PROJECT: KeySpan Hempetead MSP					UF	rs (Corpo	ration				TEST BORING	LOG		
CLIENT:							-					BORING NO:	[GP-96	
CLIENT:	PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
BORNING CONTRACTOR:	CLIENT											JOB NO.:	11	175065	5
SATE TIME LEVEL TYPE Macroove DATE STARTED: 02:08:08	BORING	CONTRAC	CTOR						and Nicol				G	eoprobe)
SATE TIME LEVEL TYPE Macroove DATE STARTED: 02:08:08	GROUN	DWATER:								CORE	TUBE			10' bgs	
Marco Marc	DATE	TIME	LE	VEL	TYP	Έ	TYPE								
Macro Macr															
Comments															
SAMPLE SAMPLE DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Moist													J. F		an
SAMPLE DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Molet								POCKET PI	ENETROMET	ER REA	DING				
DEPTH STRATA NO. TyPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID Molet				SAME	LE										
FEET STRATA No. TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID Moist	DEPTH					WS	BEC		CONSIST					REM	ARKS
O			NO	TYPE				COLOR					USCS		
GRAVEL. Core Core		0111414			1 - 11	•		OOLON	HAILD	0' to 2'					
2 to 3', ALM, clinker, SAND and GRAVEL. 2 to 3', ALM, clinker, SAND and GRAVEL. 3' to 4', MGP impacted. Black stained, sheen, strong MGP purplier odor, wood chips. ML 1.0 Moist of 5.0	- 0		3-1				32					natorial, clirinor, or trub and	''''	0.0	Diy
2 to 3', ALM, clinker, SAND and GRAVEL. 2 to 3', ALM, clinker, SAND and GRAVEL. 3' to 4', MGP impacted. Black stained, sheen, strong MGP purifier odor, wood chips. Dk. Brown 5 Dk. Bro				core											
2' to 3', ALM, clinker, SAND and GRAVEL. 3' to 4', MGP impacted. Black stained, sheen, strong MGP purifier odor, wood chips. Dk. Brown 5.2 Macro core Core Core Orange Frown 10 10 End of boring: 10' End of boring: 10' End of boring: 10' PROJECT NO. 11175065	1														
2' to 3', ALM, clinker, SAND and GRAVEL. 3' to 4', MGP impacted. Black stained, sheen, strong MGP purifier odor, wood chips. Dk. Brown 5.2 Macro core Core Core Orange Frown 10 10 End of boring: 10' End of boring: 10' End of boring: 10' PROJECT NO. 11175065															
3 to 4', MGP impacted. Black stained, sheen, storing MGP purifier odor, wood chips.	2														
3° to 4°, MGP impacted. Black stained, sheen, strong MGP purifier odor, wood chips. S-2 Macro Sor Black Sor Sor Black Sor Sor										2' to 3',	ALM, clinke	r, SAND and GRAVEL.		1.0	Wet
Strong MCP purifier odor, wood chips.	3														
Dk. Brown 4" to 5", Silff Sil.T. ML 1.0 Moist														260.0	Wet
S-2 Macro S0* Black S*10.5.5*, MGP impacted. Tarry, sheen, stained, and coated sand, gravel and wood. Mil. 0.0	4									strong N	/IGP purifier	odor, wood chips.			
S-2 Macro S0 Size Si								Dk. Brown		4' to 5',	Stiff SILT.		ML	1.0	Moist
Core	5														
Core			S-2	Macro			50"	Black		5' to 5.5	', MGP imp	acted.Tarry, sheen, stained,	†	50.0	
Brown 5.5' to 6', SLT. SP/GP Dry	6			core				Brown					ML	0.0	
7								Brown	l	5.5' to 6	', SILT.		SP/GP		Dry
Coarse SAND and fine to coarse GRAVEL. No impact.	7									6' to 10'	. Loose to n	nedium dense, fine to very	1		,
9								, crange							
9										impact.					
10 End of boring: 10' 11	•														
10 End of boring: 10' 11															
End of boring: 10' 11	9														
End of boring: 10' 11															
11	10														
12											En	d of boring: 10'			
13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.	11														
13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.															
14	12														
14															
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065	13														
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065															
16	14														
16															
16	15														
17	l— -														
17	16														
18	l—¨				\vdash										
18	17				-										
19 20 Perched water at ~3'. PROJECT NO. 11175065	'/				\vdash										
19 20 Perched water at ~3'. PROJECT NO. 11175065	<u> </u>				\vdash										
20 PROJECT NO. 11175065	18				 										
20 PROJECT NO. 11175065	 														
Comments: Perched water at ~3'. PROJECT NO. 11175065	19														
Comments: Perched water at ~3'. PROJECT NO. 11175065															
	20					_							<u> </u>		
BORING NO. DGP-96	Comme	nts:	Perch	ned wat	er at ~3'							PROJECT NO.	11	175065	5
			Ī									BORING NO.	Г	GP-96	

				UI	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	[GP-97	•
PROJEC	T:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TYI	PE	TYPE		Macrocore			DATE STARTED:		2/08/08	
						DIA.		· · · · · · · · · · · · · · · · · · ·			DATE FINISHED:		2/08/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	.1.1	larshm	an
							POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME) F						SCRIPTION				
DEPTH				BLO	ws	REC		CONSIST	T		MATERIAL		BEN	IARKS
FEET	STRATA	NO.	TYPE	PER		RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
	JIIIAIA		Macro		10	46"	Grey	HAILD	0' to 2'		al. ALM, coal fragments,	Fill	0.0	WOISt
0		5-1				46	Cirey			wood. Wet		''''	0.0	
			core			l			,					
1						l								
						l								
2														Wet
									2' to 3',	Coal fragme	ents.			
3														
						1	Dk. Brown		3' to 4',	Stiff, SILT.		ML		
4														
						1	Orange		4' to 5',	Loose, fine	to very coarse SAND, trace	SP		Dry
5						1			fine gra	vel.				
		S-2	Macro			52"	Orange /		Loose, f	ine to very	coarse SAND, little to some	SP	0.0	Dry
6			core			1	Lt. Brown			vel. No impa				
			00.0			1								
7						1								
-						ł								
_						ł								
8						ļ								
						Į.								
9						l								
						l								
10														
						ļ				End	d of boring: 10'			
11														
12														
						1								
13						[
						1								
14						1								
				\vdash		ĺ								
15				\vdash		1								
10				\vdash		ł								
10				\vdash										
16				$\vdash \vdash \downarrow$										
														
17				<u> </u>										
				ļļ										
18														
19														
20						1								
Commer	nts:	Perch	ned wat	er at ~3	3'.	-	-	-	-		PROJECT NO.	1	17506	5
											BORING NO.	1	GP-97	
		i										1		

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:		GP-98	
PROJEC	T:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:					Fenley a	and Nicol			DRILLING METHOD:		Hand	
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		3' bgs	
DATE	TIME	LE	VEL	TY	'PΕ	TYPE		Grab			DATE STARTED:	1	2/21/07	,
						DIA.					DATE FINISHED:	1	2/21/07	,
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE					DES	SCRIPTION				
DEPTH					ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Grab				Black		0' to 1'.		cted material: Black stained	Fill	0.0	
-		0 1	Ciab				Stained				M. No sheen from jar shake			
1							Otan loa		test.					
-						4	Brown /		1' to 3'	Fine to coar	CA SAND	Fill	0.0	Dry
2						4	Lt. Brown		1 100,	i iiic to coai	30 0/11VD.	''''	0.0	Diy
							Lt. Diowii							
3														
										End	of boring: 3' bgs			
4														
5														
6														
7														
8														
9														
						1								
10						1								
						1								
11														
12														
						1								
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16						1								
10					-	ł								
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17						ł								
40					-	ł								
18					<u> </u>	4								
						-								
19														
20														
Commer	nts:	Stepo	out loca	tion (se	ection	E). Exca	vated by han	ıd.		·	PROJECT NO.		17506	
											BORING NO.	Γ	GP-98	

				U	RS	Corpo	oration				TEST BORIN	G LOG		
											BORING NO:	[OGP-99	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						-7 -1-	KeySpan				JOB NO.:		117506	
	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:		Hand	
	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		2' bgs	
DATE	TIME	ΙF	VEL	ΤV	'PE	TYPE		Grab			DATE STARTED:		2/21/07	,
DAIL	11101		*		-	DIA.		Giab			DATE FINISHED:		2/21/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		Harshm	
						-	POCKET P	L ENETROMET	FR RFA	DING	REVIEWED BY:		Conna	
			SAMP	l E			I			SCRIPTION		14.	Comma	
DEPTH			JAMI		ows	REC		CONSIST			MATERIAL	1	REM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
	3111A1A	S-1			1	TIQD /6	Black	HAILD	0' to 1'		ted material: black stained	Fill	FID	Dry
0		5-1	Grab			1	Stained		sand ar	id gravel, Al	LM.	''''		Diy
_						1	Stallieu			,				
1						-	D		41.4- 01	01	No evidence of impact. No	F:::		D
2							Brown				m jarshake test.	Fill		Dry
										End	of boring: 2' bgs			
3						1					5 -5-			
						1								
4						1								
·						-								
5						-								
J						-								
6						-								
6						4								
						4								
7						1								
						4								
8						1								
_						1								
9						4								
40						1								
10						4								
						4								
11						4								
						4								
12						-								
						-								
13						4								
14														
						4								
15														
16						1								
17														
18]								
19														
20						1								
Commer	nts:	Stepo	out loca	tion (se	ection	E). Exca	vated by har	nd.	•		PROJECT NO.	1	117506	5
		•		•			-				BORING NO.	_	OGP-99	
													<u> </u>	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-100)
PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:		Hand	
_	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		2' bgs	
DATE		LF	VEL	ΤV	'PE	TYPE		Grab			DATE STARTED:		2/21/07	
DAIL			*			DIA.		GIAD			DATE FINISHED:		2/21/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		- Meau	
						_	DOCKET D	<u>I</u> ENETROMET	ED DEA	DINC	REVIEWED BY:		Conna	
			0.445				POCKETP	ENETHOWET				N.	Comma	е
l		1	SAMF						DES	SCRIPTION		1		
DEPTH					ows	REC		CONSIST			MATERIAL			ARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%		HARD			ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				Black				ted material, black stained	Fill		Dry
							Stained		SAND a	ind GRAVEI	_, ALM.			
1														
						1	Dk. Brown		1' to 2',	Clayey SILT	. No visual signs of impact.			
2						1				er from jarsh				
		-								End	of boring: 2' bgs			
_						4				Lilo	or borning. 2 bg3			
3						-								
						4								
4														
5														
6														
						1								
7						1								
8						1								
						1								
9						1								
-						1								
- 10						4								
10						4								
11														
12														
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13]								
14														
						1								
15					Ì	1								
						1								
16						1								
10					-	1								
<u> </u>						1								
17						-								
 						4								
18														
<u> </u>														
19					<u></u>]								
20						1								
Commer	nts:	Stepo	out loca	tion (se	ection	E). Exca	vated by han	d.	-		PROJECT NO.	11	17506	5
		•					-				BORING NO.		GP-100	
		•												
<u> </u>												1	ı.	

				U	RS	Corpo	oration				TEST BORING	G LOG		
											BORING NO:	D	GP-101	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	1	17506	5
BORING	CONTRAC	CTOR:						and Nicol			DRILLING METHOD:		Hand	
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		2' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Grab			DATE STARTED:	1	2/21/07	,
						DIA.					DATE FINISHED:		2/21/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:	J. l	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME	LE					DE	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				Black		0' to 1',	MGP impac	ted material, black stained	Fill		Dry
						1	Stained		SAND a	and GRAVE	L, ALM.			
1						1								
						1	Dk. Brown		1' to 2',	Clayey SILT	Γ. No visual signs of impact.			
2						1			No shee	en from jar s	shake test.			
										End	of boring: 2' bgs			
3						1								
4						1								
5						1								
						1								
6														
						1								
7														
8						1								
						1								
9						1								
						1								
10														
						1								
11														
						1								
12														
						1								
13														
14														
15														
16						1								
17														
						_								
18						_								
						_								
19														
20														
Commen	nts:	Stepo	out (sec	tion E)	. Exca	vated by	hand.				PROJECT NO.	-	17506	
		•									BORING NO.	D	GP-101	

				U	RS	Corpo	ration				TEST BORING	G LOG		
						-					BORING NO:	D	GP-102	2
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	5
BORING	CONTRAC	CTOR						and Nicol			DRILLING METHOD:		Hand	
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		2' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Grab			DATE STARTED:	1	2/21/07	
						DIA.					DATE FINISHED:		2/21/07	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:	J. l	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME	LE					DE	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				Black		0' to 1',	MGP impac	ted material, black stained	Fill		Dry
						1	Stained		SAND a	and GRAVE	L, ALM.			
1						1								
							Dk. Brown		1' to 2',	Clayey SILT	Γ. No visual signs of impact.			
2										en from jar s				
										End	of boring: 2' bgs			
3						1								
						1								
4														
5						1								
						1								
6														
						1								
7														
8						1								
						1								
9						1								
						1								
10														
11														
12														
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14														
15														
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16						_								
17														
					ļ	4								
18														
						1								
19														
						4								
20														
Commen	nts:	Stepo	out (sec	tion E)	. Exca	vated by	hand.				PROJECT NO.	-	17506	
											BORING NO.	D	GP-102	2

