

URS Corporation										TEST BORING LOG									
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-96									
CLIENT: KeySpan										LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065									
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs				
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore			DATE STARTED: 02/08/08						
				DIA.									DATE FINISHED: 02/08/08						
				WT.									DRILLER: Brain						
				FALL									GEOLOGIST: J. Harshman						
										* POCKET PENETROMETER READING			REVIEWED BY: K. Connare						
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist						
0		S-1	Macro core		52"			0' to 2', MGP ALM material, clinker, SAND and GRAVEL.			Fill	0.0	Dry						
1							2' to 3', ALM, clinker, SAND and GRAVEL.			1.0				Wet					
2							3' to 4', MGP impacted. Black stained, sheen, strong MGP purifier odor, wood chips.								260.0	Wet			
3							4' to 5', Stiff SILT.										ML	1.0	Moist
4							Dk. Brown												
5																			
6		S-2	Macro core		50"	Black		5' to 5.5', MGP impacted. Tarry, sheen, stained, and coated sand, gravel and wood.			ML	50.0							
7							Brown		5.5' to 6', SILT.					SP/GP	0.0	Dry			
8							Brown		6' to 10', Loose to medium dense, fine to very coarse SAND and fine to coarse GRAVEL. No impact.										
9							/ Orange												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
Comments: Perched water at ~3'.										PROJECT NO. 11175065									
										BORING NO. DGP-96									

URS Corporation										TEST BORING LOG									
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-97									
CLIENT: KeySpan										LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065									
GROUNDWATER:										CAS.		SAMPLER		CORE		TUBE		TOTAL DEPTH: 10' bgs	
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 02/08/08									
				DIA.						DATE FINISHED: 02/08/08									
				WT.						DRILLER: Brain									
				FALL						GEOLOGIST: J. Harshman									
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare									
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist						
0	[Pattern]	S-1	Macro core		46"	Grey		0' to 2', MGP material. ALM, coal fragments, clinker, wood. Wet at 2'.			Fill	0.0							
1																			
2												2' to 3', Coal fragments.					Wet		
3																			
4	[Pattern]	S-2	Macro core		52"	Dk. Brown		3' to 4', Stiff, SILT.			ML								
5						Orange		4' to 5', Loose, fine to very coarse SAND, trace fine gravel.			SP			Dry					
6						Orange / Lt. Brown		Loose, fine to very coarse SAND, little to some fine gravel. No impact.			SP	0.0		Dry					
7																			
8																			
9																			
10								End of boring: 10'											
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Comments: Perched water at ~3'.

PROJECT NO. 11175065

BORING NO. DGP-97

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-98							
CLIENT: KeySpan										LOCATION: Area E							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand			
DATE	TIME	LEVEL	TYPE	TYPE			Grab			TOTAL DEPTH: 3' bgs							
				DIA.						DATE STARTED: 12/21/07							
				WT.						DATE FINISHED: 12/21/07							
				FALL						DRILLER: M. Meade							
* POCKET PENETROMETER READING										GEOLOGIST: J. Harshman							
										REVIEWED BY: K. Connare							
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist				
0	[Hatched]	S-1	Grab			Black Stained		0' to 1', MGP impacted material: Black stained sand and gravel, ALM. No sheen from jar shake test.			Fill	0.0					
1									1' to 3', Fine to coarse SAND.			Fill	0.0	Dry			
2								Brown / Lt. Brown									
3								End of boring: 3' bgs									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
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Comments: Stepout location (section E). Excavated by hand.

PROJECT NO. 11175065

BORING NO. DGP-98

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP				BORING NO.: DGP-99			
CLIENT: KeySpan				LOCATION: Area E			
BORING CONTRACTOR: Fenley and Nicol				JOB NO.: 11175065			
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Grab		
				DIA.			
				WT.			
				FALL			
				* POCKET PENETROMETER READING			
				TOTAL DEPTH: 2' bgs			
				DATE STARTED: 12/21/07			
				DATE FINISHED: 12/21/07			
				DRILLER: M. Meade			
				GEOLOGIST: J. Harshman			
				REVIEWED BY: K. Connare			

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
										PID	Moist	
0	[Hatched]	S-1	Grab			Black Stained		0' to 1', MGP impacted material: black stained sand and gravel, ALM.	Fill		Dry	
1												
2								Brown		1' to 2', Clayey silt. No evidence of impact. No sheen observed from jarshake test.	Fill	
3								End of boring: 2' bgs				
4												
5												
6												
7												
8												
9												
10												
11												
12												
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Comments: Stepout location (section E). Excavated by hand.	PROJECT NO. 11175065	
	BORING NO. DGP-99	

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP				BORING NO.: DGP-100			
CLIENT: KeySpan				LOCATION: Area E			
BORING CONTRACTOR: Fenley and Nicol				JOB NO.: 11175065			
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Grab		
				DIA.			
				WT.			
				FALL			
				* POCKET PENETROMETER READING			
				TOTAL DEPTH: 2' bgs			
				DATE STARTED: 12/21/07			
				DATE FINISHED: 12/21/07			
				DRILLER: M. Meade			
				GEOLOGIST: J. Harshman			
				REVIEWED BY: K. Connare			

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
										PID	Moist	
0	[Hatched Box]	S-1	Grab			Black Stained		0' to 1', MGP impacted material, black stained SAND and GRAVEL, ALM.	Fill		Dry	
1												
2								Dk. Brown			1' to 2', Clayey SILT. No visual signs of impact. No sheer from jarshake test.	
3								End of boring: 2' bgs				
4												
5												
6												
7												
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Comments: Stepout location (section E). Excavated by hand.	PROJECT NO. 11175065	
	BORING NO. DGP-100	

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-101	
CLIENT: KeySpan						LOCATION: Area E	
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand	
				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Grab		
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						TOTAL DEPTH: 2' bgs	
						DATE STARTED: 12/21/07	
						DATE FINISHED: 12/21/07	
						DRILLER: M. Meade	
						GEOLOGIST: J. Harshman	
						REVIEWED BY: K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
										PID	Moist	
0	[Patterned]	S-1	Grab			Black Stained		0' to 1', MGP impacted material, black stained SAND and GRAVEL, ALM.	Fill		Dry	
1												
2								Dk. Brown		1' to 2', Clayey SILT. No visual signs of impact. No sheen from jar shake test.		
3								End of boring: 2' bgs				
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
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Comments: Stepout (section E). Excavated by hand.	PROJECT NO. 11175065	
	BORING NO. DGP-101	

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-102	
CLIENT: KeySpan						LOCATION: Area E	
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand	
				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Grab		
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						TOTAL DEPTH: 2' bgs	
						DATE STARTED: 12/21/07	
						DATE FINISHED: 12/21/07	
						DRILLER: M. Meade	
						GEOLOGIST: J. Harshman	
						REVIEWED BY: K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
										PID	Moist	
0	[Hatched]	S-1	Grab			Black Stained		0' to 1', MGP impacted material, black stained SAND and GRAVEL, ALM.	Fill		Dry	
1												
2								Dk. Brown		1' to 2', Clayey SILT. No visual signs of impact. No sheen from jar shake test.		
3								End of boring: 2' bgs				
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
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Comments: Stepout (section E). Excavated by hand.	PROJECT NO. 11175065	
	BORING NO. DGP-102	

