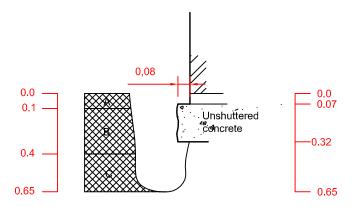
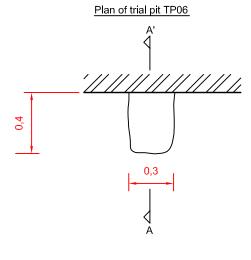
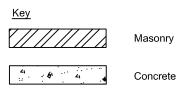
Section A - A' of trial pit TP06 facing west





Photographic record of trial pit TP06



- A Brown clayey slightly gravelly SAND. Gravel consists of brick and flint, (MADE GROUND)
- B Firm brown sandy slightly gravelly CLAY. Gravel consists of brick and flint. (MADE GROUND)
- C Firm orange brown sandy slightly gravelly CLAY. Gravel consists of brick and flint. (MADE GROUND)



Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable
- 3. No groundwater encountered
- 4. All dimensions shown in metres



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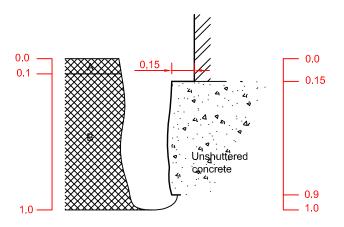
Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net Projec

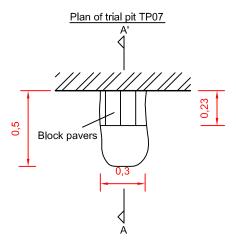
Richmond-Upon-Thames College, Egerton Road, Twickenham.

Title

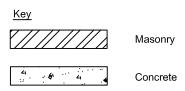
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project ref		drg No.	revision
STE1297R		TP06	

Section A - A' of trial pit TP07 facing west





Photographic record of trial pit TP07



- A Grass onto dark brown sandy slightly gravelly CLAY. Gravel consists of brick, (MADE GROUND)
- B Firm brown orange dark grey sandy gravelly CLAY with occasional cobbles of sandstone. Gravel consists of brick, coal, ash and sandstone. (MADE GROUND)



Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable
- 3. No groundwater encountered
- 4. All dimensions shown in metres



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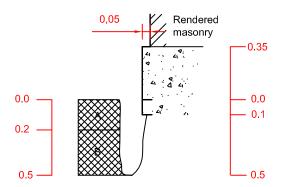
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Richmond-Upon-Thames College, Egerton Road, Twickenham.

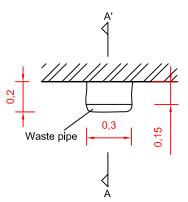
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project ref		drg No.	revision
STE1297R		TP07	

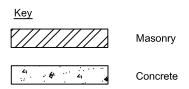
Section A - A' of trial pit TP08 facing east



Plan of trial pit TP08



Photographic record of trial pit TP08



- A Grass onto dark brown slightly gravelly CLAY. Gravel consists of glass and brick. (MADE GROUND)
- B Firm dark brown and brown slightly gravelly sandy CLAY. Gravel consists of ash, brick, coal and glass.

 (MADE GROUND)



Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable
- 3. No groundwater encountered
- 4. All dimensions shown in metres



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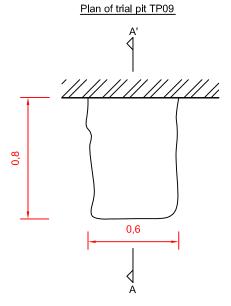
Richmond-Upon-Thames College, Egerton Road, Twickenham.

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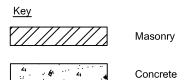
0.0 0.25 0.6 0.7 0.95

Section A - A of trial pit TP09 facing north



Photographic record of trial pit TP09





1.2

- A 70mm thick unreinforced concrete over 50mm thick pavor over 50mm concrete. (MADE GROUND)
- B Brown and dark brown gravelly sandy CLAY. Gravel consists of brick, ash and flint. (MADE GROUND)
- C Orange brown sandy gravelly CLAY. Gravel consists of coarse flint. (KEMPTON PARK GRAVEL)

Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable
- 3. Groundwater encountered at 0.6m
- 4. Trial pit terminated at 0.95m due to water inflow
- 5. $0.1\mbox{-}0.2\mbox{m}$ hydrocarbon odour from one end of the pit
- 6. Steel bar used to estimate base of foundation
- 7. All dimensions shown in metres
- 8. Jar sample taken from 0.1-0.2m depth



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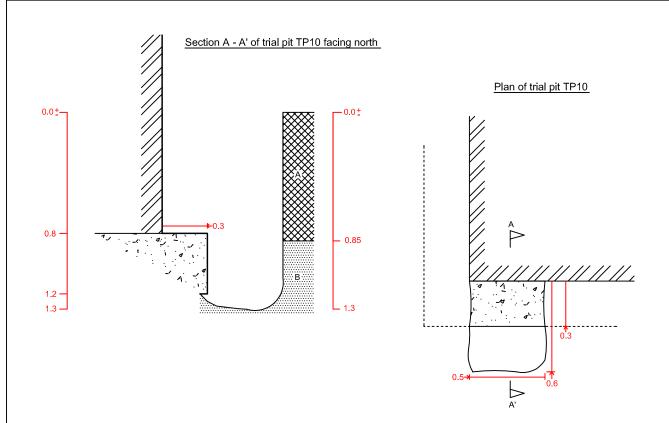
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1,2

Richmond-Upon-Thames College, Egerton Road, Twickenham.