				URS	Corpo	oration				TEST BORIN	G LOG		
										BORING NO:	D	GP-104	1
PROJEC	T:				KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						KeySpan				JOB NO.:	1	17506	5
BORING	CONTRAC	CTOR:	:				and Nicol			DRILLING METHOD:	Hand	d/Geopr	obe
GROUNI	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		14' bgs	
DATE	TIME	ΙF	VEL	TYPE	TYPE		Macrocore			DATE STARTED:		1/02/08	ì
DAIL					DIA.		Madrocoro			DATE FINISHED:		1/02/08	
					WT.					DRILLER:		Charlie	
					FALL					GEOLOGIST:		M Case	v
						POCKET P	<u>I</u> ENETROMET	ER REA	DING	REVIEWED BY:		Connai	_
			SAMF			I			SCRIPTION		14.	l	•
DEPTH			JAMI	BLOWS	REC		CONSIST	T DE.		MATERIAL		DEM	IARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	SINAIA			PENO	NQD%	Brown	HAND	Fill mate		concrete, mortar. Fine to	Fill	0.0	Dry
0		S-1	Grab	-	4	DIOWII				coarse gravel. No MGP	FIII	0.0	ыу
					_			impact.	ou,o to	ocarco graven rie men			
1					_			ļ ·					
2													
3					1								
4					1								
		S-2	Macro		36"	1		4' to 7' (Concrete fra	gments.	Fill	0.0	
5		_	core		┪ ```					•			
Ť			0010		-								
6					-								
0					-								
<u> </u>													
7						0 /		71. 01.1	<i>r</i>	CAND '''	0.0	0.0	_
					_	Orange /		7° to 9° l	Loose, fine t graded fine g	o coarse SAND, with some	GP	0.0	Dry
8						Red		poorly g	jiaueu iiile ç	jiavei.			
9													
		S-3	Macro			Lt. Brown				e SAND, with some poorly	GP	0.0	Dry
10			core					graded	fine gravel.				
11													
12													
\vdash					1								
13				\vdash	┪								
-5				-	\dashv								
14				$\vdash \vdash$	\dashv								
14				\vdash	-		<u> </u>	1	المحا	of harings 14! has			
<u> </u>					4				End (of boring: 14' bgs			
15				igwdow	4								
16					_								
17													
18					7								
19					1								
<u>`</u> _					┪								
20				 	-								
	oto:	0' to 4	l' eves	ated by ha	nd tools		<u>I</u>	l		DDO JECT NO	1	117500	
Commen	แระ	0 10 4	- CAUdi	raicu Dy Ild	iu 10015.					PROJECT NO.		117506	
		ı								BORING NO.	D	GP-104	+
										<u> </u>			

				UF	7S (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-105	5
PROJEC	T:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR:					Fenley	and Nicol			DRILLING METHOD:	Hand	l/Geopi	obe
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		15' bgs	
DATE	TIME	LE	VEL	TYF	PΕ	TYPE		Macrocore			DATE STARTED:	0	1/02/08	3
						DIA.					DATE FINISHED:	0	1/02/08	3
						WT.					DRILLER:	(Charlie	
						FALL					GEOLOGIST:	1A	M Case	у
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE					DES	SCRIPTION				
DEPTH				BLO	ws	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PER	6"	RQD%	COLOR	HARD		Di	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				Black		0' to 3',	Loose, Clay	with some sand, gravel, and	Fill	0.0	Dry
Ť			G. G.							gments.	, ,			ĺ
1														
╟														
2														
-														
3	***************************************						Orange /		3' to E'	Looso fine	to coarse SAND, some fine to	GP	0.0	Dry
\vdash				$\vdash \vdash \vdash$			Orange / Red		coarse		to coaise saind, some ime to	GP	0.0	υly
4							neu		,	g				
5									<u> </u>		OAND 'U.I. II I C	00/00		
		S-2	Macro			58"	Orange /				e SAND, with loose black fine to coarse gravel. No	GP/SP	0.0	Dry
6			core				Red		odors.	e sand, so	ille ille to coarse gravei. No			
									040.0.					
7														
8														
9														
10														
		S-3	Macro				Red /		Loose, 1	ine to coars	e SAND, with poorly graded	GP	0.0	Dry
11			core				Brown		fine gra	vel. No odor	S.			
12														
13														
14														
╟┈┤				$\vdash \vdash \vdash$										
15				\vdash										
1.5				\vdash					1	End o	of boring: 15' bgs			
16				$\vdash \vdash \vdash$						LIIU	25mig. 10 bgs			
10				\vdash										
17				\vdash										
17				\vdash										
				 										
18														
19														
20							<u> </u>		<u> </u>				<u> </u>	
Commen	nts:	Boring	g locati	on insid	e pro	oane tan	ık storage ar	ea.			PROJECT NO.	11	17506	5
											BORING NO.	D	GP-105	5

				URS	Corpo	oration				TEST BORING	LOG		
										BORING NO:	D	GP-106	3
PROJEC	T:				KeySp	an Hempste	ad MGP			LOCATION:		Area E	
CLIENT:						KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR				Fenley	and Nicol			DRILLING METHOD:	Hand	d/Geopi	obe
GROUN	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		15' bgs	
DATE	TIME	LE	VEL	TYPE	TYPE		Macrocore			DATE STARTED:	0	1/02/08	3
					DIA.					DATE FINISHED:	0	1/02/08	3
					WT.					DRILLER:	(Charlie	
					FALL					GEOLOGIST:	Al	M Case	У
					,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMP	LE	-			DE	SCRIPTION	•			
DEPTH				BLOWS	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		D	ESCRIPTION	uscs		Moist
0		S-1	Grab			Black		0' to 3',	Soft clay an	d gravel fill.	Fill	0.0	
Ů			G. a.					,	,				
1													
2													
					\dashv								
					\dashv								
3					4	Dk Decom		21 +2 51	fine to see	OO CAND with this and the	OD.	0.0	D.r. :
					4	Dk. Brown				se SAND, with little red fine to e fine to coarse gravel at 4' to	GP	0.0	Dry
4								5'.	O/114D, 30111	e inic to coarse graver at + to			
5													
		S-2	Macro		54"	Red /				se SAND, with fine to coarse	GP	0.0	Dry
6			core			Lt. Brown		poorly g	raded grave	Э.			
7													
8													
9													
10													
		S-3	Macro		54"	Red /		10' to 1	1', Loose, fir	ne to coarse SAND, with fine to	GP	0.0	Dry
11			core			Lt. Brown		coarse	poorly grade	ed gravel.			
						Black		11' to 1	1.3', Sandy/	gravelly CLAY	CL	0.0	Dry
12					7	Lt. Brown /	†	11.3 to	15', Loose,	fine to coarse SAND, little fine	GP	0.0	Dry
					\dashv	Red			se gravel.				
13					\dashv								
					=								
14					\dashv								
					\dashv								
15					\dashv								
10					+				End.	of boring: 15' bgs			
10									EIIU (or borning. To bys			
16					-								
					4								
17					4								
					4								
18					_								
					_								
19					_								
					_								
20											<u> </u>		<u> </u>
Commer	nts:	0' to 5	o' excav	ated by ha	ınd tools. L	ocated insid	e propane sto	rage area	a.	PROJECT NO.	1	17506	5
										BORING NO.	D	GP-106	3
	_	•											

				URS	Corpo	ration				TEST BORING	LOG		
					-					BORING NO:	D	GP-107	7
PROJEC	T:				KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:				Fenley a	and Nicol			DRILLING METHOD:	G	eoprobe	Э
GROUNI	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		15' bgs	
DATE	TIME	LE	VEL	TYPE	TYPE		Macrocore			DATE STARTED:	0	1/02/08	1
					DIA.					DATE FINISHED:		1/02/08	
					WT.					DRILLER:		Charlie	
					FALL					GEOLOGIST:	ΙA	M Case	У
					,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Connar	
			SAMP	LE				DE	SCRIPTION				
DEPTH				BLOWS	REC		CONSIST			MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		D	ESCRIPTION	uscs		Moist
0		S-1	Grab			Black		0' to 2.5		with some sand, gravel and	CL	0.0	Dry
		· .	Girab						gments.	, 0			1
1													
·				-	+								
2					-								
					\dashv								
3					\dashv	Red /		2.5' to 5	'. Loose fin	e to coarse SAND, with poorly	GP	0.0	Dry
3					-	Brown			ine to coars			0.0	J, y
4					-	DIOWII				-			
4													
5					-	Dad /			ilina ta aaau	as CAND with passely souted	GP	0.0	Dest
		S-2	Macro		4	Red /			oarse grave	se SAND, with poorly sorted	GP	0.0	Dry
6			core		_	Brown		11110 10 0	oarse grave	yı.			
7													
8													
9													
10													
		S-3	Macro			Dk. Brown				ne to coarse SAND with fine to	GP	0.0	Dry
11			core					coarse	gravei.				
12													
						Red /				oarse SAND, with poorly	GP	0.0	Dry
13						Orange		graded	fine to coars	se gravel.			
14													
15					1	<u> </u>	<u> </u>						L
									End	of boring: 15' bgs			
16													
					7								
17					7								
					1								
18					1								
					-								
19					-								
				-	-								
20				- 	┪								
	ato:	Borin	n locate	d inside pr	nnane tan	k vard	I	<u> </u>		BBO IECT NO	1	17500	
Commer	ns.	ا ا ا ان ت	y locale	ia maide pl	opane lall	i, yaiu.				PROJECT NO. BORING NO.	1	17506	
-		ı								BONING NO.	D	GP-107	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-108	3
PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						7 - 1-	KeySpan				JOB NO.:		117506	5
	CONTRAC	TOR						and Nicol			DRILLING METHOD:		eoprob	
GROUN	DWATER:	~28'					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:	;	30' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:		1/15/08	
						DIA.					DATE FINISHED:		1/15/08	
						WT.					DRILLER:	M	. Mead	е
						FALL					GEOLOGIST:	J. H	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	₹ 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Grab				Dk. Brown				soil over fine to medium SAND	, SP	0.0	Dry
									some fir	ne to coarse	e gravel.			
1														
2]								
]	Brown to				to coarse SAND, some fine to	SP	0.0	Dry
3]	Lt. Brown		coarse	gravel.				
]								
4]								
]								
5							_							
		S-2	Macro			54"	Lt. Brown				coarse SAND, trace to little	SP	0.0	Dry
6			core				/ Orange		weil gra	ded fine gra	avei.			
7														
8														
9														
10									l		0.4415			_
		S-3	Macro			57"	Lt. Brown			tine to very ded fine gra	coarse SAND, trace to little	SP	0.0	Dry
11			core			4	/ Orange		well gra	ded lille gra	1VGI.			
						-								
12						1								
40						ł								
13						-								
4.4						ł								
14						1								
15						1								
15		C 1	Macro			50"	Lt. Brown		Loose	fine to very	coarse SAND, trace to little	SP	0.0	Dry
16		S-4	l 1			50"	/ Orange			ded fine gra		J.	0.0	Di y
10			core			1	, Crange			- 3.				
17						1								
17						1								
18						1								
10						1								
19						1								
ıΰ						1								
20						1								
	l	0' to F	o' excay	ated w	/ith ha	nd tools.		<u> </u>	<u> </u>		PROJECT NO.	1	117500	5
Commer	π5.	5 10 0	, UNUAV	alou W	11a	10013.					BORING NO.		117506 GP-108	
											DOMING NO.	+ D	ar-100	,

				UR	S C	orpora	ation			TEST BOR	NG LO	G	
										BORING NO:		DGP-108	3
PROJEC [*]	Т:					KevSpar	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:						KeyS				JOB NO.:		1117506	5
BORING	CONTRACT	OR:					Fenley and	Nicol		BORING LOCATION:		Area E	
			SAMPI	LE					D	ESCRIPTION			
DEPTH	STRATA			BLC	ows	REC		CONSIST		MATERIAL		Rem	arks
FEET	SYMBOL	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD	D	ESCRIPTION	USCS	PID	MOIST
21		S-5	Macro core			46"	Lt. Brown / Orange		Loose, fine to very well graded fine gra	coarse SAND, trace to little avel.	SP	0.0	Dry
22						'							
23						i							
24													
25													
26		S-6	Macro core			40"	Lt. Brown / Orange		25' to 28', Loose, fi trace to little well g	ine to very coarse SAND, raded fine gravel.	SP	0.0	Dry
27			00.0			i I	rorungo						
						•							
28									28' to 30', Loose, fi gravel. Water table	ine to coarse SAND, trace fine			Wet
29									graver. Water table	sat -20 bys.			
30									End o	of boring: 30' bgs			
31						i							
32						,							
33													
34						,							
35						i I							
36													
37													
38						i I							
39													
40						ı							
COMMEN	NTS:									PROJECT NO.		DGP-108	
										BORING NO.		1117506	5

DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 S 16 17 18 19			URS	Corpo	ration				TEST BORING	LOG		
CLIENT: BORING CONTRACTO GROUNDWATER: ~2 DATE TIME DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 16 17 18 19									BORING NO:	D	GP-109	9
BORING CONTRACTO GROUNDWATER: ~2 DATE TIME DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 12 13 14 15 S 16 17 18 19				KeySp	an Hempstea	d MGP			LOCATION:		Area E	
GROUNDWATER: ~2 DATE TIME DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 12 13 14 15 S 16 17 18 19					KeySpan				JOB NO.:	1	17506	5
DATE TIME DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	TOR:	:				and Nicol			DRILLING METHOD:	G	eoprob	е
DATE TIME DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	-29'				CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:	- ;	30' bgs	
DEPTH FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 S 16 17 18 19		VEL	TYPE	TYPE		Macrocore			DATE STARTED:		1/25/08	}
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19				DIA.		Madrocoro			DATE FINISHED:		1/25/08	
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19				WT.					DRILLER:		. Meade	
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19				FALL					GEOLOGIST:	J. Harsh		
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19					POCKET PI	ENETROMET	ER REAL	DING	REVIEWED BY:		Connai	
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19		SAMP	1 5	1	I			SCRIPTION		14.	l	
FEET STRATA N 0 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 15 S 16 17 18 19	Т	JAMI	BLOWS	REC		CONSIST			MATERIAL	I	DEM	IARKS
0 S 1 2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 S 16 17 18 19	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs	PID	Moist
1	_	_	PERO	NQD%	Brown	ПАПИ	0' to 4'		to coarse SAND, little fine to	SP	0.0	Dry
2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 S 16 17 18 19	S-1	Macro			DIOWII		coarse		to coarse saind, little line to	SF	0.0	Diy
2 3 4 5 6 7 8 9 10 S 11 12 13 14 15 S 16 17 18 19		core		_			000.00	g. u. v				
3 4 5 6 7 8 9 10 11 12 13 14 15 5 16 17 18 19		l .										
3 4 5 6 7 8 9 10 11 12 13 14 15 5 16 17 18 19												
4 5 S 6 S S 6 S S S S S S S S S S S S S S				_								
4 5 S 6 S S 6 S S S S S S S S S S S S S S		[1								
5 S S S S S S S S S S S S S S S S S S S				_								
5 S S S S S S S S S S S S S S S S S S S	J			_								
10 S 11 12 13 14 15 S 16 16 17 18 19	J											
10 S 11 12 13 14 15 S 16 16 17 18 19		ľ			White /		4' to 5',	Concrete fra	agments.	SP	0.0	
10 S 11 12 13 14 15 S 16 17 18 19		İ			Gray							
7 8 9 10 S 11 12 13 14 15 5 16 17 18 19	S-2	Macro		34"	Dk. Brown		5' to 9',	Loose sligh	ty gravelly fine to coarse	SP	0.0	Moist
10 S 11 12 13 14 15 S 16 17 18 19		core					SAND, 1	medium to o	coarse gravel.			
10 S 11 12 13 14 15 S 16 17 18 19		ľ										
10 S 11 12 13 14 15 S 16 17 18 19		l t										
9 10 S 11 12 13 14 15 S 16 17 18 19		ŀ										
9 10 S 11 12 13 14 15 S 16 17 18 19				1								
10 S 11 12 13 14 15 S 16 16 17 18 19												
10 S 11 12 13 14 15 S 16 16 17 18 19		ŀ		-								
11 12 13 14 15 S 16 17 18 19 19				-	Orange		9' to 10'	Loose fine	to coarse SAND.	SP	0.0	Moist
11 12 13 14 15 S 16 17 18 19 19				-	Orange		3 10 10	, LOUSC IIIIC	to coarse or trub.	01	0.0	WOSt
11	0.0	M = = ==		47"	Orange /		Looco f	ino to coore	e SAND, with trace coarse	SP	0.0	Moist
12 13 14 15 16 17 18	S-3	Macro		47"	Brown		gravel.	ine to coars	e SAND, with trace coarse	SF	0.0	IVIOISI
13 14 15 16 17 18 19		core			DIOWII		g.a.o					
13 14 15 16 17 18 19												
14	J] .		4								
14				4								
15 S 16 S 17 S 18 19 19				1								
15 S 16 S 17 S 18 19 19				1								
16 17 18 19	J			_								
16 17 18 19		[1								
16 17 18 19				<u> </u>								
17 18 19	S-4	Macro		39"	Orange /				e SAND, some medium to	SP	0.0	Dry
18		core			Red		coarse,	subangular	to subrounded gravel.			
18]								
19	J											
19				1								
				1								
	J			1								
				1								
L				-								
20				1								
# 000000000000000000000000000000000000				1			I		DDO IECT NO	<u> </u>	147500	
Comments:									PROJECT NO.	_	17506	
									BORING NO.	D	GP-109	1

				URS C	orpora	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-109	9
PROJEC1	Γ:				KeySpar	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS _l				JOB NO.:		1117506	5
BORING	CONTRACT					Fenley and	Nicol		BORING LOCATION:		Area E	
		1	SAMPL		1		ı		ESCRIPTION			
DEPTH	STRATA		TVDE	BLOWS	REC	001.00	CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		ESCRIPTION se SAND, some medium to	USCS SP	PID 0.0	MOIST
21		S-5	Macro core		34"	Orange / Red			r to subrounded gravel.	SP	0.0	Dry
22					1							
23					1							
24					<u> </u>							
25					†							
		S-6	Macro		33"	Orange /			se SAND, some medium to	SP	0.0	Dry
26			core		1	Red		table at ~29'.	r to subrounded gravel. Water			
27					<u> </u>							
28					<u> </u>							
29					1							
					1							Wet
30								End (of boring: 30' bgs			
31					<u> </u>				or borning. Go bgo			
32					1							
33					1							
34					1							
					1							
35					<u> </u>							
36					1							
37]							
38					‡							
39					‡							
40					<u> </u>							
COMMEN	ITS:								PROJECT NO.		DGP-109	
									BORING NO.		1117506	5

				URS	Corpo	oration				TEST BORING	LOG		
										BORING NO:	D	GP-110)
PROJEC	T:				KeySp	an Hempstea	ıd MGP			LOCATION:		Area E	
CLIENT:	1					KeySpan				JOB NO.:	1	1175065	5
BORING	CONTRAC	CTOR				Fenley a	and Nicol			DRILLING METHOD:	G	eoprobe)
GROUNI	DWATER:	~29'				CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		30' bgs	
DATE	TIME		VEL	TYPE	TYPE		Macrocore			DATE STARTED:		1/25/08	
DAIL	111112				DIA.		Madrodoro			DATE FINISHED:		1/25/08	
					WT.					DRILLER:		. Meade	
					FALL					GEOLOGIST:		Harshma	
						POCKET PI	NETROMET	FR RFAI	DING	REVIEWED BY:		Connar	
			SAMP) E		I			SCRIPTION		14.	Comman	
DEPTH			SAIVIE	BLOWS	REC		CONSIST	I DE		MATERIAL		DEM	ARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs	_	Moist
	SIRAIA			PERO	_		ПАКИ	1			Fill		
0		S-1	Macro		32"	Dk. Brown				ense, fine to coarse SAND, ravel. Trace concrete at 2'.	FIII	0.0	Dry
			core						onio inio gi	avoi. Hado delloroto at 2 :			
1					_								
2													
3													
4													
5					1								
		S-2	Macro		42"	Dk. Brown		5' to 8',	Loose, fine	to coarse SAND, with some	SP	0.0	
6			core		┨ ¨					lack/brown stained and coated			
Ť			0010							d at 7', 2" thick. Note: Little			
7								perched	water at 5'.	•			
,					_							120.0	
					-							120.0	
8													
												0.0	
9												0.0	
10													
		S-3	Macro		44"	Lt. Brown				se SAND, trace well graded	SP	0.0	Dry
11			core			/ Orange		fine grav	vel. No impa	act.			
12													
13				ĺ									
					1								
14					1								
					1								
15				 	-								
-13		Q_1	Macro		40"	Lt. Brown		Loose to	medium d	ense, fine to very coarse	SP	0.0	Dry
16		J-4			→	w/ intervals				oorly graded fine gravel.]	0.0	<i>2</i> .y
10			core		-	of Orange			F	, ,			
4-					-	of Orange / Brown							
17					_	/ BIOWN							
					_								
18					_								
19													
20													
Commen	nts:		!	•						PROJECT NO.	1	1175065	5
										BORING NO.		GP-110	

				URS (Corpor	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-110)
PROJECT	Γ:				KeySpa	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS				JOB NO.:		1117506	5
BORING	CONTRACT	OR:				Fenley and	Nicol		BORING LOCATION:		Area E	
		1	SAMPL						ESCRIPTION	_		
DEPTH	STRATA			BLOWS			CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE		RQD%	COLOR Lt. Brown	HARD		ESCRIPTION dense, fine to very coarse	USCS SP	PID 0.0	MOIST Dry
21		S-5	Macro core		36"	Lt. Diowii			poorly graded fine gravel	51	0.0	Dry
			COIG		┪	Orange						
22					†	/ Brown						
					7							
23					7							
]							
24												
					4							
25									CAND			_
26		S-6	Macro core		36"	Brown / Orange			coarse SAND, some well rse gravel. Wet at ~29'. No	SP	0.0	Dry
20			core		+	Orange		impact	v			
27					†							
					†							
28					7							
]							
29]							
					4							Wet
30								F	· Charles and Date			
31					4			End	of boring: 30' bgs			
31	·				┪							
32					†							
					7							
33					7							
]							
34												
					4							
35					4							
36					1							
					†							
37					7							
					7							
38]							
					4							
39					4							
40					4							
40 COMMEN	TC.								DDO IECT NO		DOD 444	
COMMEN	115:								PROJECT NO. BORING NO.		DGP-110 1117506	
									20.1110 110.			<u> </u>
<u> </u>												

1' to 5', Loose, fine to coarse SAND, Ittle fine gravel, 6" of concrete at ~3" bgs. No impacts. S-2 Macro core Brown and Lt. Brown Brown and Lt. Brown S-3 Macro core Core Core Core Core Core Core Core C					URS	S Corpo	oration				TEST BORING	LOG		
DIRECTION September Sept											BORING NO:		GP-11	1
ERRING CONTRACTOR: Fentley and Nicol RIFLLING METHOD: Geoprote	PROJEC	T:				KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
BORNIC CONTRACTOR: Fentley and Naco DRILLING METHOD: Geoproble	CLIENT:	1									JOB NO.:	1	117506	5
DATE TIME LEVEL TYPE VIVE Miscrocore DATE STARTED: 0.12508 UT.	BORING	CONTRAC	CTOR	:				and Nicol			DRILLING METHOD:	G	eoprob	е
DATE TIME LEVEL TYPE Mecrocore DATE STARTED: 012508									CORE	TUBE	TOTAL DEPTH:		30' bas	
DIA DATE FINISHED: 0:125:08 M. Meade FALL			_	VFI	TYPE	TYPE								}
WT.	DAIL	111112				_		WIGOLOGOLO						
FALL POCKET PENETROMETER READING REVIEWED BY: K. Connave DESCRIPTION REMARK FEET STRATA NO. TYPE PER 8" ROMS CO.O.R HARD DESCRIPTION USCS PID Moi PID Moi PID Moi PID Moi PID														
SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE BLOWS REC COLOR HARD O'to', Loamy topsoil. 1' to 5'. Loose, fine to coarse SAND, trace very coarse sand, trace fine gravel. S. Macro Core S. Macro S. Macro S. Macro S. Macro S. Macro S. Macro Core														
SAMPLE DESCRIPTION							POCKET P	L ENETROMET	FR RFA	DING				
DEPTH FRET STRATA No. TYPE BLOWS REC. ROD% COLOR ROD% COLOR RARD DESCRIPTION USCS PID Moil				CVME) E	_	I					14.	I	
STRATA NO. TYPE	DEDTH			JAMI		e DEC		CONSIST				T	DEM	IVDKG
S-1 Macro 41" DK, Brown 0" to 1", Loamy topsoil. Fill 0.0 Di		STRATA	NO	TVDE			COLOR					HECE		
1' to 5', Loose, fine to coarse SAND, Ittle fine gravel, 6' of concrete at -3' bgs. No impacts. S-2 Macro		JINAIA				_		HAND	0' to 1'					Dry
1 to 5', Losse, fine to coarse SAND, title fine gravel, 6" of concrete at ~3" bgs. No impacts. S-2 Macro 55" Intervals of Brown and Lt. Brown	0		5-1			41"	DR. DIOWII		0 10 1,	Loamy tops	OII.	''''	0.0	Diy
gravel, 6° of concrete at ~3° bgs. No impacts. Conserved at ~3° bgs. No impacts. Conserved at ~3° bgs. No impacts.	H.			core					414- 51		CAND 141- 6			
2 3 3 4 4 5 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	1													
3 4 5 S-2 Macro									graver, v	J OI COILCIE	te at 0 bgs. No impacts.			
S.2 Macro	2													
S.2 Macro														
S-2 Macro Core Brown and Lt. Brown S-3 Macro Core Core Core Core Core Core Core Co	3]	
S-2 Macro Core Brown and Lt. Brown S-3 Macro Core Core Core Core Core Core Core Co														
S-2 Macro S5" Intervals of Brown Lit. Brown Lit. Brown Lit. Brown S-3 Macro Core S-5" Brown Core S-4 Macro	4													
S-2 Macro S5" Intervals of Brown Lit. Brown Lit. Brown Lit. Brown S-3 Macro Core S-5" Brown Core S-4 Macro														
Brown and Lt. Brown S.3 Macro 55° Brown / Orange Loose to medium dense, fine to coarse SAND, little fine gravel. S-4 Macro 50° Brown Loose, fine to very coarse SAND, little fine gravel. S-4 Macro 50° Brown Loose, fine to very coarse SAND, little fine gravel. SP 0.0 Display	5													
and Lt. Brown S-3 Macro 55" Brown / Orange Loose to medium dense, fine to coarse SAND, SP 0.0 Dr.			S-2	Macro		55"	Intervals of					SP	0.0	Dry
Lt. Brown Sample	6			core			Brown		sand, tra	ace fine to o	coarse gravel. No impacts.			
8 9 10 S-3 Macro							and							
8 9 10 S-3 Macro	7						Lt. Brown							
9														
9	8													
S-3 Macro S5" Brown / Orange Loose to medium dense, fine to coarse SAND, SP 0.0 Di Ittle very coarse sand, trace fine gravel. S-4 Macro S0" Orange / Brown Loose, fine to very coarse SAND, little fine gravel. SP 0.0 Di No impacts. SP O.0 Di Di Di Di Di Di Di D														
S-3 Macro S5" Brown / Orange Loose to medium dense, fine to coarse SAND, SP 0.0 Di Ittle very coarse sand, trace fine gravel. S-4 Macro S0" Orange / Brown Loose, fine to very coarse SAND, little fine gravel. SP 0.0 Di No impacts. SP O.0 Di Di Di Di Di Di Di D	a													
S-3 Macro 55" Brown / Orange Loose to medium dense, fine to coarse SAND, little very coarse sand, trace fine gravel. SP 0.0 Dr.														
S-3 Macro 55" Brown / Orange Loose to medium dense, fine to coarse SAND, little very coarse sand, trace fine gravel. SP 0.0 Dr.	10													
11 Core Core	10		0.0	M			Brown /		Looco te	n modium d	once fine to coarse SAND	QD.	0.0	Dny
12	- 44		S-3			55"						35	0.0	Diy
13	- 11			core			Orange			,	na, naoo mio gravon			
13														
14	12													
14														
15	13													
15														
S-4 Macro 50" Orange / Brown Loose, fine to very coarse SAND, little fine gravel. SP 0.0 Dr.	14													
S-4 Macro 50" Orange / Brown Loose, fine to very coarse SAND, little fine gravel. SP 0.0 Dr.														
16 Core Brown No impacts. No impacts. PROJECT NO. 11175065	15]							
17			S-4	Macro		50"	_				coarse SAND, little fine gravel.	SP	0.0	Dry
18	16			core			Brown		No impa	acts.				
18														
19 20 PROJECT NO. 11175065	17													
19 20 PROJECT NO. 11175065					İ									
19 20 PROJECT NO. 11175065	18													
20 PROJECT NO. 11175065														
20 PROJECT NO. 11175065	19													
Comments: PROJECT NO. 11175065														
Comments: PROJECT NO. 11175065	20													
						J	<u> </u>	<u> </u>	I		DDO JECT NO	1	117500	
IBOKING NO. DGP-111	Commen	ແຮ້										1		
											DUMING NO.	L	ur-11	I

