

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-1							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 9'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/03/07			
				DIA.					DATE FINISHED: 12/05/07			
				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	[Pattern]	S-1	Grab			DK Brown		Loamy topsoil with some organic matter, trace coarse sand & fine gravel, trace silt.	SW	0.0	Moist-Dry	
1						Lt Brown		Fine to medium SAND, trace coarse sand, little-some fine gravel (subrounded), poorly graded, trace coarse gravel, trace silt.	SP	0.0	Moist-Dry	
2												
3												
4												
5		S-2	Macro core		35"	Lt Brown		Loose to medium dense, medium to coarse SAND, some fine to coarse gravel (poorly graded). No MGP impact.	GP	0.0	Dry	
6												
7												
8												
9								End of boring: 9' bgs				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0-5' interval excavated with post hole digger.	PROJECT NO. 11175065
	BORING NO. DGP-1

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-2								
CLIENT: KeySpan					LOCATION: Area A								
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065								
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 10'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/04/07				
				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 Pattern]	S-1	Grab			DK Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter (roots), trace-little fine gravel.	SW	0.0	Moist-Dry		
1													
2													
3													
4													
5							Lt Brown		Fine to medium to coarse sand, little-some fine gravel, no MGOP impact.	GP	0.0	Dry	
6			S-2	Macro core		54"	Lt Brown		Loose, medium to coarse SAND, with some fine to coarse gravel (well graded). No MGP impact.	GW	0.0	Dry	
7													
8													
9													
10													
11								End of boring: 10' bgs					
12													
13													
14													
15													
16													
17													
18													
19													
20													
Comments: 0-5' interval excavated by hand auger.								PROJECT NO. 11175065					
								BORING NO. DGP-2					

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-3			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 10'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/06/07				
				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	[Pattern]	S-1	Grab			Dk Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace-little fine gravel.	SP	0.0	Dry		
1													
2													
3													
4													
5						Lt Brown		Fine to medium to coarse SAND, little fine gravel. No MGP impact.	GP	0.0	Dry		
6		S-2	Macro core		40"	Lt Brown		Loose, fine to medium to coarse SAND, some fine to coarse gravel (well graded), trace coarse gravel. No MGP impact.	GW/SW	0.0	Dry		
7													
8													
9													
10													
11								End of boring: 10' bgs					
12													
13													
14													
15													
16													
17													
18													
19													
20													
Comments: 0-5' interval excavated by hand auger.										PROJECT NO. 11175065			
										BORING NO. DGP-3			

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-4			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 9'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/04/07				
				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 Pattern]	S-1	Grab			Dk Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter (roots), trace fine gravel (subround to round).	SP	0.0	Dry		
1													
2													
3													
4													
5						Lt Brown		Fine to medium to coarse SAND, some fine gravel. No MGP impact.	GP	0.0	Dry		
6		S-2	Macro core		40"	Lt Brown		Loose, medium to coarse SAND, trace fine sand some well graded fine to coarse gravel. No MGP impact.	GW	0.0	Dry		
7													
8													
9													
10							End of boring: 9' bgs						
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments: 0-5' interval excavated by hand auger.	PROJECT NO. 11175065
	BORING NO. DGP-4

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-5								
CLIENT: KeySpan					LOCATION: Area A								
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065								
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/ Geoprobe				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			TOTAL DEPTH: 10'				
				DIA.					DATE STARTED: 12/04/07				
				WT.					DATE FINISHED: 12/06/07				
				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		S-1	Grab			Dk Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter (roots), trace fine gravel.	SP	0.0	Dry		
1													
2													
3													
4							Lt Brown		Fine to medium to coarse SAND, some fine gravel (subround to round). No MGP impact.	GP	0.0	Dry	
5		S-2	Macro core		48"	Lt Brown /Orange		Loose, medium to coarse to very coarse SAND, little fine to coarse gravel (well graded). No MGP impact.	GW	0.0	Dry		
6													
7													
8													
9													
10													
11								End or boring: 10' bgs					
12													
13													
14													
15													
16													
17													
18													
19													
20													
Comments: 0-5' interval excavated by hand auger.								PROJECT NO.		11175065			
								BORING NO.		DGP-5			

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-6							
CLIENT: KeySpan										LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/ Geoprobe			
										TOTAL DEPTH: 9'							
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/03/07							
				DIA.						DATE FINISHED: 12/05/07							
				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	[Pattern]	S-1	Grab			Dk Brown		Loamy topsoil, very fine to fine to medium SAND, with some organic matter (roots), little fine gravel, trace silt.	SP	0.0	Dry						
1						Lt Brown		Fine to medium to coarse SAND, with some fine gravel (subrounded to rounded), poorly graded, trace coarse gravel, trace silt.	SP	0.0	Moist to Dry						
2						/ Brown											
3																	
4																	
5						Black Stained		Fine to medium SAND, naph. Odor, with some fine gravel, poorly graded.	GP	0.2	Moist						
6		S-2	Macro core			34"	Orange / Brown		Loose to medium dense, fine to medium to coarse SAND, with some fine to coarse gravel (poorly graded). No MGP impact.	GP	0.0	Dry					
7																	
8																	
9																	
10							End of boring: 9' bgs										
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Comments: 0-5' interval excavated with post hole digger. SP 0' to 1' and SP 1' to 4' sample used in composite sample CS-A-1. GP 4' to 5' GS-A-1 sample. GP 5' to 9' CS-A-5.

PROJECT NO. 11175065
BORING NO. DGP-6

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-7							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 9'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/03/07			
				DIA.					DATE FINISHED: 12/05/07			
				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		Loamy topsoil, some organic matter, trace coarse sand and fine gravel, trace silt.	SW	0.0	Moist to Dry	
1						Lt Brown		Fine to medium SAND, trace coarse sand, little to some fine gravel (subrounded), poorly graded, trace coarse gravel.	SP	0.0	Dry	
2												
3												
4												
5		S-2	Macro core		27"	5' to 7' Dk Brown		Very fine to fine SAND, trace fine gravel. Loose to medium dense, trace fine sand, some fine gravel (poorly graded). No MGP impact.	GP/SP	0.0	Dry	
6					7' to 9' Lt Brown							
7												
8												
9												
10							End of boring: 9' bgs					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0-5' interval excavated with post hole digger. SW 0' to 1' and SP 1' to 4' sample used in composite sample CS-A-1. GP/SP 5' to 9' CS-A-5.