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STE1297R		TP09	





Masonry

Concrete Photographic

- Photographic record of trial pit TP10
- A Loose brown sandy gravelly SILT, with some roots. Gravel consists of sub-rounded flint and brick. (MADE GROUND)

Key

B - Loose orange brown clayey silty SAND and GRAVEL. Gravel consists of sub-rounded flint.
(KEMPTON PARK GRAVEL)

Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable and no groundwater encountered.
- 3. All dimensions shown in metres

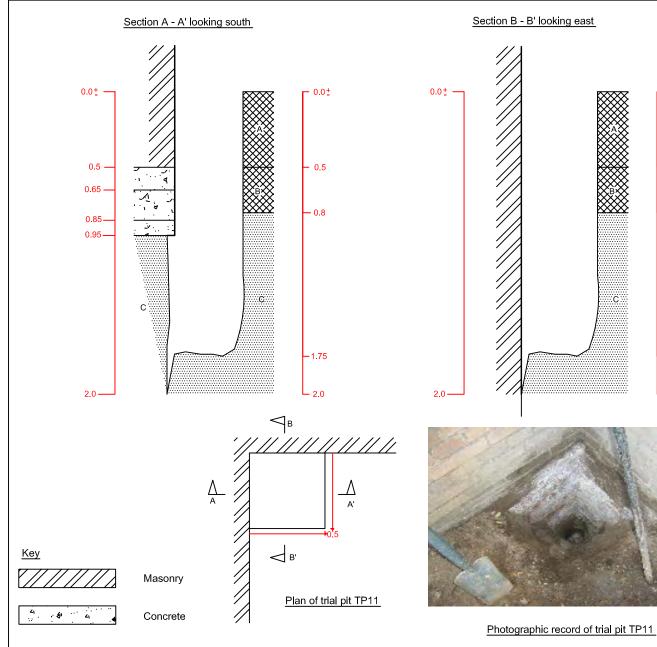


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Richmond-Upon-Thames College, Egerton Road, Twickenham.

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J 51L1	23710		
1		l	ı



- A Loose brown sandy gravelly SILT, with some roots. Gravel consists of sub-rounded flint.
 (MADE GROUND)
- B Loose orange brown silty SAND and GRAVEL, with occasional cobbles of brick. Gravel consists of sub-rounded flint and brick. (MADE GROUND)
- C Loose to medium dense orange brown clayey silty SAND and GRAVEL. Gravel consists of sub-rounded flint. (KEMPTON PARK GRAVEL)

Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable and no groundwater encountered.

0.5

0.8

-1.75

-2.0

- 3. All dimensions shown in metres
- 4. Steel bar used to estimate presence of foundation below 1.75m



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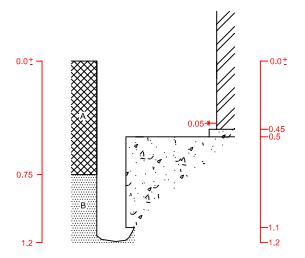
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Richmond-Upon-Thames College, Egerton Road, Twickenham.

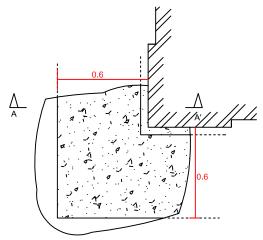
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STE1297R		TP11	

Section A - A' of trial pit TP12 facing west



Plan of trial pit TP12





Photographic record of trial pit TP12

Masonry Concrete

- A Loose brown sandy gravelly SILT, with some roots. Gravel consists of sub-rounded flint and brick. (MADE GROUND)
- B Loose orange brown clayey silty SAND and GRAVEL. Gravel consists of sub-rounded flint. (KEMPTON PARK GRAVEL)

Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable and no groundwater encountered.
- 3. All dimensions shown in metres



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Title

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28.05.08	28.05.08 RC		
project ref		revision	
STE1297R			
	28.05.08	28.05.08 RC drg No.	

Section A - A' looking north Section B - B' looking west Cement render probably 0.22 covering brick work 0.0 + -0.05 -0.08 - 0.3 - 0.3 0.32 0.78 -1.0 1.02 1.05 1.34 1.34 1.34 Section through trial pit looking northeast Plan of trial pit TP13 Key 0.2 Masonry Concrete в' ⊳ A - Concrete pavour. B - Loose light orange SAND.

- (MADE GROUND)
- C Loose to medium dense dark grey and dark brown sandy GRAVEL, with many cobbles of brick. Gravel consists of clinker, ash and brick. (MADE GROUND)
- D Stiff brown orange and dark grey sandy gravelly CLAY. Gravel consists of flint, brick and occasional metal and concrete. (MADE GROUND)
- E Very stiff orange brown sandy gravelly CLAY. Gravel consists of flint. (KEMPTON PARK GRAVEL)

Photographic record of trial pit TP13

Notes.

- 1. Trial pit excavated using hand tools
- 2. Trial pit sides remained stable and no groundwater encountered.
- 3. All dimensions shown in metres
- 4. Steel bar used to estimate presence of foundation below 1.75m



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project ref		drg No.	revision
STE1297R		TP13	

DESCRIPTION		LEGEND	DEPTH (m)	SAMPLE DEPTH TYPE		INSITU SHEAR STRENGTH TEST DATA			
					DEPTH	TYPE	RESULT		
Dark brown slightly gravelly SAND, with occasiona	al roots		0.0						
and rootlets. Gravel consists of flint.	/		0.12	0.1m J					
(TOPSOIL)									
Links become access the OANID				0.3m J					
Light brown gravelly SAND, with occasional roots. consists of flint.	. Gravel		0.42	0.4m J					
(TOPSOIL)									
	/								
TRIAL PIT TERMINATED AT 0.42m									
Notes:									
Trial pit sides were upright and stable.									
2. No groundwater encountered.	Om.								
3. Creosote odour between depths of 0.0-0.2	∠ 111.								
DEEED TO VEY AT BEOMY CO.	ELIIO A DD	 	 	ANATION	<u> </u>		<u> </u>		
REFER TO KEY AT BEGINNING OF 1				ANA HON ()⊦ SYME	BOLS			
IRIAL PII	GROUND L		OF 1	METHO	DD OF EXCAV	/ATION			
	GROUNDL	LVLL			and too				
(6-3)	LOCATION	DI AN ON DO	AMINO N-						
しつ)		PLAN ON DR 1297R-(OF EXCAVAT 27.05.08	ION			
		0 : 1 \ ^ (-						
SOILTECHNICS	PROJECT		=		-	-4 - -			
JOILIECHNIC2		hmond-l ckenhan		names Colle	ege, Ege	rton Ro	oad,		
•••••	'**'	onominal	•••						
GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY.					DITAL				
Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnic		REF. 1297R		IRIAL	. PIT No TP1	4			

