				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:		GP-36	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:				Fenley a	and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	1	2/13/07	
						DIA.					DATE FINISHED:	1	2/13/07	•
						WT.					DRILLER:	М	. Meade	Э
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET PI	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	e
			SAME	LE					DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD		DI	ESCRIPTION	uscs		Moist
0		S-1	Grab				DK Brown		0' to 2',		oil, very fine to fine SAND,	SP	0.0	Dry
			Grab				511 510 1111				er, trace fine gravel.	0.	0.0	2.,
1														
<u> </u>						1								
2						1								
						1	Lt. Brown		2' to 5'	Loose fine	to coarse SAND, some fine to	GP	ļ	Dα
3						1	LL. DIOWII				IGP impact.	GP .		Dry
3				\vdash		ł]		•			
4						1								
4						1								
_						1								
5		0.0	N 4 = = ==			00"			Looco	ino to coore	e SAND, little very coarse	0147		
_		S-2	Macro			38"	Brown to				fine gravel, trace coarse	GW	0.0	Dry
6			core			4	Lt. Brown			No MGP imp				
						4	to Tan		_					
7														
8														
9														
										End	of boring: 9' bgs			
10														
11														
12]								
]								
13]								
]								
14]								
]								
15]								
]								
16														
17						1								
18						1								
						1								
19						1								
						1								
20						1								
Commer	nts:	0' to 5	5' interv	al exca	avated	by hand	tools.		1		PROJECT NO.	11	17506	5
30						,					BORING NO.	1	GP-36	
<u> </u>											<u> </u>	1	1	

				URS	Corpo	ration				TEST BORING	LOG		
					-					BORING NO:	DGF	P-37 1 d	of 2
PROJEC	T:				KevSp	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:					-7-1-	KeySpan				JOB NO.:		17506	5
_	CONTRAC	TOR:					and Nicol			DRILLING METHOD:	Hand Au		
	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	•
DATE	TIME	15	VEL	TYPE	TYPE	CAS.		COIL	TOBL		-		,
DATE	IIIVIE	LE	VEL	ITPE	DIA.		Macrocore			DATE STARTED:		2/14/07	
					WT.					DATE FINISHED:		2/14/07	
					_					DRILLER:		. Mead	
					FALL	DOOKET D		ED DEA	DINO	GEOLOGIST:		larshm	
						POCKETP	ENETROMET			REVIEWED BY:	K.	Connai	е
	1		SAMP		T			DE	SCRIPTION		1		
DEPTH				BLOWS			CONSIST			MATERIAL			IARKS
FEET	STRATA		TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Grab			DK Brown				oil, very fine to fine SAND, er, trace fine gravel.	SP	0.0	Dry
1													
2						Lt. Brown	<u> </u>	2' to 5'.	Loose, fine	to very coarse SAND, some	GP		Dry
3				-	1	/ Tan			vel. No MGF		GF		Diy
						, run							
4													
5													
		S-2	Macro		38"	Lt Brown				se SAND, trace very coarse	GW	0.0	Dry
6			core			/ Tan		sand, so impact.	ome fine gra	avel (well graded). No MGP			
								ппраст.					
7													
8													
9													
·		S-3	Macro		38"	Lt. Brown		Loose,	fine to coars	se SAND, trace very coarse	GW	0.0	Dry
10			core			/ Orange				parse gravel (well graded). No			D.,
			00.0			, c.ugo		MGP im	npact.				
11					-								
					-								
12			ŀ		-								
12													
10			-		-								
13		0.4			00"				fine to engue	O CAND trace years	0111		
4.		5-4	Macro		36"	Lt. Brown				se SAND, trace very coarse parse gravel (well graded). No	GW	0.0	Dry
14			core		4	/ Orange		MGP im		g. a. o. (o. g. a. o.). 140			
					4								
15					4								
					4								
16					4								
					4								
17													
		S-5	Macro		42"	Lt. Brown				se SAND, trace very coarse	GW	0.0	Dry
18			core			/ Orange				parse gravel (well graded). No			
								MGP im	ipaul.				
19													
20					7								
Commer	nts:	0' to 5	' interva	al excavate	ed by hand	tools. SP an	d GP 0' to 5' ι	used in C	S-C-1	PROJECT NO.	11	17506	5
30		samp	le. GW								1	P-37 1 d	
		samp	le.							, . .	201		
	sample. GW 5' to 9' used in GS-C-4 sample. GW 17' to 20' used in CS-C-2 sample.												