PROJECT NO. 11175065
BORING NO. DGP-7

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-8							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 8'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/03/07			
				DIA.					DATE FINISHED: 12/10/07			
				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		Loamy topsoil, some organic matter, trace to little fine gravel.	SP	0.0	Moist	
1												
2						Lt. Brown		Fine to medium SAND, little to some fine gravel, trace black-staining with MGP odor (naphth). Perched water with sheen.	SP/GP	0.0	Moist	
3								Concrete Slab				
4		S-2	Macro core		52"	3' to 4'		Fine to medium SAND, trace coarse sand, little fine gravel. No MGP impact.	GW	0.0	Moist	
5						4' to 8'		Medium dense, fine to coarse SAND, little to some fine gravel (well graded). No MGP impact.			Dry	
6						Lt. Brown						
7												
8												
9								End of boring: 8' bgs				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Concrete slab encountered at ~3' bgs. SP 0' to 1' composite sample CS-A-1. SP/GP 1' to 3' GS-A-3 sample. GW 3' to 8' CS-A-9.

PROJECT NO. 11175065
BORING NO. DGP-8

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-9	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Macrocore		
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						TOTAL DEPTH: 8'	
						DATE STARTED: 12/04/07	
						DATE FINISHED: 12/10/07	
						DRILLER: M. Meade	
						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	REMARKS			
					RQD%					PID	Moist		
0		S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace to little fine gravel.	SP	0.0	Moist		
1													
2								Lt. Brown / Orange		Fine to coarse SAND, little to some fine gravel (subround to round), trace coarse gravel. MGP impacted soil at 2.5' to 3.0' bgs, black stained - coated, ALM, partially saturated, moderate MGP odor, sheen.	GP	58.9	Moist
3										Concrete Slab			
4		S-2	Macro core		36"	Lt. Brown		Loose to medium dense, fine to coarse SAND, some poorly graded fine gravel. No visible MGP impact. Very faint MGP odor possible.	GP	0.0	Dry		
5													
6													
7													
8													
9								End of boring: 8' bgs					
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments:	Concrete slab encountered at ~3' bgs (perched water). SP 0' to 1' and GP 1' to 3' CS-A-2. GP 3' to 8' CS-A-9.	PROJECT NO.	11175065
		BORING NO.	DGP-9

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-10	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
				TOTAL DEPTH: 7'			
DATE	TIME	LEVEL	TYPE	TYPE			DATE STARTED: 12/04/07
				DIA.			DATE FINISHED: 12/12/07
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, little organic matter, trace fine gravel.	SP	0.0	Moist	
1												
2												
3												
4	[Pattern]	S-2	Macro core		38"	Lt. Brown / Tan		Loose, fine to coarse SAND, some well graded fine gravel. 4" band of brown stained sand at 4'. Very faint MGP odor. No MGP impact from 4.5' to 7'.	GP	2.0		
5												
6												
7												
8								End of boring: 7' bgs				
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Concrete slab encountered at ~3' bgs (perched water). SP 0' to 1' CS-A-3, GP 1' to 3' GS-A-7. 3' to 7' CS-A-10.

PROJECT NO.	11175065
BORING NO.	DGP-10

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-11							
CLIENT: KeySpan										LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe			
										TOTAL DEPTH: 7'							
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/03/07							
				DIA.						DATE FINISHED: 12/10/07							
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID Moist							
					RQD%												
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, some organic matter, trace fine gravel.	SP	0.0							
1						Lt. Brown		Fine to medium SAND, trace coarse sand, little to some fine gravel (subround to round). MGP impact at 2.5', black stained and coated with partial saturation, faint MGP odor.	GP	7.2	Wet						
2																	
3										Concrete Slab							
4	[Pattern]	S-2	Macro core		36"	Lt. Brown / Tan		Loose, fine to coarse SAND, some poorly graded fine gravel. No MGP impact.	GP	0.0	Dry						
5																	
6																	
7																	
8								End of boring: 7' bgs									
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Comments: Concrete slab encountered at 3' bgs (perched water). GP 3' to 7' CS-A-10 and GS-A-16.

PROJECT NO.	11175065
BORING NO.	DGP-11

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-12	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
DATE	TIME	LEVEL	TYPE	TYPE	Macrocore		
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						TOTAL DEPTH: 9'	
						DATE STARTED: 12/03/07	
						DATE FINISHED: 12/03/07	
						DRILLER: M. Meade	
						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	REMARKS		
					RQD%					PID	Moist	
0	[Patterned]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, with some organic matter, trace coarse sand and fine gravel, trace bricks and concrete.	SP	0.0	Moist to Dry	
1						Brown		Fine to medium SAND, trace coarse sand, trace to little fine gravel, poorly graded (subrounded), trace coarse gravel, trace ALM.	SP	0.5	Moist to Dry	
2												
3												
4												
5												
6		S-2	Macro core		38"	Lt. Brown		Loose to medium dense, medium to coarse SAND, trace fine sand, little to some fine gravel (poorly graded). No MGP impact.	GP	0.0		
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0-5' interval excavated with post hole digger. SP 0' to 1' sample used in composite sample CS-A-1, SP 1' to 4' CS-A-2 sample. GP 5' to 9' CS-A-5.

PROJECT NO. 11175065
BORING NO. DGP-12

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-13			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 9'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/03/07				
				DIA.					DATE FINISHED: 12/03/07				
				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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, trace coarse sand and fine gravel.	SP	0.0	Moist		
1						Lt. Brown		Fine to coarse SAND, with with some to little fine gravel (subrounded), trace coarse gravel.	GP	0.0	Dry		
2													
3													
4													
5													
6		S-2	Macro core		42"	Lt. Brown		Medium dense, fine to coarse SAND, little fine gravel (well graded). No MGP impact.	GW	0.0	Dry		
7													
8													
9													
10								End of boring: 9' bgs					
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments: 0-5' interval excavated with post hole digger. GP 1' to 5' sample used in composite sample CS-A-1.