				URS C	orpora	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-11	1
PROJECT	Γ:				KeySpar	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS _l				JOB NO.:		1117506	5
BORING (CONTRACT	OR:				Fenley and	Nicol		BORING LOCATION:		Area E	
			SAMPL		T				ESCRIPTION			
DEPTH	STRATA			BLOWS	REC		CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		ESCRIPTION	USCS	PID	MOIST
21		S-5	Macro core	-	42"	Orange / Brown		gravel. No impact.	coarse SAND, little fine	SP	0.0	Dry
					1							
22					<u> </u>							
23					1							
24			-		1							
					1							
25		S-6	Macro		43"	Brown /		Loose fine to very	coarse SAND, little fine	SP	0.0	Dry
26		3-0	core		1 43	Orange			th brown sand at 28'. Wet at	OI	0.0	Ыу
27			-		1			23.				
					<u> </u>							
28					1							
00					4							
29			-		+							Wet
30			•									wet
								End o	of boring: 30' bgs			
31			}		1							
32					<u> </u>							
33			-		<u> </u>							
					1							
34			-		<u> </u>							
35					1							
36					1							
37]							
31					1							
38]							
39					1							
40					1							
COMMEN	ITS:					ı		1	PROJECT NO.		DGP-11	1
									BORING NO.		1117506	

PROJECT: CLIENT: BORING CONT GROUNDWAT DATE TIM DEPTH FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 10				URS	Corpo	oration				TEST BORING	LOG		
CLIENT: BORING CONT GROUNDWAT DATE TIM DEPTH FEET STRA 0 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17										BORING NO:	D	GP-112	2
BORING CONT GROUNDWAT DATE TIM DEPTH FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
GROUNDWAT DATE TIM DATE TIM DEPTH FEET STRA 0 1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 17						KeySpan				JOB NO.:	11	175065	5
DATE TIM	ONTRAC	CTOR:					and Nicol			DRILLING METHOD:		eoprobe	
DATE TIM	ATER:	~29' t	oas			CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		30' bgs	
DEPTH FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			VEL	TYPE	TYPE	0.101	Macrocore			DATE STARTED:		1/25/08	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17					DIA.		Macrocord			DATE FINISHED:		1/25/08	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17					WT.					DRILLER:		. Meade	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17					FALL					GEOLOGIST:		larshma	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17					_	POCKET P	L ENETROMET	FR RFA	DING	REVIEWED BY:		Connar	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			SAMP	1 =	L	I			SCRIPTION	HEVIEWED DI.	14.	Comman	
FEET STRA 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			JAINIF	BLOWS	REC		CONSIST			MATERIAL		DEM	IARKS
0	грата	NO.	TYPE	PER 6"		COLOR	HARD			ESCRIPTION	USCS		Moist
1 2 3 4 4 5 5 6 6 7 7 8 8 9 10 11 12 12 13 14 14 15 16 16 17	DAIA			PERO	hQD%		ПАПИ	0' to 1'			SP	0.0	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		S-1	Grab		_	Dk. Brown		0 10 1,	Loamy tops	OII	51	0.0	Dry
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17													
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17													_
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17					_	Dk Brown				to medium SAND and some	SP	0.0	Dry
4 5 6 7 8 9 10 11 12 13 14 15 16				[_			fine gra	vcı.				
4 5 6 7 8 9 10 11 12 13 14 15 16					_								
5 6 7 8 9 10 11 12 13 14 15 16			[_								
5 6 7 8 9 10 11 12 13 14 15 16					_								
6													
6													
7 8 9 10 11 12 13 14 15 16													
7 8 9 10 11 12 13 14 15 16		S-2	Macro		16"	Dk. Brown		Loose,	fine to medic	um SAND, trace to little fine	SP	0.0	Dry
10 11 12 13 14 15 16			core			/ Brown		gravel.					
10 11 12 13 14 15 16			l i										
10 11 12 13 14 15 16			l t										
9 10 11 12 13 14 15 16			l										
9 10 11 12 13 14 15 16			l										
10 11 12 13 14 15 16			l ł										
10 11 12 13 14 15 16													
11 12 13 14 15 16													
11 12 13 14 15 16													
12 13 14 15 16		S-3	Macro		32"	Dk. Brown		Loose	fine to media	um SAND, trace to little fine	SP	0.0	Dry
12 13 14 15 16		5-3	l 1		- 32	/ Brown		gravel.	iiie to iiieait	ani Sand, trace to little line	01	0.0	Diy
13 14 15 16 17			core		_	becoming		9.4					
13 14 15 16 17						· ·							
14 15 16 17					_	Orange /							
14 15 16 17					4	Brown							
15					_								
15					4								
16					_								
16					_								
17													
17		S-4	Macro		46"	Brown /		Loose,	fine to very o	coarse SAND, little fine gravel.	SP	0.0	Dry
			core			Orange							
10													
10													
18				ĺ									
					7								
19													
├ ं- ऻ					-								
20					\dashv								
		0' to 5	o' interv	al excavat	ed by hand	l tools	<u> </u>	<u> </u>		PROJECT NO.	1	175065	
Comments:		3 10 0		a. Onoavai	ou by nand					BORING NO.		GP-112	
										DUNING NU.	1 0	97-112	

				URS C	orpora	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-112	2
PROJECT	Γ:				KeySpar	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS				JOB NO.:		1117506	5
BORING	CONTRACT	OR:				Fenley and	Nicol		BORING LOCATION:		Area E	
			SAMPL		T		T		ESCRIPTION			
DEPTH	STRATA			BLOWS	REC		CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		ESCRIPTION	USCS	PID	MOIST
21		S-5	Macro core		48"	Brown / Orange		gravel.	coarse SAND, little fine	SP	0.0	Dry
			00.0		1	J						
22]							
23					<u> </u>							
24					1							
25]							
23		S-6	Macro		42"	Brown /		Loose, fine to very	coarse SAND, little fine	SP	0.0	Dry
26			core		1	Orange		gravel, with little lig at 29'. Wet at 29'.	ht brown fine to medium sand			,
27					<u> </u>							
					1							
28					1							
29					†							
					1							Wet
30												
					1			End o	of boring: 30' bgs			
31					1							
32					<u> </u>							
33					<u> </u>							
34					<u> </u>							
					1							
35					1							
36]							
37					1							
38					1							
39					1							
					<u> </u>							
40	ITC.								DDO JECT NO		DGB 111	
COMMEN	115:								PROJECT NO. BORING NO.		DGP-112 1117506	
									20.11110110.			·
<u> </u>												

				URS	Corpo	ration				TEST BORING	LOG		
										BORING NO:	D	GP-11	3
PROJEC	T:				KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1					KeySpan				JOB NO.:	11	17506	5
	CONTRAC	CTOR					and Nicol			DRILLING METHOD:		eoprob	
	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:	:	30' bgs	
DATE	TIME		VEL	TYPE	TYPE	О ДО.	Macrocore	COLLE	1000	DATE STARTED:		1/25/08	
DAIL	IIIVIL	LL	VLL	IIFE	DIA.		Macrocore			DATE FINISHED:			
					WT.		-			DRILLER:		1/25/08	
					-							. Mead	
					FALL	DOOMET D			2010	GEOLOGIST:		larshm	
						POCKETP	ENETROMET			REVIEWED BY:	K.	Conna	re
			SAMP					DES	CRIPTION				
DEPTH				BLOWS	REC		CONSIST			MATERIAL			IARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0		S-1	Macro		40"	Brown				elly SAND, with little clay and	Fill	0.0	Dry
			core					black cl	nker in 0' to	1' interval.			
1					1								
					1						SP/GP	0.0	Dry
2					-								,
					\dashv			Cobble	at 2'				
					\dashv			555516	- .				
3					4								
					4								
4													
5													
		S-2	Macro		33"	Red /			ine to coars	se SAND, trace fine gravel. No	SP	0.0	Dry
6			core			Orange		impact.					
					1								
7					1								
					-								
8					-								
					-								
					_								
9					_								
10													
		S-3	Macro		49"	Red /				se SAND, trace sudangular to	SP	0.0	Dry
11			core			Orange		subrour	ia, meaium	to coarse gravel. No impact.			
12													
13					1								
					_								
14					-								
- '-					\dashv								
4.5					\dashv								
15		0 :	<u> </u>		+ ,	Dk. Brown	-	15140 4	7' locas #'	no to operan CAND with	SP	0.0	D::::
		S-4	Macro		45"	DK. Brown				ne to coarse SAND, with bund, medium to coarse	SP	0.0	Dry
16			core					gravel.	ומו נט שוטונ	ouna, mediam to coarse			
					_			3.2.0					
17								<u> </u>			_		<u> </u>
						Red /				ne to coarse SAND and	SP/GP	0.0	Dry
18						Orange		GRAVE	L.				
					1								
19					1								
					1								
20					\dashv								
20												<u> </u>	<u> </u>
Commen	nts:									PROJECT NO.	1	17506	
										BORING NO.	D	GP-11	3
I													

				URS	Corpora	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-113	3
PROJEC1	Γ:				KeySpa	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS				JOB NO.:		1117506	5
BORING	CONTRACT	OR:				Fenley and	Nicol		BORING LOCATION:		Area E	
			SAMPL				1		ESCRIPTION			
DEPTH	STRATA			BLOWS			CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE			COLOR	HARD		ESCRIPTION	USCS	PID	MOIST
21		S-5	Macro		52"	Red / Orange		Loose, fine to coar	se SAND and GRAVEL.	SP/GP	0.0	Dry
21			core		+	Orango						
22					+							
					\dashv							
23					7							
					7							
24												
25												
		S-6	Macro		38"	Red /		Loose, fine to coar at ~29'	se SAND and GRAVEL. Wet	SP/GP	0.0	Dry
26			core		4	Orange		at 25				
27					\dashv							
21					-							
28					- 							
					7							
29					7							
												Wet
30												
					_			End o	of boring: 30' bgs			
31					4							
32					-							
32					+							
33					7							
					7							
34												
					\Box							
35												
- 00					4							
36					\dashv							
37					\dashv							
- '' - 				 	\dashv							
38					7							
39												
					_]							
40									T			
COMMEN	ITS:								PROJECT NO.		DGP-113	
									BORING NO.		1117506	5

				UF	RS (Corpo	ration				TEST BORING	LOG		
						•					BORING NO:	D	GP-114	ļ
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:						, ,	KeySpan				JOB NO.:		175065	5
	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:		eoprobe	
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		9' bgs	
DATE	TIME	LE	VEL	TYP	PΕ	TYPE		Macrocore			DATE STARTED:		2/05/08	
27112			·		_	DIA.					DATE FINISHED:		2/05/08	
						WT.					DRILLER:		. Meade	
						FALL					GEOLOGIST:		larshma	
							POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Connar	
			SAMP	LE						SCRIPTION				
DEPTH				BLO	ws	REC		CONSIST	<u> </u>		MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PER		RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0			Macro			28"	Dk. Brown		0' to 2'.		oil, with some fine gravel.	SP	0.0	Dry
0		0 1	core			20			, ,,		, g			,
1			core			ł								
						1								
2				+		1								
				-+		ł			2' to 5'	Loose fine	to coarse SAND, trace fine to	SP	0.0	Dry
3				-		l			coarse		to course of the time to	0,	3.0	ر. بى ن
3						I				-				
4				-+		ł								
4						ł								
				-		l								
5		0.0				00"	Dk. Brown		E' to G'	Loona fina	to coarse SAND with some	SP	0.0	Dni
		S-2	Macro			20"	DK. DIOWII		fine gra		to coarse SAIND with some	SF	0.0	Dry
6			core			ł	Black /		_		t. Black, wet, sheen, "muddy",	SP	33.0	Wet
						ł	Brown		some b	rown fine to	coarse SAND and fine gravel.	SF	33.0	wet
7						ł	DIOWII			dor. Refusal				
8						ł								
0						ł								
9						ł								
9										End	of boring: 9' bgs			
10						ł				Liiu	or borning. 9 bgs			
10						ł								
11						ł								
- ' '						ł								
12						ł								
				-		1								
13						1								
14						1								
15						1								
						1								
16						1								
						1								
17						1								
						1								
18						1								
						1								
19						1								
20						1								
Commen	nts:	Refus	sal at 9'	believe	d to b	e founda	ation/floor of	return sump s	tructure.		PROJECT NO.	11	175065	5
											BORING NO.	1	GP-114	
	_	•										1	i -	-