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-104							
CLIENT: KeySpan										LOCATION: Area E							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 14' bgs			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 01/02/08							
				DIA.						DATE FINISHED: 01/02/08							
				WT.						DRILLER: Charlie							
				FALL						GEOLOGIST: AM Casey							
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare							
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS							
										PID	Moist						
0	[Hatched Pattern]	S-1	Grab			Brown		Fill material: bricks, concrete, mortar. Fine to coarse sand, fine to coarse gravel. No MGP impact.	Fill	0.0	Dry						
1																	
2																	
3																	
4																	
5																	
6																	
7		S-2	Macro core		36"			4' to 7' Concrete fragments.	Fill	0.0							
8						Orange / Red		7' to 9' Loose, fine to coarse SAND, with some poorly graded fine gravel.	GP	0.0	Dry						
9																	
10		S-3	Macro core			Lt. Brown		Loose, fine to coarse SAND, with some poorly graded fine gravel.	GP	0.0	Dry						
11																	
12																	
13																	
14																	
15								End of boring: 14' bgs									
16																	
17																	
18																	
19																	
20																	

Comments: 0' to 4' excavated by hand tools.

PROJECT NO. 11175065

BORING NO. DGP-104

URS Corporation										TEST BORING LOG										
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-105										
CLIENT: KeySpan										LOCATION: Area E										
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065										
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 15' bgs					
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 01/02/08						
				DIA.										DATE FINISHED: 01/02/08						
				WT.										DRILLER: Charlie						
				FALL										GEOLOGIST: AM Casey						
										* POCKET PENETROMETER READING			REVIEWED BY: K. Connare							
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist							
0	[Pattern]	S-1	Grab			Black		0' to 3', Loose, Clay with some sand, gravel, and brick fragments.			Fill	0.0	Dry							
1																				
2																				
3	[Pattern]	S-1	Grab			Orange / Red		3' to 5', Loose, fine to coarse SAND, some fine to coarse gravel.			GP	0.0	Dry							
4																				
5																				
6		S-2	Macro core			58"	Orange / Red		Loose, fine to coarse SAND, with loose black fine to coarse SAND, some fine to coarse gravel. No odors.			GP/SP	0.0	Dry						
7																				
8																				
9																				
10	S-3	Macro core				Red / Brown		Loose, fine to coarse SAND, with poorly graded fine gravel. No odors.			GP	0.0	Dry							
11																				
12																				
13																				
14																				
15																				
16								End of boring: 15' bgs												
17																				
18																				
19																				
20																				

Comments: Boring location inside propane tank storage area.

PROJECT NO. 11175065

BORING NO. DGP-105

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-106								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 15' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore			DATE STARTED: 01/02/08					
				DIA.									DATE FINISHED: 01/02/08					
				WT.									DRILLER: Charlie					
				FALL									GEOLOGIST: AM Casey					
										* POCKET PENETROMETER READING			REVIEWED BY: K. Connare					
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Grab			Black		0' to 3', Soft clay and gravel fill.			Fill	0.0						
1																		
2																		
3																		
4	[Pattern]					Dk. Brown		3' to 5', fine to coarse SAND, with little red fine to coarse SAND, some fine to coarse gravel at 4' to 5'.			GP	0.0	Dry					
5																		
6		S-2	Macro core		54"	Red / Lt. Brown		Loose, fine to coarse SAND, with fine to coarse poorly graded gravel.			GP	0.0	Dry					
7																		
8																		
9																		
10																		
11		S-3	Macro core		54"	Red / Lt. Brown		10' to 11', Loose, fine to coarse SAND, with fine to coarse poorly graded gravel.			GP	0.0	Dry					
12						Black		11' to 11.3', Sandy/gravelly CLAY			CL	0.0	Dry					
13						Lt. Brown / Red		11.3 to 15', Loose, fine to coarse SAND, little fine to coarse gravel.			GP	0.0	Dry					
14																		
15																		
16							End of boring: 15' bgs											
17																		
18																		
19																		
20																		

Comments: 0' to 5' excavated by hand tools. Located inside propane storage area.

PROJECT NO. 11175065

BORING NO. DGP-106

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-107								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 15' bgs			
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	DATE STARTED: 01/02/08								
										DATE FINISHED: 01/02/08								
										DRILLER: Charlie								
										GEOLOGIST: AM Casey								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist							
0	[Hatched]	S-1	Grab			Black		0' to 2.5', Soft clay with some sand, gravel and brick fragments.	CL	0.0	Dry							
1																		
2																		
3	[Dotted]	S-1	Grab			Red / Brown		2.5' to 5', Loose, fine to coarse SAND, with poorly sorted fine to coarse gravel.	GP	0.0	Dry							
4																		
5																		
6		S-2	Macro core			Red / Brown		Loose, fine to coarse SAND, with poorly sorted fine to coarse gravel.	GP	0.0	Dry							
7																		
8																		
9																		
10																		
11		S-3	Macro core			Dk. Brown		10' to 12', Loose, fine to coarse SAND with fine to coarse gravel.	GP	0.0	Dry							
12																		
13					Red / Orange		12' to 15', Fine to coarse SAND, with poorly graded fine to coarse gravel.	GP	0.0	Dry								
14																		
15																		
16							End of boring: 15' bgs											
17																		
18																		
19																		
20																		
Comments: Boring located inside propane tank yard.										PROJECT NO. 11175065								
										BORING NO. DGP-107								

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-108							
CLIENT: KeySpan					LOCATION: Area E							
BORING CONTRACTOR: Fenley and Nicol					JOB NO.: 11175065							
GROUNDWATER: ~28'					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 30' bgs			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 01/15/08			
				DIA.					DATE FINISHED: 01/15/08			
				WT.					DRILLER: M. Meade			
				FALL					GEOLOGIST: J. Harshman			
* POCKET PENETROMETER READING								REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist	
0		S-1	Grab			Dk. Brown		0' to 2', Loamy topsoil over fine to medium SAND, some fine to coarse gravel.	SP	0.0	Dry	
1												
2												
3						Brown to Lt. Brown		2' to 5', Loose, fine to coarse SAND, some fine to coarse gravel.	SP	0.0	Dry	
4												
5												
6		S-2	Macro core		54"	Lt. Brown / Orange		Loose, fine to very coarse SAND, trace to little well graded fine gravel.	SP	0.0	Dry	
7												
8												
9												
10												
11		S-3	Macro core		57"	Lt. Brown / Orange		Loose, fine to very coarse SAND, trace to little well graded fine gravel.	SP	0.0	Dry	
12												
13												
14												
15												
16		S-4	Macro core		50"	Lt. Brown / Orange		Loose, fine to very coarse SAND, trace to little well graded fine gravel.	SP	0.0	Dry	
17												
18												
19												
20												
Comments: 0' to 5' excavated with hand tools.								PROJECT NO. 11175065				
								BORING NO. DGP-108				

