill Date	ling Co.:_	Geo	ologic March 199		Driller	: !i: ala a d	Mike &	Darell	06			<u> </u>		<del></del>
Loca	tion:	Wavl	and MA	70	Date r Drillin	uusned o Meth	1: <u>711/</u>	larch 199	Rotary	············		(	Carpentry	
Scre	en Diam	eter:		_ Length:			Slot		NO COLOTY		0		Shop U	51
Cası	ng Diam	eter:		. Length:			Typ	e:			SB	-30	······································	
Bori	ng Depti	า: ≈23	' vertical	Well De	nth.		Bor	ing Dian	n.:6"_		17.0			
Suri	ace Elev.	:		MP: MP Elev			Dep	oth to GV	W: <u>≈17'</u>		off	TES: SB-30 a	advanced ve v shop, to a	ertically 54' depth of 20'.
				MP Elev	/.: 						L			
Depth	Well Log	Graphic Log	General Stratigraphy	Blowcounts per 6 inches	Rec.	Soil			d on inspection are, Structures)		gs	Sample # & Depth	PID conc. (ppm) initial/2 hr	Lab Samp.# & Anal.
1	3 2					-		Asphal	t					
1	N 11													
┝᠈┥	N = N	1			<del> </del>	-								-
$\lfloor \ \ \rfloor$	0 0	1				_							ļ	
$\Gamma$ $\Box$	N 10	1				•								
┝▗┥	<i>1</i> 1 <i>1</i> 1	1				-								
<b>L</b> l	0 0	1				_					l			
_ ° _	0 0	1				_								-
<b>-</b> 6 <b>-</b>	N 11				<u> </u>	<b>-</b> 1-10'	- Brown, r	ned-coars	se SAND, SILT	and trace	.			
Ŀ <b>.</b>	N = N					Grav	el; dry; cle	an, no ev	idence of petro	oleum im	pact			1
ΓΊ						= base	a on visua	i and offa	ctory observat	ions.				
- 8 -					ļ <b> </b> -	-					Ì			-
											ŀ			
$\Gamma$ $^{9}$ $^{7}$						•								
10 —	$\blacksquare$				_	-				******	_		1	
L.,_	Ħ					Brow	vn, med SA	ND, Silt	, with trace Gra	avel; dry;	.			
11 -									ct from petrole observations.	eum basec	·	S-1, 10'-12.5'		
12	Ħ				<u> </u>	•	Baar and C	iluctory (	observacions.			3:30 AM		
$\lfloor \lfloor \rfloor$						_								
13 —									t and trace Clay	y, clean, d	ry,	S-2,		
-14 -						no evi	idence peti	roieum ir	npact.			12.5'-15'		-
L	Ħ											3:35AM	l	
<b>-</b> 15						Brown	n, SILT and	l Clay wi	th trace v-fine	Sand, wet	:,			TDU 0100
<b>–</b> 16 <b>–</b>						slight	petroleum	odor, no	visible eviden	ice of		S-3,		TPH-8100
						petrol ■ TPH.	eum impa	ct. Hanb	y test kit detect	ted ≈50 p <sub>l</sub>	om	15'-17.5' 3:45 AM		
17 -										····		22 2 2171	ļ	
<b>–</b> 18 –	目				<b> </b>	■ Brown	v-fine SA	ND and S	Silt and Clay, sl	light		S-4,		
_ 10						petrole	eum odor v	vith shee	n visible on we	etted surfa	aces.	17.5'-20'		
<b>-</b> 19 <b>-</b>	目					- Hanby	test kit de	tected 50	)-100ppm TPH.	•		3:55PM		-
<b>-</b> 20 -					-								<del>                                     </del>	
_21 _						-								
											ļ			
<b>-22 -</b>						-								-
-23 -						-					l			
											1			
-24														
Footnate	s for Blow	ounts	Designation of the last of the	l Constructio			ey to Geolo				•			
(1) 140 L	B. HAMMI	ER	Sandr	oack E	Well S	creen E	Till 🔀	6	Silt	Sa Sa		Gravel 🔯	_	(Fine-Grain)
	B. HAMMI E HAMME			nite Seal	Cemer		Clay		Silty Sand	Gi	ravel	Ø	Bedrock (	(Coarse-Grain)
			Groui	:			Silty Cla	ay 🏻	Sand	🌠 Fi	11			
									•					