				U	RS	Corpo	oration				TEST BORING	GLOG		
											BORING NO:	D	GP-11	5
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1						KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		3' bgs	
DATE	TIME	LE	VEL	TY	PE.	TYPE		Macrocore			DATE STARTED:		2/05/08	3
						DIA.					DATE FINISHED:		2/05/08	
						WT.					DRILLER:		. Mead	
						FALL					GEOLOGIST:		larshm	
							POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME	LE						SCRIPTION				
DEPTH					ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0			Macro			21"	Dk. Brown		0' to 2'.		oil with fine gravel.	SP	0.0	Dry
			core			- '			,	, , ,	5			,
1			core			-								
'						1								
						4								
2						4	Dualin		01 to 01	Lanca fina	to coarse SAND, with some	CD.		D=1
						4	Brown			vel. Refusal		SP		Dry
3									iiiic gia					
										End	of boring: 3' bgs			
4														
5														
6														
7						1								
						1								
8						1								
						1								
9						1								
						1								
10						1								
11						1								
<u> </u>						1								
12						-								
12				-		1								
10						1								
13						-								
<u> </u>						1								
14						-								
<u> </u>				<u> </u>		ł						1		
15						4								
<u> </u>				<u> </u>										
16												1		
17														
]						1		
18]								
]								
19														
						1								
20						1						1		
Commer	nts:										PROJECT NO.	1.	17506	5
	•	•									BORING NO.		GP-11	
		•												
<u> </u>												1	<u> </u>	

				URS	Corpo	oration				TEST BORING	LOG		
					-					BORING NO:	D	GP-116	3
PROJEC	CT:				KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:					-7-1-	KeySpan				JOB NO.:		17506	5
	CONTRAC	CTOR	:				and Nicol			DRILLING METHOD:		eoprob	
GROUNI	DWATER:	~29' k	oas			CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:	3	30' bgs	
DATE	TIME		VEL	TYPE	TYPE		Macrocore		_	DATE STARTED:		2/05/08	3
					DIA.					DATE FINISHED:		2/05/08	
					WT.					DRILLER:		Mead	
					FALL					GEOLOGIST:		larshm	
						POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAMP	LE					SCRIPTION				
DEPTH				BLOWS	REC		CONSIST	1		MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PER 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
0		S-1	Macro		32"	Dk. Brown		0' to 2'.		oil, with some fine gravel.	SP	0.0	Dry
		0 1	core		- 02			, ,,		, g			,
1			core		-								
					-								
2					┨								
					-			2' to 5'	l nose fine t	o coarse SAND, some fine to	SP	0.0	Dry
3					┨				gravel, trace			0.0	Diy
3					4				_ ,				
4					-								
4					_								
					_								
5		0.0			40"			E' to G'	Fill type me	terial: concrete fragments,	Fill	7.0	Dry
		S-2	Macro		40"				nd and grav		FIII	7.0	Diy
6			core		_	Red /			Very fine SA		Fill	0.0	Moist
					_	Brown		6 10 7 ,	very line or	AND.	FIII	0.0	to Wet
7					4	DIOWII		7' += 0'	MCD impag	t blook stained and seated	Fill	10.0	
										t black stained and coated ND with wood strands.	FIII	13.0	Wet
8					4	Orongo /					SP	0.0	Dest
						Orange / Brown		8 10 10	, Loose, iine	e to medium SAND.	58	0.0	Dry
9						DIOWII							
-10					_								
10		0.0			0.411	Orange /		1 0000 1	fina ta agara	a CAND trace fine gravel No.	SP	0.0	Dry
		S-3	Macro		34"	Yellow /		impact.	ille to coars	e SAND, trace fine gravel. No	SF.	0.0	Diy
11			core		4	Brown							
10					-	Diowii							
12					4								
13					┥								
13					-								
14					┨								
14					┨								
15					┨								
13		S-4	Macro		44"	Orange /		Loose f	fine to coars	e SAND, some fine gravel. No	SP	0.0	Dry
16		3-4	core		┤ ***	Yellow /		impact.	0 00013	, como imo gravon 140]	3.0	J. y
- 10			5516		1	Brown							
17					┪								
					1								
18					┪								
					1								
19					1								
13					4								
20					1								
-	nte:	5' to 1	10' Fill/S	SP used in F	ICN:1	<u> </u>	<u> </u>	<u> </u>		PROJECT NO.	11	17506	
Commer	ແວ.		. 5 1 111/0	4554 1111						BORING NO.		GP-116	
 										BOTHING NO.	0	ar-ilt	,
											1		

				URS C	orpora	ation			TEST BOR	ING LO	G	
									BORING NO:		DGP-116	6
PROJECT	Γ:				KeySpar	n Hempstead	d MGP		SHEET:		2 of 2	
CLIENT:					KeyS _l				JOB NO.:		1117506	5
BORING	CONTRACT	OR:				Fenley and	Nicol		BORING LOCATION:		Area E	
			SAMPL		T				ESCRIPTION			
DEPTH	STRATA			BLOWS	REC		CONSIST		MATERIAL			narks
FEET	SYMBOL	NO.	TYPE	PER 6"	RQD%	COLOR	HARD		ESCRIPTION	USCS	PID	MOIST
0.1		S-5	Macro		42"	Orange / Yellow /		No impact.	se SAND, some fine gravel.	SP	0.0	Dry
21			core		+	Brown		'				
22			-		1	Diowii						
			•		1							
23			•		1							
			ŀ		1							
24					1							
]							
25												
		S-6	Macro		38"	Lt. Brown		Loose, fine to coar Wet at 29'. No imp	rse SAND, trace fine gravel.	SP	0.0	Dry
26			core		1	/ Tan		Wet at 23. No Imp	act.			
07					4							
27			-		4							
28					1							
					1							
29			•		1							
					1							Wet
30												
								End o	of boring: 30' bgs			
31					4							
					4							
32					1							
33					1							
- 00			•		1							
34			ŀ		1							
			•		1							
35]							
			[1							
36					1							
07					1							
37					1							
38					†							
				+	†							
39					1							
					1							
40												
COMMEN	ITS:								PROJECT NO.		DGP-116	
									BORING NO.		1117506	5
<u> </u>												

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-11	7
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR	:				Fenley a	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	0	2/08/08	3
						DIA.					DATE FINISHED:	0	2/08/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE		-			DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PE	R 6"	RQD%	COLOR	HARD		Di	ESCRIPTION	USCS		Moist
0		S-1	Macro			50"	Black		0' to 2',		al. ALM, SAND and GRAVEL.	Fill	0.0	Dry
Ů		٠.	core			"			1					
1			0010											
 														
2						ł								
						ł	Black		2' to 4'	MGP impa	cted. Stained and coated,	Fill	50.0	Wet
3						ł					, SAND and GRAVEL, purifier	'''	35.0	
3				<u> </u>		ł			odor.	. , ,	, i			
						ł								
4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			<u> </u>	ļ	ł	Dk. Brown		A' to E'	Stiff, SILT.		ML	-	Dry to
							DK. DIOWII		4 10 5,	SIII, SILI.		IVIL		Moist
5							Dir Drawn		E! to 0!	C+:FF CILT		N 41	0.0	
		S-2	Macro			42"	Dk. Brown		5' 10 9',	Stiff, SILT.		ML	0.0	Moist
6			core				to Brown							
7														
8														
9							<u> </u>		<u> </u>					<u> </u>
							Orange				e to very coarse SAND, some	SP		Dry
10									fine gra	vel. No impa	act.			
										End	d of boring: 10'			
11														
12														
						1								
13						1								
						1								
14						1								
						1								
15						1								
						1								
16						1								
						1								
17						1								
						1								
18						1								
· · ·						1								
19						1								
13						ł								
20						ł								
20	to:	Doroh	ned wat	or of a	Q'		<u> </u>	<u> </u>			DDO IECT NO		17500	Ļ⊢
Commer	ilS:	rercr	ieu Wal	eı al ~;	J.						PROJECT NO.		117506	
<u> </u>											BORING NO.	D	GP-11	′
<u> </u>														

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-11	3
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:		2/11/08	
						DIA.					DATE FINISHED:		2/11/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	.1.1	larshm	an
							POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME	l F						SCRIPTION				
DEPTH			<u> </u>		ows	REC		CONSIST	T		MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
	JIIIAIA	NO.	TIFE		1	TIQD /6	COLOII	HALL	Gravel	at surface.	LOCITIF FION	0303	FID	WOISt
0						40"	Brown				al. ALM, coal fragments, fine	Fill	0.0	Dny
		S-1	Macro	-		48"	DIOWII				nd GRAVEL.	FIII	0.0	Dry
1			core						to mean	ani oravb a	IIG GITAVEE.			
												1		
2											nse, fine to coarse SAND,			
							Brown		MGP oc		e gravel. Slight sheen, faint	SP	0.0	Moist
3]			I VICI UC	.01.				
							Black				P impacted material. Sheen,		3.0	Wet
4										GP odor.				
						1	Dk. Brown		4' to 5',	Stiff SILT. N	lo impact.	ML	0.0	Dry
5						1								
		S-2	Macro			50"	Dk. Brown		5' to 6'.	Stiff, SILT. N	No impact.	ML	0.0	Dry
6		~ -	core			1 00			· 1	,	•			
			0010			1	Brown		6' to 10'	Loose fine	to coarse SAND and	GP/SP	0.0	Dry
7						1	D. 0			L. No impac		G. 7 G.	0.0	J.,
-						1								
						4								
8						4								
l						4								
9														
10														
										End	d of boring: 10'			
11														
12														
						1								
13						1								
					1	1								
14						1								
 						1								
15						1								
13				-		ł								
10				 		1								
16				.		1								
<u> </u>						1								
17				<u> </u>		4								
18						1								
]								
19]								
20						1								
Commer	nts:	Perch	ned wat	er at ~	3'.	•	-	-	-		PROJECT NO.	11	17506	5
		•									BORING NO.		GP-11	
		•										İ		
											-	•		

PROJECT: KeySpan Hempstead MGP					U	RS (Corpo	ration				TEST BORING	LOG		
CALENT:												BORING NO:	D	GP-11	9
SORNING-CONTRACTOR:	PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CAS. SAMPLE CORE TUBE TOTAL DEPTH: 10° bgs	CLIENT:							KeySpan				JOB NO.:	1	117506	5
DATE TIME LEVEL TYPE Macrocore DATE STARTED: 0221108	BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:	G	eoprob	е
DATE TIME LEVEL TYPE Macrocore DATE STARTED: 0221108	GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
	DATE	TIME	LE	VEL	TY	PE.	TYPE		Macrocore			DATE STARTED:	0	2/11/08	3
							DIA.					DATE FINISHED:	0	2/11/08	3
SAMPLE POCKET PENETROMETER READING REVIEWED BY: K. Connare							WT.								
DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Moist DESCRIPTION DESCRIPTION USCS PID Moist DESCRIPTION DESCRIPTION USCS PID Moist DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Moist DESCRIPTION DESCRIPTION DESCRIPTION USCS PID Moist DESCRIPTION DESCRIPTIO							FALL					GEOLOGIST:	J. F	larshm	an
DEPTH STRATA NO TYPE PER 6" ROWS REC COLOR HARD DESCRIPTION USCS PID Moist							,	POCKET PI	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
FEET STRATA No. TYPE PER 6" ROD% COLOR HARD Convolutions Conv				SAMF	LE		•			DES	SCRIPTION	•			
FEET STRATA No. TYPE PER 6" ROD% COLOR HARD Convolutions Conv	DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
State Stat	FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR					USCS	PID	Moist
S	0									Gravel					
Core			S-1	Macro			54"			0' to 2'.	MGP mater	ial and fill. ALM. SAND and	Fill	0.0	†
2	1		Ŭ .				1 .								
Signature Sign	·			00.0											
Signature Sign	2						1								Moist
Second S					 		1	Brown		2' to 3'	Stiff SILT c	ome sand and gravel Slight	Fill	0.0	
Black GRAVEL. Sheen, MGP (purifier?) odor. Secondary Secondar	વ		1				1				, 0	s same and graven ongin			
A			1				-	Black		3' to 4'	Stained MG	P impacted SAND and	SP	45.0	
S-2 Macro S-2 Macro	4				-		1	DIGON		GRAVE	L. Sheen, M	IGP (purifier?) odor.	31	75.0	**61
S	-4		l		-		ł	Dk Brown	l		,	u ,	N/II	0.0	Dry to
S-2 Macro	_				-		1	DK. DIOWII		4 10 5 ,	Othi Oil i. iv	io impact.	IVIL	0.0	-
Core Core	5						50"	Dk Brown		E' +o 6'	C+iff CIL T		N/I	0.0	
Orange / Brown for to 10°, Loose, fine to vey coarse SAND and fine to coarse GRAVEL. No impact. SP Dry Provided the coarse GRAVEL. No impact. SP Dry Provided the coarse GRAVEL. No impact. SP Dry Provided the coarse GRAVEL. No impact. SP Dry SP Dr	_		S-2				50"	DK. DIOWII		5 10 6,	SIII SILT.		IVIL	0.0	Diy
7 Brown to coarse GRAVEL. No impact.	6			core			4	0		C! to 10!	Lagas fine	to you cooree CAND and fine	OD	ļ	Dest
8							4	_				-	SP		Dry
9	/						4	/ Brown		to oourc	o arrivel.	Tto impaot.			
9							4								
10	8														
10							4								
End of boring: 10' End of	9														
End of boring: 10' End of															
11	10														
12											End	d of boring: 10'			
13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.	11														
13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.															
14	12														
14															
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065	13														
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065							1								
16	14]								
16]								
17	15]								
17]								
18	16]								
18															
19 20 Perched water at ~3'. PROJECT NO. 11175065	17														
19 20 Perched water at ~3'. PROJECT NO. 11175065															
20 Perched water at ~3'. PROJECT NO. 11175065	18						1								
20 Perched water at ~3'. PROJECT NO. 11175065							1								
Comments: Perched water at ~3'. PROJECT NO. 11175065	19						1								
Comments: Perched water at ~3'. PROJECT NO. 11175065							1								
Comments: Perched water at ~3'. PROJECT NO. 11175065	20						1								
	_	nts:	Perch	ned wat	er at ~	3'.		•	•	•		PROJECT NO.	1	117506	5
			•												
			•												