DESCRIPTION	LEGEND	DEPTH (m)	SAMPLE DEPTH TYPE			
						RESULT
Grass onto dark brown slightly gravelly SAND, with occasional roots and rootlets. Gravel consists of fli brick. (MADE GROUND)	XXXXXX	0.0				
Loose light brown silty gravelly SAND, with occasio Gravel consists of flint grading into brown silty SAN (KEMPTON PARK GRAVELS)			B 0.4-0.7m			
TRIAL PIT TERMINATED AT 0.7m Notes: 1. Trial pit sides were upright and stable. 2. No groundwater encountered.						
REFER TO KEY AT BEGINNING OF THE TRIAL PIT I	GROUND LEVEL LOCATION PLAN ON DR	1 OF 1	METHO H	od of excavand too	VATION IS	
SOILTECHNICS	PROJECT Richmond-	Upon-Th	<u> </u>	0.06.08 ege, Ege	erton Ro	oad,

Twickenham.

STE1297R

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Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net

TRIAL PIT No

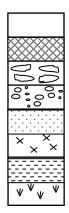
TP15

DESCRIPTION	LEGEND	DEPTH (m)	SAMPLE DEPTH TYPE		SHEAR S	TRENGTH TA
				DEPTH	TYPE	RESULT
Grass onto dark brown slightly gravelly SAND, with occasional roots and rootlets. Gravel consists of flint brick. (MADE GROUND) Light brown silty gravelly SAND, with occasional roots Gravel consists of flint and brick (MADE GROUND)		0.0	B 0.4-0.7			
(MADE GROOND)		0.7				
TRIAL PIT TERMINATED AT 0.7m Notes: 1. Trial pit sides were upright and stable. 2. No groundwater encountered.						
REFER TO KEY AT BEGINNING OF THIS TRIAL PIT RE	S APPENDIX FO					
(5)	GROUND LEVEL LOCATION PLAN ON DE STE1297R-		Ha DATE C	D OF EXCAVAT 0.06.08	ls	
SOILTECHNICS GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY.	PROJECT Richmond- Twickenhar	Upon-Th	names Colle	ge, Ege	rton Ro	oad,
Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net	PROJECT REF. STE1297R		TRIAL	PIT No TP1	6	

KEY TO LEGENDS (Extract from BS 5930;1999 table 11)

SOILS

SEDIMENTARY ROCKS



Topsoil

Made ground

Boulders & Cobbles

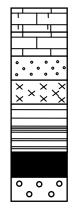
Gravel

Sand

Silt

Clay

Peat/Organic clays



Chalk

Limestone

Sandstone

Siltstone

Mudstone

Shale

Coal

Conglomerate

Note: Composite soil types are signified by combined symbols.

KEY TO TEST RESULTS COLUMN

Type and depth column: indicates depth that test was carried out i.e. at 2.1m or between 2.1m and 2.55m.

P or V: in this column, records of pocket penetrometer (P) or shear vane test (V) carried out on disturbed or undisturbed samples at depth shown, with results recorded in the test results column.

SPT / SPT (C): in this column records Standard Penetration Test (SPT) or Standard Penetration Test utilising a solid cone (SPT(C)).

Casing Depth and Water columns: record depth of casing and depth of water measured prior to each Standard Penetration Test (SPT)

Result column: records actual un-corrected test results obtained. For SPT results, seating blows are recorded in brackets before actual "N" value.

KEY TO SAMPLING COLUMNS

From (m) to (m): indicates depth(s) of sampling.

Type: indicates type of sample obtained.

U undisturbed sample D (32) number of blows to B

obtain undisturbed sample

disturbed sample bulk sample

N I water sample jar sample

WATER MEASUREMENTS

refer to notes at base of borehole sheet



BOREHOLE RECORDS (CABLE AND TOOL PERCUSSION DRILLING)

STANDARD KEY TO

CASING DEPTH (m)) WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)				SAMPLING		
						TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
		1	own slightly gravelly		§0.0						
		1	Gravel consists of flint.		8						
		(MADE	GROUND)		} 0.4						
		Firm dar	k brown and light		3				0.6		D
		brown s	ightly sandy slightly	XXXXX	0.9						
		gravelly	CLAY. Gravel	/[:U::::							
	Dry	consists	of flint and ash.	/	:1	SPT(C)	(1)6				
		(MADE	GROUND)	/	:1	1.2-1.65m			1.4		D
		Loose b	rown very silty gravelly	y [· · · · O	:]						
		SAND.	Gravel consists of fine		1.8						
2.1	1.1	to mediu	ım flint.			SPT(C)	(4)18		2.0		D
		(KEMPT	ON PARK GRAVEL)	// 0 _		2.1-2.55m			2.2	2.6	В
		Medium	dense brown slightly	100	:1						
		silty SAI	ND and GRAVEL of		:						
		flint.		0.	:]						
3.0	2.4	(KEMPT	ON PARK GRAVEL)	0 0	:	SPT(C)	(3)7				
		<u> </u>	•	1	3.3	3.1-3.55m					
		Loose g	rey brown slightly						3.4		D
		_	very silty SAND.	0	:1						
		1-	onsists of flint.		:						
4.0	2.6	(KEMPT	ON PARK GRAVEL)		:]	SPT(C)	(1)6				
		(,	:::O:	:]	4.0-4.45m					
					1				4.3		b
				<u> </u>	4.6						
		Medium	dense brown SAND								
5.1	3.1		AVEL of flint.	0.	:1	SPT(C)	(5)23		4.8		D
J. 1	0.1		ON PARK GRAVEL)	1	:	5.1-5.55m	(3)23		1.0		٦
		(132141111111111111111111111111111111111	OIVI7WW OIVWEE,	0	:]	0.1-0.00111			5.2	5.6	В
				0	:				0.2	0.0	٦
				0.0	:						
				0	1						
3.5	3.1				:	SPT(C)	(7)30				
J.J	3.1			0 0	:	` ′	(7)30				
RILLING			GROUNDWATER	:::::O:	·	6.5-6.95m					
	IFROM	ITO		- In	<u> </u>	ID.			DEDTU O		
DIAMETER	FROM	ТО	DEPTH(S) STRUCK		EHAVIO				DEPTH S	EALED	
150mm	0.0m	25.5m	Approximately 3.5m		v, water being added to				9.5m		
	REFER TO) KEY AT	<u> </u> BEGINNING OF THI	<u> </u>	IDIX FO	DR EXPLAI	NATIO	N OF	SYMB	OLS.	
		/ (1	BOREHOLE R						2		
				GROUND LE		-	С	O-ORD	INATES		
	(\sim		LOCATION P	LAN ON DF	RAWING No	D.	ATE OF	EXCAVATION)N	
				STE	1297R-	02		22	.05.08		
		ГСІ	INICC	PROJECT							
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50	ШΤ		1 N I L 3	Rich	mond-	Upon-Thar	mes C	oned	ıe, E <u>q</u> er	ton Ro	oad,
50			INICS		mond-l kenhar		mes Co	oneg	je, Eger	ton Ro	ad,
GEOTEC	HNICAL ENGINEE	RS, ENVIRONM	IENTAL CONSULTANTS				mes C	oneg	je, Eger	ton Ro	ad,
GEOTEC	HNICAL ENGINEE	RS, ENVIRON	• • • • • • • • • • • • • • • • • • • •	Twic	kenhar				Je, Eger	ton Ro	oad,