				U	RS (Corpo	ration				TEST BORING	GLOG		
						-					BORING NO:	DGI	P-37 2 c	of 2
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:							KeySpan				JOB NO.:		17506	5
BORING	CONTRA	CTOR	:					and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		24'	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	1	2/13/07	
						DIA.					DATE FINISHED:		2/13/07	
						WT.					DRILLER:		. Meade	
						FALL					GEOLOGIST:		larshm	
						*	POCKET PI	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Connai	e
			SAMP	LE		<u>-</u>			DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
		S-6	Macro			40"	Lt. Brown				e to very coarse SAND, little	GW	0.0	Dry
1			core			1	to Orange		fine to c	oarse grave	el. No MGP impact.			
							to Brown							
2							/ Grey							
3						1								
4						1								
										End o	of boring: 24' bgs			
5														
6														
						1								
7						1								
8						1								
						-								
9						1								
10						1								
11						1								
						1								
12						1								
						1						1		
13					i –	1						1		
					l	1								
14					i –	1						1		
						1						1		
15					l	1								
						1								
16					l	1								
					1	1						1		
17						1						1		
						1								
18						1								
					l –	1								
19					l –	1								
						1								
20					 	1						1		
Commer	nte:	GW 2	20' to 24	l' used	in GS	-C-5 san	nple.	<u> </u>			PROJECT NO.	4 -	17506	5
Commer	no.				00	5 5 0dii					BORING NO.		#REF!	,
											20111101101		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:)GP-38	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR					Fenley a	and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	1	2/13/07	
						DIA.					DATE FINISHED:	1	2/13/07	
						WT.					DRILLER:	М	. Mead	Э
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	е
			SAME	LE		•			DES	SCRIPTION	•			
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	ARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	RQD%	COLOR	HARD		Di	ESCRIPTION	USCS		Moist
0		S-1	Grab				DK Brown		0' to 2',		oil, very fine to fine SAND,	SP	0.0	Dry
Ů		٠.	G. a.				511 510 1111				er, trace fine gravel.	0.	0.0	J.,
1														
<u> </u>						1								
2						1								
						1	Lt. Brown		2' to 5'	Loose fine	to medium to coarse SAND,	GP	ļ	Dry
3						1	LL. DIOWII		some fir	ne to coarse	gravel. No MGP impact.	GF.		ыу
						-								
4						1								
4						-								
						1								
5						40"			1 0000 4	fine to venu	coarse SAND, some fine to	0.0		
_		S-2	Macro			40"	Brown to				ly graded). No MGP impact.	GP	0.0	Dry
6			core			4	Lt. Brown		oou.oo ş	gravor (poor	ry gradod). No Mar Impaol.			
						4								
7														
8														
9														
										End	of boring: 9' bgs			
10														
11														
12]								
]								
13														
14														
15														
						1								
16						1								
						1								
17						1								
						1								
18						1								
						1								
19						1								
						1								
20						1								
Commer	nts:	0' to 5	o' interv	al exca	avated	by hand	tools.				PROJECT NO.	11	17506	5
30.7111101				-		,					BORING NO.	1	OGP-38	
												†		
<u> </u>											1	1	1	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:		OGP-39	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR					Fenley a	and Nicol			DRILLING METHOD:	Hand Au	uger/Ge	oprobe
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	1	2/12/07	,
						DIA.					DATE FINISHED:	1	2/12/07	,
						WT.					DRILLER:	М	. Mead	е
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEF		RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
0		S-1	Grab				DK Brown	1	0' to 1'.		oil, very fine to fine SAND,	SP	0.0	Dry
		J-1	Ciab			1	DIX DIOWII				er, trace fine gravel.	01	0.0	Diy
						-								
1						4			1' to E'	Eino to coo	se SAND, little to some fine			
_						4	Lt. Brown				. No MGP impact.	GP		Dry
2						4			9. 40. (s g. aaou,				
 						4								
3														
4														
5									<u> </u>					
		S-2	Macro			46"	Brown to				coarse SAND, some fine to	GW	0.0	Dry
6			core				Lt. Brown		coarse (gravel (poor	ly graded). No MGP impact.			
