

# APPENDIX B EXPLORATORY HOLE RECORDS



									,						
Contract:				3.4	-			Client:					Boreh	ole:	
		Ponc	Site,							Weston I		<i>2</i> 6	4		BH1
Contract Re				Start:			Groun	d Level:		Co-ordina	tes:		Sheet:		
	272	265		End:	29.0	7.14						×		1	of <b>1</b>
Sam	ples a	and In-si	tu Tests		Water	<b>■</b>						1			Material
Depth	No	F 2 2	Res	ults	M Wa	Backfill		8 1	-	Description		> 4		(Thick ness)	Graphic Legend
- 0.50 - 0.60-1.30	1 1 2	D B					flint fragr ∖to su	and sand ments. Sa ıb-rounde	stone with and if fine d.	n occasiona to coarse a	I cobble sind gravel is	andy GRAVE zed concrete s fine to coar	and brick se angular /	(0.50) - 0.50	
- 1.40	2	D					cobb	le sized o	concrete f	ragments. S	and is fine	CLAY with to coarse an acrete flint an	d gravel is	(1.70)	
1.50-1.88	1	SPT(c)	,28/9,	41,49 5mm						4,				-	$\bowtie$
1.50-2.00	3	В	101 7	Jillill					21			9		2.20	
						******	· BH te	erminated	due to co	oncrete obst	ruction			- 2.20	XXXX
		2										, ,			a E
					-		i a		e e		• ,	tye n	F 2 0		-
		e e			15 14 15		*			8 2		z v			· .

	Boring Pro	ogress and	Water Ob	servations	3	Chisell	ing / Slow F	rogress	Caracral	Damanda	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks	
29/07/1	4	2.20	2,20	(mm) 200	Dry				Location cleared by GPR survey.     Borehole drilled with 200mm dian     No groundwater encountered.	neter tools.	
		-							All dimensions in metres	Scale: 1:50	-
Method Used:	1.000,000			o 2000 N		Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By:	AGS	

GINT LIBRARY V8 05.GLB LibVersion: v8\_05 - Lib0004 PrjVersion: v8\_05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd, 18 Frogmore Road, Hempletead, Herfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437550, Web: www.rsk.co.uk.



							DOIN		American Maria	.00
Contract:			20			Client:		Boreh		5 III. 8
=		Pond	Site, Da				Weston Homes			BH1A
Contract R		-		: 30.0		Ground Level:	Co-ordinates:	Sheet		
	272			30.0		neg sed cea	Sung and last		_1_	of 3
San	nples a	and In-si	tu Tests	Water	Backfill & Instru-		Description of Strata		Depth (Thick	
Depth	No	Туре	Results	3	Bac Ins				ness)	Legend
0.00-0.40	1	В			经路	MADE GROUND: Gre	y slightly silty slightly sandy concrete. Sand is fine to coarse		E	$\bowtie$
0.50	. 1	D		-		fine to coarse angular to	sub-rounded concrete brick ar	nd flint.	0.50	
0.60-1.30	2	В				MADE GROUND: Dark fine to coarse and grave	greyish brown sandy gravelly el is fine to coarse angular to su	CLAY. Sand is ub-rounded flint	E	
Ē						brick and chalk.			E	
1.40	2	D				N		,	(2.00)	
1.50-1.95	1 3	SPT(c)	N=43	à		·		*	Ė,	
1.50-2.00	J		·						F	
-				ľ		,	90 5		2.50	
2.50	3 2	D SPT(c)	N=34				se initially orangic brown sandy		-	0.0.8
2.60-3.05 2.60-3.10	4	B	N-34			flint and sand is predom	<ul> <li>Gravel is fine to coarse anguinantly coarse.</li> </ul>	ular to rounded	Ē.	0.0.0
Ē						(BOYN HILL GRAVEL)			-	0.00
3.40 3.50-3.95	4 3	D SPT(c)	N=29				, , , , , , , , , , , , , , , , , , ,		-	0.0.0
3.50-4.00	5	B	· N-29	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					Ē	0.000
4.00	1	W							E	0.0
4.40	5	D		1					F	0.00
4.50-4.95 4.50-5.00	4 6	SPT(c) B	N=76						F	5.0.0
F						9	,5		F	0 0 F
5.40	6	D	Carl						E	0.0.0
5.50-5.95	5 7	SPT(c)	N=32	· a		9 9			E	0.00
5.50-6.00	'	В.							Ŀ	0.00
E	383						2 (2)		Ė	0.0
- 6.40 - 6.50-6.95	7 6	D SPT(c)	N=39						Ė	0.00
6.50-7.00	8	B`				•			E	0.0
E						below 7.00m increa	se in sand content		Ė	0.0.0
7.40	. 8	D							Ė	0.00
7.50-7.95 7.50-8.00	7 9	SPT(c) B	N=41						-	0.00
		10					z z		E	0.0.0
									Ė.	000
Ē									ŧ	0.00
-8.90	9	D D	N-20	G .					-	j.0.0
9.00-9.45	8 10	SPT(c) B	N=39			•			Ė	0.00
Ē									Ē	0.0.0
<u> </u>						•	5		F	0.00