PROJECT NO. 11175065
BORING NO. DGP-13

URS Corporation										TEST BORING LOG					
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-14					
CLIENT: KeySpan										LOCATION: Area A					
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065					
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 8'	
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/04/07					
				DIA.						DATE FINISHED: 12/10/07					
				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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace fine gravel.	SP	0.0	Moist				
1						Lt. Brown		Fine to coarse SAND, with some fine gravel (subrounded to round), trace coarse gravel. MGP impact at 2.5' to 3' bgs, black stained, coated, partially saturated, moderate, MGP odor.	GP	54.2	Wet				
2															
3								Concrete Slab							
4	[Pattern]	S-2	Macro Core		44"	3' to 4' Dk. Brown		Very fine to fine SAND, trace medium to coarse sand, trace to little fine gravel. No MGP impact.	GW	0.0	Moist				
5						4' to 8' Lt. Brown		Medium dense, fine to coarse SAND, little well graded fine gravel. No MGP impact.			Dry				
6															
7															
8															
9								End of boring: 8' bgs							
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

Comments: Concrete slab at ~ 3'bgs (perched water). SP 0' to 1' used in CS-A-2 sample, GP 1' to 3' used in GS-A-5 sample, GW 3' to 8' CS-A-9 sample.

PROJECT NO.	11175065
BORING NO.	DGP-14

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-15								
CLIENT: KeySpan					LOCATION: Area A								
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065								
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 8'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/10/07				
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS			
					RQD%					PID	Moist		
0		S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, little organic matter, trace fine gravel.	SP	0.0	Moist		
1													
2						Lt. Brown		Fine to coarse SAND, little to some fine gravel (subround to round), trace coarse gravel, (perched water).	GP	0.0	Wet		
3								Concrete Slab					
4		S-2	Macro core		38"	3.5' to 4.5'		Very fine to fine SAND, trace medium to coarse sand, little fine gravel. No MGP impact.	GW	0.0	Moist		
5						Dk. Brown							
6						4.5' to 8'		Loose to medium dense, fine to coarse SAND, little well graded fine to coarse gravel. No MGP impact.			Dry		
7													
8													
9								End of boring: 8' bgs					
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
Comments: Concrete slab at ~3' bgs (perched water). GP 1'to 3' used in CS-A-3 sample, GW used in CS-A-10 and GS-A-15 samples.					PROJECT NO. 11175065					BORING NO. DGP-15			

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-16	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE						TOTAL DEPTH: 8'	
TIME						DATE STARTED: 12/04/07	
LEVEL						DATE FINISHED: 12/04/07	
TYPE						DRILLER: M. Meade	
TYPE						GEOLOGIST: J. Harshman	
DIA.						REVIEWED BY: K. Connare	
WT.							
FALL							
* POCKET PENETROMETER READING							

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist	
					RQD%							
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine SAND, organic matter, trace fine gravel.	SP	0.0	Moist	
1						Lt. Brown		Fine to coarse SAND, with some fine gravel.	GP	12.6	Moist	
2								MGP impact at 2.5', black stained soil, faint MGP odor, tar (viscous), balck.			to Wet	
3								Concrete Slab				
4	[Pattern]	S-2	Marco Core		40"			MGP impacted. Black to brown fine to medium SAND, little fine to coarse gravel. Faint MGP odor.		6.6	Dry	
5												
6												
7												
8												
9								Macro core stuck, unable to remove.				
10								End of Boring at 8'				
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments:	Concrete slab at ~ 3' bgs (perched water). SP 0' to 1' part of composite CS-A-3 sample, GP 1' to 3' used in GP-A-8 sample, 3' to 8' used in both CS-A-10 and GS A-14 sample.	PROJECT NO.	11175065
		BORING NO.	DGP-16

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-17	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE						TOTAL DEPTH: 9'	
TIME						DATE STARTED: 12/03/07	
LEVEL						DATE FINISHED: 12/05/07	
TYPE						DRILLER: M. Meade	
TYPE						GEOLOGIST: J. Harshman	
DIA.						REVIEWED BY: K. Connare	
WT.							
FALL							
* POCKET PENETROMETER READING							

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, with some organic matter (roots), some fine gravel, trace silt.	SW	0.0		
1						Red		Fill material. Red brick with some fine to medium sand, some fine gravel.	Fill	0.0		
2						Dk. Brown						
3						Brown to Lt. Brown		Fine to medium to coarse SAND and fine gravel (sudrounded to rounded), trace silt, trace coarse gravel.	GP	0.0	Moist to Dry	
4												
5	[Pattern]	S-2	Macro core		48"	Lt. Brown		Loose to medium dense, fine to medium SAND, little fine to coarse gravel (well graded). No MGP impact.	SW	0.0	Dry	
6												
7												
8												
9												
10							End of boring: 9' bgs					
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0-5' interval excavated with post hole digger.	PROJECT NO. 11175065	
	BORING NO. DGP-17	

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-18	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
				TOTAL DEPTH: 8'			
DATE	TIME	LEVEL	TYPE	TYPE			
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						DATE STARTED: 12/03/07	
						DATE FINISHED: 12/03/07	
						DRILLER: M. Meade	
						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	Moist	
					RQD%							
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, fine to medium SAND, some fine to coarse gravel. Concrete slab.	GP Fill	0.0	Moist to Dry	
1												
2												
3												
4	[Pattern]	S-2	Macro core		42"	Dk. Brown		3' to 5', Fine to medium SAND, trace fine gravel.	GP	0.0	Moist	
5					5' to 8', Loose to medium dense, fine to medium to coarse SAND, little to some fine gravel, trace coarse gravel. No MGP impact.							
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Concrete slab at ~1' bgs. GP 0' to 1' used in CS-A-2 sample.	PROJECT NO. 11175065	
	BORING NO. DGP-18	