						1								
7						1								
						1								
8						1								
9						1								
3										End	of boring: 9' bgs			
10						-				Ena	or boring: 9 bgs			
10						4								
						4								
11						4								
						1								
12						4								
						4								
13														
14]								
]								
15]								
16														
17						1								
						1								
18						1								
						1								
19						1								
						1								
20						1								
20		0' +0 5	linter:	al ava-	woto d	by bon-	tools	<u> </u>			DDO IFOT NO	<u> </u>	147500	
Commer	nts:	υιοε	ınterv	aı exca	avated	by hand	เบบเร.				PROJECT NO.	1	17506	
 											BORING NO.		GP-39	
<u> </u>											<u> </u>			

No. SAMPLE DESCRIPTION			LOG	TEST BORING				ration	Corpo	URS				
DESCRIPTION	·-40	OGP-40	D	BORING NO:										
SORING CONTRACTOR: Fentley and Notice SORING CONTRACTOR: Fentley and Notice SORING CONTRACTOR: SORING	a C	Area C	A	LOCATION:			ad MGP	an Hempstea	KeySpa				CT:	PROJEC
CAS. SAMPLER CORE TUBE TOTAL DEPTH: 9	5065	17506	11	JOB NO.:				KeySpan					:	CLIENT:
DATE TIME LEVEL TYPE DIA. DATE STARTED: 12/12	r/Geoprobe	ıger/Ge	Hand Au	DRILLING METHOD:			and Nicol	Fenley a				CTOR:	CONTRAC	BORING
DIAL DATE FINISHED: 12/12	,	9'		TOTAL DEPTH:	TUBE	CORE	SAMPLER	CAS.					DWATER:	GROUNI
DIAL DATE FINISHED: 12/12	2/07	2/12/07	12	DATE STARTED:			Macrocore		TYPE	TYPE	VEL	LE	TIME	DATE
FALL GEOLOGIST: J. Hars SAMPLE DESCRIPTION DESCR	2/07	2/12/07	12	DATE FINISHED:					DIA.					
POCKET PENETROMETER READING REVIEWED BY: K. Cor	eade	. Meade	M.	DRILLER:					WT.					
SAMPLE BLOWS REC FROD% COLOR TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PER 6" ROD% COLOR HARD DESCRIPTION USCS PER 6" ROD% COLOR COLOR	hman	larshm	J. H	GEOLOGIST:					FALL					
DEPTH FEET STRATA NO. TYPE PER 6" ROD% COLOR HARD O DESCRIPTION I Grab I Grab I Grab I Grab I Lt. Brown A Loose, fine to coarse SAND, some fine gravel. Core I Lt. Brown A Loose, fine to coarse SAND, some fine gravel. Tan B S-2 Macro Core A 2" Lt. Brown Tan A Loose, fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Feet Core Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Feet Core Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Feet Core Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Feet Core Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Feet Core Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. Fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact.	nnare	Connar	K.	REVIEWED BY:	DING	ER REA	ENETROMET	POCKET P	*					
STRATA NO. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PER 6" COLOR HARD DESCRIPTION USCS PER 6" COLOR HARD COLOR COLOR HARD COLOR COLOR HARD COLOR HARD COLOR COLOR HARD C					CRIPTION	DES				LE	SAMP			
S-1 Grab DK Brown O' to 2', Loamy topsoil, very fine to fine SAND, some organic matter, trace fine gravel. SP 0	REMARKS	REM		MATERIAL			CONSIST		REC	BLOWS				DEPTH
Some organic matter, trace fine gravel. Lt. Brown Lt. Brown At S-2 Macro	ID Moist	PID	USCS	ESCRIPTION	DE		HARD	COLOR	RQD%	PER 6"	TYPE	NO.	STRATA	FEET
1 2	0.0 Dry	0.0	SP	oil, very fine to fine SAND,	Loamy topso	0' to 2',		DK Brown			Grab	S-1		0
2				r, trace fine gravel.	ganic matte	some or								
2									1					1
Lt. Brown	1								1					
Lt. Brown	1								1					2
3	Dry	ļ	GP	se SAND, some fine gravel.	Fine to coars	2' to 5'.		It Brown	1					
S-2 Macro 42" Lt. Brown Loose, fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. GW 0 0 0 0 0 0 0 0 0 0			G.	, - 9					1					3
S-2 Macro 42" Lt. Brown Loose, fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. GW 0	1								1		 			