iei Lei	E	Boring Pro	gress and	Water	r Obse	ervations		Chisel	ling / Slow l	Progress	General I	Domarka	
a, ner	Date	Time	Borehole	Casir	''9   c	Borehole Diameter	Water	From	То	Duration (hh:mm)	Generali	Temarks	
You			Depth	Dept	-	(mm)	Depth			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<ol> <li>Location cleared by GPR survey.</li> </ol>	D. Alexandra (Ph. 197)	
စ	29/07/14		4.50	4.40	200	200	4.50	H	1		<ol> <li>Borehole drilled with 200mm diam</li> <li>Water added between 2.5m to 19.</li> </ol>		
E C	29/07/14		14.00	14.0	00	200					4. Groundwater strike at 4.5m, rising		econd
ĕ	30/07/14		19.50	19.5	50	150					strike at 21.5m. 5. Upon completion 50mm stand pipe	e installed to 19m.	
o o	30/07/14		21.50	21.5	50	150							
nent Ltu,		89							6				
/Ironr											All dimensions in metres	Scale: 1:56	
Ē	Method			F	Plant				Drilled		Logged	Checked	
۲ñ	Used:	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )							Ву:	SH	By: GBurgin	Ву:	AGS

GINT LIBRARY V8 05.GLB LibVersion: v8 .05 - Lib0004 PrjVersion: v8 .05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD GPJ - v8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Web: www.rsk.co.uk.



Contract:	- 41		2			Client: Borel	ole:	
		Pone	d Site, Dar			Weston Homes		BH1A
Contract Re		205	1	30.0		Ground Level: Co-ordinates: Sheet		
	2/2	265	End:	30.0		10 M	2	of <b>3</b>
Sam	ples	and In-s	itu Tests	Water	Backfill & Instru-	Description of Strata		Materia Graphic
Depth	No	Туре	Results	3	Bacl Ins men		(Thick ness)	
10.40 10.50-10.95 10.50-11.00	10 9 11	D SPT(c) B	N=55			Dense locally very dense initially orangic brown sandy GRAVEL with occasional flint cobbles. Gravel is fine to coarse angular to rounded flint and sand is predominantly coarse.  (BOYN HILL GRAVEL)  (stratum copied from 2.50m from previous sheet)  below 10.00m very dense	(17.00)	0.0.0.0
- 12.00 · - 12.10-12.55 - 12.10-12.60		D SPT(c) B	N=53					0.000.000
- 13.40 - 13.50-13.95 - 13.50-14.00	12 11 13	D SPT(c) B	N=54			at 13.50m grading to very sandy gravel with occasional flint cobbles		0.0000000000000000000000000000000000000
-14.90 15.00-15.45 15.00-15.50	13 12 14	D SPT(c) B	N=51					0.0.0.0000
16.40 16.50-16.95		D SPT(c)	N=56	4				000000
16.50-17.00	15	В		000000000000000000000000000000000000000				00.00.00
-17.90 18.00-18.38	15 14	D SPT(c)	,26/31,39,50 for 75mm			at 18.00m a band of flint	-	0.0.0
18.00-18.50	16	В	and the second s					0.00
19.00-19.45	15	SPT(c)	N=17	•			- 19.50	0.0.0
19.50 19.60-20.10	16 17	D B				Description on next sheet	-	h h

•	Boring Pr	ogress and	Water Ob	servations	and an	Chisel	ling / Slow F	rogress	Conoral	Damadia	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water . Depth	From	То	Duration (hh:mm)	General	Remarks	
									-		
									-		
			v.						All dimensions in metres	Scale: 1:56	
Method Used:	The same of the sa			2000 N	lark2	Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By:	AGS	