URS Corporation							TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-108				
CLIENT: KeySpan							SHEET: 2 of 2				
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065				
							BORING LOCATION: Area E				
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21		S-5	Macro core		46"	Lt. Brown / Orange		Loose, fine to very coarse SAND, trace to little well graded fine gravel.	SP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		40"	Lt. Brown / Orange		25' to 28', Loose, fine to very coarse SAND, trace to little well graded fine gravel.	SP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											
COMMENTS:							PROJECT NO. DGP-108				
							BORING NO. 11175065				

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-109							
CLIENT: KeySpan										LOCATION: Area E							
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065							
GROUNDWATER: ~29'										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				TOTAL DEPTH: 30' bgs			
				DIA.										DATE STARTED: 01/25/08			
				WT.										DATE FINISHED: 01/25/08			
				FALL										DRILLER: M. Meade			
										* POCKET PENETROMETER READING				GEOLOGIST: J. Harshman/AM Casey			
														REVIEWED BY: K. Connare			
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS				
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS							
										PID	Moist						
0		S-1	Macro core			Brown		0' to 4', Loose, fine to coarse SAND, little fine to coarse gravel.	SP	0.0	Dry						
1																	
2																	
3																	
4																	
5						White / Gray		4' to 5', Concrete fragments.	SP	0.0							
6		S-2	Macro core		34"	Dk. Brown		5' to 9', Loose slightly gravelly fine to coarse SAND, medium to coarse gravel.	SP	0.0	Moist						
7																	
8																	
9																	
10						Orange		9' to 10', Loose fine to coarse SAND.	SP	0.0	Moist						
11		S-3	Macro core		47"	Orange / Brown		Loose, fine to coarse SAND, with trace coarse gravel.	SP	0.0	Moist						
12																	
13																	
14																	
15																	
16		S-4	Macro core		39"	Orange / Red		Loose, fine to coarse SAND, some medium to coarse, subangular to subrounded gravel.	SP	0.0	Dry						
17																	
18																	
19																	
20																	

Comments:

PROJECT NO.	11175065
BORING NO.	DGP-109

URS Corporation							TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-109				
CLIENT: KeySpan							SHEET: 2 of 2				
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065				
							BORING LOCATION: Area E				
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21		S-5	Macro core		34"	Orange / Red		Loose, fine to coarse SAND, some medium to coarse, subangular to subrounded gravel.	SP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		33"	Orange / Red		Loose, fine to coarse SAND, some medium to coarse, subangular to subrounded gravel. Water table at ~29'.	SP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											

COMMENTS:

PROJECT NO. DGP-109
BORING NO. 11175065

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-110	
CLIENT: KeySpan						LOCATION: Area E	
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065	
GROUNDWATER: ~29'						DRILLING METHOD: Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE	TIME	LEVEL	TYPE	TYPE			
				DIA.			DATE STARTED: 01/25/08
				WT.			DATE FINISHED: 01/25/08
				FALL			DRILLER: M. Meade
* POCKET PENETROMETER READING						GEOLOGIST: J. Harshman	
						REVIEWED BY: K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS			
										PID	Moist		
0	[Hatched Pattern]	S-1	Macro core		32"	Dk. Brown		Loose to medium dense, fine to coarse SAND, little to some fine gravel. Trace concrete at 2'.	Fill	0.0	Dry		
1													
2													
3													
4													
5													
6		S-2	Macro core		42"	Dk. Brown		5' to 8', Loose, fine to coarse SAND, with some concrete, trace of black/brown stained and coated MGP impacted sand at 7', 2" thick. Note: Little perched water at 5'.	SP	0.0			
7										120.0			
8													
9										0.0			
10													
11		S-3	Macro core		44"	Lt. Brown / Orange		Loose, fine to coarse SAND, trace well graded fine gravel. No impact.	SP	0.0	Dry		
12													
13													
14													
15													
16		S-4	Macro core		40"	Lt. Brown w/ intervals of Orange / Brown		Loose to medium dense, fine to very coarse SAND, with some poorly graded fine gravel.	SP	0.0	Dry		
17													
18													
19													
20													

Comments:	PROJECT NO.	11175065
	BORING NO.	DGP-110

URS Corporation						TEST BORING LOG					
PROJECT: KeySpan Hempstead MGP						BORING NO: DGP-110					
CLIENT: KeySpan						SHEET: 2 of 2					
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065					
						BORING LOCATION: Area E					
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21		S-5	Macro core		36"	Lt. Brown		Loose to medium dense, fine to very coarse SAND, with some poorly graded fine gravel	SP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		36"	Brown / Orange		Loose, fine to very coarse SAND, some well graded fine to coarse gravel. Wet at ~29'. No impact	SP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											

COMMENTS:

PROJECT NO. DGP-110
BORING NO. 11175065

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-111	
CLIENT: KeySpan						LOCATION: Area E	
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065	
GROUNDWATER: ~29'						DRILLING METHOD: Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE	TIME	LEVEL	TYPE	TYPE			TOTAL DEPTH: 30' bgs
				DIA.			DATE STARTED: 01/25/08
				WT.			DATE FINISHED: 01/25/08
				FALL			DRILLER: M. Meade
* POCKET PENETROMETER READING						GEOLOGIST: J. Harshman	
						REVIEWED BY: K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS			
										PID	Moist		
0	[Hatched Pattern]	S-1	Macro core		41"	DK. Brown		0' to 1', Loamy topsoil.	Fill	0.0	Dry		
1								1' to 5', Loose, fine to coarse SAND, little fine gravel, 6" of concrete at ~3' bgs. No impacts.					
2													
3													
4	[Dotted Pattern]	S-2	Macro core		55"	Intervals of Brown and Lt. Brown		Loose, fine to coarse SAND, trace very coarse sand, trace fine to coarse gravel. No impacts.	SP	0.0	Dry		
6													
7													
8													
9													
10		S-3	Macro core		55"	Brown / Orange		Loose to medium dense, fine to coarse SAND, little very coarse sand, trace fine gravel.	SP	0.0	Dry		
11													
12													
13													
14													
15													
16	S-4	Macro core		50"	Orange / Brown		Loose, fine to very coarse SAND, little fine gravel. No impacts.	SP	0.0	Dry			
17													
18													
19													
20													

Comments:	PROJECT NO.	11175065
	BORING NO.	DGP-111

URS Corporation							TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-111				
CLIENT: KeySpan							SHEET: 2 of 2				
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065				
							BORING LOCATION: Area E				
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21		S-5	Macro core		42"	Orange / Brown		Loose, fine to very coarse SAND, little fine gravel. No impact.	SP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		43"	Brown / Orange		Loose, fine to very coarse SAND, little fine gravel, with little light brown sand at 28'. Wet at 29'.	SP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											
COMMENTS:							PROJECT NO. DGP-111				
							BORING NO. 11175065				