S-2 Macro 42" Lt. Brown Loose, fine to coarse SAND, some fine gravel (well graded). 4" band of black sand and gravel at 8.5" (not MGP impact). No MGP impact. GW 0	1								1		 		1	4
S-2 Macro									-		ŀ			
S-2 Macro									-		ŀ			5
Core).0 Dry	0.0	GW	e SAND, some fine gravel	ine to coars	Loose f	 	I + Prown	42"		Macro	S 2		
8.5' (not MGP impact). No MGP impact. 8	Diy	0.0	avv						42		P	3-2		6
8				ct). No MGP impact.	MGP impac	8.5' (not		/ Tan			COIC			
8														7
9 End of boring: 9' bgs 10									1		ŀ			
9 End of boring: 9' bgs 10														8
10									-					
10														a
10 11 12 13 14 15 16	_			of boring: Q' bas	End									
11				or borning. 9 bgs	Lila									10
12 13 14 15 16 17														
12 13 14 15 16 17														11
13 14 15 16 17														
13 14 15 16 17									1					12
14 15 16 17	1								1					
14 15 16 17	1								1					13
15 16 17									1					
15 16 17									1					14
16									1				1	
16									1					15
17	1								1				[
									1					16
									1					
18														17
18									1					
														18
19	1								1]	19
									1					
20														20
Comments: 0' to 5' interval excavated by hand tools. SP and GP 0' to 5' used in CS-C-1 PROJECT NO. 11175	5065	17506	11	PROJECT NO.	S-C-1	sed in C							nts:	-
gample, CW FI to 01 used in CS C 2 and CS C 2 camples		GP-40												

				UF	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:)GP-41	
PROJEC	T:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR					Fenley	and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TYP	Έ	TYPE		Macrocore			DATE STARTED:	1	2/13/07	,
						DIA.					DATE FINISHED:		2/13/07	
						WT.					DRILLER:	М	. Mead	Э
						FALL					GEOLOGIST:	J. H	larshm	an
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLOV	ws	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PER	6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				DK Brown		0' to 2',	Loamy tops	oil, very fine to fine SAND,	SP	0.0	Dry
									some or	rganic matte	er, trace fine gravel.			1
1														
2														
							Lt. Brown	†	2' to 5'.	Fine to coa	rse SAND, some fine to coarse	GP	ļ	Dry
3							/ Tan			No MGP im				D, y
4														
-														
5														
3		S-2	Macro			36"	Lt. Brown		Loose t	ine to coars	se SAND, trace coarse sand,	GW	0.0	Dny
6		3-2	core			30	to yellow				ine gravel. No MGP impact.	GVV	0.0	Dry
0			core				-			· ·				
7							orange							
/														
_														
8														
_														
9														
										End	of boring: 9' bgs			
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Commer	nts:							nd GP 0' to 5' i	used in C	S-C-1	PROJECT NO.	11	17506	5
		samp	le. GW	5' to 9' ι	used	in GS-C	-3 and CS-C	-2 samples.			BORING NO.		GP-41	
1														

FEET STRATA NO. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID					U	RS (Corpo	oration				TEST BORING	LOG		
SOUTH SOUT												BORING NO:)GP-42	
BORNING CONTRACTOR: Fenley and Nicol GROUNDWATER: GAS SAMPLE CORE TUBE TOTAL DEPTH: 9	PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CAS. SAMPLE CORE TUBE TOTAL DEPTH: 9	CLIENT:							KeySpan				JOB NO.:	11	17506	5
DATE TIME LEVEL TYPE DIA. DATE STARTED: 12/1307	BORING	CONTRAC	CTOR					Fenley a	and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
DIAL DATE FINISHED: 12:1307	GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
NT.	DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	1	2/13/07	,
FALL							DIA.					DATE FINISHED:	1	2/13/07	,
SAMPLE SAMPLE DEPTH STRATA NO, TYPE PER 6" RGD% S.1 Grab S.2 Macro core S.2 Macro core S.2 Macro core S.3 Brown to core S.4 Macro 1							WT.					DRILLER:	М	. Mead	Э