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS	,	SAMPLING		
		+			-	TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
				0				6.7		D
				0						
				0 0	•					
				: O:						
				0	1					
8.0	4.6			0		SPT(C)	(3)26	8.1	8.5	В
				0		8.0-8.45m				
					:					
				0 0						
					9.3					
0.5	0.4	•	k grey CLAY					9.5	40.05	D
9.5	9.1	CLONDO	ON CLAY)			SPT 9.6-10.05m	(3)17	9.6	10.05	D
						9.0-10.03111				
9.5	13.4							11.5	11.9	U100
										(24)
								12.0		D
9.5	Dry					SPT				
DRILLING			GROUNDWATER	-1-1-1-1		13.5-13.95m	(5)22	13.5	13.95	טן
DIAMETER	FROM	То	DEPTH(S) STRUCK	RF	HAVIOL	IR		DEPTH SI	FALED	
								52, 1110		
150mm	0.0m	25.5m	Approximately 3.5m			, water being ng at time of w			9.5m	
	REFER TO	O KEY AT	BEGINNING OF TH				ATION	OF SYMBO	DLS	
			BOREHOLE	GROUND LEV		2 OF 4	Ico	PRDINATES		
				GROUND LEV	CL		00-0	RDINATES		
	(\sim		LOCATION PL	AN ON DR	AWING No	DATE	OF EXCAVATIO	N	
				STE1	297R-0)2	:	22.05.08		
(1)	III T			PROJECT			I			
GEOTECH	NICAL ENGINEE	RS, ENVIRONI	HNICS MENTAL CONSULTANTS , Northampton. NN6 9PY.		nond-l kenhan	Jpon-Tham n.	nes Coll	ege, Egert	on Roa	ad,
			, Northampton, NN6 9F1. 'E-mail: mail@soiltechnics.i	FROJECTIKE			BOR	EHOLE No		
				STE1	297R			BH01		

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
					_	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
			grey CLAY								
		(LONDC	N CLAY)		1						
				7-7-7-7	1						
					3						
					1						
					1						
]						
				<u> </u>	3						
9.5	D.m.(7-7-7-7	1	ODT	(0)04		15.6	15.05	_
9.5	Dry					SPT	(6)24		15.6	15.95	D
					-	15.6-15.95m					
					1						
					-						
					1						
					1						
]						
9.5	Dry					SPT	(6)27		17.5	17.95	D
					=	17-5-17.95m					
]						
				-7-7-7-7	=						
				-1-1-1-1							
]						
				<u> </u>	3						
				-7-7-7-7	=						
9.5	Dry				1	SPT	(6)29		19.5	19.95	D
]	19.5-19.95m					
					1						
DRILLING			GROUNDWATER								
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	ВІ	EHAVIOL	IR		D	EPTH S	EALED	
150mm	0.0m	25.5m	Approximately 3.5m			, water being a ng at time of w				9.5m	
	REFER TO) KEY AT	BEGINNING OF TH	IIS APPEN	DIX FO	R EXPLAN	ATION	1 OF :	SYMB	OLS	
			BOREHOLE	1		3 OF 4					
				GROUND LEV	/EL		co	-ORDINA	ATES		
		(4)		LOCATIONS	ANIONES	AVA/INIO NI		TE 05 5	XCAVATIO	NI.	
				LOCATION P	297R-0		DA		5.08	N	
((H T		INICC	PROJECT							
GEOTECH	INICAL ENGINEE	RS, ENVIRONM	HNICS ENTAL CONSULTANTS Northeameter NAS CRY		mond-l kenhan	Jpon-Tham າ.	ies Co	llege	, Eger	ton Roa	ıd,
Cedar Ba Tel: (01604) 78	rn, White Lodg 31877 Fax: (01	ne, Walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.r	ret PROJECT RE	F.		ВС	OREHOLI	E No		
				1	297R		- 1		BH01		