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-19							
CLIENT: KeySpan										LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065							
GROUNDWATER:						CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand auger/Geoprobe							
DATE						LEVEL		TYPE		TOTAL DEPTH: 9'							
TIME						TYPE		TYPE		DATE STARTED: 12/04/07							
						DIA.				DATE FINISHED: 12/06/07							
						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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, trace coarse sand and fine gravel.	SP	0.0	Moist						
1												Lt. Brown		Fine to medium to coarse SAND, with some fine gravel (subround to round), poorly graded.	GP	0.0	Dry
2																	
3																	
4	[Solid Black]						Concrete slab?										
5	[Pattern]	S-2	Macro core		46"	Dk. Brown		4' to 6'; Very fine to fine to medium SAND, little fine gravel.	GP	0.0	Moist						
6													6' to 9'; Medium dense, fine to medium to coarse SAND, with some fine gravel				
7																	
8																	
9																	
10							End of boring: 9' bgs										
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Comments: 0-5' interval excavated with post hole digger.

PROJECT NO. 11175065
BORING NO. DGP-19

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-20			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/04/07			
				DIA.						DATE FINISHED: 12/07/07			
				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		Loamy topsoil, very fine to medium SAND, organic matter (roots), trace fine gravel.	SP	0.0	Moist		
1													
2						Lt. Brown		Fine to coarse SAND, little to some fine gravel, trace concrete, trace coarse gravel.	GP		Dry		
								Concrete slab					
3		S-2	Macro CORE		32"	3' to 5' Brown / Orange		Fine to coarse SAND, little fine gravel.	GP	172.0	Moist		
4													
5								5' to 7' MGP impacted SAND and GRAVEL, black stained and coated, little tar (gooey and viscous, moist), possibly some coal, moderate MGP odor.					
6													
7													
8		S-3	Macro core		40"			7' to 10', MGP impacted SAND and GRAVEL, black, DNAPL saturated, tarry. Moderate MGP odor.	GP	108.0	Moist		
9								10' to 11', MGP impact, black stained and coated SAND and GRAVEL. Moderate MGP odor.			Moist		
10													
11													
12		S-4	Macro core		40"			MGP impacted SAND and GRAVEL, black, DNAPL saturated, wet with product (DNAPL), trace of wood in tip of Macrocore. Strong MGP odor.	GP	181.0	Wet		
13													
14													
15													
16								MGP impacted sand and gravel. Macrocore refusal at 16' bgs.					
17								End of boring: 16' bgs					
18													
19													
20													

Comments: Concrete slab at ~2' bgs. SP 0' to 1' used in CS-A-3 sample, GP 3' to 7' used in CS-A-7, used in CS-A-7 sample, GP 7' to 11' and GP 11' to 16' used in CS-A-8 sample

PROJECT NO. 11175065
BORING NO. DGP-20

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-21			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 15'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/04/07				
				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	[Patterned Area]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter (roots), trace fine gravel.	SP	0.0	Moist		
1						Lt. Brown		Fine to medium to coarse SAND, little to some fine gravel (subround to round). No MGP impact.	GP	0.7	Dry		
2													
3													
4													
5													
6			S-2	Macro core		47"	Dk. Brown to Lt. Brown		Loose, medium to coarse SAND, trace to little fine sand, little well graded fine to coarse gravel. No MGP impact.	GW	0.0	Moist to Dry	
7													
8													
9													
10													
11			S-3	Macro core		24"	Brown		Medium dense, fine to medium to coarse SAND, little fine to coarse gravel (well graded). No MGP impact.	GW	0.0	Moist to Dry	
12													
13													
14													
15													
16								End of Boring: 15' bgs					
17													
18													
19													
20													
Comments:		Eccavate 0'-5' bgs by hand auger.							PROJECT NO.		11175065		
									BORING NO.		DGP-21		

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-22							
CLIENT: KeySpan										LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065							
GROUNDWATER:										CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe			
										TOTAL DEPTH: 8'							
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/03/07							
				DIA.						DATE FINISHED: 12/06/07							
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID		Moist					
					RQD%												
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace coarse gravel.	SP	0.0		Moist					
1										Fill							
2								Lt. Brown		Fine to medium to coarse SAND, with little to some fine gravel (subrounded to rounded), poorly graded, little coarse gravel, some concrete.	GP	0.0					
3										Refusal on slab at 3' bgs.	Fill						
								Concrete Slab?									
4	[Pattern]	S-2	Macro core		36"	Lt. Brown		Loose to medium dense, fine to medium to coarse SAND, some fine to coarse gravel (poorly graded). No MGP impact.	GP	0.0		Dry					
5																	
6																	
7																	
8																	
9								End of boring: 8' bgs									
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
Comments:		Concrete slab at ~3' bgs. Grab samples collected via post hole dig.								PROJECT NO.		11175065					
										BORING NO.		DGP-22					

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-23	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
						TOTAL DEPTH: 8'	
DATE	TIME	LEVEL	TYPE	TYPE			
				DIA.			
				WT.			
				FALL			
* POCKET PENETROMETER READING						DATE STARTED: 12/04/07	
						DATE FINISHED: 12/06/07	
						DRILLER: M. Meade	
						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	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, fine to medium SAND, some fine to coarse gravel. Concrete slab.	SP			
1						Lt. Brown		Fine to medium to coarse SAND, with some fine to coarse gravel (subround to round). Trace to little black stained soil and ALM/clinker. Vey faint MGP/Naph odor.	GP	0.0	Moist to Dry	
2												
3												
4												
5												
6		S-2	Macro core			Lt. Brown / Orange		Loose, fine to medium to coarse SAND, with some well sorted fine to coarse gravel. No MGP impact.	GW	0.0	Dry	
7												
8												
9								End of boring: 8' bgs				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0' to 5' interval excavated by posthole digger/hand auger. SP and GP 0' to 5' used in CS-A-2 and GS-A-4 samples. GW 5' to 8' CS-A-7 samples.

