Appendix A
Geologist's Logs for Wells Drilled in 2006

Yankee Nuclear Power Station MW-101A Rowe, Massachusetts **GEOLOGIST'S LOG for Well #:** Project Number: Project: Yankee Ground Water Investigation Client: Yankee Atomic Electric Company Logged by: Dave Scott Kevin Regen MW-102 D 8 ACB Drilling Co: D.L. Maher Driller: MW-107 A Date Started: 5-Apr-06 Date Finished: 11-Apr-06 Location: Rowe, Massachusetts Drilling Method: Rotosonic 0.010 inch Screen Diam: 2 inches Length: 5 feet Slot Size: Schedule 40 PVC Casing Diam: 2 inches Length: 18 feet Type: Boring Depth: 23.5 feet Well Depth: 23 feet Boring Diam.: 7? " telescoping to 51/2" 22.76 feet from PVC Surface Elev.: 1138.0 feet NAVD '88 MP: Ground Surface Depth to GW: on June 20, 2006 On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC casing extension above grade: 8.1 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	2.5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose.	0-5'	-
6 - 7 - 8 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10			5'	2.5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose. Advance 7? " drill casing to 10', install 6" permenant steel casing to 10', cement grout annular space and remove 7? " casing.	5-10'	-
- 11 - 12 - 13 - 14 - 15 -		Fill	5'	3'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose.	10-15'	-
16 -17 -18 -19 -			5'	0.5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose.	15-20'	H-3 =
20 - 21 - 22 - 23 -		Sand & Gravel	3.5'	3.5'	20-21.5': Fill, as above. 21.5-22': Sand, f. to c., med brown & gravel, f. to m. wet, loose. 22-23.5': Till consisting of silt, olive-gray, little clay and f. sand, f. to c. angular gravel, tr. cobbles, unsorted, very dense, dry.	20-23.5'	16,900 pCi/L
24 = 25 = 26 =					End of Boring at 23.5' Advance 5½" drill casing to 23.5' to construct well.		=

*Results of on-site radiological screening <MDL unless otherwise noted

Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 6-inch Steel Casing

DR	ILLING	G LOG for V	Vell No.:		MW-101A	Yankee N YANKEE Station,	Juclear Power Rowe, MA	Page	2 of	2
epth	Well Log	Stratigraphy	Penetration	Recovery	So	oil Core Description			Depth	Ground Water Sample N
_										
-										
7										
-			0-8.2': 6		toring Well Con Casing Extension	struction Details				
-					Casing Extension					
					Casing and Ceme	nt/Bentonite Grout Belo	w Grade			
-				Bentonite (
_					n) Silica Sand Filte 0, 2-inch PVC Well					
+						0-inch Slot Well Screen				
7			23.5': E	Bottom of B	Boring					
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Yankee Nuclear Power Station Rowe, Massachusetts **GEOLOGIST'S LOG for Well #:** MW-102D Yankee Ground Water Investigation Project: Project Number: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-102 D & A C MW-107 A Drilling Co: Driller: Boart Longyear Roy Buckenberger / Mike Hansen Date Started: 10-Feb-06 Date Finished: 10-Feb-06 MW-110 AB,C,B Location: Rowe, Massachusetts Drilling Method: Rotosonic Length: 10 feet 0.010 inch Screen Diam: 2 inches Slot Size: Casing Diam: 2 inches Length: 11 feet Schedule 40 PVC Type: 10" telescoping to 51/2" Boring Depth: Well Depth: 21 feet Boring Diam.: 1133.8 feet NAVD '88 Ground Surface 23.45 feet from PVC Surface Elev.: MP: Depth to GW:

PVC Casing Extension Above Grade: 8.1 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Wate Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose.	0-5'	
- 5 - - 6 - - 7 - - 8 -		Fill	5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose. Advance 10" drill casing to 8', install 8" permenant steel casing to 8', cement grout the annular space and remove the 10" casing.	5-10'	
- 10 - 11 - 12 - 13 - 14 - 14 -			5'	5'	10-14': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, loose, wet at 12'.	10-15'	
- 15 - - 16 -					few cobbles, loose, wet. 15-20': Sand, brown, f. to c. and gravel, rounded, f. to c., some silt,		GW-1: H- 3=5,560 • pCi/L
17 - 18 - 19 - 20 -		Sand & Gravel	7'	7'	few cobbles, dense, wet. 20-22': Till consisting of olive green-gray silt, little clay and f. sand, f. to c. angular gravel, tr. fist-sized cobbles of garnet schist,	15-22'	
21 - 22 -		Till			unsorted, very dense, moist. Advance 5½" drill casing to 22' to construct well.		
23 - 24 -					End of Boring at 22 feet		
25 -							

*Results of on-site radiological screening <MDL unless otherwise noted

On-Site GW Analyses:

H-3, Co-60, Cs-134, Cs-137

Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing

on April 18, 2006

DRILLING	G LOG for V	Vell No.:	MW-102D	Yankee Nucle Station, Ro	we, MA Page	2 of	
epth Well Log	Stratigraphy	Penetration Recove	ry So	oil Core Description		Depth	Ground Water Sample N
-							
]							
}							
]		M	onitoring Well Con	etruction Details			
-			Casing Extension Al				
]			Casing Extension Ab				
4			el Casing and Cement/ Intonite Grout Inside 8	Bentonite Grout Below Grad	le		
+		7-9': Bentonite					
]			m) Silica Sand Filter P				
4			.0, 2-inch PVC Well Ris .0, 2-inch PVC, 0.010-i				
4		22': Bottom of					
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Yankee Nuclear Power Station **GEOLOGIST'S LOG for Well #:** MW-104A Rowe, Massachusetts MW-104 C 184 A Project: Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: Drilling Co: Boart Longyear Driller: Roy Buckenberger / Mike Hansen Date Started: 6-Feb-06 Date Finished: 6-Feb-06 Location: Rowe, Massachusetts Drilling Method: Rotosonic Screen Diam: 2 inches Length: 10 feet Slot Size: 0.010 inch Schedule 40 PVC Casing Diam: 2 inches 10 feet M.103 4 ⊗ C Length: Type: MW-102 D 8 A Well Depth: 20 feet Boring Diam.: 10" telescoping to 51/2" Boring Depth: 20 feet Surface Elev.: 1118.5 feet NAVD '88 MP: Ground Surface Depth to GW: 8.50 feet from PVC

PVC Casing Extension Above Grade: 0 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	5'	Sand, brown, f. to c. and gravel, f. to c., subangular; some silt; loose, dry.	0-5'	- - -
5 - 6 - 7 - 8 - 9 - 10 - 10 - 10		Sand & Gravel	5'	5'	Sand, brown, f. to c. and gravel, f. to c., subangular; some silt; loose, moist. Advance 10" drill casing to 10', install 8" permanent steel casing to 10', cement grout annular space and withdraw 10" drill casing.	5-10'	-
- 11 - 12 - 13 - 14 - 15 - 15 -		Sand & Graver	5'	5'	Sand, brown, f. to c. and gravel, f. to c., subangular; some silt; loose, wet.	10-15'	GW-1: H-
- 16 - 17 - 18 - 19 - 20 - 21 -			7'	7'	15-20': Sand, brown, f. to c. and gravel, f. to c., subangular; some silt; loose, wet. Sand and gravel with gray clay from 17 to 17.5'. 20-22': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, weathered gneiss cobbles, unsorted, very dense, dry.	15-22'	pCi/L
22 - 23 - 24 - 25 - 26 - 26 -		Till	5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 5½" drill casing to 20' to construct well.	22-27'	- - -

*Results of on-site radiological screening <MDL unless otherwise noted Native Soil (collapsed borehole)

On-Site GW Analyses:

NOTES:

H-3, Co-60, Cs-134, Cs-137

Sandpack Bentonite Seal

Key to Well Construction

Well Screen

on April 18, 2006

Cement/Bentonite Grout Cement/Bentonite Grout and 8-inch Steel Casing

R	ILLING	LOG for W	/ell #:		MW-104A YANKEE Power Station, Rowe, MA Page	2 of	2
pth	Well Log	Stratigraphy	Penetratio n	Recovery	Soil Core Description	Depth	Ground Water San No.*
		Till	5'	5'	See Previous Page	22-27'	
	CARRIES CONTRACTOR N		- 1	., ,	Bottom of Boring at 27'		
				Wall C	onstruction Details:		
			0.41				
		•	0-1':		te, Flushmount Roadbox		
			0.5-10':	8" Steel	Casing Cement/Bentonite-Grouted in Place		
			1-6':	Cement	:/Bentonite Grout		
			6-8':	Bentoni	te Chip Seal		
			8-21':		lium) Silica Sand Filter Pack		
			0-10':		le 40 2" PVC Riser		
					le 40 2" PVC, 0.010"-Slot Screen		
			21-27':	Native	Soil (collapsed borehole)		
			27':	Bottom	of Boring		
					Š		

			-			
GEOLO	GIST'S LOG for Wel	1#: MV	V-10 5	A YANK	4111	e Nuclear Power Station Massachusetts
Project:	Yankee Ground Water Investigation	Project Num	nber:			
Client:	Yankee Atomic Electric Company	Logged by:		Dave Scott		
Drilling Co:	Boart Longyear	Driller:		Roy Buckenbe	rger / Mike Hans	en
Date Started:	8-Feb-06	Date Finishe	ed:	8-Feb-06		
Location:	Rowe, Massachusetts	Drilling Met	:hod:	Rotosonic		
Screen Diam:	2 inches	Length:	10 feet		Slot Size:	0.010 inch
Casing Diam:	2 inches	Length:	10 feet		Type:	Schedule 40 PVC
Boring Depth:	25 feet	Well Depth:	20 feet		Boring Diam.:	10" telescoping to 51/2"
Surface Elev.:	1126.9 feet NAVD '88	MP:	Ground	Surface	Depth to GW:	25.95 feet from PVC
On-Site CW And	alvege: H-3 Co-60 Cc-134 Cc-137	PVC Casing	Extension	Above Crade: 9	Q foot	on April 18 2006