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0	-			ä		_	-	Tollar.								Daraha	alar	
Contract:	Mill	Pond	Site	Dart	ford			Client:		We	ston	Hom	es			Boreho		3H1A
Contract Re		1 0110	0110	Start:			Grour	I nd Level:	1		o-ordin					Sheet:		
l	272	65	1.	End:			Y	800 MIL N	٠,		-	0			-		3	of <b>3</b>
Samp	les a	nd In-si	tu Tests	 S	ē	tion tion								ii .				Material
Depth	No			sults	Water	Backfill & Instru- mentation	2					on of St		8			(Thick ness)	Graphic Legend
-20.90 21.00-21.45 21.00-21.50 -21.50	17 16 18 2	D SPT(c) B W	N=	=16			GRA Grav sub- (WI-	overed AVEL wi vel is w rounded IITE CH.	th occas white we I. Matrix ALK SU	sional f ak me is off v BGRO	ine to edium of the control of the c	coarse density	sub-ang fine to	ular to	angula	ar flint.	(2.00)	
				N 0	0						5	n and medi	e e					
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1	Boring Pro	gress and	Water Ob	servations	3	Chisel	ling / Slow F	Progress	Conoral	Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General		
									All dimensions in metres	Scale: 1:56	
Method		ll	Plan	t		II .	Drilled		Logged	Checked	
Used:						lark2	Ву:	SH	By: <b>GBurgin</b>	Ву:	AGS

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Contract:	2		1					Client	:					Boreh	ole:	
		Pond	Site	·						M	leston Ho					BH2
Contract Re				i	30.0		Groun	d Leve	l:		Co-ordinates:			Sheet		
	272	265		End:	30.0	7.14			tia .			10 10 10			1	of 1
Sam	ples a	and In-si	itu Test	s	Water	Backfill	6			-		o			Depth	
Depth	No	Туре	Re	sults	×	Bac					Description of	Strata			(Thick ness)	Graphic Legend
0.00-0.40	1	В					size	d concr	ete frad	ments	slightly sandy s. Sand is fine and brick.	gravel v to coarse	vith frequer and gravel	nt cobble is fine to	0.50	
0.50 0.60-1.30	1 2	D B		€° a	>		MAD fine	E GRO	OUND:	Dark	brown sandy is fine to coar	gravelly se angula	SILT/CLAY. r to sub-rou	Sand is inded flint	-	
1.40 1.50-1.95 1.50-2.00	2 1 3	D SPT(c) B	N	I=7						ж				ai s	(2.60)	
- 2.40 - 2.50-2.95 - 2.50-3.00	3 2 4	D SPT(c) B	N=	=81			 cobb	below les and	2.5m b l organio	ecom	ig mottled bla silt and clay	ck sandy	gravel with	frequent	3.10	
							BH te	erminat	ed due	to con	crete obstructi	on			5.10	
						pre-										
					1				4		ř					
							æ					2.0	n a		-	
												98				
		.15%						ä			ě					
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	Boring Pro	ogress and	Water Ob	servations	3	Chisel	ling / Slow F	Progress	0	D	
Date	Time	Borehole Depth	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
30/07/14		3.10	3.00	(mm) 200	Depth				1. Location cleared by GPR survey.     2. Borehole drilled with 200mm diameter tools.     3. No groundwater encountered.  All dimensions in metres Scale: 1-56		
									All dimensions in metres	Scale: 1:56	
Method Used:				: I: Dande	o 2000 M	lark2	Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By:	AGS

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Contract:		5			Client: Bore	hole:
	VIII	Pond	Site, Dar	tford	Weston Homes	BH2A
Contract Ref		TOTIC		31.07.14	Ground Level: Co-ordinates: Shee	
	272	65		31.07.14		<b>1</b> of <b>3</b>
			tu Tests			Depth Material
Depth		Туре	Results	Water Backfill & Instru-	Description of Strata	(Thick Graphic ness) Legend
				Wat	Description of Strata	(Thick Graphic Legend
-8.90 9.00-9.45 9.00-9.50	6 5 5	D SPT(c) B	N=30			