SAMPLE							FALL					GEOLOGIST:	J. F	larshm	an
DEPTH FRET STRATA No. TYPE BLOWS REC. RQDW COLOR CONSIST MATERIAL DESCRIPTION USCS PRID							,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
STATA NO. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID				SAME	LE		•			DES	SCRIPTION	•			
STATA NO. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID	DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
Some organic matter, trace line gravel.	FEET	STRATA	NO.	TYPE	PEF	₹ 6"	RQD%	COLOR	HARD		DI	ESCRIPTION	USCS	PID	Moist
Some organic matter, trace line gravel.			S-1	Grab				DK Brown		0' to 2',			SP		Dry
Lit. Brown 2' to 5', Losse, fine to to very coarse SAND, some GP	Ě		٠.	G. a.				511 5101111					0.	0.0	٥.,
Lit. Brown 2' to 5', Losse, fine to to very coarse SAND, some GP	1														
Lit. Brown 2' to 5', Loose, fine to to very coarse SAND, some GP GP							1								
Lit. Brown 2' to 5', Loose, fine to to very coarse SAND, some GP GP	2						1								
S-2 Macro 42" Brown to Li. Brown Loose, fine to very coarse SAND, some poorly GP 0.0							1	It Brown		2' to 5'	Loose fine	to to very coarse SAND, some	GD.	 	Dry
S S S S S S S S S S	2						1	Lt. DIOWII		fine to c	oarse grave	el. No MGP impact.	GF		ыy
S-2 Macro 42" Brown to Loose, fine to very coarse SAND, some poorly GP 0.0							-				-	·			
S - 2 Macro 42" Brown to Loose, fine to very coarse SAND, some poorly graded fine gravel. No MGP impact. GP 0.0	\vdash						1								
S-2 Macro 42* Brown to Lt. Brown Loose, fine to very coarse SAND, some poorly graded fine gravel. No MGP impact. GP 0.0	4						-								
S-2 Macro 42* Brown to Lt. Brown Loose, fine to very coarse SAND, some poorly graded fine gravel. No MGP impact. GP 0.0							1								
Core	5		0.0	M			40"			Looco	fine to year	poarco SAND, como poorly	OD		5
7			S-2				42"						GP	0.0	Dry
8	6			core			4	Lt. Brown		g. aaca	o g.a.o	past			
8	l						4								
9 End of boring: 9' bgs 10	7														
9 End of boring: 9' bgs 10															
End of boring: 9' bgs 10 11 12 13 14 15 16 17 18 19 20	8														
End of boring: 9' bgs 10 11 12 13 14 15 16 17 18 19 20															
11	9														
11	<u> </u>						4				End	of boring: 9' bgs			
12 13 14 15 16 17 18 19	10														
12 13 14 15 16 17 18 19															
13 14 15 16 17 18 19	11														
13 14 15 16 17 18 19															
14 15 16 17 18 19 20	12														
14 15 16 17 18 19 20															
15 16 17 18 19 20	13														
15 16 17 18 19 20															
16 17 18 19	14														
16 17 18 19															
17 18 19 20	15														
17 18 19 20															
18	16														
18															
19 20	17														
19 20															
20	18]								
20]								
	19														
Comments: 0' to 5' interval excavated by hand tools. PRO.IFCT NO 11175065	20		L				<u></u>							L	
11175000	Commen	nts:	0' to 5	5' interv	al exca	avated	by hand	tools.				PROJECT NO.	11	17506	5
BORING NO. DGP-42												BORING NO.			

				UR	rs c	Corpo	ration				TEST BORING	LOG		
											BORING NO:		GP-43	
PROJEC	T:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:				Fenley	and Nicol			DRILLING METHOD:	Hand Au	ıger/Ge	oprobe
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
DATE	TIME	LE	VEL	TYP	E	TYPE		Macrocore			DATE STARTED:	1	2/13/07	r
						DIA.					DATE FINISHED:		2/13/07	
						WT.					DRILLER:	М	. Meade	Э
						FALL					GEOLOGIST:	J. F	larshm	an
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	е