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Wat Sample No.
· 1 - · 2 - · 3 -			5'	5'	0-0.67': Concrete floor slab of former Service Building. 0.67-5': Sand, brown, f. to c., some gravel, f. to c., subangular, some silt, few fist-sized cobbles, loose, dry.	0-5'	
5 - 6 - 7 - 8 - 9 - 10 -		Sand & Gravel	5'	5'	Sand, brown, f. to c., some gravel, f. to c., subangular, some silt, few fist-sized cobbles, loose, dry. Advance 10" drill casing to 8', install 8" permanent steel casing to 8', cement/bentonite grout annular space and withdraw 10" drill casing.	5-10'	
11 - 12 - 13 - 14 - 15 -			6'	6'	Sand, brown, f. to c., some gravel, f. to c., subangular, some silt, few fist-sized cobbles, loose, dry; moist on bottom. On boulder at 16'.	10-16'	GW-1: H-3<2,000 pCi/L
16 –			1'	1'	Schist boulder, pulverized by drill.	16-17'	POWE
18 -		Boulder	2'	2'	Schist boulder, pulverized by drill.	17-19'	
19 -			1.5'	1.5'	Schist boulder, pulverized by drill.	19-20.5'	
21 - 22 - 23 - 24 - 24 - 24		Till	4.5'	4.5'	Through boulder at 21'. 21-25': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 5½" drill casing to 16' to construct well.	20.5-25'	
25 -					End of Boring at 25 feet		

*Results of on-site radiological screening <MDL unless otherwise noted Native Soil (collapsed borehole)

	Sandpack	Well Screen	Cement/Bentonite Grout
146	Bentonite Seal	Cement/Ben	tonite Grout and 8-inch Steel Casin

DR	ILLIN	G LOG for V	Vell No.:		MW-105A	YANKEE Station,	Nuclear Power Rowe, MA	Page	2 of	
Depth	Well Log	Stratigraphy	Penetration	Recovery	So	oil Core Description			Depth	Ground Water Sample No.*
										_
										-
										_
-										-
				Moni	toring Well Con	struction Details				_
					asing Extension A					_
-					sing Extension Ab asing and Cement/	Bentonite Grout Below	Grade			-
<u> </u>			0-6': Cem	nent/Bento	nite Grout Inside 8	-inch Steel Casing				-
-				tonite Chip	o Seal Silica Sand Filter P	ack	ŀ			_
} -					2-inch PVC Well Ris					-
[]						nch Slot Well Screen				-
				ive Soil (co tom of Bori	ollapsed borehole) ing					-
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Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-107A Rowe, Massachusetts MW-1117A Yankee Ground Water Investigation Project Number: Project: Client: Yankee Atomic Electric Company Logged by: MW-102 D ⊗ A C B Drilling Co: Boart Longyear Driller: Roy Buckenberger / Mike Hansen Date Started: 5-Apr-06 Date Finished: 5-Apr-06 Location: Rowe, Massachusetts Drilling Method: Rotosonic Screen Diam: 0.010 inch Length: 5 feet Slot Size: 2 inches Casing Diam: 2 inches 21 feet Schedule 40 PVC Length: Type: Boring Depth: 30 feet Well Depth: 26 feet Boring Diam.: 10" telescoping to 51/2 Surface Elev.: 1135.1 feet NAVD '88 MP: Ground Surface Depth to GW: 16.74 feet from PVC on June 20, 2006 On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC casing extension above grade: 5.0 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	3'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, damp, loose.	0-5'	-
5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 15 - 15 - 17 - 17 - 17 - 17 - 17		Fill	10'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose. Advance 10" drill casing to 9.5', install 8" permanent steel casing to 9', cement grout annular space and remove 10" casing.	5-15'	-
- 16 17 18 19 - 20 - 21 - 22 - 23 - 24 - 25			10'	6'	15-24.5': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Miraficloth; unsorted, wet, loose. 24.5-25': Sand, brown, f. to m. and gravel, f. to m., little silt, wet, loose.	15-25'	GW-1: H-3=7,460 pCi/L
26 _		Sand & Gravel	5'	4'	25-26': Sand and gravel, as above.	25-30'	

*Results of on-site radiological screening <MDL unless otherwise noted Native Soil (collapsed Borehole)

Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing

OR	ILLIN	G LOG for W	ell#:		MW-107A YANKEE Station, Rowe, MA Page 2	2 of	2
pth	Well Log	Stratigraphy	Penetratio n	Recovery	Soil Core Description	Depth	Ground Water Sampl No.*
-		Till	5'	4'	26-30': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 5½" drill casing to 26' to construct well.	25-30'	
			0-5.6' : 8-	inch Ste	nstruction Details: eel Casing Extension Above Grade C Casing Extension Above Grade		
			0-16': Po 16-19': Bo 19-26': #0 0-21': So	ortland entonite (mediu chedule	Casing and Cement/Bentonite Grout Below Grade Cement/Bentonite Grout E Chip Seal Lum) Silica Sand Filter Pack 40 2" PVC Riser 40 2" PVC, 0.010"-Slot Screen		
			26-30': N	ative Sc	oil (collapsed borehole) f Boring		
							-
-							
-							-

Yankee Nuclear Power Station MW-111 GEOLOGIST'S LOG for Well #: MW-107E Rowe, Massachusetts Project: Yankee Ground Water Investigation Project Number: MEW-102 B 12 D/⊗ A C B Client: Yankee Atomic Electric Company Dave Scott Logged by: Boart Longyear Drilling Co: Driller: Mike Hansen MW-107 A Date Started: 5-May-06 Date Finished: 15-May-06 Location: Rowe, Massachusetts Drilling Method: Rotosonic MW-110 AB,0 Screen Diam: 2 inches Length: 5 feet Slot Size: 0.010 inch Schedule 40, PVC Casing Diam: 2 inches Length: 52 feet Type: W-101 A Boring Diam.: Boring Depth: 70 feet Well Depth: 57 feet 10" telescoping to 51/2" Surface Elev.: 1135.1 feet NAVD '88 MP: Ground Surface Depth to GW: 25.60 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 on June 19, 2006 PVC Casing Extension Above Grade: 5.2 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	No Sample (see MW- 107A)	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, damp, loose.	0-5'	-
9 - 10 - 11 - 12 - 13 - 14 - 15 - 15 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17		Fill	10'	No Sample (see MW- 107A)	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose.	5-15'	-
13 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17			10'	No Sample (see MW- 107A)	unsorted, wet, loose.	15-25'	-
_ 26 _			5'	4'	See next page.	25-30'	

NOTES:

*Results of on-site radiological screening <MDL unless otherwise noted

Sandpack	Well Screen	Cement/Bentonite Grout
Bentonite Seal	Cement/Bent	onite Grout and 8-inch Steel Casin

DRILLING LOG for Well No.:

MW-107E



Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*
- 27 - - 28 - - 29 - - 30 -		Fill	7'	6'	25-28': Fill consisting of silt, dark brown, f. to c. sand and f. to c. gravel, unsorted, loose, wet. 28-32': Till consisting of olive green-gray silt, little clay and f. sand, f. to c. angular gravel, tr fist-sized cobbles of garnet schist, unsorted,	25-32'	,
-31 - -32 - -33 -		Till			very dense, damp. Advance 10-inch drill casing to 32', install 8-inch permanent casing to 32', cement grout annular space and withdraw 10-inch casing.		
- 34 - 35		Sand and Silt	3'	2.5'	32-34.5': Till, as above, dry. Driller reports drilling got soft at very bottom of sample run. 34.5-35': Sand, f. to m. and silt, gray-green, unsorted, m. loose, wet.	32-35'	
- 36 - - 37 - - 38 - - 39 - - 40 -		Till	5'	5.5'	Borehole has ~1' water and collapsed ~1'. Attempted to bail GW sample, but not enough water coming in. 35-40': Till as in 32-34.5', dry; except for 1-inch seam of fine sand and gray-green silt, damp, at 37.5 to 37.6'. Advance 7?" drill casing to 40' and pressure grout to seal off water.	35-40'	
- 41 - 42 43 - 44 - 45 - 45		Sand Sand and Silt	5'	5'	40-40.5': Sand, vc., some f. gravel, tr. Silt, olive-gray, unsorted, loose, wet. 40.5- 44.5': Sand, f. and silt, olive-gray, unsorted, moderately dense, wet; few cobbles @ 42.5-43'. 44.5-45': Till, very dense, dry, as in 32-34.5'. 8' of water in the borehole. Bail GW-1, advance 7? " drill casing to 45' and pressure grout to seal off water.	40-45'	GW-1: H-3=15,200 pCi/L
- 46 - - 47 - - 48 - - 49 -		Till Silt and Sand	5'	5'	45-49.5': Till, more fine-grained than above, consisting of silt and f. angular gravel; little clay, tr cobbles, unsorted, dense, damp. 49.5-50': Silt and f. sand, olive-gray, unsorted, mod dense, moist.	45-50'	
- 50 - - 51 - - 52 -		Till Sand and Gravel			50-52': Till consisting of silt, olive-gray, some f. to c. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, dense, dry. 52-52.5': Sand, f. to c. and c. angular gravel, unsorted, loose, wet.		GW-2: H-3=4,600
- 53 - - 54 - - 55 -		Till	5'	5'	52-52.5 : Sand, 1: to c. and c. angular graver, drisorted, loose, wet. 52.5-55': Till consisting of silt, olive-gray, some f. to c. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, dense, dry.	50-55'	pCi/L
- 56 - - 57 -		Silt and Sand	5'	5'	55-57': Silt and f. sand, with f. angular gravel, little c. gravel, unsorted, dense, moist. 57-60': Till consisting of silt, olive-gray, some f. to c. sand and f. to c.	55-60'	
-58 - -59 - -60 -					angular gravel, little clay, tr cobbles, unsorted, dense, dry. Water entering the borehole: bail GW-2, and advance 5½" drill casing to 60'.		
-61 - -62 - -63 - -64 -		Till	5'	4.5'	60-64': Till consisting of silt, olive-gray, some f. to c. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry. 1-inch f. sand layer @ 62', moist. 64-65': Clay, olive green, very stiff, some f. to m. angular gravel.	60-65'	
65			5'	5'	See next page.	65-70'	