# ERM-NEW ENGLAND, INC. 205 PORTLAND STREET BOSTON, MA 02114 1 TEST PIT LOG for Test Pit #: Project:\_ Raytheon, Wayland Project Number: 143.40 Client: Raytheon Company Log By: John D'Agostino Contractor: Enpro, Inc. Contractor Personnel:\_\_ Dennis Date Started:\_\_ 2/15/96 2/15/96 Date Finished:\_ Equipment Used: John Deere, 410D Backhoe Wayland, MA Location:\_\_ Surface Elevation:\_\_\_ Not Measured Total Depth:\_ 5.0 feet Depth to GW: ≈5.0 feet



Conto		San	nple		Comments
Scale (Feet)	Strata	Type/No.	Depth	Rock and Soil Description	(headspace readings)
_ _			0.0'-2.0'	Dark brown fine-medium SAND and SILT, with some organics, clean, dry.	Photo #1 taken of TP-1 —
- - 1					 _1 _
_ 2			201 401		
			2.0' - 4.0'	Ltbrown fine SAND and SILT with trace clay and gravel, clean, layering evident.	_
_ _ 3 _					
_					=
<u> </u>		TTD 1			
_		TP-1 S-1, 4'-5' 9:30	4.0' - 5.0'	Ltbrown-brown SILT and CLAY, clean, no evidence of contamination, water entering hole at 5 foot depth.	
<b>-</b> 5 <b>-</b>					
_					]
<b>–</b> 6 <b>–</b>					<b></b> 6 <b></b>
7-					

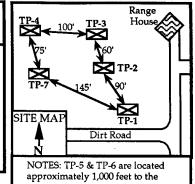
### ERM-NEW ENGLAND, INC. TEST PIT LOG for Test Pit #: 2 205 PORTLAND STREET ERM BOSTON, MA 02114 Project:\_ Raytheon, Wayland Project Number:\_ 143.40 Log By: John D'Agostino Client: Raytheon Company Contractor:\_ Enpro, Înc. Contractor Personnel:\_\_ **Dennis** 2/15/96 Date Started:\_\_ Date Finished:\_ 2/15/96 Equipment Used: John Deere, 410D Backhoe Wayland, MA Location: Surface Elevation:\_\_ Not Measured