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLOV	vs	REC		CONSIST			MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PER	6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				DK Brown		0' to 2',	Loamy tops	oil, very fine to fine SAND,	SP	0.0	Dry
									some or	rganic matte	er, trace fine gravel.			,
1														
2														
							Lt. Brown	 	2' to 5'.	Fine to coa	rse SAND, some fine to coarse	GP	 	Dry
3							/ Tan			No MGP im				ر ان
3							, , , , , , ,							
4														
-														
5														
3		S-2	Macro			38"	I + Drown		l oose i	medium to v	very coarse SAND, little to	GW	0.0	Dry
6		5-2	core			30	Lt. Brown / Tan				e gravel (well graded). No	GW	0.0	Dry
O			core				/ Tall		MGP im		0 (0 ,			
7														
/														
_														
8														
_														
9														
										End	of boring: 9' bgs			
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20												<u> </u>		
Commer	nts:							ıd GP 0' to 5' ı	used in C	S-C-1	PROJECT NO.	11	17506	5
		samp	ie. GW	5' to 9' u	used i	n CS-C-	-2 sample.				BORING NO.		GP-43	

PROJECT					U	RS (Corpo	ration				TEST BORIN	G LOG		
CLIENT:												BORING NO:		OGP-44	
SORNING-CONTRACTOR:	PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CAS. SAMPLER CORE TUBE TOTAL DEPTH: 9 TOTAL DEPTH: 121407 TOTAL DEPTH: 121407	CLIENT:							KeySpan				JOB NO.:	1	117506	5
DATE TIME LEVEL TYPE DATE Macrocore DATE FINSHED: 12:14:07	BORING	CONTRAC	CTOR	:				Fenley a	and Nicol			DRILLING METHOD:	Hand Au	uger/Ge	oprobe
DATE TIME LEVEL TYPE DATE Macrocore DATE FINSHED: 12:14:07	GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9'	
	DATE	TIME	LE	VEL	TY	PE	TYPE					4	1	2/14/07	,
Commercise Com															
SAMPLE S															
SAMPLE DESCRIPTION								POCKET PI	L ENETROMET	ER REA	DING				
DEPTH STRATA NO TYPE PER 6" RGD% COLOR HARD DESCRIPTION USCS PID Moist				SAME	l F										_
FEET STRATA No. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID Moist	DEPTH					ows	BEC		CONSIST	T				REN	IARKS
O		STRATA	NO	TVPF				COLOR					LISCS	_	
Some organic matter, trace fine gravel.		UIIIAIA					HQD /0		HAILD	0' to 2'			_	-	
1	U		5-1	Grab			4	DK BIOWII					51	0.0	Dry
Comments: O to 5' interval execusted by hand tools. PROJECT NO. 11175065	<u> </u>						4				J	, ,			
Comments: O to 5' Interval exceveted by hand tools. PROJECT NO. Conserve to very coarse Comments: O to 5' Interval exceveted by hand tools. PROJECT NO. Coarse to very coarse Coarse gravel. No MGP Dry Dry Coarse Coarse gravel. No MGP Dry Dry	1						4						1		
Comments: O to 5' Interval exceveted by hand tools. PROJECT NO. Conserve to very coarse Comments: O to 5' Interval exceveted by hand tools. PROJECT NO. Coarse to very coarse Coarse gravel. No MGP Dry Dry Coarse Coarse gravel. No MGP Dry Dry	<u> </u>														
Lt. Brown / Tan	2						1							 	
S-2 Macro												to coarse to very coarse	GP		Dry
4	3]	/ Tan			some fine to	coarse gravei. No MGP	1		
S-2 Macro]			iiiipact.			1		
S-2 Macro	4												1		
S-2 Macro							1								
Core	5														
Core			S-2	Macro			37"	Brown to		Loose, f	fine to very	coarse SAND, some fine to	GP	0.0	Drv
7	6		0 =				1						•		5.,
77	<u> </u>			00.0											
8	7						1	Orange							
9							1								
9							1								
End of boring: 9' bgs End of boring: 9' bgs	8						4								
End of boring: 9' bgs End of boring: 9' bgs	<u> </u>						4								
110	9														
11											End	of boring: 9' bgs			
12	10														
12															
13 14 15 16 17 18 19 20 Comments: O' to 5' interval excavated by hand tools.	11														
13 14 15 16 17 18 19 20 Comments: O' to 5' interval excavated by hand tools.															