Yankee Nuclear Power MW-107E (Page DRILLING LOG for Well #: 3 of 3 Station, Rowe, MA Ground Penetratio Well Log Water Sample Depth Stratigraphy Recovery Soil Core Description Depth n No.* 67 Till consisting of clay and silt, olive green, some f. to c. sand and f. to Till 5' 65-70' c. angular gravel, tr cobbles, unsorted, very dense, dry (more clay-rich than higher up in the section). - 69 Bottom of Boring at 70' **Well Construction Details:** 0-5.6': 8-inch Steel Casing Extension Above Grade 0-5.2': 2-inch PVC Casing Extension Above Grade 0-32': 8-inch Steel Casing and Cement/Bentonite Grout Below Grade 0-46': Portland Cement/Bentonite Grout 46-50': Bentonite Chip Seal 50-59': #0 (medium) Silica Sand Filter Pack 0-52': Schedule 40 2" PVC Riser 52'-57': Schedule 40 2" PVC, 0.010"-Slot Screen 59-70': Bentonite Chip Seal 70': Bottom of Boring

Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-107F Rowe, Massachusetts Project: Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: D & B Drilling Co: Boart Longyear Driller: Mike Hansen Date Started: 17-May-06 Date Finished: 23-May-06 MW-107 A MW-110 AB,C,B Location: Rowe, Massachusetts Drilling Method: Rotosonic 0.010 inch Screen Diam: 2 inches Length: Slot Size: 49 feet Schedule 40 PVC Casing Diam: 2 inches Length: Type: Boring Depth: 57 feet Well Depth: 54 feet 10" telescoping to 51/2' Boring Diam.: Surface Elev.: 1135.1 feet NAVD '88 MP: Depth to GW: 24.37 feet from PVC on June 19, 2006 On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Ground: 3.9 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	4'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, loose, wet.	0-5'	-
5 6 - 7 7 8 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 15 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17		Fill	10'	6.5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, loose, wet.	5-15'	
- 16 - 17 - 18 - 19 - 20 - 21 - 21 -			6'	4'	15-20': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Miraficloth; unsorted, loose, wet. -20-21': Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry.	15-21'	
- 22 - - 23 - - 24 -		Till	4'	4'	Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry. Advance 10" drill casing to 25', install 8" permanent steel casing to 25', cement grout the annular space and remove the 10" casing.	21-25'	-
- 25 - 26 -			5'	5'	See next page.	25-30'	

NOTES:

*Results of on-site radiological screening <MDL unless otherwise noted

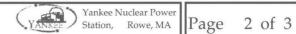
Native Soil (collapsed borehole)

	Sandpack	Well Screen	Cement/Bentonite Grout
1115	Bentonite Seal	Cement/Ben	tonite Grout and 8-inch Steel Casing

7	R	II	I	IN	IG	T.	OG	for	W	e11	No.:

- 62

MW-107F



epth Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Wa Sample No
7 - 8 - 9 -		5'	5'	Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry. Soil core is very hot due to friction from drill action on very dense till.	25-30'	
1 - 2 - 3 - 4 -	Till	4'	4'	Same as above. 1-inch f. sand seam at 32.5'. 3 inches of vf silty sand at bottom of sample, dry.	30-34'	
5 - 66 - 7 - 8 -	Sand	5'	5'	34-35.5': Boulder. 35.5-36.5': Till, as at 25-30'. 36.5-38': Sand, brown, c. at top, grading to f. at bottom, loose, wet. Borehole collapsed to 37'. 38-39': Till, as at 25-30'.	34-39'	GW-1: H3=44,800 pCi/L
9 -		1'	1'	-40': Till as above. Collect GW-1, advance 7? " drill casing to 40' and pressure grout.	39-40'	
1 - 2 - 3 - 4 - 5	Till	5'	5'	Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, damp. 4-inch layer of silt @ 44-44.3', moist.	40-45'	
; -		5'	5'	Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry.	45-50'	
- - - - - - - - - -	Sand and Gravel	5'	5'	50-52': Sand, f. to m. with subangular gravel, f. to c., little silt, unsorted, dense, wet. 10' of water in the borehole. 52-55': Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, damp. Advance 5½" drill casing to 55' to construct well.	50-55'	GW-2: 3=8,790 pCi/L
5 -	Till	2'	2'	Till consisting of olive-gray silt and f. sand and f. to c. angular gravel, little clay, tr cobbles, unsorted, very dense, dry.	55-57'	

DR	ILLING	LOG for V	Vell No.:		MW-107F	YANKEE Yankee Nu Station,	Rowe, MA	3 of	
Depth	Well Log	Stratigraphy	Penetration	Recovery	S	oil Core Description		Depth	Ground Water Sample No.
.									
									•
									•
• -				Moni	itoring Well Cor	struction Details			•
					Casing Extension				·
					Casing Extension A	Above Grade nt/Bentonite Grout Below (Grade		
					tonite Grout				•
<u> </u>			40.5-47': E						•
.]					n) Silica Sand Filte				,
					0, 2-inch PVC Well 0, 2-inch PVC, 0.01	0-inch Slot Well Screen			
	:				(collapsed borehol				
.]			57': B	ottom of B	oring				•
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Yankee Nuclear Power Station **GEOLOGIST'S LOG for Well #:** MW-109A Rowe, Massachusetts Project: Yankee Ground Water Investigation Project Number: Yankee Atomic Electric Company Client: Logged by: Dave Scott My-1004 @ C Roy Buckenberger/Mike Hansen MW-W2 D ⊗ A C Driller: Drilling Co: Boart Longyear Date Started: 3-Feb-06 Date Finished: 3-Feb-06 Location: Rowe, Massachusetts Drilling Method: Rotosonic 2 inches Slot Size: 0.010 inch Screen Diam: Length: 10 feet 10 feet Schedule 40 PVC Casing Diam: 2 inches Length: Type: Boring Depth: 20 feet Well Depth: 20 feet Boring Diam.: 10" telescoping to 51/2" 12.41 feet from PVC Surface Elev.: 1124.1 feet NAVD '88 MP: Ground Surface Depth to GW:

PVC Casing Extension Above Grade: 3.9 feet

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	5'	Sand, brown, f. to vc. and gravel, f. to c., subangular; some silt; loose. Stormwater is entering the borehole because of heavy rain. Unable to identify moisture content of sample.	0-5'	-
6 - 7 - 8 - 9 - 10 - 10 - 10		Sand & Gravel	5'	5'	Sand, brown, f. to vc. and gravel, f. to c., subangular; some silt; loose. Stormwater is entering the borehole because of heavy rain. Unable to identify moisture content of sample. Advance 10" drill casing to 8', install 8" permanent steel casing to 8', cement grout annular space and withdraw 10" drill casing.	5-10'	-
- 11 - - 12 - - 13 - - 14 -			5'	5'	-10-12': Sand, brown, m. to c.; little silt, moist. 12-15': Sand, brown, f. to vc. and gravel, f. to c., subangular, some silt, loose, wet.	10-15'	GW-1: _ H-3<2,000 pCi/L _
15 - 16 - 17 - 18 - 19 - 20 -		Till	5'	4'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, damp. Advance 5½" drill casing to 20' to construct well.	15-20'	-
20 =					Bottom of Borehole at 20'		
22 -]
_ 23 _							-
_ 24 _							\dashv
- 25 -					T		H
NOTES	L 5:				Key to Well Construction		

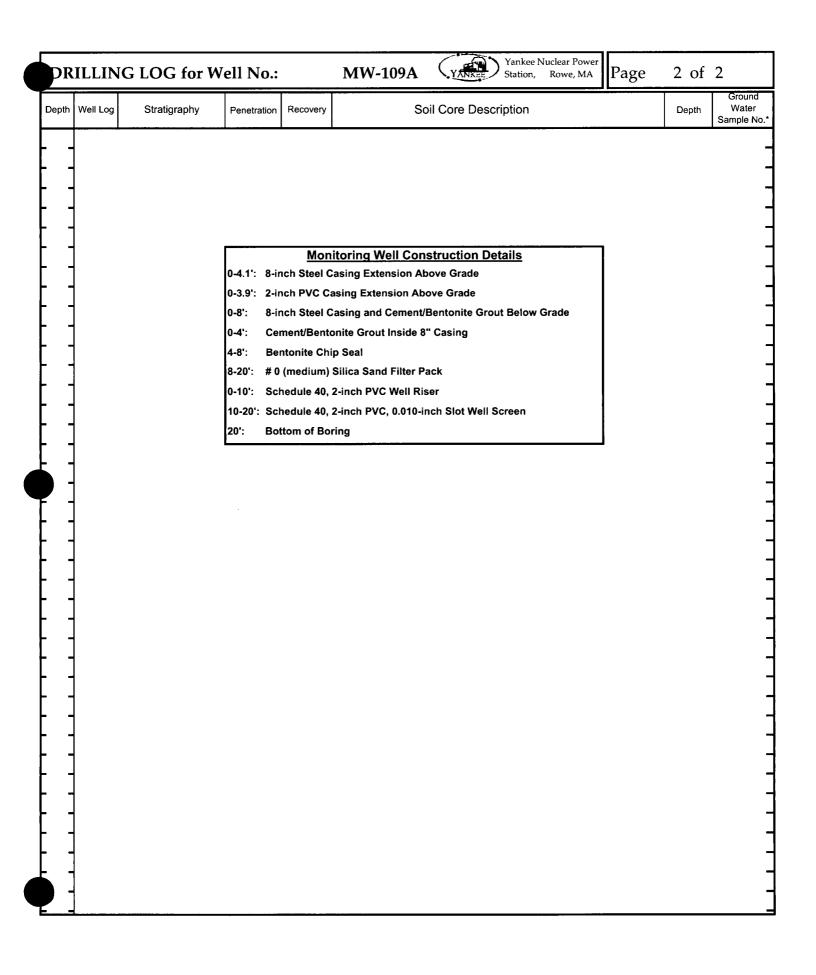
*Results of on-site radiological screening <MDL unless otherwise noted

On-Site GW Analyses:

H-3, Co-60, Cs-134, Cs-137

Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing

on April 18, 2006



Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-110A Rowe, Massachusetts MW-111-ABC Project: Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-107 A MW-102 D ⊗ A C B Drilling Co: Boart Longyear Driller: Roy Buckenberger / Mike Hansen 15-Feb-06 Date Finished: Date Started: MW-110 A.B.C.B Rowe, Massachusetts Drilling Method: Location: Rotosonic Screen Diam: 2 inches Length: Slot Size: 0.010 inch c. B⊗ MW-101 A Schedule 40 PVC Casing Diam: 2 inches Length: 25 feet Type: Boring Depth: 35 feet Well Depth: 30 feet 10" telescoping to 51/2" Boring Diam.: Surface Elev.: 1138.4 feet NAVD '88 MP: Ground Surface Depth to GW: 19.56 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC casing extension above grade: 5.0 feet on April 18, 2006

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, very moist, loose.	0-5'	-
5 - 6 - 7 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15		Fill	10'	10'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose. Advance 10" drill casing to 10', install 8" permanent steel casing to 10', cement grout annular space and remove 10" drill casing.	5-15'	-
- 15 - 16 - 17 - 18 - 19 - 20 - 15			5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose.	15-20'	- - -
- 21 - - 22 - - 23 - - 24 -			5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, moist, loose.	20-25'	- - -
- 25 - - 26 -		Sand & Gravel	10'	10'	See next page.	25-35'	See next

NOTES:

*Results of on-site radiological screening <MDL unless otherwise noted

Sandpack	Well Screen	Cement/Bentonite Grout
Bentonite Seal	Cement/Bent	tonite Grout and 8-inch Steel Casing

P.	RILLIN	IG LOG for We	11 #:		MW-110A YANKEE Station, Rowe, MA Page	2 of	2
Dept	Well Log	Stratigraphy	Penetratio n	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34		Sand & Gravel	10'	10'	25-29': Sand, brown, f. to c. and gravel, f. to m., some silt, loose, wet. 29-29.5': Gravel, vc, rounded, little silt, loose, wet. 29.5-35': Till consisting of silt, olive-gray, with f. to c. angular gravel, little c. to vc sand, some clay, trace cobbles, unsorted, very dense, dry. Advance 5½" drill casing to 35' to construct well.	25-35'	H-3 = - 8,040 pCi/L

Well Construction Details:

0-6.0': 8-inch Steel Casing Extension Above Grade0-5.0': 2-inch PVC Casing Extension Above Grade

0-10': 8-inch Steel Casing and Cement/Bentonite Grout Below Grade

0-17': Cement/Bentonite Grout

17-22': Bentonite Chip Seal

22-31': #0 (medium) Silica Sand Filter Pack

0-25': Schedule 40 2" PVC Riser

25-30': Schedule 40 2" PVC, 0.010"-Slot Screen

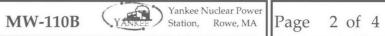
31-35': Bentonite Chip Seal35': Bottom of Boring

Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-110B Rowe, Massachusetts Yankee Ground Water Investigation Project Number: Project: Client: Yankee Atomic Electric Company Logged by: Dave Scott 102 D ⊗ AC B Driller: Roy Buckenberger / Mike Hansen Drilling Co: Boart Longyear Date Started: Date Finished: 20-Feb-06 6-Mar-06 Location: Rowe, Massachusetts Drilling Method: MW-110 AB,C Rotosonio Screen Diam: 2 inches Length: 10 feet Slot Size: 0.010 inch Schedule 40 PVC Casing Diam: 2 inches 100 Length: Type: Boring Depth: 110 feet Well Depth: 110 10" telescoping to 4" Boring Diam.: Surface Elev.: 1138.2 feet NAVD '88 MP: Ground Surface Depth to GW: 39.42 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 5.2 feet on April 18, 2006 Depth Depth | Well Log Ground Water Stratigraphy Penetration Recovery Soil Core Description (feet) Sample No.* Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. 12' 12' to c., and cobbles; trace roots and wood, trace Mirafi cloth; 0 to 12' unsorted, wet, loose. Fill 3' 3' Same as Above 12 to 15' 15 to 25' 10' 10' Same as Above 10' 10' See Next Page 25 to 35' Key to Well Construction

*Results of on-site radiological screening < MDL unless otherwise noted

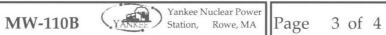
Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing

DRILL	INC	IOG	for	Well	No.



Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water
- 27 - 28 -		3-1-1			_	(feet)	Sample No.*
- 29 - 30		Fill			25-31.5': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose.	25 to 35'	=
-31 -32 -33		Sand & Gravel	10'	10'	31.5-33': Sand, brown, f. to m. and f. to c. gravel, some silt, unsorted, medium dense, wet. 33-35': Till consisting of silt, olive-gray, with f. to c. angular gravel,	25 10 35	=
- 34 - - 35 -					some sand, f. to m., some clay, trace cobbles, unsorted, very dense, damp.		_
- 36 - - 37 - - 38 -			3'	3'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 10-inch drill casing to 38', install 8-inch permanent casing to 38', cement grout annular space and remove 10-inch casing.	35-38'	-
39 -			2'	2'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	38-40'	
- 41 - - 42 - - 43 - - 45 -		Till		5'	Same as Above	40-45'	- - -
- 46 47 48 49		Sand & Gravel	5'	5'	45-48': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, dense, dry. 48-50': Sand, brown, m. to vc., some f. to m. subround gravel,	45-50'	GW-1: H-3 <2,000
-50 - -51 -		Till	2'	2'	unsorted, subloose, wet. Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 7? -inch drill casing to 52' and pressure grout.	50-52'	pCi/L
- 52 - - 53 - - 54 -		Sand & Silt			52-53': Till, very dense, dry. 53-55': Sand, m. to c., some silt, gray-green, unsorted, loose, wet.		GW-2: H-3 <2,000
- 55 - - 56 - - 57 - - 58 - - 59 -			8'	8'	55-60': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 5½-inch drill casing to 58' and pressure grout.	52-60'	pCi/L
-60 - -61 - -62 - -63 -		Till	4'	4'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, several fist-sized cobbles, unsorted, very dense, dry. On boulder at 64'	60-64'	-
5 -			6'	6'	See next page.	64-70'	_

DRILL	ING	T	OG	for	Well	No:



		NG LOG 101 WE			TANKEE Station, Rowe, MA	3 01	_
Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*
- 67 - 68 - 69 -			6'	6'	Till, very dense, dry. Two or three 2 to 3-foot boulders encountered in this interval (very tough drilling). Ten feet of water in the borehole. Pounding on the boulders apparently caused the grout seal at 58' to fail. Advance 5½-inch drill casing to 65' and pressure grout.	64-70'	-
- 70 - 71 - 72 -			2'	2'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, some fist-sized cobbles, unsorted, very dense, dry.	70-72'	-
-73747576 -		Till	6'	6'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, some fist-sized cobbles, unsorted, very dense, dry. Slightly more sandy at bottom of sample.	72-78'	-
- 78 - 79 - 80 - 81 - 82 - 83 - 83 - 83 - 84 - 85 - 85 - 85 - 85 - 85 - 85 - 85		Sand & Gravel	6'	6'	78-81': Same as above. 81-83': Sand, brown, f. to c. and gravel, f. to c., subround, unsorted, loose, wet.	78-84'	GW-3: H-3 <2,000 pCi/L
85 86		Till			83-84': Till consisting of silt, olive-gray, with f. angular gravel, some sand, f., some clay, unsorted, very dense, damp. Advance 5½-inch drill casing to 84' and pressure grout. 84-85.5': Boulder 85.5-88': Till consisting of silt, olive-gray, with f. to c. angular gravel,		-
- 87 - 88 -		Sand & Silt			some sand, f. to m., some clay, some fist-sized cobbles, unsorted, very dense, dry. 88-88.5': Sand, brown, m. to c., some silt, unsorted, loose, wet.		=
-89 -90 -91 -92		Till	10'	8'	88.5-92': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, some fist-sized cobbles, unsorted, very dense, dry. Weathered schist cobble at 92'.	84-94'	GW-4: H-3 <2,000 pCi/L
- 93 - 94 -		Sand & Silt			92-94': Sand, gray and silt, trace f. to m. subangular gravel, unsorted, m. dense, wet. Fragments of weathered schist in bottom 0.5'.		_
95		Till	1.5	0.5	94-95': Same as above. Advance 5½-inch casing to 95' and grout. 95-95.5': Till, as above, very dense, damp.	94-95.5'	=
96 -97 -98 -99 -100			4.5'	3'	Albite gneiss, coarse grained, few 2 to 3mm garnets; foliation formed by white, 2 to 5mm thick feldspar-rich layers dips ~ 30 degrees. Soft zone from 96.5 to 97.5'. Many machine breaks caused by reentering borehole after failed attempt to retrieve core. Cored rock with 4-inch core barrel.	95.5-100'	-
100 -101 -102 - 104 - 5 -		Bedrock	10'	10'	Albite gneiss, coarse grained, few 2 to 3mm garnets; foliation formed by white, 2 to 5mm thick feldspar-rich layers dips ~ 30 degrees. Ironstained fracture at 101'. Another natural fracture in quartz-rich zone with small vugs at 109'. Core is mostly broken into 0.5 to 1-foot machine-broken pieces. One 2.5-foot intact piece from 101 to 103.5 feet.	100-110'	GW-5: H-3 <2,000 pCi/L

Yankee Nuclear Power MW-110B Page DRILLING LOG for Well #: 4 of 4 Station, Rowe, MA Ground Penetratio Depth Water Depth | Well Log Soil Core Description Stratigraphy Recovery n (feet) Sample No.* **-** 107 GW-5: H-3 **-** 108 Bedrock 10' 10' See previous page. 100-110' <2,000 pCi/L **-** 109 End of Boring at 110' **Well Construction Details:** 8-inch Steel Casing Extension Above Grade 0-5.7': 0-5.2': 2-inch PVC Casing Extension Above Grade 0-38': 8-inch Steel Casing and Cement/Bentonite Grout Below Grade 0-93': Portland Cement/Bentonite Grout 93-98': Bentonite Chip Seal 98-110': #0 (medium) Silica Sand Filter Pack 0-100': Schedule 40, 2" PVC Riser 100-110': Schedule 40, 2" PVC, 0.010"-Slot Screen 110': Bottom of Boring

Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-110C Rowe, Massachusetts MW-111-AB Project: Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-107 A MW-102 D ⊗ A C B Drilling Co: Driller: Roy Buckenberger / Mike Hansen Boart Longyear Date Started: Date Finished: 20-Mar-06 8-Mar-06 MW-110 AB.C.B Location: Rowe, Massachusetts Drilling Method: Rotosonic Screen Diam: 2 inches Length: Slot Size: C. B. MW-101 A Schedule 40 PVC Casing Diam: Length: 46 feet Type: Well Depth: Boring Depth: 51 feet 51 feet 10" telescoping to 51/2" Boring Diam.: Surface Elev.: 1138.0 feet NAVD '88 Ground Surface Depth to GW: 27.51 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 5.4 feet on April 18, 2006

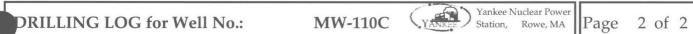
Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1			25'	No sample: see log of MW-110B		0-25'	
_ 26 _			10'	7'	See next page.	25-35'	

NOTES:

*Results of on-site radiological screening <MDL unless otherwise noted

Key to Well Construction

Sandpack Well Screen Cement/Bentonite Grout
Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing



PR	ILLIN	IG LOG for We	ell No.:		MW-110C YANKEE Station, Rowe, MA Page	2 of	2		
Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*		
2 7 - 28 - 29 -		Fill			25-30': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose.		-		
- 30 - 31 - 32 - 33 - 34 - 34			10' 7'		30-35': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Boulder at 34-35'.	25-35'	-		
- 35 36 37 38			3'	3'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 10-inch drill casing to 38', install 8-inch permanent casing, cement grout annular space and remove 10-inch casing.	35-38'			
3 9 - 40 -		Till	2'	2'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Boulder at 39-40'.	38-40']]		
- 41 42 43 45 45			5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, damp; few 2 to 3-inch silty layers that drilled easier.	40-45'	-		
- 46 47 48 49		Sand	6'	6'	45-47': Till as above. 47-50.5': Sand, brown, f. to m. some silt, unsorted, medium dense, wet. Advance 5½-inch casing to 51 feet to construct well.	45-51'	H-3<2,000 pCi/L		
-50 - - 51 -		Till			50.5-51': Till as above.				
- 52 - - 53 - - 54 - - 55 - - 56 -	Monitoring Well Construction Details 0-6.2': 8-inch Steel Casing Extension Above Grade 0-5.4': 2-inch PVC Casing Extension Above Grade								
-57 - -58 - -59 -	38-44': Bentonite Chip Seal 44-51': # 0 (medium) Silica Sand Filter Pack								
-60 - -61 - -62 - -63 -			46-51': Sche		-inch PVC, 0.010-inch Slot Well Screen		-		
64 -							-		

Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-110D Rowe, Massachusetts MW-111 AB,C. Project Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-102 D ⊗*A C B MW-107 A Drilling Co: Driller: Roy Buckenberger / Mike Hansen Boart Longyear Date Started: 9-Mar-06 Date Finished: 17-Mar-06 MW-110 A.B.C.B. Location: Rowe, Massachusetts Drilling Method: Rotosonic Screen Diam: 2 inches Length: Slot Size: 0.010 inch Casing Diam: 2 inches Schedule 40 PVC 83 feet Length: Type: Boring Depth: 90 feet Well Depth: 10" telescoping to 51/2" 88 feet Boring Diam.: Surface Elev.: 1137.7 feet NAVD '88 MP: Ground Surface Depth to GW: 49.36 feet from PVC PVC Casing Extension Above Grade: 5.7 feet On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 on April 18, 2006 Well Log Ground Water Depth Stratigraphy Recovery Soil Core Description Penetration Depth Sample No.* 2 3 5 9 10 11 No Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. sample: 12 25' see log to c., and cobbles; trace roots and wood, trace Mirafi cloth; 0-25' Fill 13 for MWunsorted, wet, loose. 110B 14 15 16 17 18 19 20 21 22 23 24 25 25-26': Fill, as above. 8' 25-33'

NOTES:
*Results of on-site radiological screening <MDL unless otherwise noted
Native Soil (collapsed borehole)

Sandpack

Well Screen

Cement/Bentonite Grout

Cement/Bentonite Grout and 8-inch Steel Casing

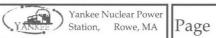
DI	311	Ι.	ING	T	OG	for	Well	No.



Sand & Gravel Sand & Gravel 8' 7' 26-29.5': Sand, brown, f. to c. and gravel, f. to m., subround, some silt, unsorted, loose, wet. 29-5-33': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 10-inch drill casing to 33', install 8-inch permanent casing, cement grout annular space and remove 10-inch casing. Boulder 33-36': Boulder. 33-44' 35-55': Sand, brown, f. to v., some f. gravel, poorly sorted, wery dense, dry. One 2-inch f. sand layer at 42.5'. 44-65': Sand, brown, f. to v., some f. gravel, poorly sorted, medium dense, wet. 47-50': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some sand, f. to m., some clay, trace cobbles, unsorted, dense, moist. 44-50': 45-47': Silt, olive, with f. angular gravel, unsorted, dense, moist. 47-50': Till consisting of silt, olive-gray, with f. to c. angular gravel, medium dense, wet. 51-52': Sand, vown, f. to v., some f. gravel, poorly sorted, medium dense, wet. 51-52': Sand, vown, f. to m., some clay, trace cobbles, unsorted, dense, dry. Advance 70': casing to 50' & grout. 51-52': Sand, vown of v gravel, intell silt, unsorted, loose, wet. 52-54.5': Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, poorly sorted, medium dense, wet. 52-54.5': Sand, vown of v gravel, intell silt, unsorted, loose, wet. 52-54.5': Sand, f. to m., some silt, olive-gray, the folious gravel, some cobbles, unsorted, folious gravel, medium dense, wet. 53-55': Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c. angular gravel, some silt, olive-gray, with f. to c.									
Sand & Gravel 28-29.5: Sand, brown, f. to c. and gravel, f. to m., subround, some estit, unsorted, loose, wet. 29-53: Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 10-inch dril casing to 33', install 8-inch permanent casing, cement grout annular space and remove 10-inch casing. 25-33' 33-44'. Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. One 2-inch f. sand layer at 42.5'. 33-44'. Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. One 2-inch f. sand layer at 42.5'. 44-46.5'. Sand, brown, f. to vc. some f. gravel, poorty sorted, medium dense, wet. 46-5-47'. Silt, olive-gray, with f. angular gravel, unsorted, dense, mist. 47-50'. Till consisting of silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some clay, unsorted, dense, dry. Advance 77' and drill casing to 50' and pressure grout. 44-50'. 45-25'. Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, unsorted, dense, dry. 44-50'. 45-52'. Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, unsorted, dense, dry. 44-50'. 45-52'. Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, unsorted, dense, moist. 11'. In which the silt unsorted dense, dry. 44-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'. 45-50'.	De	epth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	The same of the same of	Ground Water Sample No.*
29.5-33** Till consisting of silt, olive-gray, with f. to c. angular gravel, and some cash, f. to m., some day, trace cobbles, unsorted, very dense, dry. Advance 10-inch drill casing to 33', install 8-inch permanent casing, cement grout annular space and remove 10-inch casing. 33-36'; Boulder.	- 28	28 -		Sand & Gravel	8'	7'		25-33'	-
Boulder 33-36': Boulder 33-34'	- 32	1 - 2 -	Till			some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Advance 10-inch drill casing to 33', install 8-inch permanent			
Till Sand & Gravel Silt 6' 6' 4' 52-54.5': Sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. One 2-inch f. sand layer at 42.5'. 33-44' 44-50' 44-50' 47-50'; Till consisting of silt, olive-gray, with f. to c. angular gravel, edge. 44-46.5': Sand, brown, f. to vc, some f. gravel, poorly sorted, medium dense, wet. 46-5-47'; Silt, olive, with f. angular gravel, unsorted, dense, moist. 47-50'; Till consisting of silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some clay, unsorted, dense, dry. Advance 77 inch drill casing to 50' and pressure grout. 51-52'; Sand, v. and vf gravel, little silt, unsorted, loose, wet. 52-54.5'; Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some clay, unsorted, dense, dry. Advance 77 inch drill casing to 50' and pressure grout. 50-55' 52-54.5'; Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, dense, dry. 44-50' 47-50'; Till, as above, vense, dry, Advance f. gravel, poorly 50-55' 52-54.5'; Sand, f. to m., some silt, olive-gray, with f. to c. angular gravel, dense, dry. 54-55'; Till, as above, vense, dry, Advance f. gravel, gense, dry. 50-55' 53-62' 54-55'; Till, as above, vense, dry, Advance f. gravel, gense, dry. 54-55'; Till, as above, very dense, dry. 55-62' 56-62' 56-62' 57-62' 58-62'; Till, with few 3 to 6-inch layers of c. sand and gravel, poorly 55-62' 63-65'; Till, as above, very dense, dry. 62-65' 63-65'; Till, as 66-56'; Till, more coarse-grained than above, with vc sand, poorly 62-65' 63-65'; Till, more coarse-grained than above, with vc sand, poorly 62-65' 63-65'; Till, more coarse-grained than above, with vc sand, poorly 62-65' 63-65'; Till, more coarse-grained than above, with vc sand, poorly 62-65' 63-65'; Till, gravely 63-65'; Till, gravely 63-65'; Till, gravely	- 34 - 35	4 -		Boulder			33-36': Boulder.		-
44-46.5': Sand, brown, f. to vc, some f. gravel, poorly sorted, medium dense, wet. Silt 46: Silt 47-50': Till consisting of silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some clay, unsorted, dense, dry. Advance 7? -inch drill casing to 50' and pressure grout. 51-52': Sand, vc and vf gravel, little silt, unsorted, loose, wet. 52-54.5': Sand, f. to m., some silt, olive-green, tr cobbles, unsorted, m. dense, wet. 54-55': Till, as above, v dense, dry. Advance 7? " casing to 55' & grout. 55-56': Sand, f. to m., loose, wet. 56-58': Till, as above, very dense, dry. 7' 7' 58-62': Till, with few 3 to 6-inch layers of c. sand and gravel, poorly sorted, dense, moist. 11' of water in the borehole - will drill ahead to 65', then advance 7? " drill casing to 65' and pressure grout. 62-63': Till, more coarse-grained than above, with vc sand, poorly sorted, loose, moist.	- 38 - 39 - 40 - 41 - 43	8 - 9 - 0 - 1 - 2 - 3 -		Till	11'	9,	some sand, f. to m., some clay, trace cobbles, unsorted, very dense,	33-44'	-
Sand & Gravel Sand & Gravel Sand & Gravel 5' 4' 51-52': Sand, vc and vf gravel, little silt, unsorted, loose, wet. 52-54.5': Sand, f. to m., some silt, olive-green, tr cobbles, unsorted, m. dense, wet. 54-5-55': Till, as above, v dense, dry. Advance 7? " casing to 55' & grout. Sand 5' 54-5-56': Sand, f. to m., loose, wet. -56-58': Till, as above, very dense, dry. 58-62': Till, with few 3 to 6-inch layers of c. sand and gravel, poorly sorted, dense, moist. 11' of water in the borehole - will drill ahead to 65', then advance 7? " drill casing to 65' and pressure grout. 62-63': Till, as 56-58'; very dense, dry. 63-65': Till, more coarse-grained than above, with vc sand, poorly sorted, loose, moist.	= 46 = 47 = 48	5 - 6 - 7 - 8		Silt	6'	6'	dense, wet. 46.5-47': Silt, olive, with f. angular gravel, unsorted, dense, moist. 47-50': Till consisting of silt, olive-gray, with f. to c. angular gravel, some cobbles, some sand, f. to m., some clay, unsorted, dense, dry.	44-50'	=
Sand 55-56': Sand, f. to m., loose, wet. 56-58': Till, as above, very dense, dry. 7' 7' 58-62': Till, with few 3 to 6-inch layers of c. sand and gravel, poorly sorted, dense, moist. 11' of water in the borehole - will drill ahead to 65', then advance 7? " drill casing to 65' and pressure grout. Till 62-63': Till, as 56-58'; very dense, dry. 63-65': Till, more coarse-grained than above, with vc sand, poorly sorted, loose, moist.	- 51 - 52 - 53	1 - 2 - 3 - 4 -			5'	4'	52-54.5': Sand, f. to m., some silt, olive-green, tr cobbles, unsorted, m. dense, wet.	50-55'	-
62-63': Till, as 56-58'; very dense, dry. 63-65': Till, more coarse-grained than above, with vc sand, poorly sorted, loose, moist. 62-65'	- 56 - 57 - 58 - 59 - 60 - 61	57 - 58 - 59 - 60 - 61 -			7'	7'	56-58': Till, as above, very dense, dry. 58-62': Till, with few 3 to 6-inch layers of c. sand and gravel, poorly sorted, dense, moist. 11' of water in the borehole - will drill ahead to	55-62'	H-3<2,000
The state of the s	- 63	3 -					63-65': Till, more coarse-grained than above, with vc sand, poorly sorted, loose, moist.	Departed County	-