7.5 feet

6.0 feet

Total Depth:\_

Depth to GW:\_



					TV COL.
Scale Strata		San	nple	B 1 10 1D 11	Comments
(Feet)	Strata	Type/No.	Depth	Rock and Soil Description	(headspace readings)
()		Type/No.	Deput		(neadspace readings)
-		•	0.0' - 2.0'	T' 1.1 C' 1' CANTO 10TT	
<b>—</b>		1	0.0 - 2.0	Light brown, fine-medium SAND and SILT	731
		ł		with some organics, trace coarse gravel, trace	Photo #2 taken of TP-2
<b>—</b>		1	1	fill material (cinder block pieces), dry, clean,	-
				ini material (chider block pieces), dry, clear,	
_		1	•		<b>-</b>
_ 1		1			1
_		1			_
			ŀ		
_					-
	ŀ	1			
	ŀ	Ì			
2	<u> </u>	<del> </del>			2
1	I		2.0' - 4.0'	Durana Car CANID and CIT III	·
<b>—</b>	I		2.0 - 3.0	Brown, fine SAND and SILT with trace gravel and	│
	I			clay, cinder block pieces found in places, no other	
Γ	l			fill materials evident. Dry-damp, clean.	
L				ini materials evident. Dry damp, clear.	
	ļ				
<b>—</b> 3 <b>—</b>					<b></b> 3 <b></b>
	ł				
		1			
<u> </u>		l	ŀ		_
		İ	[		
$\vdash$		1			<del>-</del>
1				Water seeping into hole at ≈4' level in places.	,
F 4		TP-2			4 -
L			4.0' - 5.0'	Black, fine SAND and SILT with some clay,	
1		S-1, 4'-5'		· · · · · · · · · · · · · · · · · · ·	
<b>—</b>		10:00	ŀ	organic rich sandy loam, slight odor.	
	Ì				
⊢	ĺ				_
L 5					«
, — — — — — — — — — — — — — — — — — — —					
<b>-</b>	1		5.0' - 6.0'	Brown, fine-med SAND and SILT, wet,	<b>│</b>
l	ĺ			layering evident, water entering hole in	
<b>—</b>	1			certain areas.	<b></b>
L_	1			Certain aleas.	<b>[</b>
	ĺ				
6					6
1	ĺ		6.0' - 7.5'		
⊢	1	1	,	Gray-brown, v-fine SAND, SILT and Clay,	∣
	ł	}		oxidation stains evident in places, saturated, clean,	
Γ	ĺ	1			
L	1			bottom of excavation filled with water after 10	
1	l			minutes.	
<b>–</b> 7 <b>–</b>	l			·	<b>—</b> 7 <b>—</b>
一					<del> </del>
ł					
_	l	1	1 .		

# TEST PIT LOG for Test Pit #:

Total Depth:\_

Depth to GW:

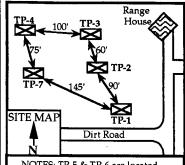
7.5 feet

≈7 feet

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

Project: Raytheon, Wayland	Project Number: 143.40
Client: Raytheon Company	Log By: John D'Agostino
Contractor: Enpro, Inc.	Contractor Personnel: Dennis
Date Started: 2/15/96	Date Finished: 2/15/96
Location: Wayland, MA	Equipment Used: John Deere, 410D Backhoe
Surface Elevation: Not Measured	

3



NOTES: TP-5 & TP-6 are located approximately 1,000 feet to the west.

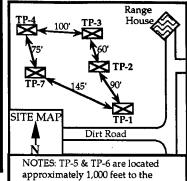
					west.	
Scale (Feet)	Strata	Sar Type/No.	nple Depth	Rock and Soil Description	Comments (headspace readings)	
			0.0' - 0.25'	Grass, topsoil and organics		
- 1		TP-3 S-1, .25'-2 10:30	0.25' - 2.0'	Tan, v-fine SAND and SILT with trace coarse sand and fine gravel, dry; strong odor, slightly sweet, no visible staining. No elevated PID reading from of soil s on sides of excavation.	PID = 625ppm VOC 8260 TPH-8100	
			2.0' - 3.0'	Dark brown, fine-med SAND, Silt and Clay, some gravel.	-	- 2 
_ 3			3.0' - 3.5'	Brown-tan, coarse SAND and SILT, trace gravel, damp-moist. Water seepage at 3.5 feet.		3 -
4 <b></b> 4 <b></b> 			3.5' - 5.0'	Dark brown, medium SAND and SILT with trace clay, moist-wet.	-	4
		TP-3 S-2,5'-6' 10:35	5.0' - 6.0'	Black, fine-med SAND, Silt and Clay with organics present, sandy loam, no odor, trace trace debris (crushed class, brick, etc.).	PID = Not measured	5 -
<b>-</b> 7 <b>-</b>			6.0' - 7.5'	Gray-brown, fine-medium SAND, wet Silt and Clay, horizontally stratified.	_	7-

# TEST PIT LOG for Test Pit #:

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

	· · · · · · · · · · · · · · · · · · ·
Project: Raytheon, Wayland	Project Number: 143.40
Client: Raytheon Company	Log By: John D'Agostino
Contractor: Enpro, Inc.	Contractor Personnel: Dennis
Date Started: 2/15/96	Date Finished: 2/15/96
Location: Wayland, MA	Equipment Used: John Deere, 410D Backhoe
Surface Elevation: Not Measured	

4



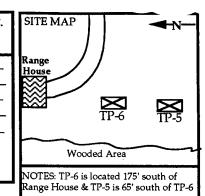
Juliuco Dievadelli.	0.0.6	 •			4	Dirt Road
Total Depth:	9.0 feet				N.	
Depth to GW:	7.0 feet			N	IOTES:	TP-5 & TP-6 are loo
				a	pproxim	nately 1,000 feet to
				V	zest.	