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
						TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
			oming very stiff dark		크					
		grey CL			딈					
		(LONDC	N CLAY)		킠					
					크					
9.5	Dry				3			21.6	22.0	U100
					듸					(34)
					ヨ			22.1		D
					듸					
					3					
					=					
					딐					
					듸					
9.5	Dry					SPT	(6)32	23.6	24.05	D
					=	23.6-24.05m				
					딐					
					긬					
					크					
					3					
					크					
					킠					
9.5	Dry			7_7_7_7_	25.5	SPT	(8)35	25.5	25.95	D
		BOREH	OLE TERMINATED A	т		25.5-25.95m				
		25.5m								
		Note								
		1. Water	added between 1.7-							
		4.0m to	assist drilling.							
			vater monitoring							
		standpip	e installed to 6.0m.							
DRILLING			GROUNDWATER							
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	-	BEHAVIOL	JR		DEPTH S	EALED	
150mm	0.0m	25.5m	Approximately 3.5m	Ş	Slow inflow assist drilli	v, water being and time of w	added to ater strik	ie	9.5m	
	REFER TO	KEY AT	L BEGINNING OF THI	S APPE	NDIX FC	R EXPLAN	IATION	I OF SYMB	OLS	
			BOREHOLE R			4 OF 4				
				GROUND L	EVEL		CO-	-ORDINATES		
		5		10047:0::	DI ANI OTT DE	AMUNIC N		TE OF EVO	.N.I	
					PLAN ON DR 1297R-0		DA	TE OF EXCAVATION 22.05.08	iN	
CV	HT		INICS	PROJECT						
•••••	• • • • • • • • •	•••••	ENTAL CONSULTANTS		nmond-l ckenhar		nes Co	llege, Eger	ton Ro	ad,
	1476.00	. 147.7	Maritha and a series and a series	1						
Cedar Ba	rn, White Lodg 81877 Fax: (01	e, Walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.net	PROJECT F	REF.		ВО	REHOLE No		

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
		<u> </u>				TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
			own slightly gravelly		0.0					
		1	Bravel consists of flint.		0.2			0.2		D
		`	GROUND)	/‱				0.5		D
		1	dense orange brown		*					
			y slightly gravelly		Ä					
		SAND.	Gravel consists of flint.		Ä					
	Dry	1.	GROUND)	XXXXXX	1.3	SPT(C)	(5)24			
		Medium	dense brown sandy	0:0		1.2-1.65m		1.4		D
		GRAVE	L of flint. Grading to							
			vith depth.	0 0						
2.0	1.1	(KEMP)	ON PARK GRAVEL)	0.0	1	SPT(C)	(4)17	2.1	2.5	В
					1	2.0-2.45m				
				0	1					
				0 0	1					
3.0	2.4				1	SPT(C)	(1)18			
					}	3.1-3.55m		3.3		D
				0						
					1					
4.0	2.6			0]	SPT(C)	(1)20			
					1	4.1-4.55m				
					1					
5.0	3.1					SPT(C)	(5)22			
		Otite -1	OI AV		5.3	5.0-5.45m		5.2		D
		1	k grey CLAY		3			5.4		D
		(LONDC	ON CLAY)		-					
6.4	2.4				1			60	6.4	11400
6.4	3.1]			6.0	6.4	U100
]			6.5		(22)
					-			6.5		D
DRILLING			GROUNDWATER							
DIAMETER	FROM	То	DEPTH(S) STRUCK	l _D r	EHAVIOL	ID.		DEPTH S	ENLED	
DIAMETER		10						DEFINS	EALED	
150mm	0.0m	25.0m	Approximately 3.0m			, water being ng at time of w		:	5.6m	
F	L REFER TO	L KEY AT	_I TBEGINNING OF THIS	<u> </u>	DIX FO	R EXPLAN	IATION	OF SYMB	OLS	
			BOREHOLE R							
				GROUND LEV	/EL		CO-C	ORDINATES		
	4									
		つ		LOCATION PI			DATE	OF EXCAVATION	N	
				STE1	297R-0	02		26.05.08		
()	II T		INICS	PROJECT			•			
3 U	LLL		1 IV I C 3			Jpon-Than	nes Coll	lege, Eger	ton Ro	oad,
• • • • • • • •	• • • • • • • •	• • • • • • • •	•••••	Twic	kenhan	n.				
			IENTAL CONSULTANTS Northampton. NN6 9PY.							
			E-mail: mail@soiltechnics.net	FROJECTIKE			BOR	REHOLE No		
				STE1	297R			BH02	4	

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
						TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
		1	grey CLAY								
		(LONDC	N CLAY)								
									<u>.</u> .		
5.6	Dry						(4)20		8.1	8.55	D
						8.1-8.55m					
5.6	Dry					CDT	(4)21		10.0	10.45	D
J.U	Dry					SPT 10.0-10.45m	(4)41		10.0	10.45	ا
						10.0-10.4311					
				<u> </u>							
5.6	Dry					SPT	(5)22		12.2	12.65	D
	1					12.2-12.65m	` ′				
DRILLING		•	GROUNDWATER	,	•		•		•	•	•
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	BE	HAVIOU	R			DEPTH S	EALED	
150mm	0.0m	25.0m	Approximately 3.0m			, water being a g at time of w				5.6m	
	REFER TO) KEY AT	BEGINNING OF TH	IIS APPEN	DIX FO	R EXPLAN	OITA	N OF	SYMB	OLS	
			BOREHOLE	1		2 OF 4					
				GROUND LEV	EL		cc)-ORDIN	IATES		
	(51		LOCATION PL	AN ON DE	AWING No	DA	TE OF F	EXCAVATIO	N	
				1	297R-0				05.08	IN.	
()	HT		INICS	PROJECT			1				
GEOTECH	INICAL ENGINEE	RS, ENVIRONM	ENTAL CONSULTANTS		nond-L cenhan	Jpon-Tham า.	ies Co	llege	e, Eger	ton Roa	ad,
Cedar Ba Tel: (01604) 7	rn, White Lodg 81877 Fax: (01	e, Walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.n	et PROJECT RE	F.		В	OREHOL	LE No		
					297R				BH02		