14 14 15 16 17 18 19 20 Comments: 0' to 5' interval excavated by hand tools.	12														
14 14 15 16 17 18 19 20 Comments: 0' to 5' interval excavated by hand tools.													1		
14 14 15 16 17 18 19 20 Comments: 0' to 5' interval excavated by hand tools.	13						1						1		
15 16 17 18 19 20 Comments: O' to 5' interval excavated by hand tools. PROJECT NO. 11175065							1								
15 16 17 18 19 20 Comments: O' to 5' interval excavated by hand tools. PROJECT NO. 11175065	14						1						1		
16							1						1		
16	15						1								
17 18 19 20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	- 						1						1		
17 18 19 20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	16						1								
18	10						1						1		
18	17						1						1		
19 20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	1/						1								
19 20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	<u> </u>						4						1		
20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	18						4								
20 Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065													1		
Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065	19]								
Comments: 0' to 5' interval excavated by hand tools. PROJECT NO. 11175065]						1		
	20														
	Commer	nts:	0' to 5	o' interv	al exca	avated	by hand	tools.				PROJECT NO.	11	117506	5
													_		

				URS	Corpo	ration				TEST BORING	LOG		
					-					BORING NO:	DGI	P-89 1 c	of 2
PROJEC	T:				KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
CLIENT:					, ,	KeySpan				JOB NO.:	1.	17506	5
BORING	CONTRAC	CTOR:					and Nicol			DRILLING METHOD:	Hand Au		
GROUNI	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		25'	
DATE	TIME	LE	VEL	TYPE	TYPE		Macrocore		_	DATE STARTED:	1	2/14/07	
					DIA.		· · · · · · · · · · · · · · · · · · ·			DATE FINISHED:		2/14/07	
					WT.					DRILLER:		. Meade	
					FALL					GEOLOGIST:		larshm	
					,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Connar	
			SAMP	LE				DES	SCRIPTION				
DEPTH				BLOWS	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Grab			DK Brown		0' to 2',		oil, very fine to fine SAND,	SP	0.0	Dry
		0.	G. G.			511 510 1111				er, trace fine gravel.	0.	0.0	٥.,
1			ŀ										
			ŀ	-	-								
2			ŀ	-	-								
					-	Lt. Brown		2' to 5'	Loose, fine	to coarse SAND, some fine to	GP		Dry
3					7	Li. DiOWII				MGP impact.	GF		ыy
					\dashv								
4					+								
4			1		-								
5			1		-								
		5.2	Macro		30"	Lt Brown		Loose	fine to coars	se to very coarse SAND, little	GW	0.0	Dny
6		3-2	core			to Orange				ded). No MGP impact.	GVV	0.0	Dry
-0			core		-	to Orange			, ,	,			
7			1		-								
8			<u> </u>		-								
			1		-								
9			1		-								
		S-3	Macro		44"	Lt. Brown		Loose.	fine to coars	se to very coarse SAND, little	GW	0.0	Dry
10			core		┪ ``	to Orange				ded). No MGP impact.	av.	0.0	Diy
			0010		1	to Grango							
11			1										
			ŀ		_								
12													
					7								
13					7								
		S-4	Macro		44"	Lt. Brown				se to very coarse SAND, little	GW	0.0	Dry
14			core		7	/ Orange				ded), trace medium to coarse			′
					7	Brown /		sand. N	o MGP impa	act.			
15						Grey							
16					1								
17													
		S-5	Macro		44"	Lt. Brown				se SAND, little well graded fine	GW	0.0	Dry
18			core		1	to Orange		gravel,	trace coarse	gravel. No MGP impact.			
19													
20													
Commen	nts:						nd GP 0' to 5' ι			PROJECT NO.	1	17506	5
				13' to 17' u	ised in GS	-C-6 sample	. GW 17' to 21	' used in	CS-C-7	BORING NO.	1	P-89 1 c	
		samp	ie.										

BORING NO: DGP-88 2 of 2					U	RS (Corpo	oration				TEST BORING	LOG		
Cuentractors							-					BORING NO:	DGF	P-89 2 c	of 2
BORING CONTRACTOR:	PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area C	
BORING CONTRACTOR:	CLIENT:											JOB NO.:			5
DATE TIME LEVEL TYPE Macrocore DATE STARTED: 12:1307			CTOR	:					and Nicol						
DATE TIME LEVEL TYPE Macrocore DATE STARTED: 12:1307	GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		25'	
	DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:	1	2/13/07	,
WT.															