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-12)
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:				Fenley a	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:		2/11/08	
						DIA.					DATE FINISHED:	0	2/11/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET PI	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMF	LE		•			DES	SCRIPTION	•			
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD		Di	ESCRIPTION	USCS	PID	Moist
0									Gravel a	at surface				
-		S-1	Macro			52"	Brown		0' to 2',	MGP mater	ial. ALM, coal fragments,	Fill	0.0	Dry
1		0 1	core			, °-				fine to coars				, í
			00.0											
2														
						1	Brown		2' to 3'	Fine to coar	rse sandy SILT and some fine	Fill	0.0	Moist
3						1			gravel.		and come into			
						1	Black		3' to 4'	Stained MG	P impacted. SAND and	Fill	10.0	Wet
4						1	Didoit				ker, slag. Faint MGP odor,	'	10.0	
-						-	Dk. Brown		4' to 5'	Stiff SILT.		ML	0.0	Moist
5						-	DR. BIOWII		+ 10 5,	Ottili OIL1.		IVIL	0.0	to Dry
3		0	Macro			54"	Dk. Brown		5' to 7'	Medium stif	f SILT	ML	0.0	Dry
6		3-2				54	to Brown		5 10 7 ,	Wicalain 3th	i, OILT.	IVIL	0.0	Diy
- 0			core			-	to Brown							
7						-								
-						-	Orange		7' to 10'	Looco Ein	e to coarse SAND and fine to	SP	0.0	Dry
						1	/ Tan			GRAVEL. N		J.	0.0	Dry
8						-	/ Ιαπ							
						1								
9						-								
4.0						-								
10											1 (1 ' 40)			
						4				End	d of boring: 10'			
11						4								
						4								
12						4								
<u> </u>						1								
13						1								
<u> </u>				<u> </u>		ł								
14						1								
<u> </u>				<u> </u>		ł								
15						4								
				ļ										
16				<u> </u>										
				<u> </u>										
17						1								
18														
						1								
19						1								
20														
Commer	nts:	Perch	ned wat	er at ~	3'. 3' to	o 4' HCN	:1				PROJECT NO.		17506	
<u> </u>											BORING NO.	D	GP-12)

S-1 Macro S6" Black O' to 1", MGP material, ALM, wood, SAND and GRAVEL.					UR	S Corp	oration				TEST BORING	LOG		
DOING CONTRACTOR:						_					BORING NO:	D	GP-12	1
CLIENT: KeySpan JOB NO: 11175065	PROJEC	T:				KeyS	pan Hempste	ad MGP			LOCATION:		Area E	
SORING CONTRACTOR: Fentley and Nacol SORILLING METHOD: Geoprobe						, -								5
DATE TIME	BORING	CONTRAC	CTOR					and Nicol				G	eoprob	е
DATE TIME	GROUNI	DWATER:					CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
			LE	VEL	TYP	Е ТҮРЕ		+						
WT.	27112													
FALL POCKET PENETROMETER READING REVIEWED BY: K. Combiere							1		1					
POCKET PÉNETROMETER READING REVIEWED BY: K. Connaro												J I		an
SAMPLE BLOWS REC CONSIST MATERIAL DESCRIPTION USCS PID Mol							* POCKET P	ENETROMET	ER REA	DING				
DEPTH STRATA NO. TVP PER 6" ROD" COLOR HARD DESCRIPTION USCS PID Mol				SAMP	LE	<u> </u>								
STRATA No. 1 TYPE PER 6" ROD% COLOR HARD DESCRIPTION USCS PID Mol	DEPTH			<u> </u>		VS REC		CONSIST	1			I	REM	IARKS
S-1 Macro Se* Black O' to 1'. MGP material. ALM, wood, SAND and Fill 0.0 D			NO.	TYPE						D		uscs	-	Moist
Core								1	0' to 1'.					Dry
1	Ů		Ŭ i											,
S-2 Macro S2* Dk. Brown 1* to 3*, Loose, silty SAND with some fine gravel. Fill 0.0 Mc	1			COIE		-								
Black 3' to 4'. Stained MGP impacted fine to medium Fill 10.0 W SAND and GRAVEL. ALM, sheen, faint odor. MIL 0.0 D D D D D D D D D	<u> </u>						Brown		1' to 3'	Loose silty	SAND with some fine gravel	Fill	0.0	Moist
Black 3' to 4', Stained MGP impacted fine to medium SAND and GRAVEL. ALM, sheen, faint odor. Dick Brown A' to 5', Stiff SILT. No impact. ML 0.0 D D D D D D D D D	2		1			-	1			_0000, 011ty	2. 3.12 como into gravel.	''''	"."	
Black 3' to 4', Stained MGP impacted fine to medium Fill 10.0 W			1											
Black 3' to 4', Stained MCP impacted fine to medium Fill 10.0 W			1			_	1							
SAND and GRAVEL. ALM, sheen, faint odor. Dk. Brown A' to 5', Stiff SILT. No impact. ML 0.0 Dk. Brown A' to 5', Stiff SILT. No impact. ML 0.0 Dk. Brown A' to 5', Stiff SILT. No impact. ML 0.0 Dk. Brown A' to 5', Stiff SILT. No impact. ML 0.0 Dk. Brown Brown Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some SP 0.0 Dk. Brown G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, fine to very coarse SAND, some G' to 10', Loose, f	3						Plack		2' to 4'	Stained MC	CD imposted fine to modium	EIII	10.0	Wet
Dk. Brown 4' to 5', Siff SILT. No impact. ML 0.0 D	\vdash						Diack					""	10.0	vvei
S.2 Macro S.2 Brown	4		1			_	Dk Brown					NAI	0.0	Dry
S-2 Macro S-2 Core S-2 Dk. Brown Brown Grip 10', Loose, fine to very coarse SAND, some SP 0.0 D							DK. DIOWII		4 10 5 ,	SIII SILI.I	No impact.	IVIL	0.0	Dry
Brown Brown G'to 10', Loose, fine to very coarse SAND, some SP 0.0 D	5					50"	Dk Brown		4' to E'	C+iff CILT N	No import	NAL	0.0	Dny
Brown / Orange / Tan Brown SP 0.0 D			S-2			52"			4 10 5 ,	SIII SILI.I	No impact.	IVIL	0.0	Dry
7	6			core					6' to 10'	' Loono fin	a ta vary agarag CAND, agma	CD.		Dry
Tan Tan Tan Tan Tan Tan Tan Tan						_						35	0.0	Dry
8 9 10 10 10 End of boring: 10' 11 11 12 13 14 14 15 15 16 16 17 18 18 19 20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065						_	-		J g. s.					
9	_						Tan							
10 End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	8													
10 End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065						_								
End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	9					-								
End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	10													
11	10									En	ed of boring: 10'			
12	44									LII	id of borning. To			
13	- 11					_								
13	10					_								
14	12					_								
14	12						1							
15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	13				-	_	1							
15 16 17 18 19 20 Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	1./					_								
16	- 14													
16	15													
17	15						1							
17	16													
19 20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	10						1							
19 20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	17						1							
19 20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	- '					-								
19 20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	18					-								
20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065					-									
20 Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	19						1							
Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065						-								
Comments: Perched water at ~3'. 3' to 4' HCN: 2 PROJECT NO. 11175065	20													
- THE STATE OF THE		nte:	Perch	ed wat	erat~3'	3' to 4' HO	N: 2	<u> </u>	1		PROJECT NO	1	117506	<u> </u>
	Johnner	113.	. 0.01	.sa wal	a. 0.	3 .3 . 110	· · · -				BORING NO.	1		
BONING NO. DGF-121			•								BOTING NO.	L	,ui -12	'

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-12	2
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:	:				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	0	2/11/08	3
						DIA.					DATE FINISHED:	0	2/11/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMP	LE					DES	SCRIPTION	•			
DEPTH					ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	-	Moist
0			Macro			52"	Black		0' to 2'.		ial. ALM, some fine to medium	Fill	0.0	Dry
-		0 1	core			32	Brown				L, red brick.			,
1			core			-	Brown							
						-								
_						-								
2						4	Drown		0' +0 0'	Silty SAND	with ground	Fill	0.0	Mojet
						4	Brown		2 10 3,	SIILY SAIND	willi gravei.	FIII	0.0	Moist
3						-	Diech		01 += 41	Chair 1 140	Dimmontal CAND:	F::::	05.0	to Wet
							Black				P impacted SAND and leen MGP odor.	Fill	85.0	Wet
4							<u> </u>			•	CONTINUE OUOI.			<u> </u>
							Dk. Brown		4' to 5',	Stiff, SILT.		ML	0.0	Dry
5														
		S-2	Macro			56"	Dk. Brown		5' to 6',	Stiff SILT.		ML	0.0	Dry
6			core				to Brown		<u> </u>					<u> </u>
							Orange				e to coarse SAND, some fine	SP	0.0	Dry
7									to coars	se gravel. No	o impact.			
8														
9														
						1								
10														
										End	d of boring: 10'			
11						1					-			
						1								
12						1								
						1								
13						1								
						1								
14						1								
- 14						1								
15						1								
10						ł								
40					-	-								
16						1								
<u> </u>						1								
17						4								
						4								
18						1								
19]								
20														
Commer	nts:	Perch	ed wat	er at ~	3'. 3' to	o 4', HCN	N:1				PROJECT NO.	11	17506	5
											BORING NO.	D	GP-12	2
II														

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-12	3
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR					Fenley a	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	0	2/11/08	3
						DIA.					DATE FINISHED:	0	2/11/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE		-			DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PEF	R 6"	RQD%	COLOR	HARD		DI	ESCRIPTION	USCS	PID	Moist
0		S-1	Macro			57"	Brown		0' to 2'.	MGP materi	al. ALM, SAND and GRAVEL.	Fill	0.0	Dry
		Ŭ.	core			• 0,			,		,			, í
1			COIE											
<u>'</u>						-								
						-								Wet
2						ł	Brown		2' to 2'	Modium da	nse, fine to medium SAND with	Fill	0.0	Moist
<u> </u>		1			ļ	ł	Brown		fine gra		ise, iiile to iiieuluiii SAND WITN	FIII	0.0	to Wet
3							n		· ·		D			
							Black			Stained MG L. Sheen, M	P impacted SAND and	Fill	40.0	Wet
4							 		1		GF 0001.			
							Dk. Brown		4' to 5',	Stiff SILT.		ML		Moist
5														
		S-2	Macro			52"	Dk. Brown		5' to 6',	Stiff SILT. N	o impact.	ML	0.0	Dry
6			core											
							Lt. Brown				to very coarse SAND and	GP/SP	0.0	Dry
7							/ Tan		fine to c	oarse GRA	/EL. No impact.			
8														
9						1								
						1								
10														
										Fno	d of boring: 10'			
11											. o. 20g. 10			
						-								
10						-								
12														
10						ł								
13					ļ	ł								
— —					ļ	ł								
14						1								
<u> </u>						-								
15														
16														
17														
18														
19]								
						1								
20						1								
Commer	nts:	Perch	ned wat	er at ~3	3'. 3' to	4' HCN	:1	1			PROJECT NO.	11	17506	5
		•									BORING NO.		GP-12	
													, I = 1	_
<u> </u>														

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-124	1
PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	117506	5
BORING	CONTRAC	CTOR	:				Fenley a	and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	0	2/11/08	3
						DIA.					DATE FINISHED:	0	2/11/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE					DE	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PEI		RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Macro			50"	Brown		0' to 2'.		ial. ALM, fine to medium	Fill	0.0	Moist
0		J-1	core			30	2.0			fine to coars			0.0	
1			core			-								
'						1								
						4								
2						4	Dualina		01 to 01	Cilt. CAND	aama fina ayayal	F:11	100.0	Majat
<u> </u>		1				4	Brown		≥ 10 3′,	OIILY SAND,	some fine gravel.	Fill	120.0	
3		1				4	<u>_</u> .		.					to Wet
<u> </u>		1				1	Black		3' to 4',	MGP impac	ted SAND and GRAVEL. IGP (purifier?) odor.	Fill	75.0	Wet
4							Stained				idr (purillei :) odor.			
							Dk. Brown		4' to 5',	Stiff, SILT.		ML	0.0	Dry
5							to Brown							
		S-2	Macro			48"	Brown		5' to 6',	Stiff, SILT.		ML	0.0	Dry
6			core						<u> </u>			1		
							Lt. Brown				e to coarse SAND, some fine	SP	0.0	Dry
7							/ Tan		gravel.	No impact.				
8														
						1								
9						1								
						1								
10						1								
										Fno	d of boring: 10'			
11						1					a o. oog o			
						-								
10						-								
12						1								
10						1								
13						-								
— —						ł								
14						4								
<u> </u>						-								
15														
<u> </u>						4								
16														
17]								
]								
18]								
]								
19														
						1								
20						1								
Commer	nts:	Perch	ned wat	er at ~:	3'.		1				PROJECT NO.	1.	117506	5
1	-	•									BORING NO.		GP-124	
		•												
!											1		1	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-125	5
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:	;				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	0	2/11/08	
						DIA.					DATE FINISHED:	0	2/11/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Connai	e
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD		DI	ESCRIPTION	uscs		Moist
0		S-1	Macro			50"	Black		0' to 2'.		al. ALM, concrete fragments,	Fill	0.0	Dry
Ů		0 .	core			- 00				ind GRAVEI				,
1			0010			1								
<u> </u>						1								
2						1								
						1			2' to 4'	MGP impac	ted SAND, GRAVEL, wood.	Fill	0.0	Wet
3						1				moderate M		''''	0.0	*****
3					ļ	ł			1				100.0	
<u> </u>						1							100.0	
4						1	Drown		4! += F!	Stiff, SILT		ML	0.0	D=++-
						4	Brown		4' 10 5',	Stiff, SILT		IVIL	0.0	Dry to
5							_							Moist
		S-2	Macro			48"	Brown		5' to 6',	Stiff, SILT.		ML	0.0	
6			core										 	
							Lt. Brown				to coarse SAND with some	SP	0.0	Dry
7							Orange		fine gra	vel. No MGF	impact.			
8														
9														
10														
										End	d of boring: 10'			
11														
						1								
12						1								
						1								
13						1								
						1								
14						1								
						1								
15						1								
						1								
16						1								
10						1								
17						ł								
17						ł								
10						1								
18						1								
						1								
19						1								
						1								
20											_			
Commer	nts:	Perch	ed wat	er at ~	3'. 3.5'	HCN:1				·	PROJECT NO.		17506	
Ī											BORING NO.	ח	GP-125	5
		•											GI 120	