Scale (Feet)	Strata	San Type/No.	nple Depth	Rock and Soil Description	Comments (headspace readings)
			0.0' - 0.5'	Grass, topsoil, ltbrown coarse sand with trace gravel. Three copper insulated wires (≈1/16" thick) were broken during initial scoop with backhoe.	
- 1 <b>-</b>			0.5' - 1.5'	12" - Dark brown, fine-medium SAND and SILT with trace gravel, dry.	 1 
- 2		TP-4 S-1, 4'-5' 11:00	1.5' - 7.0'	Light brown, fine-medium SAND and GRAVEL, with some silt, some fill material (clay pipe pieces), no layering, no staining or odor. Primarily sand and gravel fill.	Photo #5 & #6 are of TP-4. — 2 — 3 — 3 — 4 — — 5 — — 6 — — — — — — — — — — — — — —
7		TP-4 S-2, 7'-8' 11:05	7.0' - 9.0'	Black, fine SAND and SILT with trace clay (sandy loam), organic rich, slight sewage smell, excavation collapsed to 8.0' depth.	7

# ERM-NEW ENGLAND, INC. 205 PORTLAND STREET BOSTON, MA 02114 5 TEST PIT LOG for Test Pit #: Project:\_ Raytheon, Wayland Project Number:\_ 143.40 Client: Raytheon Company Log By:\_ John D'Agostino Enpro, Inc. Contractor:\_ Contractor Personnel: 2/15/96 Date Started:\_ 2/15/96 Date Finished:\_ Location:\_ Wayland, MA Equipment Used: John Deere, 410D Backhoe Not Measured Surface Elevation:\_ Total Depth:\_ 7.0 feet

7.0 feet

Depth to GW:\_



Scale (Feet)	Strata	Sample		Rock and Soil Description	Comments	
		Type/No.	Depth		(headspace readings)	
  1 		TP-5 S-1, 0-2' 8:50AM	0' - 2.0'	24" - Dark brown, fine-med SAND and SILT with trace gravel, fill material evident in this layer (metal wire, particle board, clay pipe), organic material evident. Discontinuous lt. brown med sand layer ≈0.5' thick located at ≈1.0' depth.	PID = 9.9ppm Photo #7 is of TP-5	-1 - -1 -
<b>-</b> 2 <b></b>			2.0' - 4.0'	24" - Brown, med-coarse SAND, SILT and Clay, trace gravel, hetrogeneous.	_	3 -
- 4		TP-5 S-3, 4'-4.5 8:50AM	4.0 - 4.5	6" - Layer of brown coarse sand above 4.5' level where water is entering hole.		- 4 <del>-</del> -
- 5		TP-5 S-2, 7.0' 9:00AM	4.5' - 7.0'	24" - Brown, fine-med SAND and SILT with trace fine gravel, tight. Water table at seven feet. Excavation collapsing at seven foot level due to water entering from sidewalls.	PID = 10ppm (soils screened in backhoe bucket)	- 5
7		9:00AM				7 -

## ERM-NEW ENGLAND, INC. 205 PORTLAND STREET ERM BOSTON, MA 02114 SITE MAP TEST PIT LOG for Test Pit #: 6 Range Project:\_ Raytheon, Wayland Project Number: 143.40 House John D'Agostino Client: Raytheon Company Log By:\_ Contractor: Enpro, Inc. Contractor Personnel:\_ Dennis 2/15/96 Date Started:\_ 2/15/96 Date Finished:\_ Wayland, MA Equipment Used: John Deere, 410D Backhoe Location:\_ Surface Elevation:\_ Not Measured 9.0 feet Wooded Area Total Depth:\_ 7.0 feet Depth to GW:\_ NOTES: TP-6 is located 175' south of Range House & TP-5 is 65' south of TP-6

