

**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> KeySpan Hempstead MGP					<b>BORING NO.:</b> DGP-45				
<b>CLIENT:</b> KeySpan					<b>LOCATION:</b> Area D				
<b>BORING CONTRACTOR:</b> Fenley and Nicol					<b>JOB NO.:</b> 11175065				
<b>GROUNDWATER:</b>					<b>CAS.</b>	<b>SAMPLER</b>	<b>CORE</b>	<b>TUBE</b>	<b>TOTAL DEPTH:</b> 9'
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>		Macrocore			<b>DATE STARTED:</b> 12/21/07
				<b>DIA.</b>					<b>DATE FINISHED:</b> 12/21/07
				<b>WT.</b>					<b>DRILLER:</b> M. Meade
				<b>FALL</b>					<b>GEOLOGIST:</b> J. Harshman
					<b>* POCKET PENETROMETER READING</b>				<b>REVIEWED BY:</b> K. Connare

DEPTH FEET	SAMPLE				REC		DESCRIPTION				REMARKS		
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS			
										PID	Moist		
0								Concrete a ground surface.					
1		S-1	Grab			Black		0' to 2', MGP impacted material. Black stained SAND and GRACEL, coated, ALM, some wood fibers.	Fill	0.0	Dry		
2													
3								Brown		2' to 3', Stiff, clayey SILT. No impact.	ML		
4								Yellow / Orange		3' to 5', Loose, fine to coarse SAND, some fine to coarse gravel. No impact.	SP		Dry
5													
6		S-2	Macro core		40"	Yellow / Orange / Tan		Loose, fine to coarse SAND, little fine gravel, well graded. No MGP impact.	SW	0.0	Dry		
7													
8													
9													
10								End of boring: 9' bgs					
11													
12													
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16													
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18													
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Comments:	0' to 5' interval excavated by hand tools.	<b>PROJECT NO.</b>	11175065
		<b>BORING NO.</b>	DGP-45

**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> KeySpan Hempstead MGP						<b>BORING NO.:</b> DGP-46	
<b>CLIENT:</b> KeySpan						<b>LOCATION:</b> Area D	
<b>BORING CONTRACTOR:</b> Fenley and Nicol						<b>JOB NO.:</b> 11175065	
<b>GROUNDWATER:</b> Fenley and Nicol						<b>DRILLING METHOD:</b> Hand/Geoprobe	
				<b>CAS.</b>	<b>SAMPLER</b>	<b>CORE</b>	<b>TUBE</b>
					Macrocore		
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>			
				<b>DIA.</b>			
				<b>WT.</b>			
				<b>FALL</b>			
<b>* POCKET PENETROMETER READING</b>						<b>TOTAL DEPTH:</b> 9'	
						<b>DATE STARTED:</b> 12/26/07	
						<b>DATE FINISHED:</b> 12/26/07	
						<b>DRILLER:</b> M. Meade	
						<b>GEOLOGIST:</b> AM Casey	
						<b>REVIEWED BY:</b> K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0								Asphalt at surface.				
1	[Patterned]	S-1	Grab				Black	0' to 2', MGP impacted material. Stained SAND and GRAVEL, ALM, some wood.	FILL	0.0	Dry	
2												
3								Brown	2' to 3', Stiff, clayey SILT. No impact.	ML		
4							Yellow / Orange	3' to 5', Loose, fine to coarse SAND, some fine to coarse gravel. No impact.	SP		Dry	
5												
6		S-2	Macro core		40"		Yellow / Orange / Tan	Loose, fine to coarse SAND, little fine gravel, well graded. No MGP impact.	SW	0.0	Dry	
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
13												
14												
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16												
17												
18												
19												
20												