PROJECT: KeySpan Hempstead MGP					U	RS (Corpo	ration				TEST BORING	LOG		
DOBRING CONTRACTOR:												BORING NO:	D	GP-126	3
BORING CONTRACTOR:	PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CAS. SAMPLE CORE TUBE TOTAL DEPTH: 10° logs	CLIENT:							KeySpan				JOB NO.:			
DATE TIME LEVEL TYPE Macrocore DATE STARTED: 02:11:08	BORING	CONTRAC	CTOR:					Fenley	and Nicol			DRILLING METHOD:	G	eoprobe	9
	GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
	DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	0	2/11/08	
SAMPLE							DIA.					DATE FINISHED:	0	2/11/08	
							WT.					DRILLER:		Brain	
SAMPLE DESCRIPTION							FALL					GEOLOGIST:	J. F	-larshm	an
DEPTH STRATA NO. TYPE PER 6" RGD% COLOR CONSIST DESCRIPTION USCS PID Moist							,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Connar	е
FEET STRATA No. TYPE PER 8" RODS, COLOR HARD DESCRIPTION USCS PID Moist				SAMP	LE					DES	SCRIPTION	<u>.</u>			
FEET STRATA No. TYPE PER 8" RODS, COLOR HARD DESCRIPTION USCS PID Moist	DEPTH					ows	REC		CONSIST			MATERIAL		REM	ARKS
S-1 Macro S-2 Black O'to 2', MGP material. ALM, SAND and GRAVEL. Fill 0.0 Dry		STRATA	NO.	TYPE				COLOR					uscs		
Core										0' to 2'.					
1			0 1				32			, ,				• • •	,
Brown 2' to 3', Compressed wood fragments/chips. Fill 100.0 Moist	1			core			-								
Brown 2° to 3', Compressed wood fragments/chips. Fill 100.0 Moist	-														
Brown 2° to 3', Compressed wood fragments/chips. Fill 100.0 Moist															
Strong odor, sheen. Strong odor, sheen.						-		Drown		0' +0 0'	Compresse	d wood fragments/shins	EIII	100.0	Moiet
Black Stained Dick Brown 4' to 5', Stiff, Sil.T. ML 0.0 Dry						-		DIOWII					FIII	100.0	WOIST
Stained Sheen, odor. ML 0.0 Dry	3							D					F	00.0	
S-2 Macro S-4" LL Brown Loose, fine to coarse SAND, some fine gravel. No SP 0.0 Dry												ted SAND and GRAVEL.	FIII	30.0	wet
S-2 Macro S-4 Lt. Brown Lose, fine to coarse SAND, some fine gravel. No SP 0.0 Dry	4														
S-2 Macro S4" Li. Brown Loose, fine to coarse SAND, some fine gravel. No SP 0.0 Dry								Dk. Brown		4' to 5',	Stiff, SILT.		ML	0.0	Dry
6 Core Corage Impact. Impact.	5														
0			S-2	Macro			54"				ine to coars	se SAND, some fine gravel. No	SP	0.0	Dry
8	6			core				/ Orange		impact.					
8															
9	7														
9															
10 End of boring: 10' 11	8														
10 End of boring: 10' 11															
End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.	9														
End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.															
End of boring: 10' 11 12 13 14 15 16 17 18 19 20 Comments: Perched water at ~3'.	10														
11											End	d of boring: 10'			
12	11						1					.			
13															
13	12														
14	12						-								
14	10						1								
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065	13						ł								
15 16 17 18 19 20 Comments: Perched water at ~3'. PROJECT NO. 11175065	14						ł								
16	14					ļ	ł								
16	1-						ł								
17	15														
17	<u> </u>														
19 20 Perched water at ~3'. PROJECT NO. 11175065	16						l								
19 20 Perched water at ~3'. PROJECT NO. 11175065	<u> </u>														
19 20 Perched water at ~3'. PROJECT NO. 11175065	17														
19 20 Perched water at ~3'. PROJECT NO. 11175065	<u> </u>														
20 Perched water at ~3'. PROJECT NO. 11175065	18														
20 Perched water at ~3'. PROJECT NO. 11175065															
Comments: Perched water at ~3'. PROJECT NO. 11175065	19														
Comments: Perched water at ~3'. PROJECT NO. 11175065															
	20								<u> </u>					L	
	Commer	nts:	Perch	ned wat	er at ~3	3'.						PROJECT NO.	1	117506	5
			•									BORING NO.			

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-127	7
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR	:				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:	0	2/11/08	3
						DIA.					DATE FINISHED:	0	2/11/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	Harshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE		_			DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
0		S-1	Macro			54"	Black		0' to 2'.		ial. ALM, coal fragments,	Fill	0.0	Dry
- Č		Ŭ.	core			1 .				and GRAVEI				,
1			COIC			1								
<u> </u>						-								
2		l				1								Wet
		1		 		1	Dk. Brown		2' to 3'	Clayey SILT		ML	0.0	Dry
3				-		ł	DK. DIOWII		٠٠٥,	Ciayey SIL I	•	IVIL	0.0	Diy
3						4	LA Durana		014- 51	l	t CAND 6	SP		D
<u> </u>				ļ		1	Lt. Brown / Orange			Loose, fine No impact.	to coarse SAND, some fine	52	0.0	Dry
4							Orange		gravon	nto impaot.				
5							_							
		S-2	Macro			50"	Lt. Brown			fine to coars	e SAND,some fine gravel. No	SP	0.0	Dry
6			core				/ Orange		impact.					
							/ Tan							
7														
						1								
8						1								
						1								
9						1								
						1								
10						1								
										End	d of boring: 10'			
11						1								
						1								
10						-								
12						1								
10				-		ł								
13				-	-	-								
.				<u> </u>	-	ł								
14						4								
<u> </u>						-								
15				L										
<u> </u>						4								
16														
17]								
]								
18]								
]								
19						1								
						1								
20						1								
Commer	nts:	Perch	ned wat	er at ~:	3'.		1				PROJECT NO.	11	17506	5
30		•									BORING NO.		GP-127	
		•											J. 161	
													1	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-128	3
PROJEC	CT:					KeySpa	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT						. r	KeySpan				JOB NO.:		17506	5
	CONTRAC	CTOR						and Nicol			DRILLING METHOD:		eoprob	
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:		2/12/08	
						DIA.		dor.ddd.re			DATE FINISHED:		2/12/08	
						WT.					DRILLER:		Brain	<u>'</u>
						FALL					GEOLOGIST:	1.1	Harshm	an
							DOCKET D	I ENETROMET	ED DE A	DING	REVIEWED BY:		Conna	
			04145				POCKETP	ENETHOWEI				r.	Conna	е
			SAMP						DE:	SCRIPTION		1		
DEPTH				BLO		REC		CONSIST			MATERIAL			IARKS
FEET	STRATA	NO.	TYPE	PEF	₹ 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID	Moist
0		S-1	Macro			52"	Brown				terial. Black ALM, coal	Fill		Moist
			core						tragmer brick.	its, Sand a	nd fine GRAVEL, trace red			to Dry
1									DIICK.					
2						1								
						1								
3						1			3' to 4'.	MGP impac	ted material. Compressed		77	
3						1	Brown				odor, trace black staining and		''	
4				-		1	וואטום		sheen.	· ·	-			
4						1	DI D		4' to 7'	Stiff SILT			- n	_
_						-	Dk. Brown		4 10 7 ,	JUII JIL I		ML	5.0	Dry
5							to Brown							
		S-2	Macro			54"	Dk. Brown						0.0	Moist
6			core				to Brown							to Dry
7														
							Orange	1	7' to 10'	, Loose, fine	e to very coarse SAND and	GP/SP	0.0	Dry
8						1			some fir	ne gravel. N	o impact.			
9						1								
						1								
10						1								
10										En	d of boring: 10'			
						1				LII	a or borning. To			
11						4								
						4								
12						4								
						4								
13]								
]								
14														
15						1								
						1								
16						1								
						1								
17						1								
17						1								
10						1								
18						4								
						4								
19]								
]								
20						L		<u></u>						
Commer	nts:	Perch	ned wat	er at ~3	3'. Fill	3' to 4' H	CN:2.				PROJECT NO.	1	17506	5
											BORING NO.	1	GP-128	
											DOMING NO.			

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-12	9
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	1	117506	5
BORING	CONTRAC	CTOR	:					and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:		2/12/08	
					-	DIA.		maor occirc			DATE FINISHED:		2/12/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	.1.1	Harshm	an
						_	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAMF	l F						SCRIPTION				
DEPTH			<u> </u>		ows	REC		CONSIST	T		MATERIAL	1	REN	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	_	Moist
0	JIIIAIA		Macro		1	56"	Brown	HAND	0' to 3'		terial. ALM coal fragments,	Fill	0.0	Moist
U		5-1				36	DIOWII				GRAVEL. Faint MGP odor.	''''	0.0	to Wet
			core			4				wet at 3', s			0.0	to wet
1													0.0	
2						1							0.0	
]								
3]	<u> </u>	<u></u>	<u>L</u>			<u> </u>	50.0	<u> </u>
							Dk. Brown		3' to 4',	SILT		ML	0.0	Moist
4						1	Brown							to Dry
						1	Orange		4' to 5',	Loose, fine	to coarse SAND, with some	SP	0.0	Dry
5						1			fine gra					
		S-2	Macro				Orange		Loose, 1	fine to coars	e SAND, some fine gravel. No	SP	0.0	Dry
6		0 =	core			1	/ Tan		impact.		, ,			′
			COIC			1								
7						-								
- /						4								
						4								
8														
9														
10														
										En	d of boring: 10'			
11						1								
						1								
12						1								
					-	1								
13						1								
13						1								
4.4					-	ł								
14						4								
L						-								
15						4								
16														
]								
17														
18						1								
						1								
19						1								
						1								
20					-	1								l '
		Drock	ned wat	or ot o	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		DDO IECT NO	1	117500	<u> </u>
Commer	ıts:	riecr	ieu wat	ા તા ડ							PROJECT NO.		117506	
-		•									BORING NO.	D	GP-12	9
											<u> </u>			

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-130)
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	1						KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	'PΕ	TYPE		Macrocore			DATE STARTED:	0	2/12/08	3
						DIA.					DATE FINISHED:	0	2/12/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE					DES	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Macro			52"	Black	1	0' to 3'.		terial. ALM, coal fragments,	Fill	0.0	Dry
-		Ŭ I	core			32					AVEL, clinker slag, trace			,
1			core			-					trace black staining at 3'. Jar			
- '				-					shake te	est revealed	a heavy sheen.			
		1				ł							20.0	
2		1		<u> </u>		4							20.0	
		l												
3		1		<u> </u>		l	DI 5		01 : ::	0::(: 0:: =				
		1					Dk. Brown		3' to 4',	Stiff SILT.		ML	0.0	Dry
4														
							Orange			Loose, fine	to coarse SAND and fine	SP	0.0	Dry
5									gravel.			<u> </u>	ļ	
		S-2	Macro			58"	Lt. Brown				coarse SAND and fine to	GP/SP	0.0	Dry
6			core				Orange		coarse (GRAVEL. N	o impact.			
7						1								
						1								
8						1								
						1								
9														
9						-								
10														
10										En	d of boring: 10'			
- 44										EIIC	a or borning. To			
11														
12				<u> </u>										
13														
]								
14]								
]								
15														
]								
16														
						1								
17						1								
						1								
18						1								
						1								
19						1								
13				-		1								
20				-	-	ł								
20		No =	orobod:	MO+C.	Λ+ O' '	ICN1-1	<u> </u>		l		DDO IFOT NO	<u> </u>	47500	
Commer	18:	ino be	erched	water.	ALZ F	IOIN. I					PROJECT NO.		117506	
 		•									BORING NO.	D	GP-130	J
<u> </u>											<u> </u>			