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)			SAMPLING	,	
		<u> </u>			_	TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
		1	grey CLAY		=					
		(LONDC	N CLAY)		3					
5.6	Dry				3	SPT	(6)22	14.1	14.55	D
					3	14.1-14.55m				
					3					
					=					
					4					
					4					
					3					
				-1-1-1-	3					
					-1					
5.6	Dry				3	SPT	(6)25	16.1	16.55	D
					3	16.1-16.55m				
					3					
					-					
					-					
					3					
					3					
					3					
					=					
5.6	Dry				-1	SPT	(6)26	18.0	18.45	D
]	18.0-18.45m				
					4					
					3					
					3					
					=					
					=					
					4					
				5-5-5-5	3					
					3					
5.6	Dry				3	SPT	(6)32	20.1	20.55	D
					4	20.1-20.55m				
RILLING		•	GROUNDWATER		- 1	1		ı	1	
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	E	BEHAVIO	UR		DEPTH S	EALED	
50mm	0.0m	25.0m	Approximately 3.0m	3	Slow inflov	v, water being a	added to	o ke	5.6m	
	REFER TO	L KEY AT	I BEGINNING OF TH	<u> </u>	NDIX FO	OR EXPLAN	ATION	<u> </u>	OLS	
			BOREHOLE	RECORD	SHEET	3 OF 4				
				GROUND LI	EVEL		cc	O-ORDINATES		
		5		LOCATION	PLAN ON DF	PAWING No.	D4	TE OF EXCAVATIO	N	
				- 1	1297R-		I DA	26.05.08	IN.	
(1)	II T		INICS	PROJECT			<u> </u>			
GEOTECH	INICAL ENGINEE	RS, ENVIRONM	ENTAL CONSULTANTS		imond- kenhai		ies Co	llege, Eger	ton Roa	ad,
Cedar Ba Tel: (01604) 7	irn, White Lodg 81877 Fax: (01	e, Walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.r	net PROJECT F	EF.		ВС	DREHOLE No		

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m) TEST RESULTS			SAMPLING		
						TYPE AND DEPTH	RESUL	Т	FROM (m)	TO (m)	TYPE
		Stiff bed	coming very stiff dark								
		grey CL	AY								
		(LOND)	ON CLAY)		딐						
					3						
				D-I-I-I-I							
					덬						
					3						
5.6	Dry				=	SPT	(7)33	3	22.2		D
					덬	22.2-22.65m					
					덬						
				7-7-7-7	핔						
					크						
5.6	Dry				ヨ				24.0	24.4	U100
0.0	Di y								21.0		(40)
					=				24.5		D
					덬						
				<u> </u>	25.0				25.0		D
		BOREH	OLE TERMINATED A	т							
		25.0m									
		Note									
		1. Wate	r added between 1.3-								
		1	assist drilling.								
		1	water monitoring								
		standpip	be installed to 6.0m.								
DRILLING			GROUNDWATER								
DIAMETER	FROM	То	DEPTH(S) STRUCK	- I	BEHAVIO	LID			DEPTH S	EVIED	
DIAMETER	PROM	10	DEI III(3) 31KOOK		BEHAVIO	UK			DEI III 3		
150mm	0.0m	25.0m	Approximately 3.0m			w, water being ing at time of w				5.6m	
F	L REFER TO	L O KEY AT	_I Γ BEGINNING OF THI	S APPE	NDIX F	OR EXPLAN	IATIO	ON O	I F SYMB(OLS	
			BOREHOLE R	ECORD	SHEET	7 4 OF 4					
				GROUND L	EVEL			CO-ORE	INATES		
		(5)		LOCATION	PLAN ON D	RAWING No		DATE O	F EXCAVATIO	N	
	`			STE	1297R-	02		26	3.05.08		
()	II T			PROJECT			J				
3W			HNICS	Ricl	nmond-	Upon-Than	nes (Collec	ge, Eger	ton Ro	ad,
					ckenha			- •	. J		,
			MENTAL CONSULTANTS								
Cedar Bari Tel: (01604) 78:	n, White Lod 1877 Fax: (0	ge, Walgrave 1604) 781007	, Northampton. NN6 9PY. 'E-mail: mail@soiltechnics.net	PROJECT	REF.		- 1	BOREH	IOLE No		
				1	1297R				BH02	2	

CASING DEPTH (m)) WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
						TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
		Black bit	tuminous bound		0.0					
		material			0.1					
		(MADE	GROUND)	/ 	0.25			0.3		D
		<u> </u>	wn and yellow brown	· / XXXX	Ž .			0.5		Ь
			sandy CLAY. Gravel		8					
		1-	of flint, brick and ash	I KXXXXX	8					
		1	GROUND)	" XXXX	1.2			1.3		D
1.5	0.6	,	dense grey brown ve		:]'	SPT(c)	(11)41	1.0		٦
1.0	0.0	1	ravelly SAND. Grave	. //	-	1.5-1.95m	(11)-11	1.6	2.0	В
		1	of flint, brick and ash	11.0.5		1.5-1.55111		1.0	2.0	٦
		1	GROUND)		:1					
			dense brown SAND		:					
2.6	1.2		AVEL of flint.		:	SPT(c)	(10)38	2.7		D
2.0	1.2		ON PARK GRAVEL)	0.0	:}	2.6-3.05m	(10)36	2.7		٦
		(IXEIVII I	ON I AIN ONAVEL)	0	-	2.0-3.03111				
				0						
3.5	2.4				3	ODT(-)	(7)24			
3.3	2.4			0.0	3.6	SPT(c)	(7)31	3.7		
		Madium	danaa dark aray	0:::		3.5-3.95m		3.7	4.2	D B
			dense dark grey	O	:			3.8	4.2	B
4.5			nd GRAVEL of flint.	[2]2]2]2]2	:]					
4.5	2.3	(KEMP)	ON PARK GRAVEL)	0 0	:	SPT(c)	(4)16			
					·]	4.5-4.95m				
		0	0.4.		4.8					_
		1	k grey CLAY		3			5.0		D
		(LONDC	N CLAY)		3					
					3					
5.5	Dry				=	SPT	(3)14			
					4	5.6-6.05m				
					3					
					3					
					3					
					Ξ					
					3					
DRILLING	'	<u> </u>	GROUNDWATER		- 1					•
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	В	EHAVIO	UR		DEPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.5m			v, water being			5.5m	
	REFER TO) KEY AT	L BEGINNING OF TH						OLS.	
		- 11-1711	BOREHOLE I					. J. J. WID		
			SOMETICEL	GROUND LE		. 5. 6	со	-ORDINATES		
	($\langle \sim \rangle$		LOCATIONS	N AN ON DE	NAMINO NA		TE OF EVOAVATIO	NA I	
				LOCATION P	1297R-		DA	re of excavation 27-28.05.0		
CA	HIT		HNICS	PROJECT						
		T () 1	1 N I L 3	Rich		Upon-Thai	mes Co	llege, Eger	ton Ro	oad,
GEOTEC	CHNICAL ENGINEE	RS, ENVIRONM	IENTAL CONSULTANTS	Twic	kenhar	m.				
GEOTEC	CHNICAL ENGINEE	RS, ENVIRONM	• • • • • • • • • • • • • • • • • • • •			m.	BC	PREHOLE No		