Comments:	<b>PROJECT NO.</b> 11175065
	<b>BORING NO.</b> DGP-46

**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> KeySpan Hempstead MGP						<b>BORING NO.:</b> DGP-47	
<b>CLIENT:</b> KeySpan						<b>LOCATION:</b> Area D	
<b>BORING CONTRACTOR:</b> Fenley and Nicol						<b>JOB NO.:</b> 11175065	
<b>GROUNDWATER:</b> Fenley and Nicol						<b>DRILLING METHOD:</b> Hand/Geoprobe	
				<b>CAS.</b>	<b>SAMPLER</b>	<b>CORE</b>	<b>TUBE</b>
					Macrocore		
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>			
				<b>DIA.</b>			
				<b>WT.</b>			
				<b>FALL</b>			
<b>* POCKET PENETROMETER READING</b>						<b>TOTAL DEPTH:</b> 8'	
						<b>DATE STARTED:</b> 12/26/07	
						<b>DATE FINISHED:</b> 12/26/07	
						<b>DRILLER:</b> M. Meade	
						<b>GEOLOGIST:</b> AM Casey	
						<b>REVIEWED BY:</b> K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab				Black	0' to 4', Stained, loose SAND and GRAVEL, ALM. Large concrete boulder at 4'. No MGP odors.	FILL	0.0		
1												
2												
3												
4												
5	[Pattern]	S-2	Macro CORE		38"		Dk. Brown	4' to 5', Firm clayey SILT. No evidence of impact.	ML	0.0	Dry	
6						Lt. Brown	5' to 6', Soft clayey SILT. No evidence of impact.					
7						Lt. Brown		6' to 8', Loose, fine to coarse SAND, with some poorly graded fine to coarse gravel. No impact.	SP			
8												
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16												
17												
18												
19												
20												
End of borings: 8' bgs												

Comments:	0' to 4', Hand excavated, 0' to 5' hand cleared. 0' to 5', used in GS-D-3 and CS-D-1 samples.	<b>PROJECT NO.</b>	11175065
		<b>BORING NO.</b>	DGP-47

**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> KeySpan Hempstead MGP					<b>BORING NO.:</b> DGP-48					
<b>CLIENT:</b> KeySpan					<b>LOCATION:</b> Area D					
<b>BORING CONTRACTOR:</b> Fenley and Nicol					<b>JOB NO.:</b> 11175065					
<b>GROUNDWATER:</b> Dry					<b>CAS.</b>	<b>SAMPLER</b>	<b>CORE</b>	<b>TUBE</b>	<b>TOTAL DEPTH:</b> 9'	
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>		Macrocore			<b>DATE STARTED:</b> 12/26/07	
				<b>DIA.</b>					<b>DATE FINISHED:</b> 12/26/07	
				<b>WT.</b>					<b>DRILLER:</b> M. Meade	
				<b>FALL</b>					<b>GEOLOGIST:</b> AM Casey	
					<b>* POCKET PENETROMETER READING</b>				<b>REVIEWED BY:</b> K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0		S-1	Grab			Black		0' to 1'; Stained loose SAND and GRAVEL, ALM. No odors.	FILL			
1						Brown		1' to 4' Slightly sandy clayey SILT. No evidence of impact.	ML		Dry	
2												
3												
4												
5						Lt. Brown		4' to 5', Loose fine to coarse SAND, some fine to coarse poorly graded gravel. No evidence of MGP impact.	SP		Dry	
6		S-2	Macro core			Lt. Brown / Red		Loose, fine to coarse SAND, with fine to coarse poorly graded gravel. No evidence of MGP impact.	SP	0.0	Dry	
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
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17												
18												
19												
20												

Comments:	0' to 5', used in GS-D-2 and CS-D-1 samples.	<b>PROJECT NO.</b>	11175065
		<b>BORING NO.</b>	DGP-48

**URS Corporation**

**TEST BORING LOG**

**PROJECT:** KeySpan Hempstead MGP

**BORING NO.:** DGP-49

**CLIENT:** KeySpan

**LOCATION:** Area D

**BORING CONTRACTOR:** Fenley and Nicol

**JOB NO.:** 11175065

**DRILLING METHOD:** Hand/Geoprobe

**GROUNDWATER:** Dry

**CAS. SAMPLER CORE TUBE**

**TOTAL DEPTH:** 9'

DATE	TIME	LEVEL	TYPE	TYPE
				Macrocore
				DIA.
				WT.
				FALL

**DATE STARTED:** 12/26/07


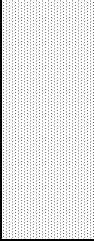
**DATE FINISHED:** 12/26/07

**DRILLER:** M. Meade

**GEOLOGIST:** J. Harshman

**\* POCKET PENETROMETER READING**

**REVIEWED BY:** K. Connare

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS		
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS			
					RQD%					PID	Moist		
0		S-1	Grab					0' to 1', MGP impacted material, ALM. No odor.	FILL	0.0			
1													
2								Brown		1' to 5', Soft, clayey SILT. No evidence of MGP impact, no odors.	ML		
3													
4													
5													
6		S-2	Macro core		40"	Orange / Lt. Brown		Loose, fine to coarse SAND, with fine to coarse poorly graded gravel. No evidence of impact.	SP	0.0	Dry		
7													
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9													
10													
11													
12													
13													
14													
15													
16													
17													
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End of boring: 9' bgs