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-112								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER: ~29' bgs										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING				TOTAL DEPTH: 30' bgs		DATE STARTED: 01/25/08				
												DATE FINISHED: 01/25/08		DRILLER: M. Meade				
												GEOLOGIST: J. Harshman		REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0		S-1	Grab			Dk. Brown		0' to 1', Loamy topsoil			SP	0.0	Dry					
1																		
2						Dk Brown		1' to 5', Loose, fine to medium SAND and some fine gravel.			SP	0.0	Dry					
3																		
4																		
5																		
6		S-2	Macro core		16"	Dk. Brown / Brown		Loose, fine to medium SAND, trace to little fine gravel.			SP	0.0	Dry					
7																		
8																		
9																		
10																		
11		S-3	Macro core		32"	Dk. Brown / Brown		Loose, fine to medium SAND, trace to little fine gravel.			SP	0.0	Dry					
12						becoming Orange / Brown												
13																		
14																		
15																		
16		S-4	Macro core		46"	Brown / Orange		Loose, fine to very coarse SAND, little fine gravel.			SP	0.0	Dry					
17																		
18																		
19																		
20																		

Comments: 0' to 5' interval excavated by hand tools.

PROJECT NO. 11175065

BORING NO. DGP-112

URS Corporation							TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-112				
CLIENT: KeySpan							SHEET: 2 of 2				
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065				
							BORING LOCATION: Area E				
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21		S-5	Macro core		48"	Brown / Orange		Loose, fine to very coarse SAND, little fine gravel.	SP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		42"	Brown / Orange		Loose, fine to very coarse SAND, little fine gravel, with little light brown fine to medium sand at 29'. Wet at 29'.	SP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											
COMMENTS:							PROJECT NO. DGP-112				
							BORING NO. 11175065				

URS Corporation										TEST BORING LOG										
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-113										
CLIENT: KeySpan										LOCATION: Area E										
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065										
GROUNDWATER: ~29' bgs										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe					
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	TOTAL DEPTH: 30' bgs										
										DATE STARTED: 01/25/08										
										DATE FINISHED: 01/25/08										
										DRILLER: M. Meade										
										GEOLOGIST: J. Harshman										
										REVIEWED BY: K. Connare										
DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS								
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist									
0	[Hatched Pattern]	S-1	Macro core		40"	Brown		0' to 1', Loose, gravelly SAND, with little clay and black clinker in 0' to 1' interval.	Fill	0.0	Dry									
1																				
2																				
3																				
4																				
5																				
6	[Dotted Pattern]	S-2	Macro core		33"	Red / Orange		Loose, fine to coarse SAND, trace fine gravel. No impact.	SP	0.0	Dry									
7																				
8																				
9																				
10																				
11		S-3	Macro core		49"	Red / Orange		Loose, fine to coarse SAND, trace subangular to subround, medium to coarse gravel. No impact.	SP	0.0	Dry									
12																				
13																				
14																				
15																				
16	S-4	Macro core		45"	Dk. Brown		15' to 17', Loose, fine to coarse SAND, with subangular to subround, medium to coarse gravel.	SP	0.0	Dry										
17																				
18																				
19																				
20																				
Comments:										PROJECT NO. 11175065										
										BORING NO. DGP-113										

URS Corporation							TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-113				
CLIENT: KeySpan							SHEET: 2 of 2				
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065				
							BORING LOCATION: Area E				
DEPTH FEET	SAMPLE					DESCRIPTION					
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST	
21	[Hatched]	S-5	Macro core		52"	Red / Orange		Loose, fine to coarse SAND and GRAVEL.	SP/GP	0.0	Dry
22											
23											
24											
25											
26		S-6	Macro core		38"	Red / Orange		Loose, fine to coarse SAND and GRAVEL. Wet at ~29'	SP/GP	0.0	Dry
27											
28											
29											
30											
31							End of boring: 30' bgs				
32											
33											
34											
35											
36											
37											
38											
39											
40											
COMMENTS:							PROJECT NO. DGP-113				
							BORING NO. 11175065				

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-114								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 9' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/05/08				
				DIA.										DATE FINISHED: 02/05/08				
				WT.										DRILLER: M. Meade				
				FALL										GEOLOGIST: J. Harshman				
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Hatched]	S-1	Macro core		28"	Dk. Brown		0' to 2', Loamy topsoil, with some fine gravel.			SP	0.0	Dry					
1																		
2																		
3								2' to 5', Loose, fine to coarse SAND, trace fine to coarse gravel.			SP	0.0	Dry					
4																		
5																		
6			S-2	Macro core		20"	Dk. Brown		5' to 6', Loose, fine to coarse SAND with some fine gravel.			SP	0.0	Dry				
7							Black / Brown		6' to 9', MGP impact. Black, wet, sheen, "muddy", some brown fine to coarse SAND and fine gravel. MGP odor. Refusal at 9'			SP	33.0	Wet				
8																		
9																		
10								End of boring: 9' bgs										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Refusal at 9' believed to be foundation/floor of return sump structure.

PROJECT NO. 11175065

BORING NO. DGP-114

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-115								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 3' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/05/08				
				DIA.										DATE FINISHED: 02/05/08				
				WT.										DRILLER: M. Meade				
				FALL										GEOLOGIST: J. Harshman				
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0		S-1	Macro core		21"	Dk. Brown		0' to 2', Loamy topsoil with fine gravel.			SP	0.0	Dry					
1																		
2																		
3						Brown		2' to 3', Loose, fine to coarse SAND, with some fine gravel. Refusal at 3'.			SP		Dry					
4								End of boring: 3' bgs										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
Comments:										PROJECT NO. 11175065								
										BORING NO. DGP-115								

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-116								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER: ~29' bgs										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	REVIEWED BY:	TOTAL DEPTH: 30' bgs								
										DATE STARTED: 02/05/08								
										DATE FINISHED: 02/05/08								
										DRILLER: M. Meade								
										GEOLOGIST: J. Harshman								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Hatched]	S-1	Macro core		32"	Dk. Brown		0' to 2', Loamy topsoil, with some fine gravel.			SP	0.0	Dry					
1																		
2								2' to 5', Loose fine to coarse SAND, some fine to coarse gravel, trace cobble.			SP	0.0	Dry					
3																		
4																		
5	S-2	Macro core		40"	Red / Brown		5' to 6', Fill type material: concrete fragments, coal, sand and gravel.			Fill	7.0	Dry						
6																		
7							6' to 7', Very fine SAND.			Fill	0.0	Moist to Wet						
8	7' to 8', MGP impact black stained and coated very fine to fine SAND with wood strands.			Fill	13.0	Wet												
9							S-3	Macro core		34"	Orange / Brown		8' to 10', Loose, fine to medium SAND.			SP	0.0	Dry
10																		
11	Loose, fine to coarse SAND, trace fine gravel. No impact.			SP	0.0	Dry												
12																		
13																		
14	S-4	Macro core		44"	Orange / Yellow / Brown		Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry						
15																		
16																		
17																		
18																		
19																		
20																		