	1	Boring Pro	gress and	Water	r Obse	ervations		Chisell	ing / Slow F	rogress	Conoral I	Domorko	
	Date	Time	Borehole	Casir		Borehole Diameter	Water	From	То .	Duration (blueses)	General I	Remarks	(4)
ś	Date	111110	Depth	Dept		(mm)	Depth	110111	10	(hh:mm)	Location cleared by GPR survey.		
; [	31/07/14		20.20	20.2	20	200					Borehole drilled with 200mm diam     Water added between 6m to 20.2		
	31/07/14	/07/14 22.00			00	150					4. Groundwater strike masked by the	addition of water. Sec	ond strike at
2		22.00									<ol> <li>Upon completion 50mm stand pipe</li> </ol>	e installed to 20m.	
2													
1	I												
											All dimensions in metres	Scale: 1:56	i
i	Method			F	Plant				Drilled	· · · · · · · · · · · · · · · · · · ·	Logged	Checked	
	Jsed: Cable percussio			n L	Jsed:	Dande	2000 M	lark2	Ву:	SH	By: <b>GBurgin</b>	Ву:	AGS

GINT\_LIBRARY V8 05.GLB Lib/ersion: V8. 05 - Lib0004 PrjVersion: V8. 05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - V8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk.



Contract:	*1				- 31	Client:		20 24 0 2	21		Boreho	ole:	
	Mil	l Pon	d Site, Dar	tford	100		,	Weston I	lomes		0		BH2A
Contract Re	ef:		Start:	31.07.14	Groun	d Level:		Co-ordinat	es:		Sheet:	-	
	272	265	End:	31.07.14		60 M 50						2	of <b>3</b>
Sam	ples	and In-s	itu Tests	Water ackfill & Instru-			e n	21					Materia
Depth	No	Туре	Results	Water Backfill & Instru-		1 , 8		Description				(Thick ness)	Graphic Legend
10.40 10.50-10.95 10.50-11.00	7 6 6	D SPT(c) B	N=48		occa flint a (BO)	sional flin and sand i /N HILL G	t cobbles is predom RAVEL)	. Gravel is finantly coars	angic brown ine to coarse e. vious sheet)	sandy GRA angular to	AVEL with prounded		
- - - 12.00 - 12.10-12.55 - 12.10-12.60	8 7 7	D SPT(c) B	N=43			rom 12.1ı	n to 12.6r	n increased	sand content	a 0	1 =	(16.70)	000000
					0 0 0 0 0 0 0 0	185 <b>x</b> i	ž.	c .					0.0.0
- 13.40 - 13.50-13.95 - 13.50-14.00 -	9 8 8	D SPT(c) B	N=31			7 a			, *				
-14.90 15.00-15.45 15.00-15.50	10 9 9	D SPT(c) B	N=61										
16.40 16.50-16.95 16.50-17.00	11 10 10	D SPT(c) B	N=47										
-17.90 18.00-18.45 18.00-18.20	12 11 11	D SPT(c) B	N=42										
19.40 19.50-19.80	13 12	D SPT(c)	,41/47,59 for 75mm				ii	r u					0.0.0

	Boring Pro	ogress and	Water Ob	servations	-	Chisell	ing / Slow I	Progress	Canaral	Domorko
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
								1		
									-	
				-						
			e 5						All dimensions in metres	1100
Method Used:	Cable p	ercussio	Plant Used	B .	2000 M		Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By: AG

GINT LIBRARY V8\_05.GLB LibVersion: v8\_05 - Lib0004 PrjVersion: v8\_05 - Care+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd. 18 Frogmore Road, Hemel Hempstead, Herifordshire, HP3 9RT. Tel: 01442 437560, Fax: 01442 437550, Web: www.rsk.co.uk.