DRILLING LOG for Well No.:

MW-110D



Page 3 of 3

Depth Well L	og Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No
68 -	Till	4'	4'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	65-69'	
70 – 71 – 72 –	Boulder	4'	4'	Till, more coarse-grained than above, with vc sand, poorly sorted, loose, dry. 1-foot boulder from 72-73'.	69-73'	
73 - 74 - 75 - 76 - 77 - 78 - 79 -	Till	7'	7'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	73-80'	
80 - 81 - 82 - 83 - 44 -	Sand & Gravel	5'	5'	80-82': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 82-82.5': Sand, m. to c., some gravel, f. to m., tr silt, loose, moist. 82.5-84.5': Till, as above; top foot more sandy, medium dense. 84.5-85': Sand, m. to c., some gravel, f. to m., tr silt, loose, wet.	80-85'	
85 - 86 - 87 - 888 - 899	Sand & Gravel	5'	5'	85-88': Sand, m. to vc and gravel, f. to m., trace silt, unsorted, loose, wet. Advance 5½" drill casing to 88' to construct well. 88-90': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. On boulder at 90'.	85-90'	H-3<300 pCi/L

Monitoring Well Construction Details

0-6.2': 8-inch Steel Casing Extension Above Grade0-5.7': 2-inch PVC Casing Extension Above Grade

0-33': 8-inch Steel Casing and Cement/Bentonite Grout Below Grade

33-75': Cement/Bentonite Grout75-81': Bentonite Chip Seal

81-88': # 0 (medium) Silica Sand Filter Pack

0-83': Schedule 40, 2-inch PVC Well Riser

83-88': Schedule 40, 2-inch PVC, 0.010-inch Slot Well Screen

88-90': Native Soil (collapsed borehole)

90': Bottom of Boring

Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-111A Rowe, Massachusetts MW-ILLABO Project: Yankee Ground Water Investigation Project Number: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-102 D ⊗ A C B Drilling Co: Roy Buckenberger / Mike Hansen Boart Longyear Driller: MW-107 A Date Started: 30-Mar-06 Date Finished: 30-Mar-06 Location: Rowe, Massachusetts Drilling Method: MW-110 AB,C,I Rotosonic Screen Diam: 2 inches Length: Slot Size: 0.010 inch c. B⊗MW-101 A Schedule 40 PVC Casing Diam: 2 inches 18 feet Length: Type: Boring Depth: 23 feet Well Depth: 10" telescoping to 7? ' 23 feet Boring Diam.: Surface Elev.: 1134.8 feet NAVD '88 MP: Ground Surface Depth to GW: 20.28 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 6.2 feet on April 18, 2006 Depth | Well Log Ground Water Stratigraphy Penetration Recovery Soil Core Description Depth Sample No.* Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. 2 5' 4' 0-5 to c., and cobbles; trace roots and wood, trace Mirafi cloth; 3 unsorted, damp, loose. Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; 5' 5' unsorted, moist, loose. Advance 10" drill casing to 8', install 8" 5-10' permanent steel casing, grout annular space and remove 10" _casing. Fill 11 Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. 12 5 4' to c., and cobbles; trace roots and wood, trace Mirafi cloth; 10-15' 13 unsorted, wet at bottom, loose. 15 Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. 16 3' 3' to c., and cobbles: trace roots and wood, trace Mirafi cloth: 15-18' 17 unsorted, wet, loose. On boulder at 18'. 18 GW-1: H-19 2' 2' - Boulder 18-20' 3=5,480 pCi/L 20 Sand & Gravel 20-21': Sand, f. to c., gravel, f. to c.and silt, unsorted, loose, wet. 21 21-23': Till consisting of olive-gray silt, little clay and f. sand, f. to c. 3' 3' 20-23' 22 Till angular gravel, tr. fist-sized cobbles, unsorted, very dense, moist. Advance 7? " drill casing to 23' to construct well. 23 Bottom of Boring at 23'

*Results of on-site radiological screening <MDL unless otherwise noted

Sandpack Well Screen Cement/Bentonite Grout

Bentonite Seal Cement/Bentonite Grout and 8-inch Steel Casing

PR	ILLIN	G LOG for V	Vell No.:		MW-111A		clear Power Rowe, MA	2 of	
Depth	Well Log	Stratigraphy	Penetration	Recovery	So	il Core Description		Depth	Ground Water Sample No.*
	<u> </u>							<u> </u>	Sample No.
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-									4
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├ -			0-6.7': 8-i		itoring Well Cons Casing Extension A				4
-			1		Casing Extension Ab				4
-						Bentonite Grout Below G	rade		4
					tonite Grout]
} -			12-15.5': Be		hip Seal n) Silica Sand Filter	Pack			4
ነ), 2-inch PVC Well R				Ⅎ
						inch Slot Well Screen]
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Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-111B Rowe, Massachusetts MW-11,1 Project Number: Project: Yankee Ground Water Investigation Client: Yankee Atomic Electric Company Logged by: Dave Scott D ⊗ A C D 0 2 2 MW-107 A Drilling Co: Boart Longyear Driller: Roy Buckenberger / Mike Hansen 21-Mar-06 Date Finished: Date Started: 8 Rowe, Massachusetts Location: Drilling Method: Rotosonic MW-110 AB,C,B Screen Diam: 2 inches Length: Slot Size: 0.010 inch C B⊗ Schedule 40, PVC Casing Diam: 2 inches Length: 70 feet Type: ₩W-101 A Well Depth: Boring Depth: 80 feet 80 feet Boring Diam.: 10" telescoping to 4" Surface Elev.: 1138.2 feet NAVD '88 MP: Ground Surface Depth to GW: 35.25 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 6.0 feet on April 18, 2006

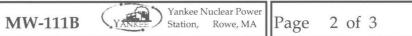
Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	5'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, dry, loose.	0-5'	-
5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15		Fill	10'	4'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, dry to wet, loose.	5-15'	
- 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 15 - 17 - 17 - 17 - 17 - 17 - 17 - 1			10'	10'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, dry to wet, loose.	15-25'	-
26		Till	3'	3'	See next page.	25-28'	

NOTES:

^{*}Results of on-site radiological screening <MDL unless otherwise noted



DRII	LING	LOC	for	We11	No.
JIIL	LING	LUG	101	vveii	INO.:



7111		G LOG 101 We	.11 1 10		1 age	2 01	
Depth We	ell Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*
- 27 - - 28 - -		3'	3'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	25-28'		
- 29 -	2'	2'	Till, Same as Above	28-30'			
-30 - -31 - -32 - -33 - -34 -		Till	5'	4'	Advance 10-inch drill casing to 30'. Install 8-inch permanent casing to 30', cement grout annular space and remove 10-inch casing. Till, Same as Above	30-35'	
- 35 - 36 - 37		Silty Sand			–35-37': Sand, brown, f. to m., little silt, unsorted, m. dense, wet.		GW-1 H- 3=2,360 — pCi/L
- 38 - - 39 -	_	Till Silty Sand	5'	5'	37-39.75': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 39.75-40': Silt, graybrown and sand, f., unsorted, m. dense, damp.	35-40'	- -
- 40 - Silty Sand - 41 42 43 44 44 48 49 49 49	5'	7'	Advance 7? " drill casing to 38' and pressure grout. Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Boulder 43-44.5'.	40-45'	3<2,000		
	5'	7'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	45-50'	-		
-51 - -52 - -53 - -54 -	- 52 - Till - 53 - - 54 - - 55 - - 56 - - 57 - - 58 - - 59 -	5'	7'	Same as above, few 6-inch boulders.	50-55'	-	
- 56 - -57 - -58 - -59 -		5'	7'	Same as above. Several feet of water in the borehole, probably from a small sand seam that was missed around 40'. Water has been following the drill down the hole since then (note 2' of slough in each sample since 40'). Collect GW-2, advance 5½-inch drill casing to 55' and pressure grout.	55-60'	-	
-60 - -61 - -62 - -63 - -64 -		Silty Sand Bedrock	5'	5'	60-63.6': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 63.6-64': Silt and sand, f. to m., moist. 64-65': Rock, pulverized, possible top of bedrock.	60-65'	GW-3: H 3<2,000 _ pCi/L
= 66 -			1'	1'	V. hard drilling. Probable bedrock. Will drill with water to core Rx.	65-66'	_

DRILLING LOG for Well #:



Yankee Nuclear Power Station, Rowe, MA

3 of 3

	Depth	Well Log	Stratigraphy	Penetratio n	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
	67 = 68 = 69 = 70 = 71 = 72 = 73 = 74 = 75 = 76 = 77 = 78 = 79 = 80 = 80		Bedrock	14'	8.5'	Albite gneiss, m. to cgrained with 2 to 5mm megacrystals of albite. Other predominant minerals are quartz and biotite. Quartz and albite layers 3 to 5mm thick form foliation dipping ~ 30 degrees. Drilling is soft to ~73'. No return of coring water until ~73' due to fractures taking water. Only two 1-foot pieces of intact core. Most of core is machine broken into 6-inch or less pieces. One iron-stained natural fracture at 79'; other possible natural fractures at 71, 77 and 78 feet. Cored rock with 4-inch core barrel.	I bb-XII	GW-4: H- 3<2,000 — pCi/L
- 1						End of Boring at 80 feet		

Well Construction Details:

0-6.4': 8-inch Steel Casing Extension Above Grade 0-6.0': 2-inch PVC Casing Extension Above Grade

0-30': 8-inch Steel Casing and Cement/Bentonite Grout Below Grade

0-62': Portland Cement/Bentonite Grout

62-67': Bentonite Chip Seal

67-80': #0 (medium) Silica Sand Filter Pack

0-70': Schedule 40 2" PVC Riser

70-80': Schedule 40 2" PVC, 0.010"-Slot Screen

80': Bottom of Boring

Yankee Nuclear Power Station **GEOLOGIST'S LOG for Well #: MW-111C** Rowe, Massachusetts MW-111 A.B.C Project Number: Yankee Ground Water Investigation Project: Client: Yankee Atomic Electric Company Logged by: Dave Scott MW-102 D ⊗ A C B Roy Buckenberger / Mike Hansen Drilling Co: Boart Longyear Driller: MW-107 A Date Started: 29-Mar-06 Date Finished: 31-Mar-06 MW-110 AB,C,E Rowe, Massachusetts Drilling Method: Rotosonic Location: Screen Diam: 2 inches Length: Slot Size: 0.010 inch Schedule 40 PVC 2 inches Length: 32 feet Type: Casing Diam: 10" telescoping to 51/2' Boring Depth: 40.5 feet Well Depth: 37 feet Boring Diam.: Surface Elev.: 1134.8 feet NAVD '88 Ground Surface Depth to GW: 21.85 feet from PVC PVC Casing Extension Above Grade: 5.8 feet on April 18, 2006 On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 - - 2 - - 3 - - 4 -			5'	4'	Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, damp, loose.	0-5'	-
5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 -		Fill	8'	4'	5-12.5': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, damp, loose. 12.5-13': Sand, brown, f. to m; some f. subround gravel, unsorted, dry, loose. On boulder at 13'.	5-13'	-
- 13 - - 14 -		Boulder	2'	0.5'	13-13.5': Garnet schist boulder. 13.5-15': No recovery due to overlying boulder. Drilled easy.	13-15'	_
- 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 16 - 16 - 17 - 17 - 17 - 17 - 17 - 17		Fill Sand & Gravel	10'	9,	15-22': Fill, dark brown, consisting of silt and sand, f. to c.; some gravel, f. to c., and cobbles; trace roots and wood, trace Mirafi cloth; unsorted, wet, loose. 22-24': Sand, f. to c., gravel, f. to c. and silt, unsorted, loose, wet. 24-25': Till, very dense, damp; see description below.	15-25'	- - - - - -
- 25 - 26 -		Till	5'	5'	See next page.	25-30'	

NOTES:

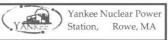
*Results of on-site radiological screening <MDL unless otherwise noted

Native Soil (collapsed borehole)

Sandpack	Well Screen	Cement/Bentonite Grout
Bentonite Seal	Cement/Bent	onite Grout and 8-inch Steel Casing

DRILLING LOG for Well No.:

MW-111C



Page 2 of 2

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*
- 27 - - 28 - - 29 - - 30 -			5'	5'	Till consisting of olive-gray silt, little clay and f. sand, f. to c. angular gravel, tr. fist-sized cobbles, unsorted, very dense, dry. Advance 10" drill casing to 29', install 8" permanent steel casing, grout annular space and remove 10" casing.	25-30'	-
-31 - -32 - -33 - -34 -		Till	5'	5'	Till consisting of olive-gray silt, little clay and f. sand, f. to c. angular gravel, tr. fist-sized cobbles, unsorted, very dense, dry.	30-35'	H-3<300 P
- 35 - - 36 -		Sand			35-36': Sand, brown, f. to m., little silt, unsorted, m. dense, wet.		
- 37 - - 38 - - 39 - - 40 -		Till	5.5'	5'	36-40.5': Till consisting of olive-gray silt, little clay and f. sand, f. to c. angular gravel, trace fist-sized cobbles, unsorted, very dense, dry. Advance 5½" drill casing to 37 feet to construct well.	35-40.5'	- - -

Bottom of Borehole at 40.5'

0-6.2':	8-inch Steel Casing Extension Above Grade
0-5.8':	2-inch PVC Casing Extension Above Grade
0-29':	8-inch Steel Casing and Cement/Bentonite Grout Below Grade
0-26':	Cement/Bentonite Grout Inside 8-inch Steel Casing
26-30':	Bentonite Chip Seal
30-37':	# 0 (medium) Silica Sand Filter Pack
0-32':	2-inch, Schedule 40 PVC Well Riser
32-37':	2-inch, Schedule 40 PVC, 0.010-inch Slot Well Screen

37-40.5': Native Soil (collapsed borehole)
40.5': Bottom of Borehole

Monitoring Well Construction Details

Yankee Nuclear Power Station MW-113A Rowe, Massachusetts **GEOLOGIST'S LOG for Well #:** Project Number: Yankee Ground Water Investigation Project: Client: Yankee Atomic Electric Company Dave Scott Logged by: Drilling Co: **Boart Longyear** Driller: Mike Hansen Date Started: 27-Apr-06 Date Finished: 27-Apr-06 Rowe, Massachusetts Location: Drilling Method: Rotosonic Screen Diam: 2 inches Length: Slot Size 0.010 inch Schedule 40 PVC Casing Diam: 2 inches Length: 15 feet Type: 10" telescoping to 51/2" Boring Depth: 25 feet Well Depth: 25 feet Boring Diam.: Surface Elev.: 1083.2 feet NAVD '88 Depth to GW: 20.50 feet from PVC Ground Surface On-Site GW Analyses: on June 26, 2006 H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 1.5 feet Well Log Ground Water Depth Stratigraphy Recovery Soil Core Description Depth Penetration Sample No.* Sandy Loam -0-2': Sand, brown, f. to m. and silt, with organic material. 2 5 4' 0-5' 3 '2-5': Sand, brown, f. to m. and gravel, m. to c., subangular, with silt, unsorted, loose, dry, no odor. Septic System 5 Leachfield (Sand 5-7.5': Sand, brown, f. to m. and gravel, m., subangular, with silt, 6 & Gravel) unsorted, loose, dry, no odor. 7 5' 5-10' 7.5-8.5': Sand, It. brown, m. to c., well sorted, loose, moist, no odor. 8 8.5-9.5': Gravel, m. to c., well sorted, loose, wet, no odor. 9.5-10': Sand, dk. brown, f., tr. m. gravel & silt, unsorted, loose, wet, no odor. 10 11 Advance 10" drill casing to 8', install 8" permanent steel casing to 12 8', cement grout annular space and remove 10" casing. 5 5' 10-15' 15': Sand, f. to vc., lt. brown, and gravel, f. to c., subround, tr silt, tr 13 cobbles, poorly sorted, loose, damp, no odor. 14 15 -15-18': Gravel, f. to c., subround to round, trace c. to vc. sand, 16 poorly sorted, loose, wet, no odor. 17 Sand & Gravel 5' 15-20' 18-19': Sand, brown, f. to m., some silt, with m. to c. gravel, poorly 18 sorted, loose, moist, no odor. 19 19-20': Sand, brown, c. to vc, well sorted, loose, wet, no odor. 20 20-22': Sand, vc., some m. to c. subround gravel, tr silt, poorly 21 sorted, loose, wet. 22 22-24': Sand, gray, f., and c. angular gravel and silt, unsorted, m. 5' 5 20-25 23 dense, wet. Sand, brown, f. to c. and gravel, f. to m., subround, with silt, 24 unsorted, loose, wet. Advance 51/2" drill casing to 25'. Bottom of Borehole at 25'