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPL	NG	
						TYPE AND DEPTH	RESULT	FROM (m) TO (m)	TYPE
			grey CLAY.							
		(LONDC	N CLAY)							
5.5	Dry							7.5	7.9	U100
										(22)
								8.0		D
				F-3-3-3-3						
5.5	Dry					SPT	(4)21	9.5	9.95	D
	' '					9.5-9.95m	(7/41	3.3	5.55	٦
						J.J-J.JJIII				
				F-3-3-3-3						
	D					0.0.7	(=).00	44.4	44.05	
5.5	Dry						(5)22	11.4	11.85	D
						11.4-11.85m				
DRILLING		_	GROUNDWATER							
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	BEI	HAVIOU	R 		DEPTH	SEALED	
150mm	0.0m	20.0m	Approximately 2.5m	Slo ass	w inflow, sist drillin	, water being a g at time of w	added to ater stril	ke	5.5m	
	REFER TO	KEY AT	L BEGINNING OF TH	IIS APPEND	OIX FO	R EXPLAN	ATION	I OF SYM	BOLS	
			BOREHOLE	RECORD S	HEET	2 OF 3				
	4			GROUND LEVE	EL		CC	-ORDINATES		
		4								
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			STE12	an on dra 297 R-0		DA	TE OF EXCAVA 27-28.05		
	III T	C (I	INICS	PROJECT						
			4 M I I X		ond II	lpon-Tham	es Co	llogo Eg	orton Do	ad
GEOTECH	INICAL ENGINEEI	RS, ENVIRONM	ENTAL CONSULTANTS	Richm Twick				inege, Lg	erton Ro	au,
GEOTECH Cedar Ba	INICAL ENGINEES	RS, ENVIRONM	• • • • • • • • • • • • • • • • • • • •	Twick	enham			OREHOLE No	erton Ro	au,

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
						TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
5.5	Dry	1	grey CLAY. N CLAY)			SPT 13.6-14.05m	(5)24		13.6	14.05	D
5.5	Dry					SPT 15.5-15.95m	(6)25		15.5	15.95	D
5.5	Dry								17.5	17.9	U100 (38)
5.5	Dry	AT 20.0i Note 1. Water 3.0m to 2. Gas/w	added between 1.2- assist drilling. vater monitoring		20.0	SPT 19.6-20.05m	(6)28		19.6	20.05	D
DRILLING		standpip	e installed to 5.0m. TGROUNDWATER								
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	E	EHAVIOL	JR		D	EPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.5m	a	ssist drillir	y, water being and at time of w	ater stri	ke		5.5m	
	KEFER TO) KEY AT	BEGINNING OF THIS				IA HOI	N OF	SYMBO	JLS	
			BOREHOLE R	GROUND LE		3 OF 3	CC	D-ORDINA	ATES		
		2		LOCATION F	PLAN ON DR 1297R-(DA		XCAVATIO 28.05.0		
GEOTECH	NICAL ENGINEE	RS, ENVIRONM	ENTAL CONSULTANTS Northampton. NN6 9PY.	Twic	kenhan	Jpon-Tham n.	nes Co	ollege	, Eger	ton Roa	nd,
Tel: (01604) 78	31877 Fax: (01	604) 781007	E-mail: mail@soiltechnics.net		EF. 1297R		В	OREHOLI	E No BH03	3	

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			AMPLING		_
				 		TYPE AND DEPTH	RESULT	F	ROM (m)	TO (m)	TYPE
		material			0.0 0.1			c).3		D
		Medium	GROUND) dense brown sandy L of brick and concrete		0.25			c).6		D
			GROUND)	·	0.9				1.1		D
1.2	Dry	<u> </u>	ey mottled orange			SPT(C)	(16)47	1	1.3	1.6	В
	′	1 -	lightly sandy slightly			1.2-1.85m	,				
		gravelly	CLAY. Gravel								
		consists	of brick, flint and ash.								
2.0	1.1	<u> </u>	GROUND)			SPT(C)	(14)40				
		1	prown slightly silty			2.0-2.45m		2	2.2		D
			nd GRAVEL of flint.								
		(KEMP)	ON PARK GRAVEL)								
3.0	2.0	Modium	dense dark grey		2.9	SPT(C)	(10)36	,			
3.0	2.0		nd GRAVEL of flint.			3.1-3.55m	(10)36		3.2		D
			to grey brown SAND			5.1-5.55111			<u>~</u>		۲
		with dep	- ·								
		1	ON PARK GRAVEL)								
4.0	2.1					SPT(C)	(8)23				
						4.1-4.55m		4	1.2	4.5	В
5.0	2.4					SPT(C)	(1)19	۔ ا	- 0		
						5.1-5.55m		5	5.2		D
6.0	2.7					SPT(C)	(4)18				
				1.1.1.1.1.1	6.3	6.0-6.45m		6	3.2		D
		1	k grey CLAY. DN CLAY)					6	6.5		D
DRILLING			GROUNDWATER		1		<u> </u>			<u> </u>	1
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	В	EHAVIOL	JR		DE	PTH SE	EALED	
150mm	0.0m	20.0m	Approximately 2.5m			, water being ng at time of w				6.3m	
F	REFER TO	O KEY AT	BEGINNING OF THIS				IATIO	N OF S	YMBC	DLS	
			BOREHOLE RI	GROUND LE		1 UF 3	10	O-ORDINAT	FS		
				0.100.15 22			ľ	0 0.15.1.01.			
		(\sim)		LOCATION P	I AN ON DR	AWING No		ATE OF EXC	CAVATION	J	
	•				297R-0		ا ا	29.05		•	
()	II T	T (INICC	PROJECT							
10		t ()	INICS	Rich	mond-l	Jpon-Tham	nes C	olleae	Eaert	on Ro	ad.
GEOTECHI	NICAL ENGINEE	RS, ENVIRON	IENTAL CONSULTANTS		kenhan			3 -,	_9		,
			, Northampton. NN6 9PY. E-mail: mail@soiltechnics.net	PROJECT RE	F.		E	BOREHOLE	No		
•					297R				BH04		