Contract:					-	9 ,	Client:	and the second s	•	* *				Boreho	ole:	
A SERVICE OF ST.	Will	Pond	Site, Dar	tforc			in tennential in	V	/estc	n Hon	nes					вн2А
Contract Re		55		31.0		Grour	d Level:	8	Co-ord	dinates:				Sheet:		
3	272	65	End:	31.0	7.14		NOS AND CHO		.64		100 mt mt				3	of <b>3</b>
Samp Depth	les a		tu Tests Results	Water	Backfill & Instru-mentation		,	. [	Descrip	otion of S	trata	0.	8		(Thick	Material Graphic Legend
- 19.50-20.00	12	В	Results	+-	B E									15	ness)	t O O
20.20 20.30-20.75 20.30-20.80 20.30-20.80	14 13 13 13	D SPT(c) B	N=18 N=14			GRA Grav sub-	VEL with el is wh rounded.	s: Structu occasiona ite weak Matrix is of LK SUBGR	I fine t nediun f white.	o coarse n density	sub-ang	gular to	angula	ar flint.	(1.80)	
21.50-22.00	14	В							20				80		22.00	11 11
22.00	2	W		-											-	
			e	- 16	ž.											
			w ***		э		8									
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	Boring Pro	ogress and	Water Ob	servations	;	Chisel	ling / Slow I	Progress	Conoral	Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
				, ,						
is.									v	
									A.II. II	0
									All dimensions in metres	A CONTRACTOR OF THE CONTRACTOR
Method Used:	Cable r	ercussio	Plan Use		o 2000 N	lark2	Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By: AGS

GINT\_LIBRARY V8 05.GLB LibVersion: v8 05 - Lib0004 PriVersion: v8 05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.ulk.



Contract:	-				9			Client:		-			6 7.5	Borel	nole:	# W
		Pond	d Site, I								n Home	S				ВН3
Contract Re			× 1		01.08.		Grour	nd Level:		Co-ordi	nates:			Shee	t:	
	272	265	E	End:	01.08.		T :	nd erne	6)						1	of <b>2</b>
Sam	ples a	and In-s	itu Tests		Water ackfill &	Instru- mentation				Dogorint	ion of Stra	.10			Depth	
Depth	No	Туре	Resu	lts	] ] [					Descript	1011 01 3118	ııa			(Thick ness)	Legend
- 0.00-0.50 - 0.50 - 0.60-1.30	1 1 2	B D B	15	i	Ž			DE GROU to coarse a k and conc	and grav	el is fine t	o coarse a	ngular to	Г/CLAY. sub-rou	Sand is Inded flint		
- 1.40 - 1.50-1.95 - 1.50-2.00	2 1 3	D SPT(c) B	N=16	Š			3X		5						(4.40)	
2.40 2.50-2.95 2.50-3.00	3 2 4	D SPT(c) B	N=13	3				9 0								
3.40 3.50-3.95 3.50-4.00 - 4.10	4 3 5	D SPT(c) B	N=7	*	<u></u>		rich:	from 3.5m silts and cl ments also	ays. Som	ng mottled ne fine to i	d black sar medium ar	nd and gr igular to s	avel wit ub-angu	h organic ular chalk		
- 4.40 - 4.50-4.95 - 4.50-5.00	5 4 6	D SPT(c) B	N=26	i.			sand	ally mediun ty GRAVEI ular to roun YN HILL G	L with oc ded flint	casional f	lint cobble	s. Gravel	is fine	own very to coarse	4.40	
-5.90 6.00-6.45 6.00-6.50	6 5 7	D SPT(c) B	N=34							*		W H Y	r v			
7.40 7.50-7.95 7.50-8.00	7 6 8	D SPT(c) B	N=23	-				e e		*		as I				
9.00 9.10-9.55 9.10-9.60	8 7 9	D SPT(c) B	N=34				2	,						e u	(11.20)	

	Boring Pro	gress and	Water Ob	servations	3	Chisel	ling / Slow F	Progress	Canagal	Damandra				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks				
01/08/14 01/08/14 01/08/14		4.40 4.50 15.60	4.00 4.50 15.60	(mm) 200 200 150	4.40			(**************************************	Location cleared by GPR survey     Borehole drilled with 200mm dia     Water added between 4.4m to 1.     Groundwater strike at 4.4m, risin     Upon completion 50mm stand pi	meter tools. 5.6m to facilitate drilling. g to 4.0m in 30 minutes.				
	2				-									
									All dimensions in metres	1.00				
Method Used:	Cable p	ercussio	Plant Used		o 2000 M	ark2	Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By: AGS				

GINT LIBRARY V8\_05.GLB LibVersion: v8\_05 - Lib0004 PhyVersion: v8\_05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd. 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437550, Web: www.rsk.co.ulk.