PROJECT NO.	11175065
BORING NO.	DGP-23

URS Corporation										TEST BORING LOG				
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-24				
CLIENT: KeySpan										LOCATION: Area A				
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'					
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07					
				DIA.					DATE FINISHED: 12/12/07					
				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	[Patterned Area]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, organic matter, trace fine gravel.	SP	0.0	Moist			
1						Lt. Brown		Fine to coarse SAND, little to some fine gravel (mostly subround to round). No MGP impact.	GP	0.0	Dry			
2														
3														
4														
5						S-2	Macro core	24"	Lt. Brown		Fine to coarse SAND, some fine gravel. No MGP impact.	GP	0.0	Moist Dry
6														
7														
8						S-3	Macro core	34"	Lt. Brown / tan		Loose, fine to coarse SAND, little to some fine gravel (well graded). No MGP impact.	GW	0.0	Dry
9														
10														
11						S-4	Macro core	44"	Lt Brown / tan		Loose, fine to coarse SAND, little fine gravel (well graded), subround to round. No MGP impact.	GW	0.0	Dry
12														
13														
14														
15														
16														
17								End of boring:16' bgs						
18														
19														
20														

Comments: 0-5' interval excavated by hand auger. GP 0' to 1' used in CS-A-3 sample.

PROJECT NO. 11175065
BORING NO. DGP-24

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-25							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07			
				DIA.					DATE FINISHED: 12/05/07			
				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		Loamy topsoil, very fine to medium SAND, little organic matter, trace fine gravel.	SP	0.0	Moist	
1												
2							Lt. Brown		Fine to coarse SAND, little to some fine gravel. MGP impact at 4', black stained soil and gravel, faint MGP odor.	GP	14.7	Moist to Dry
3												
4												
5												
6			S-2	Macro core		16"	Lt. Brown		Medium dense to dense. MGP impacted, black stained and coated. Coarse SAND and fine GRAVEL, trace ALM. Faint to moderate MGP odor, moist.	GP	14.7	Moist
7												
8												
9												
10			S-3	Macro core		14"	Black		Black saturated SAND and GRAVEL (DNAPL), moderate to strong MGP odor	GP	208.0	
11												
12												
13			S-4	Macro core		10"			DNAPL saturated SAND and Gravel, black, DNAPL product present, very strong MGP odor.	GP	1777	Wet
14												
15												
16								DNAPL saturated. Refusal at 16' bgs				
17								End of boring: 16'bgs				
18												
19												
20												

Comments: 0-5' interval excavated by hand auger. GP 1' to 5' sample used in GS-A-6 sample
 GP 9' to 12' used in CS-A-8 sample, GP 12' to 16' CS-A-8 sample.

PROJECT NO. 11175065
 BORING NO. DGP-25

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-26	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:						DRILLING METHOD: Hand Auger/Geoprobe	
				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
				TOTAL DEPTH: 8'			
DATE	TIME	LEVEL	TYPE	TYPE			
				DIA.			DATE STARTED: 12/03/07
				WT.			DATE FINISHED: 12/06/07
				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%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, fine to medium SAND, with organic matter, trace fine gravel.	SP Fill	0.0	Moist	
1						Lt. Brown		Fine to medium to coarse SAND, with little to some fine gravel (subrounded), poorly. Concrete slab encountered at ~3' bgs.	GP Fill	0.0		
2												
3									Concrete Slab?			
4	[Pattern]	S-2	Macro core		42"	3' to 5'		3' to 5', Very fine to fine SAND, trace to little fine gravel.	GW	0.0	Moist	
5						Dk. Brown						
6						5' to 8'		5' to 8', Loose, medium to coarse SAND, little fine gravel. No MGP impact.				
7						Lt. Brown						
8												
9								End of boring: 8' bgs				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments:	Concrete slab at ~3' bgs.	PROJECT NO.	11175065
		BORING NO.	DGP-26

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP					BORING NO.: DGP-27				
CLIENT: KeySpan					LOCATION: Area A				
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065				
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe
					TOTAL DEPTH: 9'				
DATE	TIME	LEVEL	TYPE	TYPE					DATE STARTED: 12/04/07
				DIA.	Macrocore				DATE FINISHED: 12/06/07
				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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace fine gravel.	SP Fill	0.0	Dry	
1						Lt. Brown		Fine to medium to coarse SAND, some fine to coarse gravel. No MGP impact.	GP Fill	0.0	Dry	
2												
3												
4	[Pattern]							Concrete?				
5	[Pattern]	S-2	Macro core		52"	Lt. Brown		Loose to medium dense, medium to coarse SAND, little to some fine gravel (subround to round), poorly graded. No MGP impact.	GP	0.0	Dry	
6												
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Hnad auger refusal at ~3' bgs on concrete.	PROJECT NO. 11175065	
	BORING NO. DGP-27	

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-28		
CLIENT: KeySpan										LOCATION: Area A		
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065		
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 18'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07			
				DIA.					DATE FINISHED: 12/05/07			
				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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, organic matter, very fine to medium SAND, trace fine gravel.	SP	0.0		
1						Lt. Brown		Fine to coarse SAND, with some fine gravel (mostly subround to round). No MGP impact.	GP	0.0	Dry	
2												
3												
4												
5												
6		S-2	Macro core		13"	Dk. Brown / Lt. Brown		Loose to medium dense, medium to coarse SAND, some fine gravel, trace coal. No MGP impact.	GP	0.0	Dry	
7												
8												
9												
10		S-3	Macro core		28"	10' to 13' Lt. Brown / Orange		9' to 10', MGP impacted sand and gravel, black stained and coated. Moderate MGP odor	GP	98.2	Wet	
11								10' to 13', medium dense, medium to coarse SAND, little fine gravel. No MGP impact.	GP	392.0	Dry	
12												
13												
14		S-4	Macro core		46"			13' to 15', MGP impacted. Black stained fine to coarse SAND and fine gravel. Faint to moderate MGP odor. No DNAPL.	GW			
15						15' to 17' Lt. Brown		15' to 17', fine to coarse SAND, some well graded fine gravel. 2" band of black stained sand at 16.5'. MGP impacted	80.0	Moist to Dry		
16												
17												
18		S-5	Macro core		0			Macrocore refusal on possible concrete.				
19								End of boring: 18' bgs				
20												

Comments: 0-5' interval excavated by hand auger. GW 13' to 15' sample used group 2 sample.