Comments: 5' to 10' Fill/SP used in HCN:1

PROJECT NO. 11175065

BORING NO. DGP-116

URS Corporation							TEST BORING LOG					
PROJECT: KeySpan Hempstead MGP							BORING NO: DGP-116					
CLIENT: KeySpan							SHEET: 2 of 2					
BORING CONTRACTOR: Fenley and Nicol							JOB NO.: 11175065					
							BORING LOCATION: Area E					
DEPTH FEET	SAMPLE					DESCRIPTION						
	STRATA SYMBOL	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	Remarks PID MOIST		
21		S-5	Macro core		42"	Orange / Yellow / Brown		Loose, fine to coarse SAND, some fine gravel. No impact.	SP	0.0	Dry	
22												
23												
24												
25												
26			S-6	Macro core		38"	Lt. Brown / Tan		Loose, fine to coarse SAND, trace fine gravel. Wet at 29'. No impact.	SP	0.0	Dry
27												
28												
29												
30												
31								End of boring: 30' bgs				
32												
33												
34												
35												
36												
37												
38												
39												
40												
COMMENTS:							PROJECT NO. DGP-116					
							BORING NO. 11175065					

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-117								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/08/08				
				DIA.										DATE FINISHED: 02/08/08				
				WT.										DRILLER: Brain				
				FALL										GEOLOGIST: J. Harshman				
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Macro core		50"	Black		0' to 2', MGP material. ALM, SAND and GRAVEL.			Fill	0.0	Dry					
1																		
2																		
3									Black		2' to 4', MGP, impacted. Stained and coated, sheen, slightly tarry, SAND and GRAVEL, purifier odor.			Fill	50.0	Wet		
4																		
5	[Pattern]	S-2	Macro core		42"	Dk. Brown		4' to 5', Stiff, SILT.			ML		Dry to Moist					
6								Dk. Brown to Brown		5' to 9', Stiff, SILT.			ML	0.0	Moist			
7																		
8																		
9																		
10										Orange		9' to 10', Loose, fine to very coarse SAND, some fine gravel. No impact.			SP		Dry	
11								End of boring: 10'										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'.

PROJECT NO. 11175065

BORING NO. DGP-117

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-118								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	TOTAL DEPTH: 10' bgs								
										DATE STARTED: 02/11/08								
										DATE FINISHED: 02/11/08								
										DRILLER: Brain								
										GEOLOGIST: J. Harshman								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist							
0								Gravel at surface.										
1		S-1	Macro core		48"	Brown		0' to 2', MGP material. ALM, coal fragments, fine to medium SAND and GRAVEL.	Fill	0.0	Dry							
2						Brown		2' to 3', Medium dense, fine to coarse SAND, trace wood, little fine gravel. Slight sheen, faint MGP odor.	SP	0.0	Moist							
3						Black		3' to 4', Stained MGP impacted material. Sheen, faint MGP odor.		3.0	Wet							
4						Dk. Brown		4' to 5', Stiff SILT. No impact.	ML	0.0	Dry							
5						Dk. Brown		5' to 6', Stiff, SILT. No impact.	ML	0.0	Dry							
6		S-2	Macro core		50"	Brown		6' to 10', Loose, fine to coarse SAND and GRAVEL. No impact.	GP/SP	0.0	Dry							
7																		
8																		
9																		
10																		
11								End of boring: 10'										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
Comments: Perched water at ~3'.										PROJECT NO. 11175065								
										BORING NO. DGP-118								

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP					BORING NO.: DGP-119					
CLIENT: KeySpan					LOCATION: Area E					
BORING CONTRACTOR: Fenley and Nicol					JOB NO.: 11175065					
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe	
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			TOTAL DEPTH: 10' bgs	
				DIA.					DATE STARTED: 02/11/08	
				WT.					DATE FINISHED: 02/11/08	
				FALL					DRILLER: Brain	
* POCKET PENETROMETER READING								GEOLOGIST: J. Harshman		
								REVIEWED BY: K. Connare		

DEPTH FEET	SAMPLE					DESCRIPTION				REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID Moist					
										PID	Moist				
0								Gravel at surface.							
1	[Pattern]	S-1	Macro core		54"			0' to 2', MGP material and fill. ALM, SAND and GRAVEL, red brick, moist at 2'.	Fill	0.0					
2								Brown				2' to 3', Stiff SILT, some sand and gravel. Slight sheen.	0.0	Moist to Wet	
3								Black				3' to 4', Stained MGP impacted SAND and GRAVEL. Sheen, MGP (purifier?) odor.	SP	45.0	Wet
4								Dk. Brown				4' to 5', Stiff SILT. No impact.	ML	0.0	Dry to Moist
5	[Pattern]	S-2	Macro core		50"			Dk. Brown	ML	0.0	Dry				
6								Orange / Brown				5' to 6', Stiff SILT.			
7												6' to 10', Loose, fine to vey coarse SAND and fine to coarse GRAVEL. No impact.	SP		Dry
8															
9															
10								End of boring: 10'							
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

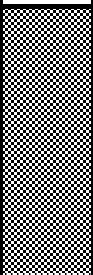
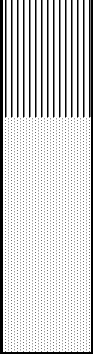
Comments: Perched water at ~3'.					PROJECT NO. 11175065				
					BORING NO. DGP-119				

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-120								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 02/11/08								
				DIA.						DATE FINISHED: 02/11/08								
				WT.						DRILLER: Brain								
				FALL						GEOLOGIST: J. Harshman								
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist							
0								Gravel at surface										
1	[Pattern]	S-1	Macro core		52"	Brown		0' to 2', MGP material. ALM, coal fragments, SAND, fine to coarse gravel.	Fill	0.0	Dry							
2						Brown		2' to 3', Fine to coarse sandy SILT and some fine gravel.	Fill	0.0	Moist							
3						Black		3' to 4', Stained MGP impacted. SAND and GRAVEL, ALM clinker, slag. Faint MGP odor,	Fill	10.0	Wet							
4						Dk. Brown		4' to 5', Stiff SILT.	ML	0.0	Moist to Dry							
5						Dk. Brown to Brown		5' to 7', Medium stiff, SILT.	ML	0.0	Dry							
6	[Pattern]	S-2	Macro core		54"	Orange / Tan		7' to 10', Loose, Fine to coarse SAND and fine to coarse GRAVEL. No impact.	SP	0.0	Dry							
7																		
8																		
9																		
10																		
11								End of boring: 10'										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'. 3' to 4' HCN:1