							DOIL		and diver	
Contract:	7					Client:	,	Boreho	ole:	AST WAY
	Will	Pond	Site, Da		100 to		Weston Homes	1.		BH3
Contract Re	f:		Sta	rt: <b>01.</b> 0	8.14	Ground Level:	Co-ordinates:	Sheet:		
	272	65	End	1: 01.0	8.14	-	10 MM		2	of <b>2</b>
Samp	oles a	and In-si	tu Tests	ter	TII &				Depth	Material
Depth	No	Туре	Results	Water	Backfill & Instru-		Description of Strata		(Thick ness)	Graphic Legend
10.40 10.50-10.95 10.50-11.00	9 8 10	D SPT(c) B	N=24	, M		Initially medium dense sandy GRAVEL with oc angular to rounded flint (BOYN HILL GRAVEL)	becoming dense initially oran casional flint cobbles. Gravel i and sand is medium to coarse.	s fine to coarse	-	
- 12.00 - 12.10-12.55 - 12.10-12.60	10 9 11	D SPT(c) B	N=40			… below 12.00m sand	content deceases			
13.40 13.50-13.95 13.50-14.00	11 10 12	D SPT(c) B	N=30	8						
15.00 15.10-15.55 15.10-15.60	12 11 13	D SPT(c) B	N=33	·				4 2 4	15.60	0.000

	Boring Pr	ogress and	Water Ob	servations	3	Chise	ling / Slow F	Progress	General	Domarl	10	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Neman	/2	
		Борит	Борит	(11111)	Борин							
									All dimensions in metres	Scale:	1:56	
Method Used:		ercussic	Plar Use		o 2000 N	lark2	Drilled By:	SH	Logged By: <b>GBurgin</b>	Checked By:		AGS

GINT LIBRARY V8 05.GLB LibVersion: v8 05 - Lib0004 PrjVersion: v8 05 - Core+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8 05 | 10/10/14 - 15:35 | CB. RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk.



Contract:	-						Client:	With the state of		Boreho	امار	-
Contract.	Mill	Pond	l Site, Dar	tford			1	Veston Home	ie.	Doreilo	ne.	ВН4
Contract R		1 0110		04.0		Groun	l d Level:	Co-ordinates:	.5	Sheet:		DITT
		265		04.0		0.00.	755	oo oramatoo.		Cricoti	1	of <b>2</b>
Sam	ples	and In-si	tu Tests	e e	∞ ' ë			,			Depth	Material
Depth	No	Туре	Results	Water	Backfill & Instru- mentation	-	2 2 1	Description of Stra	**		(Thick ness)	
0.00-0.40 - 0.50-0.95 - 0.60-1.30	1 B2	SPT(c) B	N=13			fine	DE GROUND: Dark to coarse and grave a sandstone and cor	I is fine to coarse a	velly SILT/CLAY. S ingular to sub-round nal wood debris.	and is ed flint		
1.40 1.50-2.00	D2 B3	D B			•.:≣• <u>;</u> :				1		(3.30)	
2.40 2.50-2.95	D3 2	D SPT(c)	N=7	1								
- 3.30 - 3.40-3.85	D4 3	D SPT(c)	N=20	1		flint o	ium dense initially o cobbles. Gravel is fi edium to coarse. YN HILL GRAVEL)	rangic brown sand ne to coarse angula	/ GRAVEL with occa or to rounded flint and	asional d sand	3.30	
- 4.40 - 4.50-4.95	D5 4	D SPT(c)	N=27			2		*			(3.20)	0.0000
- 5.40 - 5.50-5.95	D6 5	D SPT(c)	N=139			k	pelow 5.4m grading	into very dense sar	nd and gravel			0.00.00.00.00.00.00.00.00.00.00.00.00.0
6.50 6.60-7.05	D7 6	D SPT(c)	N=21			GRA Grav sub-r	VEL with occasiona	al fine to coarse su low density find f white.	omposed of silty ub-angular to angula e to coarse angu	ar flint.	6.50	
-7.90 8.00-8.45	D8 7	D SPT(c)	N=15									
9.40 9.50-9.95	D9 8	D SPT(c)	N=11	1			- 4			- X		

5	Boring Pro	gress and	Water Ob	servations		Chisel	ling / Slow I	Progress	Canaral	م باده		
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General F	kemarks	ü	
Butto	11110	Depth	Depth	(mm)	Depth	110111	10	(hh:mm)	Location cleared by GPR survey.		15	
04/08/14	1	4.00	3.40		3.90				2. Borehole drilled with 200mm diameter tools.     3. Water added between 3.90m to 16.0m to facilitate drilling.     4. Groundwater strike at 3.9m, rising to 3.2m in 30 minutes.  All dimensions in metres Scale: 1:56			
Method			Plan	t			Drilled			Checked		
Used:	Cable p	ercussio		1	ole tool	rig	By:	MB		Ву:	AGS	

GINT LIBRARY V8\_05.GLB LibVersion: v8\_05 - Lib0004 PhyVersion: v8\_05 - Care+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:36 | CB. RSK Environment Lid, 18 Frogmore Road, Hermel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437560, Fax: 01442 437550, Web: www.rsk.co.uk.