**Comments:** 0' to 5', interval hand excavated.

**PROJECT NO.:** 11175065

**BORING NO.:** DGP-49

**URS Corporation**

**TEST BORING LOG**

**PROJECT:** KeySpan Hempstead MGP

**BORING NO.:** DGP-50

**CLIENT:** KeySpan

**LOCATION:** Area D

**BORING CONTRACTOR:** Finley and Nicol

**JOB NO.:** 11175065

**GROUNDWATER:** Dry

**CAS. SAMPLER CORE TUBE**

**DRILLING METHOD:** Hand/Geoprobe

DATE	TIME	LEVEL	TYPE	TYPE
				Macrocore
				DIA.
				WT.
				FALL

**TOTAL DEPTH:** 9'

**DATE STARTED:** 12/26/07

**DATE FINISHED:** 12/26/07

**DRILLER:** M. Meade

**GEOLOGIST:** AM Casey

**\* POCKET PENETROMETER READING**

**REVIEWED BY:** K. Connare

DEPTH FEET	SAMPLE					DESCRIPTION				REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS	
					RQD%					PID	Moist
0								Asphalt at surface			
1		S-1	Grab				Black	0' to 1', MGP impacted material. Black stained sand and gravel, ALM. No odors.	FILL	0.0	
2							Brown / Orange	1' to 2', Loose, fine to medium to coarse SAND. No impact.	SP		Dry
3							Brown	2' to 3', Soft clayey SILT. No impact.	ML		
4							Yellow / Orange	3' to 5', Loose, fine to coarse SAND, some fine to coarse gravel. No impact.	SP		Dry
5											
6		S-2	Macro core		30"		Yellow / Orange / Tan	5' to 9' Loose, fine to coarse SAND, little fine gravel, well graded. No MGP impact.	SW	0.0	Dry
7											
8											
9											
10								End of boring: 9' bgs			
11											
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19											
20											

**Comments:** 0' to 5', interval hand excavated/cleared.

**PROJECT NO.:** 11175065

**BORING NO.:** DGP-50

**URS Corporation**

**TEST BORING LOG**

<b>PROJECT:</b> KeySpan Hempstead MGP					<b>BORING NO.:</b> DGP-51	
<b>CLIENT:</b> KeySpan					<b>LOCATION:</b> Area D	
<b>BORING CONTRACTOR:</b> Finley and Nicol					<b>JOB NO.:</b> 11175065	
<b>GROUNDWATER:</b> Dry					<b>CAS.</b>	<b>SAMPLER</b>
						<b>CORE</b>
						<b>TUBE</b>
					<b>TOTAL DEPTH:</b> 9'	
<b>DATE</b>	<b>TIME</b>	<b>LEVEL</b>	<b>TYPE</b>	<b>TYPE</b>	<b>DATE STARTED:</b> 12/26/07	
				<b>DIA.</b>	<b>DATE FINISHED:</b> 12/26/07	
				<b>WT.</b>	<b>DRILLER:</b> M. Meade	
				<b>FALL</b>	<b>GEOLOGIST:</b> AM Casey	
					<b>* POCKET PENETROMETER READING</b>	
					<b>REVIEWED BY:</b> K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	REC	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0		S-1	Grab				Black	0' to 1', MGP impacted material. Black stained SAND and GRAVEL, ALM. No DNAPL	FILL	0.0	Dry	
1							Brown					1' to 5', Soft slightly sandy clayey SILT. No evidence of impact.
2												
3												
4												
5												
6		S-2	Macro core		33"		Brown / Orange	5' to 9', Loose, fine to coarse SAND, with some fine to coarse poorly graded gravel. No evidence of MGP impact.	SP	0.0	Dry	
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10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments:	0' to 5', excavated with hand tools. 0' to 5', used in CS-D-1 and GS-D-1 samples.	<b>PROJECT NO.</b>	11175065
		<b>BORING NO.</b>	DGP-51