PROJECT NO. 11175065
BORING NO. DGP-28

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-75	
CLIENT: KeySpan						LOCATION: Area A	
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065	
GROUNDWATER:				CAS.	SAMPLER	CORE	TUBE
					Macrocore		
DATE:						TOTAL DEPTH: 7'	
TIME:						DATE STARTED: 12/04/07	
LEVEL:						DATE FINISHED: 12/10/07	
TYPE:						DRILLER: M. Meade	
TYPE:						GEOLOGIST: J. Harshman	
DIA.:						REVIEWED BY: K. Connare	
WT.:							
FALL:							
* POCKET PENETROMETER READING							

DEPTH FEET	SAMPLE					DESCRIPTION					REMARKS	
	STRATA	NO.	TYPE	BLOWS PER 6"	REC	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	REMARKS		
					RQD%					PID	Moist	
0	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, little organic matter, trace fine gravel.	SP	0.0		
1						Lt. Brown		Fine to coarse SAND, little to some fine gravel.	GP	198.0	Wet	
2								MGP impact at 2.5', black stained and coated soil, some tar phase material (viscous), moderate MGP odor, wet, sheen.				
3								Concrete Slab				
4	[Pattern]	S-2	Macro core		28"	3.5' to 4'		3.5' to 4', Slightly MGP impacted, slightly coated, faint MGP odor, some what tarry.	GP	0.0		
5						Black to Brown						
6						4' to 7'		4' to 7', Fine to coarse SAND, some poorly graded fine gravel (subround to round). No MGP impact.			Dry	
7						Lt. Brown						
8								End of boring: 7' bgs				
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments:	Concrete slab at ~3' bgs (perched water). GP 1'to 3' used in CS-A-4 sample, GP used in CS-A-10 samples.	PROJECT NO. 11175065	
		BORING NO. DGP-75	

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-76			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 8'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/04/07				
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist		
					RQD%								
0		S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, some organic matter, trace fine gravel.	SP	0.0	Dry		
1						Lt. Brown		Fine to coarse SAND, little to some fine gravel.	GP	52.7	Wet		
2								MGP impacted at 2.5', blacked stained and coated soil, trace tar phase material (viscous), moderate MGP odor.					
3								Concrete Slab					
4		S-2	Macro core		41"	Lt. Brown		Medium dense, fine to coarse SAND, some poorly graded fine gravel. No MGP impact.	GP	0.0	Dry		
5													
6													
7													
8													
9								End of boring: 8' bgs					
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
Comments: Concrete slab at ~3' bgs (perched water). GP 1'to 3' used in CS-A-3 sample, GP used in CS-A-9 and GS-A-13 samples.										PROJECT NO. 11175065			
										BORING NO. DGP-76			

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-77			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 8'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/10/07				
				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	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist		
					RQD%								
0		S-1	Grab			Dk. Brown		Loamy topsoil, very fine to medium SAND, trace organic matter, trace fine gravel.	SP	0.0	Dry		
1													
2						Lt. Brown		Fine to coarse SAND, some fine gravel. MGP impact at 2.5', black stained and coated gravel, little to some tar (viscous), black, sheen. Moderate MGP odor.	GP	17.8	Wet		
3								Concrete Slab					
4		S-2	Macro core		28"	3' to 4'		Very fine to medium SAND, trace coarse sand, little fine gravel. No MGP impact.	GW	0.1	Moist		
5						Dk. Brown							
6						4' to 8'		Medium dense, fine to coarse SAND, little well graded fine gravel. No MGP impact.			Dry		
7						Lt. Brown / Orange							
8													
9								End of boring: 8' bgs					
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments: Concrete slab at ~3' bgs (perched water). GP 1'to 3' used in CS-A-4 sample, GW used in CS-A-9 and GS-A-12 samples.

PROJECT NO.	11175065
BORING NO.	DGP-77

URS Corporation

TEST BORING LOG

PROJECT: KeySpan Hempstead MGP						BORING NO.: DGP-78									
CLIENT: KeySpan						LOCATION: Area A									
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065									
GROUNDWATER:						CAS.		SAMPLER		CORE		TUBE		DRILLING METHOD: Hand Auger/Geoprobe	
								Macrocore				TOTAL DEPTH: 9'			
DATE	TIME	LEVEL	TYPE	TYPE								DATE STARTED: 12/04/07			
				DIA.								DATE FINISHED: 12/04/07			
				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			
										PID	Moist		
0		S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace fine gravel.	SP	0.0	Dry		
1						Lt. Brown		Fine to medium to coarse SAND, some fine gravel (subround to round), poorly graded. No MGP impact.	GP	0.0	Moist to Dry		
2													
3													
4													
5													
6		S-2	Macro core		32"	Lt. Brown		Loose to medium dense, fine to medium to coarse SAND, some fine gravel (poorly graded). No MGP impact.	SW	0.0	Dry		
7													
8													
9													
10								End of boring: 9' bgs					
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments:	0-5' interval excavated by hand auger. GP 1' to 5' used in CS-A-4 sample.						PROJECT NO. 11175065	
							BORING NO. DGP-78	

URS Corporation										TEST BORING LOG							
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-79							
CLIENT: KeySpan										LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065							
GROUNDWATER:						CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe							
										TOTAL DEPTH: 9'							
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/04/07							
				DIA.						DATE FINISHED: 12/05/07							
				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		Loamy topsoil, very fine to fine to medium SAND, organic matter, some fine gravel.	SP	0.0	Moist to Dry						
1						Lt. Brown		Fine to medium to coarse SAND, Trace coal, trace ALM, little fine gravel. No MGP impact.	GP	0.0	Dry						
2																	
3																	
4																	
5																	
6		S-2	Macro core		28"	Lt. Brown		Loose to medium dense, fine to medium to coarse SAND, little to some fine gravel (well graded). No MGP impact.	GW	0.0	Dry						
7																	
8																	
9																	
10								End of boring: 9' bgs									
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
Comments:		0-5' interval excavated by hand auger. GP 1' to 5' used in CS-A-4 sample. GW used in CS-A-5.							PROJECT NO.		11175065						
									BORING NO.		DGP-79						