FALL GEOLOGIST: J. Harshman GEOLOGIST:															
SAMPLE DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Moist								POCKET P	ENETROMET	ER REA	DING				
DEPTH No. TYPE PER 6" ROW COLOR RODW COLOR C				SAMP	LE										
STRATA No. 1 TYPE	DEPTH					ows	REC		CONSIST					REM	ARKS
S-5 Macro Core Core S-6 Marco Core		STRATA	NO.	TYPE				COLOR					uscs		
Core							1								
S-6 Marco	21						1 ''					1 0	<u> </u>	0.0	D, y
Core			S-6				44"	It Brown		Loose.	fine to coars	se SAND, little well graded fine	GW	0.0	Dry
23	22		00				1			gravel,	trace coarse	gravel. No MGP impact.	avv	0.0	Dry
24 25 End of boring: 25 bgs 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30				0010			1	to Orange							
24 25 End of boring: 25 bgs 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	22						1								
25 End of boring: 25' bgs 26 27 27 28 29 30 30 4 1 1 1 7 5 6 5	23						-								
25 End of boring: 25' bgs 26 27 27 28 29 30 30 4 1 1 1 7 5 6 5	24						1								
26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	24						-								
26 27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	05						-								
26	20										End (of boring: 25' bas			
27 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30	-00						-				Ellu (or borning. 25 bgs			
28 29 30 30 Comments: GW 21' to 25' used in GS-C-2 sample. PROJECT NO. 11175065	26						4								
28 29 30 30 Comments: GW 21' to 25' used in GS-C-2 sample. PROJECT NO. 11175065							-								
29 30 30 30 30 30 30 30 30 30 30 30 30 30	27														
29 30 30 30 30 30 30 30 30 30 30 30 30 30															
30	28														
30															
Comments: GW 21' to 25' used in GS-C-2 sample. PROJECT NO. 11175065	29														
Comments: GW 21' to 25' used in GS-C-2 sample. PROJECT NO. 11175065															
	30														
]								
]								
]								
]								
]								
]								
							1								
							1								
							1								
	Commer	nts:	GW 2	21' to 25	' used	in GS	-C-2 san	nple.		•		PROJECT NO.	11	17506	5

				U	RS (Corpo	TEST BORING LOG								
 											BORING NO: DG			3	
PROJECT: KeySpan Hempstead MGP											LOCATION:		Area C		
CLIENT:	-						KeySpan				JOB NO.:	11175065			
BORING	CONTRA	CTOR	:				Fenely and Nicol						ger/Geoprobe		
				arod			CAS. SAMPLER CORE TUBE			TOTAL DEPTH:	16'				
GROUNDWATER: Not encountered DATE TIME LEVEL TYPE TYPE							One: Chim Elli Cont 1052 101AL 521 III							,	
DATE	TIME	+ 4						Macrocore	crocore				12/27/07		
		-				DIA.	DATE FINISHED:						12/27/07		
		1				WT.					DRILLER:		. Meade		
						FALL					GEOLOGIST:		// Casey		
						*	* POCKET PENETROMETER					K.	Connar	Connare	
_			SAMP				DESCRIPTIO				1				
DEPTH				BLOWS PER 6"		REC RQD%	COLOR	CONSIST HARD	MATERIAL DESCRIPTION		MATERIAL		REMARKS		
FEET	STRATA	NO.	TYPE								USCS	PID Moist			
0		S-1	Grab			T	Brown		Soft gravelly CLAY with roots and some brick		Fill	0.0	0.0 Dry		
						1	[fragments. Gravel is fine to coarse. No evidence			1			
1						1			of MGP	impacts.					
						1									
2						1									
۷				 	-	1									
						1									
3				<u> </u>	<u> </u>	4									
						1									
4															
		S-2	Macro			38"	Orange				D with fine to coarse poorly	GP	0.0	Dry	
5			core				/ Lt. Brown		graded	gravel. No e	evidence of MGP impact				
						1									
6						1									
						1			At 6' to	6.5',becomi	ng black stained. No odor, no				
7						1			DNAPL	,	,				
						1									
				-		1									
8		<u> </u>	l			400				C	- CAND # +		ļ <u>.</u>	ļ <u>.</u>	
		S-3			-	40"	Orange			ine to coars raded grave	se SAND, some fine to coarse		0.0	Dry	
9			core			1	/ Lt. Brown		poorly g	naueu grave	JI.				
10		3									ming black stained sand with				
											fragments of coal. No odors,				
11						1			no DNA	PL.					
						1									
12						1									
		S-4	Macro	 	 	32"	Orange	†	Loose.	fine to coars	se SAND, with some fine to		0.0	Dry	
13			core		1	1 ~	/ Lt. Brown				ed gravel. No evidence of			J'y	
13		1	0016	-	1	1	, Lt. DIOWII			no odors.					
14				 	-	-									
14		1		-	-	-									
						-									
15		1		<u> </u>	<u> </u>	4									
					ļ	_									
16		1													
										End of boring: 16' bgs					
17															
						1									
18						1						1			
						1									
19				 	1	1									
18				-	1	1									
				-	-	-									
20				<u> </u>	<u> </u>	<u> </u>			<u> </u>		<u></u>				
Comment	ts:	Hand	l excava	ted fro	om 0' to	5'. Field	I notes DGP 103/5 to 3/8 to 12.			PROJECT NO.	1117506				
											BORING NO.	D	GP-103	3	
												1	1		