											÷	e.					-	101			U	1
Contract:		_		_				Client:	8						,	i		Bor	reho	le:	D	
		Pond	Site,											lome	es	i de como de desente de desente					BH4	•
Contract Re				Start:			Groun	d Level:		*	- 1	Co-or	dinate	es:				She	eet:	•		
	272	65		End:	04.0				•						ted not not	1				2	of <b>2</b>	=
Samp	oles a	nd In-si	tu Tests		Water	Backfill & Instru-					D	ooori	otion	of Str	oto					Depth (Thick		
Depth	No	Туре	Res	ults		Back					D	escri	Duon	OI OII	ala					ness)	Legend	
-10.90 11.00-11.45 - - - - - - - - - - - - - - - - - - -	D10 9	D SPT(c)	N= N=				Reco GRA Grav sub-I (WH	overed VEL wit rel is v rounded ITE CH/ tum cop	th oc white I. Ma ALK	casion we trix is	onal ak off GRC	fine low white OUP)	to coa densi	arse s ty fir	ub-an ie to	gular t coars	o and	ular fli	nt.	(9.50)		
-13.90 14.00-14.45 -15.40 15.50-15.95	D13	SPT(c)	N= N=																	16.00		
	£																*					

	Boring Pro	gress and	Water Ob	servations	;	Chiselli	ng / Slow F	Progress	Conoral	Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks	*
	-	Бериі	Бериі	(mm)	Deptil	-					
				(a. s)							
									8		
									3		
			-						All dimensions in metres	Scale: 1:50	6
Method		_	Plan	•			Drilled		Logged	Checked	400
Used:	Cable p	ercussio	n Used	i: Cal	ole tool	rig	By:	MB	By: STrajkovski	By:	AGS

GINT LIBRARY V8 05 GLB LibVersion: v8 05 - Lib0004 PriVersion: v8 05 - Cone+Logs 0003 | Log CABLE PERCUSSION LOG | 27265 MILL POND SITE, DARTFORD.GPJ - v8\_05 | 10/10/14 - 15:36 | CB. RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Heritordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.ulk.



# APPENDIX C GROUNDWATER MONITORING RECORDS

# IN-SITU GAS MONITORING RESULTS

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		1.		
		8	e <sup>r</sup>	
	8			
			2	
724				
- 1				
	marks	3 <b>0</b> 3		a
	d & Remarks			
	ent Used & Remarks	e e	, ,	e r
	2		v.	a a
	Equipment Used & Remarks			
	Equipment U			
	End Equipment U			
	Start End Equipment U			
	Start End Equipment U			
	During Start End Equipment U	;		
	During Start End Equipment U			
	During Start End Equipment U			
	During Start End Equipment U		T.	
	Start End Equipment U	Round 1	T.	

											,			200	
						-	, a		×						* = **
Hydrogen Sulphide (ppm)	0.0	,	(3)	0.0	i i		1				1				
Carbon Monoxide (ppm)	0.0	,	)2	0.0	п		i			1	1				
OIA)	0.0	1		0.0			Į.			1	1"				¥
LEL (%)	0.0	,		0.0	,		.1	1							
Oxygen (% / vol)	20.8		,	20.9			,		Da .	,	. ,	·			gi
Methane Oxygen (% / vol)	0.0	,	٠	0.0				'n	٠	1	ı				
Carbon Dioxide (% / vol)	0.0	į		0.0	ī		ı		¥		111				
Water Depth (mbgl)	1.95	2.05		1.95	2.01		2.05	2.12		2.12	2.12				e a
Gas Flow (l/hr)	-0.1	ı	20	0.1			-0.1			0.1	0.1		2		
Atmos Pressure (mb)	1008	1010		1008	1010		1008	1010		1008	1008				
Borehole Pressure (mb)	1008		ii ii	1009			1008			1008	1008				
Date & Time of Monitoring (elapsed time)	30/12/1899 10:55:00	22/08/2014 08:54:00		30/12/1899 10:40:00	22/08/2014 08:47:00		30/12/1899 11:00:00	22/08/2014 09:02:00	a s	30/12/1899 12:00:00	22/08/2014 09:09:00	ii.	8		л
Measured Installation Depth (mbgl)	18.73	18.67		19.00	18.98		10.12	10.08		6.87	6.87				
Monitoring Round	_	2		<b>*</b>	2		_	2		_	2				
Exploratory Position ID	BH1A	BH1A		BH2A	BH2A		ВНЗ	BH3		BH4	BH4				