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-80			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 9'			
DATE	TIME	LEVEL	TYPE	TYPE			Macrocore			DATE STARTED: 12/07/07			
				DIA.						DATE FINISHED: 12/07/07			
				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	[Pattern]	S-1	Grab			Dk. Brown		0' to 1', Loamy topsoil, very fine to fine to medium SAND, trace fine gravel.	GP	0.0	Dry		
1						Lt. Brown		1' to 5', Fine to medium to coarse SAND, some fine gravel. No MGP impact.	GP	0.0	Dry		
2													
3													
4													
5													
6		S-2	Macro core			Lt. Brown		Loose, fine to medium to coarse SAND, some well graded fine gravel. No MGP impact.	GW	0.0	Dry		
7													
8													
9													
10								End of boring: 9' bgs					
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

Comments: 0-5' interval excavated by post hole digger.

PROJECT NO. 11175065
BORING NO. DGP-80

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-81							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe			
					TOTAL DEPTH: 9'							
DATE	TIME	LEVEL	TYPE	TYPE	Macrocore			DATE STARTED: 12/07/07				
				DIA.				DATE FINISHED: 12/07/07				
				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	[Pattern]	S-1	Grab			Dk. Brown		0' to 1', Loamy topsoil, very fine to fine to medium SAND, trace fine gravel.	GP	0.0	Dry	
1						Lt. Brown		1' to 5', Fine to medium to coarse SAND, some fine gravel (poorly graded). No MGP impact.	GP	0.0	Dry	
2												
3												
4												
5												
6			S-2	Macro core		46"	Lt. Brown		Loose, fine to medium to coarse SAND, some fine gravel (well graded). No MGP impact.	GW	0.0	Dry
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: 0-5' interval excavated by post hole digger.

PROJECT NO. 11175065

BORING NO. DGP-81

URS Corporation											TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP						BORING NO: DGP-82								
CLIENT: KeySpan						LOCATION: Area A								
BORING CONTRACTOR: Fenley & Nicol						JOB NO.: 11175065								
GROUNDWATER:						CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe				
						TOTAL DEPTH: 10'								
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore				DATE STARTED: 12/04/07				
				DIA.						DATE FINISHED: 12/04/07				
				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		Loamy topsoil, very fine to fine to medium SAND, little to some fine gravel.	SP	0.0	Moist to Dry			
1														
2														
3														
4														
5			Grab			Lt. Brown		Fine to medium to coarse SAND, little to some fine gravel.	GP	0.0	Moist to Dry			
6			S-2	Macro core		48"	Lt. Brown Dr. Brown		Loose, medium to coarse SAND, well graded fine gravel. No MGP impact.	GW	0.0	Dry		
7														
8														
9														
10														
11								End of boring:10' bgs						
12														
13														
14														
15														
16														
17														
18														
19														
20														
Comments:		0-5' interval excavated by hand auger. Step-out boring.						PROJECT NO.		11175065				
								BORING NO.		DGP-82				

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-83		
CLIENT: KeySpan										LOCATION: Area A		
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065		
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'			
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07			
				DIA.					DATE FINISHED: 12/07/07			
				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		Loamy topsoil, organic matter, fine to medium SAND, organic matter trace fine gravel.	SP	0.0	Dry	
1						Lt. Brown		Fine to coarse SAND, with some fine gravel, trace coarse gravel. No MGP impact.	GP	0.0	Dry	
2												
3												
4												
5												
6			S-2	Macro core		16"	Brown		Medium dense, fine to coarse SAND, some fine gravel, trace coarse gravel. No MGP impact.	GP	0.0	Dry
7												
8												
9			S-3	Macro core		44"	Brown / Orange		Loose to medium dense, fine to coarse SAND, little fine gravel (well graded). No MGP impact.	GW	0.0	Dry
10												
11												
12												
13												
14			S-4	Macro core		14"	Orange to Brown		Medium dense, fine to coarse SAND, little to some fine gravel, grey sand and gravel (possibly concrete) at 15.5' to 16' bgs. No MGP impact.	GW	0.0	
15												
16								Macrocore refusal at 16' bgs.				
17								End of boring: 16' bgs				
18												
19												
20												

Comments: 0-5' interval excavated by hand auger. Step-out boring. GP 5' to 8' sample used in CS-A-7.

PROJECT NO. 11175065
BORING NO. DGP-83

URS Corporation										TEST BORING LOG		
PROJECT: KeySpan Hempstead MGP					BORING NO: DGP-84							
CLIENT: KeySpan					LOCATION: Area A							
BORING CONTRACTOR: Fenley & Nicol					JOB NO.: 11175065							
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	DRILLING METHOD: Hand Auger/Geoprobe			
					TOTAL DEPTH: 9'							
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07			
				DIA.					DATE FINISHED: 12/06/07			
				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	[Pattern]	S-1	Grab			Dk. Brown		Loamy topsoil, very fine to fine to medium SAND, organic matter, trace fine gravel.	SP Fill	0.0	Moist to Dry	
1						Lt. Brown		Fine to medium to coarse SAND, some fine gravel. No MGP impact.	GP Fill	0.0	Dry	
2												
3												
4	[Pattern]							Concrete?				
5	[Pattern]	S-2	Marco core		54"	Lt. Brown		Loose, medium to coarse SAND, little fine gravel (well graded). No MGP impact.	GW	0.0	Dry	
6												
7												
8												
9												
10								End of boring: 9' bgs				
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

Comments: Hand auger refusal at ~3' on concrete. GW 4' to 9' used in sample CS-A-7 sample.