PROJECT NO. 11175065

BORING NO. DGP-120

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-121								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE							Macrocore		DATE STARTED: 02/11/08					
				DIA.									DATE FINISHED: 02/11/08					
				WT.									DRILLER: Brain					
				FALL									GEOLOGIST: J. Harshman					
										* POCKET PENETROMETER READING			REVIEWED BY: K. Connare					
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0		S-1	Macro core		56"	Black		0' to 1', MGP material. ALM, wood, SAND and GRAVEL.			Fill	0.0	Dry					
1						Brown		1' to 3', Loose, silty SAND with some fine gravel.			Fill	0.0	Moist					
2																		
3																		
4										Black		3' to 4', Stained MGP impacted fine to medium SAND and GRAVEL. ALM, sheen, faint odor.			Fill	10.0	Wet	
5		S-2	Macro core		52"	Dk. Brown		4' to 5', Stiff SILT. No impact.			ML	0.0	Dry					
6						Dk. Brown		4' to 5', Stiff SILT. No impact.			ML	0.0	Dry					
7											6' to 10', Loose, fine to very coarse SAND, some fine gravel. No impact.			SP	0.0	Dry		
8										Brown / Orange / Tan								
9																		
10								End of boring: 10'										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'. 3' to 4' HCN: 2

PROJECT NO. 11175065

BORING NO. DGP-121

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-122								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	TOTAL DEPTH: 10' bgs								
										DATE STARTED: 02/11/08								
										DATE FINISHED: 02/11/08								
										DRILLER: Brain								
										GEOLOGIST: J. Harshman								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist							
0	[Pattern]	S-1	Macro core		52"	Black		0' to 2', MGP material. ALM, some fine to medium SAND, fine GRAVEL, red brick.	Fill	0.0	Dry							
1						Brown		2' to 3', Silty SAND with gravel.										
2						Brown												
3						Black						3' to 4', Stained MGP impacted SAND and GRAVEL, wood. Sheen MGP odor.						
4						Dk. Brown							4' to 5', Stiff, SILT.					
5	[Pattern]	S-2	Macro core		56"	Dk. Brown to Brown		5' to 6', Stiff SILT.	ML	0.0	Dry							
6						Orange		6' to 10', Loose, fine to coarse SAND, some fine to coarse gravel. No impact.										
7																		
8																		
9																		
10																		
11							End of boring: 10'											
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
Comments: Perched water at ~3'. 3' to 4', HCN:1										PROJECT NO. 11175065		BORING NO. DGP-122						

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-123								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 02/11/08								
				DIA.						DATE FINISHED: 02/11/08								
				WT.						DRILLER: Brain								
				FALL						GEOLOGIST: J. Harshman								
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	PID	Moist						
0	[Pattern]	S-1	Macro core		57"	Brown		0' to 2', MGP material. ALM, SAND and GRAVEL.		Fill	0.0	Dry						
1																		
2									Brown		2' to 3', Medium dense, fine to medium SAND with fine gravel.		Fill	0.0	Wet Moist to Wet			
3									Black		3' to 4', Stained MGP impacted SAND and GRAVEL. Sheen, MGP odor.		Fill	40.0	Wet			
4									Dk. Brown		4' to 5', Stiff SILT.		ML		Moist			
5	[Pattern]	S-2	Macro core		52"	Dk. Brown		5' to 6', Stiff SILT. No impact.		ML	0.0	Dry						
6																		
7									Lt. Brown / Tan		6' to 10', Loose, fine to very coarse SAND and fine to coarse GRAVEL. No impact.		GP/SP	0.0	Dry			
8																		
9																		
10								End of boring: 10'										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'. 3' to 4' HCN:1

PROJECT NO. 11175065

BORING NO. DGP-123

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-124								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/11/08				
				DIA.										DATE FINISHED: 02/11/08				
				WT.										DRILLER: Brain				
				FALL										GEOLOGIST: J. Harshman				
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Macro core		50"	Brown		0' to 2', MGP material. ALM, fine to medium SAND, fine to coarse gravel.			Fill	0.0	Moist					
1																		
2									Brown		2' to 3', Silty SAND, some fine gravel.			Fill	120.0	Moist to Wet		
3									Black Stained		3' to 4', MGP impacted SAND and GRAVEL. Sheen, moderate MGP (purifier?) odor.			Fill	75.0	Wet		
4									Dk. Brown to Brown		4' to 5', Stiff, SILT.			ML	0.0	Dry		
5	[Pattern]	S-2	Macro core		48"	Brown		5' to 6', Stiff, SILT.			ML	0.0	Dry					
6																		
7									Lt. Brown / Tan		6' to 10', Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry		
8																		
9																		
10																		
11								End of boring: 10'										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'.

PROJECT NO. 11175065

BORING NO. DGP-124

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-125								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE							Macrocore		DATE STARTED: 02/11/08					
				DIA.									DATE FINISHED: 02/11/08					
				WT.									DRILLER: Brain					
				FALL									GEOLOGIST: J. Harshman					
										* POCKET PENETROMETER READING			REVIEWED BY: K. Connare					
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Macro core		50"	Black		0' to 2', MGP material. ALM, concrete fragments, SAND and GRAVEL.			Fill	0.0	Dry					
1																		
2																		
3																		
4								2' to 4', MGP impacted SAND, GRAVEL, wood. Sheen, moderate MGP odor.			Fill	0.0	Wet					
5																		
6	[Pattern]	S-2	Macro core		48"	Brown		4' to 5', Stiff, SILT			ML	0.0	Dry to Moist					
7																		
8									Lt. Brown Orange		6' to 10', Loose, fine to coarse SAND with some fine gravel. No MGP impact.			SP	0.0	Dry		
9																		
10																		
11																		
12							End of boring: 10'											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'. 3.5' HCN:1

PROJECT NO. 11175065

BORING NO. DGP-125

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-126								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 02/11/08								
				DIA.						DATE FINISHED: 02/11/08								
				WT.						DRILLER: Brain								
				FALL						GEOLOGIST: J. Harshman								
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Macro core		52"	Black		0' to 2', MGP material. ALM, SAND and GRAVEL.			Fill	0.0	Dry					
1																		
2																		
3										Brown		2' to 3', Compressed wood fragments/chips. Strong odor, sheen.			Fill	100.0	Moist	
4										Black Stained		3' to 4', MGP impacted SAND and GRAVEL. Sheen, odor.			Fill	30.0	Wet	
5	[Pattern]	S-2	Macro core		54"	Dk. Brown		4' to 5', Stiff, SILT.			ML	0.0	Dry					
6																		
7																		
8																		
9																		
10						Lt. Brown / Orange		Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry					
11								End of boring: 10'										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'.

PROJECT NO. 11175065

BORING NO. DGP-126

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-127								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs			
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/11/08				
				DIA.										DATE FINISHED: 02/11/08				
				WT.										DRILLER: Brain				
				FALL										GEOLOGIST: J. Harshman				
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0		S-1	Macro core		54"	Black		0' to 2', MGP material. ALM, coal fragments, SAND and GRAVEL.			Fill	0.0	Dry					
1																		
2																	Wet	
3											Dk. Brown		2' to 3', Clayey SILT.			ML	0.0	Dry
4											Lt. Brown / Orange		3' to 5', Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry
5		S-2	Macro core		50"	Lt. Brown / Orange / Tan			Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry				
6																		
7																		
8																		
9																		
10	End of boring: 10'																	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: Perched water at ~3'.