Scale (Feet)	Strata	San Type/No.	nple Depth	Rock and Soil Description	Comments (headspace readings)
			0.0 - 1.0'	12" - Dark brown, medium SAND and SILT, clean and damp-dry.	Photo #8 is of TP-6
_ 1		TP-6 S-2, 1-1.5' 8:30	1.0' - 1.5'	6" - Black-gray, fine-coarse GRAVEL and SAND, damp, crushed gravel pack, possibly old road.	<u> </u>
2 <del></del>			1.5' - 4.0'	30" - Brown, med-coarse SAND, SILT and Gravel, clean, moist- wet.	<b>-</b> 2 <b>-</b>
					3
_					
<b>-</b> 4 <b></b>			4.0' - 5.0'	12" - Brown, med SAND, SILT and Clay, clean, wet, dense. Water seeping into hole above this layer.	4
<b>-</b> 5 <b></b> 			5.0' - 7.0'	24" - Brown, fine SAND and SILT, laminated, tight.	
— = 6 — —					6 
7		TP-6	7.0' - 9.0'	<ul> <li> ▼ Water table at 7'. </li> <li> 24" - Brown, medcoarse, SAND and SILT, layering </li> </ul>	PID = 8.9ppm
_		S-1, 7'-9' 8:20		evident. Excavation collapsing due to water entering from sidewalls at this level.	TPH-8100 VOC-8260 —

# TEST PIT LOG for Test Pit #: 7 Project: Raytheon, Wayland Project No Log By:

Project Number: 143.40
Log By: John D'Agostino
Contractor Personnel: Dennis
Date Finished: 2/15/96

Contractor: Enpro, Inc. Contractor Personnel: Dennis

Date Started: 2/15/96

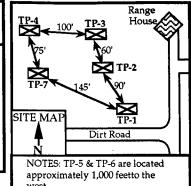
Location: Wayland, MA

Equipment Used: John Deere, 410D Backhoe

Surface Elevation: Not Measured

Total Depth: 6.0 feet

Depth to GW: 5.0 feet



					west.	_
Scale	Strata	San	nple	Rock and Soil Description	Comments	
(Feet)	Juala	Type/No.	Depth	Nock and son Description	(headspace readings)	
		- 7 - 7 - 1 - 1	_			
			0 - 1.0'	Top 6" - Grass and tan well sorted fine-med		
-				SAND and Silt (topsoil), clean and dry.	Photos #9 & #10 are of	_
				Next 6" - Same as above but dark brown( subsoil).	TP-7	_
				TVEXTO - Same as above but dark blown subson).		
<b>—</b>						_
_ 1 —					1	
_			1.0' - 2.0'	Brown, SAND and SILT with trace fine gravel,		
-			1.0 - 2.0	fill material, water seeping out of this interval.		_
L				in material, water scepa is out or this atterval.		
1						
<b>—</b>		1				
<b>—</b> 2 <b>—</b>						2 —
1			2.0' ~ 5.0'	Black, fine SAND and SILT with some clay,		
				organic rich sandy loam.		
_				<del>-</del>		_
l						
						_
<b>-</b> 3 <b>-</b>					<b>–</b>	3 🕳
1						
<b>—</b> 4 <b>—</b>					_	4 —
$\vdash$						_
1	,			•		
5		700 7	<b></b>		_	5 <b>—</b>
		TP-7	5.0' - 6.0'	Gray-brown, fine SAND and SILT with		_
		S-1, 5'-6'		trace clay, layering evident at this level. Excavation		
		11:30		filled with water at this level and collapsed to 5'.		_
				1		_
6		<del> </del>				6 🗕
Γ						
<b>—</b>						
L						
Γ						
7 —					_	7 —
L						_
Γ-		1				
⊢						_
L		<del></del>				