NOTES:

*Results of on-site radiological screening <MDL unless otherwise noted

Sandpack	Well Screen	Cement/Bentonite Grout
Bentonite Seal	Cement/Bent	onite Grout and 8-inch Steel Casing

PRILLING LOG for Well No.: MW-113A Yankee Nuclear Power Station, Rowe, MA Page									2 of	2
Depth	Well Log	Stratigraphy	Penetration	Recovery	5	Soil Core Description			Depth	Ground Water Sample No.*
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-										_
-		Monitoring Well Construction Details								
-			0-1.8': 8		Casing Extension					-
[Casing Extension	Above Grade nt/Bentonite Grout Belov	, Grada			_
-						e 8-inch Steel Casing	Jiauc			-
[-				entonite C	hip Seal n) Silica Sand Filte	ar Pack				_
-			1), 2-inch PVC Well					-
	15-25': Schedule 40, 2-inch PVC, 0.010-inch Slot Well Screen									_
			25': B	ottoni oi b	oring					-
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Yankee Nuclear Power Station GEOLOGIST'S LOG for Well #: MW-113C Rowe, Massachusetts Yankee Ground Water Investigation Project Number: Project: Client: Yankee Atomic Electric Company Logged by: Dave Scott Drilling Co: Boart Longyear Driller: Mike Hansen 11-Apr-06 Date Finished: Date Started: 26-Apr-06 Drilling Method: Location: Rowe, Massachusetts Rotosonic Screen Diam: 2 inches Length: 10 feet Slot Size: 0.010 inch Schedule 40, PVC Casing Diam: 2 inches Length: 127 feet Type: Well Depth: 10" telescoping to 51/2" Boring Depth: 140 feet 137 feet Boring Diam.: Surface Elev.: 1083.2 feet NAVD '88 MP: Ground Surface Depth to GW: 54.72 feet from PVC On-Site GW Analyses: H-3, Co-60, Cs-134, Cs-137 PVC Casing Extension Above Grade: 1.6 feet on June 14, 2006

Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
- 1 -		Sandy Loam			-0-2': Sand, brown, f. to m. and silt, with organic material.		_
- 3 - 4 -		Septic System	5'	4'	2-5': Sand, brown, f. to m. and gravel, m. to c., subangular, with silt, unsorted, loose, dry, no odor.	0-5'	-
6 - 7 - 8 - 9 - 9 - 9	Leachfield (Sand & Gravel)	5'	5'	-5-7.5': Sand, brown, f. to m. and gravel, m., subangular, with silt, unsorted, loose, dry, no odor7.5-8.5': Sand, lt. brown, m. to c., well sorted, loose, moist, no odor8.5-9.5': Gravel, m. to c., well sorted, loose, wet, no odor9.5-10': Sand, dk. brown, f., tr. m. gravel & silt, unsorted, loose, wet, no odor.	5-10'		
- 10 - 11 - 12 - 13 - 14 - 15 - 15 -		Sand & Gravel	5'	5'	Sand, f. to vc., lt. brown, and gravel, f. to c., subround, tr. Silt, tr. Cobbles, poorly sorted, loose, damp, no odor.	10-15'	-
- 16 - 17 - 18 - 19 - 20 - 20 -			5'	5'	 15-18': Gravel, f. to c., subround to round, trace c. to vc. sand, poorly sorted, loose, wet, no odor. 18-19': Sand, brown, f. to m., some silt, with m. to c. gravel, poorly sorted, loose, moist, no odor. 19-20': Sand, brown, c. to vc, well sorted, loose, wet, no odor. 	15-20'	-
21 = 22 = 23 = 24 = 25 = 25 = 25			5'	5'	20-22': Sand, vc., some m. to c. subround gravel, tr. Silt, poorly sorted, loose, wet. 22-24': Sand, gray, f., and c. angular gravel and silt, unsorted, m. dense, wet. Sand, brown, f. to c. and gravel, f. to m., subround, with silt, unsorted, loose, wet.	20-25'	GW-1: H-3 <2,000 – pCi/L
_ 26 _			5'	5'	See next page.	25-30'	

NOTES:

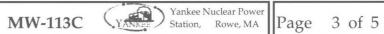
Sandpack	Well Screen	Cement/Bentonite Grout
Bentonite Seal	Cement/Bent	tonite Grout and 8-inch Steel Casing

^{*}Results of on-site radiological screening <MDL unless otherwise noted



	THE EUG IOI WE			17177-113C Station, Rowe, MA 1 age		
Depth Well Lo	g Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*
- 27 - - 28 - - 29 - 30 -	Sand & Gravel	5'	5'	25-27': Same as 24-25'. 27-30': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	25-30'	GW-1
-31 - -32 - -33 - -34 -	5'	5'	5'	Advance 10-inch drill casing to 30', install 8-inch permanent casing, cement grout the annular space and withdraw the 10-inch casing. 30-35': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	30-35'	-
- 35 37 38 39 40		5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	35-40'	-
- 41 42 43 44 45		5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	40-45'	-
- 46 47 48 49	Till	5'	5'	45-47': Till consisting of silt, olive-gray, with f. to c. angular gravel, more clay than above, unsorted, very dense, damp. 47-50': Till, same as 40-45', dry, but damp at 50'.	45-50'	GW-2: H-3<2,000
-50 - -51 - -52 - -53 - -54 -		5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 52-53' is more clay-rich. Little water at the top of the sample, coming from 50'. Water enters the borehole very slowly (0.6' in 7 minutes). Collect GW-2, advance 5½-inch drill casing to 55' and pressure grout to seal off the water-bearing zone.	50-55'	pCi/L
- 55 56 57 58 59 60 50		5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	55-60'	-
-61 - -62 - -63 - -64 -	5'		5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Sample is very hot due to friction from drill action on extremely dense till.	60-65'	-
5 - 66 -		5'	5'	See next page.	65-70'	_

DRILL	ING	LOG	for W	ell No.:	



PIKILI		LOG for We			TVIVV-113C Station, Rowe, MA Page	3 01	0	
Depth Well	l Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth (feet)	Ground Water Sample No.*	
- 67 - 68 - 69 - 70		Till	5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. Sample is very hot due to friction from drill action on extremely dense till.	65-70'	-	
-71 - -72 - -73 - -74 -			5'	5'	70-73': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 73-75': Silty clay, olive-gray, very stiff, with vf. Sand in 1-2mm lamellae; trace f. to m. angular gravel, increasing clay content with depth, damp.	70-75'	- - -	
- 75 76 77 78 79 79		Silty Clay	5'	5'	75-78': Same as 73 to 75'; very clayey on top, more silty with depth. 78-80': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	75-80'		
- 80 - - 81 - - 82 - - 83 -	-		5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	80-85'	-	
- 86 87 88 89 90			5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	85-90'	-	
90 - 91 - 92 - 93 - 94 - 95 - 95 - 95 - 95 - 95 - 95 - 95		Till	5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	90-95'	-	
95 96 97 98 - 99 - 100			5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry.	95-100'	-	
-101 - -102 - -103 - -104 -		Sand Till	5'	5'	100-103': Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, dry. 103-103.25': Sand, m., medium dense, moist. 103.25-105': Same as 100-103'.	100- 105'	GW-3: H- 3<2,000 — pCi/L	
106			5'	5'	See next page.	105- 110'	_	



			IG LOG IOI WE			TANKEE Station, Rowe, MA 1 age	4 01	
	Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil Core Description	Depth	Ground Water Sample No.*
	- 107 - - 108 - - 109 - - 110 -			5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, moist. The borehole sat open from 95' overnight and 28' of water entered by morning from sand at 103'. Collect ground water sample GW-3.	105-110'	-
	-111 - -112 - -113 - -114 -		Till	5'	5'	Till consisting of silt, olive-gray, with f. to c. angular gravel, some sand, f. to m., some clay, trace cobbles, unsorted, very dense, moist. Moisture is probably from water from 103' sitting in the hole all night. Advance 5½-inch drill casing to 115' and pressure grout to seal off water.	110-115'	-
	- 115 116 117 118 119 - 120			5'	5'	- 115-117': Till with more clay than above. Clay and silt, olive green, laminated, very stiff, tr. Sand, f. and f. angular gravel, moist.	115-120'	
	- 120 - - 121 - - 122 - - 123 - 124 - 125 -		Glaciolacustrine Silt and Clay	5'	5'	Clay and silt, olive green, laminated, very stiff, tr. Sand, f. and f. angular gravel, moist.	120-125'	
	- 126 - - 127 -					125-128': Clay and silt, olive green, laminated, very stiff, tr. Sand, f. and f. angular gravel, moist.		
- 128 - - 129 - - 130 - - 131 - - 132 - - 133 - - 134 -		Glaciolacustrine Sand	10'	10'	128-135': Sand, gray-green, f. to m. and silt, tr. Gravel, m. to c., unsorted, dense, wet. 53' of water came into the borehole overnight. Collect ground water sample GW-4 and advance 5 1/2-inch drill casing to 135'.	125-135'	GW-4: H 3<2,000 pCi/L	
	- 135 - - 136 - - 137 - - 138 - - 139 -		Till	5'	1'	Till consisting of silt, olive-gray, with sand, f. to m. and f. to c. angular gravel, some clay, trace cobbles, unsorted, very dense, dry. Drilled very hard.	135-140'	- - - -
	- 140 -		End of Boring at 140 feet					

DR	ILLING	LOG for W	ell No.:		MW-113C	Yankee Nu Yankee Nu Station,	clear Power Rowe, MA	Page	5 of	5
Depth	Well Log	Stratigraphy	Penetration	Recovery	Soil C	ore Description			Depth	Ground Water Sample No.*
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										-
	=				Mall Construction	Deteile				1
					Well Construction	Details				-
_					Casing Extension Above Casing Extension Above C					-
<u> </u>					Casing and Cement/Bent		de			
			0-120': P 120-125': E		nent/Bentonite Grout					-
<u> </u>			125-140': #	# 0 (mediun	n) Silica Sand Filter Pack					
-					, 2" PVC Riser , 2" PVC, 0.010"-Slot Sci	reen				-
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