PROJECT NO. 11175065

BORING NO. DGP-127

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP				BORING NO.: DGP-128			
CLIENT: KeySpan				LOCATION: Area E			
BORING CONTRACTOR: Fenley and Nicol				JOB NO.: 11175065			
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE	TIME	LEVEL	TYPE	TYPE			TOTAL DEPTH: 10' bgs
				DIA.			DATE STARTED: 02/12/08
				WT.			DATE FINISHED: 02/12/08
				FALL			DRILLER: Brain
				* POCKET PENETROMETER READING			GEOLOGIST: J. Harshman
							REVIEWED BY: K. Connare

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID		
					RQD%					Moist		
0	[Hatched Pattern]	S-1	Macro core		52"	Brown		0' to 3'; MGP fill material. Black ALM, coal fragments, SAND and fine GRAVEL, trace red brick.	Fill		Moist to Dry	
1												
2												
3												
4	[Vertical Lines]	S-2	Macro core		54"	Brown		3' to 4'; MGP impacted material. Compressed wood chips, strong odor, trace black staining and sheen.	77			
5												
6												
7												
8	[Dotted Pattern]					Dk. Brown to Brown		4' to 7', Stiff SILT	ML	5.0	Dry	
9												
10												
11												
12	[Horizontal Lines]					Dk. Brown to Brown		7' to 10', Loose, fine to very coarse SAND and some fine gravel. No impact.	GP/SP	0.0	Dry	
13												
14												
15												
16								End of boring: 10'				
17												
18												
19												
20												

Comments: Perched water at ~3'. Fill 3' to 4' HCN:2.						PROJECT NO. 11175065	
						BORING NO. DGP-128	

URS Corporation										TEST BORING LOG																																																	
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-129																																																	
CLIENT: KeySpan										LOCATION: Area E																																																	
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065																																																	
GROUNDWATER:										CAS.		SAMPLER		CORE		TUBE		DRILLING METHOD: Geoprobe																																									
												Macrocore						TOTAL DEPTH: 10' bgs																																									
DATE										TIME										LEVEL										TYPE										TYPE										DATE STARTED: 02/12/08									
																																																		DATE FINISHED: 02/12/08									
																																																		DRILLER: Brain									
																																																		GEOLOGIST: J. Harshman									
																																																		REVIEWED BY: K. Connare									
DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS																																														
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	REMARKS																																																
											PID	Moist																																															
0	[Pattern]	S-1	Macro core		56"	Brown		0' to 3', MGP fill material. ALM coal fragments, clinker, SAND and GRAVEL. Faint MGP odor. Moist to wet at 3', sheen.		Fill	0.0	Moist to Wet																																															
1				0.0																																																							
2				0.0																																																							
3				50.0																																																							
4	[Pattern]	S-2	Macro core			Dk. Brown Brown Orange		3' to 4', SILT		ML	0.0	Moist to Dry																																															
5				0.0							Dry																																																
6				0.0				Dry																																																			
7																																																											
8																																																											
9																																																											
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11								End of boring: 10'																																																			
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16																																																											
17																																																											
18																																																											
19																																																											
20																																																											
Comments: Preched water at 3'										PROJECT NO. 11175065		BORING NO. DGP-129																																															

URS Corporation										TEST BORING LOG									
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-130									
CLIENT: KeySpan										LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065									
GROUNDWATER:										CAS.		SAMPLER		CORE		TUBE		TOTAL DEPTH: 10' bgs	
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/12/08					
				DIA.										DATE FINISHED: 02/12/08					
				WT.										DRILLER: Brain					
				FALL										GEOLOGIST: J. Harshman					
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare					
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	PID	Moist							
0	[Pattern]	S-1	Macro core		52"	Black		0' to 3', MGP fill material. ALM, coal fragments, SAND and fine GRAVEL, clinker slag, trace compressed wood, trace black staining at 3'. Jar shake test revealed a heavy sheen.		Fill	0.0	Dry							
1																			
2																		20.0	
3	[Pattern]					Dk. Brown		3' to 4', Stiff SILT.		ML	0.0	Dry							
4																			
5																		0.0	
6	[Pattern]	S-2	Macro core		58"	Lt. Brown Orange		Loose, fine to very coarse SAND and fine to coarse GRAVEL. No impact.		GP/SP	0.0	Dry							
7																			
8																			
9																			
10																			
11								End of boring: 10'											
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Comments: No perched water. At 2' HCN:1

PROJECT NO. 11175065
BORING NO. DGP-130

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-131									
CLIENT: KeySpan						LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065									
GROUNDWATER:						CAS.		SAMPLER		CORE		TUBE		DRILLING METHOD: Geoprobe	
DATE		TIME		LEVEL		TYPE		TYPE				TOTAL DEPTH: 5' bgs		DATE STARTED: 02/12/08	
								Macrocore						DATE FINISHED: 02/12/08	
						DIA.								DRILLER: Brain	
						WT.								GEOLOGIST: J. Harshman	
						FALL								REVIEWED BY: K. Connare	
* POCKET PENETROMETER READING															

DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS				
										PID	Moist			
0		S-1	Macro core			48"	Black	0' to 3', MGP fill material. ALM, coal fragments, clinker, slag, SAND and GRAVEL. Wet at 3'. Jar shake test revealed no sheen.	Fill	0.0				
1														
2														
3											0.0	Wet		
4									Dk. Brown	3' to 4', Stiff SILT.	ML	0.0	Dry	
5						Orange / Brown	4' to 5', Loose, fine to coarse SAND, some fine to coarse gravel.	SP	0.0	Dry				
6							End of boring: 5'							
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Comments: Perched water at 3'.						PROJECT NO. 11175065					
						BORING NO. DGP-131					

URS Corporation										TEST BORING LOG									
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-132									
CLIENT: KeySpan										LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065									
GROUNDWATER:										CAS.		SAMPLER		CORE		TUBE		TOTAL DEPTH: 5' bgs	
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore				DATE STARTED: 02/12/08								
				DIA.							DATE FINISHED: 02/12/08								
				WT.							DRILLER: Brain								
				FALL							GEOLOGIST: J. Harshman								
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare									
DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist						
0		S-1	Macro core		52"	Black		0' to 3', MGP fill material. Black ALM, coal, SAND and GRAVEL. Jar shake test revealed a sheen.			Fill	7.7	Dry						
1																			
2																			
3																			
4										Dk. Brown		3' to 4', Stiff SILT.			ML	0.0	Dry		
5						Orange		4' to 5', Loose, fine to coarse SAND, some fine gravel.			SP	0.0	Dry						
6								End of boring: 5'											
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Comments: No perched water. Jar shake test equaled sheen.