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-131	
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:		17506	
BORING	CONTRAC	CTOR:					Fenley	and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		5' bgs	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:	0	2/12/08	3
						DIA.					DATE FINISHED:	0	2/12/08	3
						WT.					DRILLER:		Brain	
						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	PEI	R 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Macro			48"	Black				terial. ALM, coal fragments,	Fill	0.0	
			core			1			clinker,	slag, SAND	and GRAVEL. Wet at 3'. Jar			
1						1			shake te	est revealed	no sheen.			
						1								
2						i								
						ł								
3						ł							0.0	Wet
3						ł	Dk. Brown		2' to 4'	Stiff SILT.		ML	0.0	Dry
						ł	DK. DIOWII		3 10 4,	SIIII SILT.		IVIL	0.0	Diy
4						ļ			41.4- 51	l £	t CAND fi t-	SP		D
						l	Orange		coarse		to coarse SAND, some fine to	5P	0.0	Dry
5							/ Brown		Coarse					
										En	d of boring: 5'			
6						ļ								
						l								
7														
						1								
8						1								
						1								
9						1								
						1								
10						1								
						1								
11						1								
						i								
12						ł								
 -					 									
13						1								
13					-	l								
1.4						1								
14						1								
1-														
15					<u> </u>									
<u> </u>														
16														
<u> </u>					<u> </u>									
17														
<u> </u>														
18														
19														
20														
Commer	nts:	Perch	ned wat	er at 3		-	-	-	•		PROJECT NO.	11	17506	5
		•									BORING NO.		GP-131	

				U	RS (Corpo	ration				TEST BORING	LOG		
											BORING NO:	D	GP-132	2
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:						and Nicol			DRILLING METHOD:	G	eoprob	Э
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		5' bgs	
DATE	TIME	LE	VEL	TY	'PE	TYPE		Macrocore			DATE STARTED:		2/12/08	}
						DIA.					DATE FINISHED:		2/12/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	Harshm	an
						_	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:		Conna	
			SAME	l F						SCRIPTION				_
DEPTH			<u> </u>	_	ows	REC		CONSIST	T		MATERIAL		BEN	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
	JIIIAIA		Macro		1	52"	Black	HALL	0' to 3'		terial. Black ALM, coal, SAND	Fill	7.7	Dry
0		5-1				52	Diack				hake test revealed a sheen.	''''	7.7	Diy
.			core											
1														
2														
3														
							Dk. Brown		3' to 4',	Stiff SILT.		ML	0.0	Dry
4														
							Orange		4' to 5',	Loose, fine	to coarse SAND, some fine	SP	0.0	Dry
5						1	_		gravel.					-
										Fn	d of boring: 5'			
6											a or 20g. o			
- 0														
<u> </u>														
7														
8														
9														
10														
11						1								
12														
						1								
13					 	1								
					 	ł								
14						1								
14						ł								
-					-	1								
15						l								
<u> </u>					<u> </u>									
16														
17														
18						1								
						1								
19						1								
					 	1								
20						1								
<u> </u>	oto:	No po	rched s	water	lar eh	aka taet	equaled shee	l an	I		DDO JECT NO	<u> </u>	117500	<u> </u>
Commer	แระ	i vo pe	, oneu	valei.	oai Sil	unt Itsl	cquaicu silet	υII.			PROJECT NO.		117506	
<u> </u>		•									BORING NO.	l D	GP-132	
<u> </u>											<u> </u>			

							ration							
CLIENT: BORING GROUNI											BORING NO:	D	GP-133	
BORING GROUNI						KeySpa	an Hempstea	d MGP			LOCATION:	,	Area E	
GROUNI							KeySpan				JOB NO.:	11	175065	5
	CONTRAC	CTOR:					Fenley a	and Nicol			DRILLING METHOD:	G	eoprobe)
DATE	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:	1	0' bgs	
	TIME	LE	VEL	TYI	PE	TYPE		Macrocore			DATE STARTED:	0:	2/12/08	
						DIA.					DATE FINISHED:	0:	2/12/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshma	an
						*	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Connar	е
			SAMP	LE					DES	SCRIPTION				
DEPTH				BLO	ws	REC		CONSIST			MATERIAL		REM	ARKS
FEET	STRATA	NO.	TYPE	PER	₹6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Macro			48"	Black				naterial. ALM, slag, coal,	Fill	0.0	
			core						SAND a	ind GRAVEI	L. Wet at 3', sheen, faint odor.			
1														
2													0.0	
3													10.0	wet
4														
5							Blk/Brown		4.5' to 5	', SILT		ML	10.0	Moist
		S-2	Macro			54"	Olive		5' to 7',	Medium stif	f to soft, SILT. Faint MGP	ML	7.0	Moist
6			core						odor.					
7													3.0	
							Red /		7' to 10'	, Loose, fine	e to coarse SAND, some fine	SP	0.0	Moist
8							Orange /		to coars	e gravel. No	o impact.			to Dry
							Brown							
9														
10														
										End	d of boring: 10'			
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
Commen	nts:	Perch	ed wate	er at 3'.	. Jar s	hake tes	t equaled she	een. At 3' HCl	V:2		PROJECT NO.	11	175065	5
35		•									BORING NO.		GP-133	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-13	1
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR:	:				Fenley a	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUNI	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		5' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	0	2/12/08	3
						DIA.					DATE FINISHED:	0	2/12/08	3
						WT.					DRILLER:		Brain	
						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	PEI	R 6"	RQD%	COLOR	HARD		D	ESCRIPTION	USCS	PID	Moist
0		S-1	Macro				Black		0' to 2',	MGP fill ma	terial. Black ALM, coal. Jar	Fill	0.0	Dry
			core			1			shake te	est revealed	I no sheen.			
1						1								
						1								
2														
-	,,,,,,,,,,,			-		1	Dk. Brown		2' to 4',	SILT		ML	0.0	Moist
3				-		1	Brown		,				0.0	to Dry
3				-		1								,
				-		1								
4						-	Orongo		4' to E'	Loona fina	to coarse SAND, some fine to	SP	0.0	Dny
						-	Orange		coarse		to coarse SAND, some line to	SF	0.0	Dry
5									, ,					
						4				En	d of boring: 5'			
6														
7														
8														
9														
10														
						1								
11						1								
12														
						1								
13						1								
						1								
14						1								
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17				-		1								
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18						1								
18				<u> </u>		ł								
10						ł								
19				<u> </u>		4								
				<u> </u>		1								
20				<u></u>	Ļ.,	alea i d		h			I		<u> </u>	
Commer	nts:	No pe	erched v	water.	Jar sh	ake test	equaled no s	ineen.			PROJECT NO.		17506	
 											BORING NO.	D	GP-13	1
<u> </u>											<u> </u>			

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-13	5
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	11	17506	5
BORING	CONTRAC	CTOR	:				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	0	2/12/08	3
						DIA.					DATE FINISHED:	0	2/12/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						,	POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAME	LE					DE	SCRIPTION				
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
0		S-1	Macro			50"	Black		0' to 2'.		terial. Black ALM, coal. Jar	Fill	0.0	Dry
		Ŭ I	core			- 50				est revealed				,
1			core			-								
						-								
_		1		<u> </u>		ł								
2]]]]]]]]]	1		-	-	-	Dk Brown		2' to 4'	SII T		ML	0.0	Dry
					-	-	to Brown		٤ ١٠ 4 ,	OIL I.		IVIL	0.0	ыу
3							to promi							
 		1		<u> </u>		4								
4									ļ					ļ <u>.</u>
									4' to 5', coarse		to coarse SAND, some fine to	SP	0.0	Dry
5									1					
		S-2	Macro			48"	Orange			fine to coars	e SAND, some fine gravel. No	SP	0.0	Dry
6			core				/ Tan		impact.					
7														
						1								
8						1								
9						1								
						1								
10						1								
										End	d of boring: 10'			
11											.			
						1								
12						1								
14				-		1								
13				-		1								
13				<u> </u>		ł								
14				<u> </u>		ł								
14				.		1								
1-				-	-	-								
15						-								
<u> </u>						1								
16				<u> </u>										
<u> </u>				<u> </u>										
17														
18														
]								
19														
						1								
20						1								
Commer	nts:	No pe	erched	water.	Jar sh	ake test	equaled no s	heen.			PROJECT NO.	11	17506	5
	-										BORING NO.		GP-13	
		•												
<u> </u>											1	1	i .	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-136	6
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:							KeySpan				JOB NO.:	1	117506	5
BORING	CONTRAC	CTOR:						and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		5' bgs	
DATE	TIME	LE	VEL	TY	PΕ	TYPE		Macrocore			DATE STARTED:		2/12/08	}
						DIA.					DATE FINISHED:		2/12/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. F	larshm	an
						*	POCKET P	ENETROMET	ER REAL	DING	REVIEWED BY:	K.	Conna	re
			SAMP	LE		•			DES	SCRIPTION	•			
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REN	IARKS
FEET	STRATA	NO.	TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS		Moist
0		S-1	Macro			48"	Black		0' to 3',		terial. Black ALM, coal, sand,	Fill	0.0	
			core			1					est revealed sheen.			
1			0010											
2						1								
- -						1								
3						1								
						1	Dk. Brown		3' to 5',	SILT		ML	0.0	Dry
4						1	to Brown]					
-														
5						1								
										En	nd of boring: 5'			
-						-				LII	id of borning. 5			
6						-								
						1								
7						1								
8						-								
0						-								
9														
9						-								
10														
10						1								
11														
						1								
12						1								
						1								
13						1								
						1								
14						1								
						1								
15						1								
						1								
16						1								
						1								
17						1								
						1								
18														
19						1								
]								
20						1								
Commer	nts:	Perch	ed wat	er at 3'	'. Jar s	hake tes	t equaled sh	een.			PROJECT NO.	1	117506	5
											BORING NO.		GP-136	

				U	RS (Corpo	oration				TEST BORING	LOG		
											BORING NO:	D	GP-13	7
PROJEC	CT:					KeySp	an Hempstea	ad MGP			LOCATION:		Area E	
CLIENT:	:						KeySpan				JOB NO.:	11	117506	5
BORING	CONTRAC	CTOR	:				Fenley	and Nicol			DRILLING METHOD:	G	eoprob	е
GROUN	DWATER:						CAS.	SAMPLER	CORE	TUBE	TOTAL DEPTH:		10' bgs	
DATE	TIME	LE	VEL	TY	PE	TYPE		Macrocore			DATE STARTED:	0	2/12/08	3
						DIA.					DATE FINISHED:	0	2/12/08	3
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	J. l	Harshm	an
						,	* POCKET P	ENETROMET	ER REA	DING	REVIEWED BY:	K.	Conna	re
			SAMF	LE					DES	SCRIPTION	•			
DEPTH				BLC	ows	REC		CONSIST			MATERIAL		REM	IARKS
FEET	STRATA	NO.	TYPE	PEI	R 6"	RQD%	COLOR	HARD			ESCRIPTION	uscs		Moist
0			Macro			50"	Black		0' to 3'.		terial. Black ALM and coal,	Fill	0.0	Dry to
- Ŭ		0 .	core			- 00					L. Jar shake test revealed no			Moist
1			COIC			-			sheen.					
						1								
						-								
2						-								
						-								
3						_	DI. D.		01 +- 41	OUT		N 41	0.0	D
	!					4	Dk. Brown		3' to 4',	OIL I		ML	0.0	Dry
4						4	<u></u>		<u> </u>			SP		ļ <u>.</u>
						4	Orange		4' to 5',	Loose, fine	to coarse SAND, fine gravel.	SP	0.0	Dry
5							_							_
		S-2	Macro			_	Orange			fine to coars	se SAND, some fine gravel. No	SP	0.0	Dry
6			core				/ Brown		impact.					
						J								
7														
						1								
8	1					1								
9	•					1								
						1								
10	•					1								
										End	d of boring: 10'			
11	1					1					, .			
						-								
12						1								
16						-								
13	1					-								
13	4			-		-								
1.4	-			-		-								
14	4			-		-								
					-	-								
15						-								
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16						1								
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20														
	nts:	No pe	erched	water.	Jar sh	ake test	equaled no s	sheen.			PROJECT NO.	1	117506	5
20 Commer	nts:	No pe	erched	water.	Jar sh	ake test	equaled no s	sheen.			PROJECT NO. BORING NO.		117506 GP-13	

URS Corporation											TEST BORING LOG			
,											BORING NO: DGP-138			
PROJEC	T:					KeySp	an Hempstea	ad MGP			LOCATION:	Area E		
CLIENT:							KeySpan				JOB NO.:	11175065		
											DRILLING METHOD: Geoprobe			
GROUNDWATER: CAS. SAMPLER CORE TUBE											TOTAL DEPTH: 5' bgs			
DATE		TIME LEVEL			TYPE			Macrocore			DATE STARTED:		2/12/08	1
DAIL	111112				-	TYPE DIA.		Madrocord			DATE FINISHED:		2/12/08	
						WT.					DRILLER:		Brain	
						FALL					GEOLOGIST:	1.6	Harshm	an
							POCKET P	I ENETROMET	FR RFA	DING	REVIEWED BY:		Conna	
			SAMP	LE			I		DESCRIPTION					
DEPTH			JAMI		ows	REC	CONSIST				MATERIAL		DEM	IARKS
FEET	STRATA	NO.	IO. TYPE		R 6"	RQD%	COLOR	HARD			ESCRIPTION	USCS	PID Moist	
	SINAIA				1		Black	HAND	0' to 2'		terial. Black ALM and coal. Jar	Fill	0.0	Dry
0		S-1	Macro			50"	Diack			est revealed		1 111	0.0	Diy
			core			l			onano n	JOT 10 10 4.0 4.				
1						l								
						ļ								
2														
3														
							Brown		3' to 4' 5	Stiff SILT.		ML	0.0	Dry
4						1								
						1	Orange	1	4' to 5',	Loose fine t	o coarse SAND, some fine	SP	0.0	Dry
5						1			gravel.					
									End of boring: 5'					
6						1					· ·			
						ł								
7						ł								
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20														
Comments: No perched water. Jar shake test equaled no sheen. PROJECT NO.											PROJECT NO.	11175065		
										BORING NO.	D	GP-138	3	
														·