PROJECT NO. 11175065
BORING NO. DGP-84

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-85			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/07/07				
				DIA.					DATE FINISHED: 12/12/07				
				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 1' Loamy topsoil, fine to medium SAND, with organic matter, little fine gravel.	Fill	0.0	Dry		
1						Black		1' to 4', Fill material: black sandy soils with numerous bricks, mortar and rubble.	Fill	0.0			
2													
3													
4													
5			S-2	Macro CORE		16"			Fill material: red bricks, mortar, fine gravel, little sand. No MGP impact.	Fill	0.0	Moist	
6													
7													
8													
9			S-3	Macro core		18"			Fill material: 8' to 10', red bricks mortar, gravel and sand.	Fill	1.1	Wet	
10									10' to 12', Black stained SAND and GRAVEL, little wood and cardboard. Faint MGP odor.	Fill		Wet	
11													
12													
13			S-4	Macro core		16"			Fill Material: red bricks, mortar, gravel and sand. Trace to little MGP impact with black staining. Faint MGP odor, sheen.	Fill	14.1	Wet	
14													
15													
16								Macrocore refusal at 16' bgs					
17								End of boring: 16' bgs					
18													
19													
20													
Comments: 0-5' interval excavated by post hole digger.										PROJECT NO. 11175065			
										BORING NO. DGP-85			

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-86			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 17'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/11/07				
				DIA.					DATE FINISHED: 12/12/07				
				WT.					DRILLER: M. Meade				
				FALL					GEOLOGIST: J. Harshman				
* POCKET PENETROMETER READING										REVIEWED BY: K. Connare			
DEPTH FEET	SAMPLE					DESCRIPTION							
	STRATA	NO.	TYPE	BLOWS PER 6"	REC REC	COLOR	CONSIST HARD	MATERIAL DESCRIPTION	USCS	PID	Moist	REMARKS	
0	[Patterned Area]	S-1	Grab			Dk. Brown		0' to 1' Loamy topsoil, very fine to fine SAND, trace fine gravel.	SP	0.0			
1													
2							Brown to Lt. Brown		1' to 5', Fine to medium SAND, with some fine gravel, trace black clinker-like material (CLM), coal-like conglomerate. No MGP impact, no odor.	GP	0.0		
3													
4													
5													
6			S-2	Macro core		14"	Dk. Brown		Fine to medium SAND, little to some well graded fine gravel, trace coal, trace light brown fine to medium to coarse sand at 9'. No MGP impact.	GW	0.0		Dry
7													
8													
9													
10			S-3	Macro core		36"	Lt. Brown / Tan		Loose, fine to medium to coarse SAND, little fine gravel (well graded). No MGP impact.	GW	0.0		Dry
11													
12													
13													
14			S-4	Macro core		42"	Lt. Brown / Tan		Loose, fine to medium to coarse SAND, little well graded fine gravel (subrounded to rounded). No MGP impact.	GW	0.0		Dry
15													
16													
17													
18								End of boring: 17' bgs					
19													
20													
Comments:		0-5' interval excavated by hand tools.							PROJECT NO. 11175065		BORING NO. DGP-86		

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-87			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 16'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/04/07				
				DIA.					DATE FINISHED: 12/05/07				
				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, very fine to fine SAND, some organic matter, trace fine gravel.	SP	0.0	Dry		
1													
2													
3							Brown		2' to 5', Fine to medium SAND, trace coal, trace to little fine gravel. No MGP impact.	GP	0.0	Dry	
4													
5													
6			S-2	Macro core		32"	Brown to Lt. Brown		Loose to medium dense, fine to coarse SAND, little to some fine gravel (poorly graded). No MGP impact.	GP	0.0	Dry	
7													
8													
9													
10			S-3	Macro core		34"	Brown to Lt. Brown		Loose to medium dense, fine to coarse SAND, little fine gravel (well graded). No MGP impact.	GW	0.0	Dry	
11													
12													
13													
14			S-4	Macro core		28"	13' to 15' Brown		13' to 15', Fine to coarse SAND, some fine gravel. No MGP impact.	GW	14.1		
15							15' to 16' Black Stained		15' to 16', Black stained and coated sand and gravel, tarry. MGP impacted, faint to moderate odor.				
16													
17								Macrocore refusal at 16' bgs					
18								End of boring: 16' bgs					
19													
20													

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

PROJECT NO. 11175065

BORING NO. DGP-87

URS Corporation										TEST BORING LOG			
PROJECT: KeySpan Hempstead MGP										BORING NO: DGP-88			
CLIENT: KeySpan										LOCATION: Area A			
BORING CONTRACTOR: Fenley & Nicol										JOB NO.: 11175065			
GROUNDWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH: 17'				
DATE	TIME	LEVEL	TYPE	TYPE		Macrocore			DATE STARTED: 12/12/07				
				DIA.					DATE FINISHED: 12/13/07				
				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	[Patterned Area]	S-1	Grab			Dk. Brown		0' to 2' Loamy topsoil, very fine to fine SAND, some organic matter, trace fine gravel.	SP	0.0	Dry		
1													
2													
3							Lt. Brown / Tan		2' to 5, Fine to medium SAND, some fine gravel. No MGP impact.	GP	0.0	Dry	
4													
5													
6			S-2	Macro core		38"	Lt. Brown yellowish orange		Loose, fine to medium to coarse very coarse SAND, some well graded fine to coarse gravel. No MGP impact.	GW	0.0	Dry	
7													
8													
9													
10			S-3	Macro core		44"	Lt. Brown yellowish orange		Loose, fine to medium to coarse to very coarse SAND, well graded fine to coarse gravel. No MGP impact.	GW	0.0	Dry	
11													
12													
13													
14			S-4	Macro core		45"	Lt. Brown to Brown yellowish orange		Loose to medium dense, fine to medium to coarse SAND, trace very coarse sand, well graded fine to coarse gravel. No MGP impact.	GW	0.0	Dry	
15													
16													
17													
18								End of boring: 17' bgs					
19													
20													
Comments:		0-5' interval excavated by hand tools.							PROJECT NO. 11175065		BORING NO. DGP-88		