PROJECT NO. 11175065

BORING NO. DGP-132

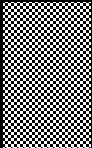
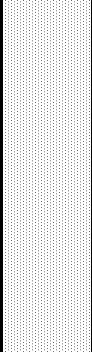
URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-133								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	TOTAL DEPTH: 10' bgs								
										DATE STARTED: 02/12/08								
										DATE FINISHED: 02/12/08								
										DRILLER: Brain								
										GEOLOGIST: J. Harshman								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		USCS	PID	Moist						
0	[Pattern]	S-1	Macro core		48"	Black		0' to 4.5', MGP fill material. ALM, slag, coal, SAND and GRAVEL. Wet at 3', sheen, faint odor.		Fill	0.0							
1																		
2																		
3																		
4																		
5	[Pattern]	S-2	Macro core		54"	Blk/Brown Olive		4.5' to 5', SILT 5' to 7', Medium stiff to soft, SILT. Faint MGP odor.		ML ML	10.0	Moist						
6																		
7																		
8																		
9																		
10	[Pattern]					Red / Orange / Brown		7' to 10', Loose, fine to coarse SAND, some fine to coarse gravel. No impact.		SP	3.0	Moist to Dry						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
End of boring: 10'																		
Comments: Perched water at 3'. Jar shake test equaled sheen. At 3' HCN:2										PROJECT NO. 11175065								
										BORING NO. DGP-133								

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-134								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 5' bgs			
DATE	TIME	LEVEL	TYPE	TYPE							Macrocore		DATE STARTED: 02/12/08					
				DIA.									DATE FINISHED: 02/12/08					
				WT.									DRILLER: Brain					
				FALL									GEOLOGIST: J. Harshman					
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare				
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0		S-1	Macro core			Black		0' to 2', MGP fill material. Black ALM, coal. Jar shake test revealed no sheen.			Fill	0.0	Dry					
1																		
2																		
3									Dk. Brown Brown		2' to 4', SILT			ML	0.0	Moist to Dry		
4																		
5						Orange		4' to 5', Loose, fine to coarse SAND, some fine to coarse gravel.			SP	0.0	Dry					
6								End of boring: 5'										
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Comments: No perched water. Jar shake test equaled no sheen.

PROJECT NO. 11175065

BORING NO. DGP-134

URS Corporation										TEST BORING LOG									
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-135									
CLIENT: KeySpan										LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065									
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	TOTAL DEPTH: 10' bgs				
DATE	TIME	LEVEL	TYPE	TYPE						Macrocore				DATE STARTED: 02/12/08					
				DIA.										DATE FINISHED: 02/12/08					
				WT.										DRILLER: Brain					
				FALL										GEOLOGIST: J. Harshman					
										* POCKET PENETROMETER READING				REVIEWED BY: K. Connare					
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS						
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist						
0		S-1	Macro core		50"	Black		0' to 2', MGP fill material. Black ALM, coal. Jar shake test revealed no sheen.			Fill	0.0	Dry						
1																			
2																			
3										Dk. Brown to Brown					2' to 4', SILT.	ML	0.0	Dry	
4																			
5		S-2	Macro core		48"	Orange / Tan		4' to 5', Loose, fine to coarse SAND, some fine to coarse gravel.			SP	0.0	Dry						
6														Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry
7																			
8																			
9																			
10																			
11								End of boring: 10'											
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Comments: No perched water. Jar shake test equaled no sheen.

PROJECT NO. 11175065

BORING NO. DGP-135

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-136									
CLIENT: KeySpan						LOCATION: Area E									
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065									
GROUNDWATER:						CAS.		SAMPLER		CORE		TUBE		DRILLING METHOD: Geoprobe	
DATE		TIME		LEVEL		TYPE		TYPE				TOTAL DEPTH: 5' bgs		DATE STARTED: 02/12/08	
								Macrocore						DATE FINISHED: 02/12/08	
						DIA.								DRILLER: Brain	
						WT.								GEOLOGIST: J. Harshman	
						FALL								REVIEWED BY: K. Connare	
* POCKET PENETROMETER READING															

DEPTH FEET	SAMPLE						DESCRIPTION						REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS				
										PID	Moist			
0	[Pattern]	S-1	Macro core		48"	Black		0' to 3', MGP fill material. Black ALM, coal, sand, gravel. Jar shake test revealed sheen.	Fill	0.0				
1														
2														
3														
4	[Pattern]					Dk. Brown to Brown		3' to 5', SILT.	ML	0.0	Dry			
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Comments: Perched water at 3'. Jar shake test equaled sheen.						PROJECT NO. 11175065					
						BORING NO. DGP-136					

URS Corporation										TEST BORING LOG								
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-137								
CLIENT: KeySpan										LOCATION: Area E								
BORING CONTRACTOR: Fenley and Nicol										JOB NO.: 11175065								
GROUNDWATER:										CAS.		SAMPLER	CORE	TUBE	DRILLING METHOD: Geoprobe			
DATE	TIME	LEVEL	TYPE	TYPE	TYPE	DIA.	WT.	FALL	* POCKET PENETROMETER READING	TOTAL DEPTH: 10' bgs								
										DATE STARTED: 02/12/08								
										DATE FINISHED: 02/12/08								
										DRILLER: Brain								
										GEOLOGIST: J. Harshman								
										REVIEWED BY: K. Connare								
DEPTH FEET	SAMPLE					DESCRIPTION							REMARKS					
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION			USCS	PID	Moist					
0	[Pattern]	S-1	Macro core		50"	Black		0' to 3', MGP fill material. Black ALM and coal, SAND and GRAVEL. Jar shake test revealed no sheen.			Fill	0.0	Dry to Moist					
1																		
2																		
3	[Pattern]	S-1	Macro core		50"	Dk. Brown		3' to 4', SILT			ML	0.0	Dry					
4																		
5									Orange		4' to 5', Loose, fine to coarse SAND, fine gravel.			SP	0.0	Dry		
6									Orange / Brown		Loose, fine to coarse SAND, some fine gravel. No impact.			SP	0.0	Dry		
7	[Pattern]	S-2	Macro core		50"													
8																		
9											End of boring: 10'							
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
Comments: No perched water. Jar shake test equaled no sheen.										PROJECT NO. 11175065								
										BORING NO. DGP-137								

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-138	
CLIENT: KeySpan						LOCATION: Area E	
BORING CONTRACTOR: Fenley and Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Geoprobe	
						TOTAL DEPTH: 5' bgs	
DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
						Macrocore	
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						DATE STARTED: 02/12/08	
						DATE FINISHED: 02/12/08	
						DRILLER: Brain	
						GEOLOGIST: J. Harshman	
						REVIEWED BY: K. Connare	

DEPTH FEET	SAMPLE					DESCRIPTION						REMARKS		
	STRATA	NO.	TYPE	BLOWS PER 6"	REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS				
										PID	Moist			
0		S-1	Macro core		50"	Black		0' to 3', MGP fill material. Black ALM and coal. Jar shake test revealed no sheen.	Fill	0.0	Dry			
1														
2														
3														
4											Brown		3' to 4' Stiff SILT.	ML
5						Orange		4' to 5', Loose fine to coarse SAND, some fine gravel.	SP	0.0	Dry			
6								End of boring: 5'						
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

Comments: No perched water. Jar shake test equaled no sheen.	PROJECT NO.	11175065
	BORING NO.	DGP-138