er Explosive Limit = 5% v/v.

	HP3 9RT
	Hertfordshire
Contract:	Hemel Hempstead
8	18 Frogmore Road
0	RSK Environment Ltd
te: LEL = Lowe	Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lowe

	27265	Page:	1 of
		r.	te, Dartford
000	11/09/14	0	Mill Pond Site, Dartford
م مسام م	Confer Last	ntract:	

AGS

GINT\_LIBRARY\_V8\_05.GLB : E - GAS MON - REDUCED - A4 - 9A : 27265 MILL POND SITE, DARTFORD,GPU : 11/09/14 14:03 : CB .



### APPENDIX D LABORATORY CERTIFICATES FOR GEOTECHNICAL ANALYSIS



## STRUCTURAL SOILS LTD TEST REPORT



Report No. 582899-01 (00)

2652

Date

28-August-2014

Contract

Mill Pond Site, Dartford

Client

RSK

Address

18 Frogmore Rd

Apsley

Hemel Hempstead Hertfordshire HP3 9RT

For the Attention of

Svetislav Trajkovski

Samples submitted by client

13-August-2014

27265

Testing Started

17-August-2014

Client Reference Client Order No.

n/a

**Testing Completed** 

27-August-2014

Instruction Type

Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

### **UKAS Accredited Tests**

1.01	Moisture Content (oven drying method) BS1377:Part 2:1990:clause 3.2
1.03	Liquid Limit (one point method ) & Plastic Limit BS1377:Part 2:1990,clause 4.4/5.3
1.10	Particle Size Distribution wet sieve method BS1377:Part 2:1990,clause 9.2
1.13a	Particle Size Distribution sedimentation pipette method BS1377:Part 2:
	1990 clause 9 4

### Undertaken by a sub-contractor

2.07

pH value in accordance with BRE Special Digest 1:2005

2.04

Sulphate content (water extract) in accordance with BRE Special Digest 1:2005

### Not UKAS accredited

10.02

Saturated moisture content of chalk BS1377:Part 2:1990,clause 3.3

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of . Test were undertaken on samples 'as received' unless otherwise stated.

Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

Structural Soils Ltd 18 Frogmore Rd Hemel Hempstead HP3 9RT Tel.01442 416661

# GINT\_LIBRARY V8\_05.GLB LibVersion: v8\_05 - Lib0002 PtJVersion: v8\_05 - Core+Geotech Lab-Hemel - 0003 | GrfcText L - LAB VERIFICATION REPORT | 582899 MILL POND SITE, DARTFOND - RSK 27265.GPI - v8\_05 | 28/08/14 - 08:36 | JB. Structural Soils Ltd. Branch Office - Hemel Hempstead: 18 Frogmore Road, Hempstead, Hertfordshire, HP9 9RI. Tel: 01442 262323, Fax: 01442 262683, Web: www.soils.co.uk, Email: ask@soils.co.uk.

# TESTING VERIFICATION CERTIFICATE



2652

The test results included in this report are certified as:-

ISSUE STATUS: FINAL

In accordance with Structural Soils Ltd Laboratory Quality Assurance Manual, Issue 6, January 2010 all results sheets and summaries of results issued by the laboratory are checked by an approved signatory. This check will also involve checking of at least 10% of calculations for each test type to ensure that data has been correctly entered into the computer and calculated. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Assurance Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: 28/08/2014 08:35:34.

Testing reported after this date is not covered by this Verification Certificate.

38024

Approved Signatory

Justin Barrett (Laboratory Manager)



STRUCTURAL SOILS
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Contract:

14011

Job No:

Mill Pond Site, Dartford

582899