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
						TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
		•	k grey CLAY.							
		(LONDC	ON CLAY)							
					==					
4.5	Dry				==	SPT	(3)18	7.6	8.05	D
					==	7.6-8.05m				
					==					
					==					
					==					
					==					
4.5	Dry					SPT	(4)21	9.5	9.95	D
						9.5-9.95m				
					==					
				-1-1-1-1						
								14.0		
4.5	Dry				===	SPT	(5)24	11.6	12.05	טן
					==	11.6-12.05m				
					==					
					<u></u>					
					==					
						SPT				
4.5	Drv			-3-3-3		13.5-13.95m	(5)25	13.5	13.95	l _D
DRILLING	le. A		GROUNDWATER	<u> </u>	<u></u>	10.0 10.00111	10720	110.0	10.00	<u> </u>
DIAMETER	FROM	То	DEPTH(S) STRUCK		BEHAVIOL	IR		DEPTH SI	EALED	
150mm	0.0m	20.0m	Approximately 2.5m		Slow inflow assist drilling	, water being a ng at time of w	added to ater strike		6.3m	
F	REFER TO	KEY AT	 BEGINNING OF TH	IIS APPE	NDIX FO	R EXPLAN	ATION	OF SYMBO	DLS	
			BOREHOLE	RECORE	SHEET	2 OF 3				
				GROUND I	_EVEL		CO-0	RDINATES		
		6		L						
		つ		LOCATION	I PLAN ON DRA	AWING No	DATE	OF EXCAVATIO	N	
				STI	E1297R-0)2	:	29.05.08		
CU	II T		ANICS	PROJECT			<u> </u>			
3 U			1 IN I C 3	Ric	hmond-l	Jpon-Tham	es Coll	ege, Egert	on Ro	ad,
					ckenhan			·		-
			IENTAL CONSULTANTS							
			, Northampton. NN6 9PY. E-mail: mail@soiltechnics.r	net PROJECT	REF.		BOR	EHOLE No		
	•		-	I KOSLOT	E1297R			BH04	L	
				311	- 120/11				r	

WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
					TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
	Stiff dark	grey CLAY.							
	(LONDO	N CLAY)		.					
			-1-1-1-1	덬					
				곀					
				즼					
				i					
				덬					
				덬					
Dry				딐			15.6	16.0	U100
									(37)
				:			16.1		D
				덬					
				폌					
				딐					
				id .					
				덬					
								1	
Dry				덬			17.7	18.15	D
				덬	17.7-18.15m				
				폌					
				i					
				덬					
	DODELI	OLE TERMINATER		폌					
	1	\							
Dn/	A 1 20.01	11 \	, =====	뎚	ODT	(6)24	10.5	20.05	D
ыу	Note		\	덬			19.5	20.03	٦
		added hetween 1.2-	\=====	딐	19.5-20.05111				
				20.0					
	1								
	1								
	1	GROUNDWATER			1	<u> </u>	<u> </u>		<u> </u>
FROM	ТО	DEPTH(S) STRUCK		BEHAVIOL	JR		DEPTH S	EALED	
0.0m	20.0m	Approximately 2.5m						6.3m	
	LEV AT	DECINALING OF THE						01.0	
KEFEK IC	, KEYAI					IATION	OF SYMB	OLS	
			1		<u>, , , , , , , , , , , , , , , , , , , </u>	CO-	ORDINATES		
(\sim 1		LOCATION	PLAN ON DR	AWING No	DAT	E OF EXCAVATION	DN .	
			STE	1297R-0	02		29.05.08		
II T	E C L	11116	PROJECT			1			
	ELI	11117			Jpon-Tham	nes Col	llege, Eger	ton Roa	ad,
NICAL ENGINEER	RS, ENVIRONM	ENTAL CONSULTANTS	Twi	ckenhar	n.				
NICAL ENGINEER	S, ENVIRONM	• • • • • • • • • • • • • • • • •			n.	ВО	REHOLE No		
	Dry Dry FROM 0.0m REFER TO	Dry BOREHO AT 20.0r Note 1. Water 3.0m to a 2. Gas/w standpip FROM TO 0.0m 20.0m REFER TO KEY AT	Dry BOREHOLE TERMINATED AT 20.0m Dry Note 1. Water added between 1.2-3.0m to assist drilling. 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK 0.0m 20.0m Approximately 2.5m REFER TO KEY AT BEGINNING OF THIS	BOREHOLE TERMINATED AT 20.0m Dry Note 1. Water added between 1.2- 3.0m to assist drilling. 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK 0.0m 20.0m Approximately 2.5m REFER TO KEY AT BEGINNING OF THIS APPE BOREHOLE RECORD GROUNDLING GROUND	Dry BOREHOLE TERMINATED AT 20.0m Dry Note 1. Water added between 1.2- 3.0m to assist drilling. 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK BEHAVIOL 0.0m 20.0m Approximately 2.5m Slow inflow assist drilling. REFER TO KEY AT BEGINNING OF THIS APPENDIX FOR BOREHOLE RECORD SHEET GROUND LEVEL LOCATION PLAN ON DE STE1297R-4 GROUND LEVEL LOCATION PLAN ON DE STE1297R-4 LOCATION PLAN ON DE STE1297R-4 LOCATION PLAN ON DE STE1297R-4	Dry BOREHOLE TERMINATED AT 20.0m Dry Note 1. Water added between 1.2- 3.0m to assist drilling, 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK 0.0m ZO.0m Approximately 2.5m Slow inflow, water being assist drilling at time of water to the standard of the st	Dry BOREHOLE TERMINATED AT 20.0m Note 1. Water added between 1.2- 3.0m to assist drilling. 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK BEHAVIOUR 0.0m 20.0m Approximately 2.5m Slow inflow, water being added to assist drilling at time of water strik REFER TO KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANATION BOREHOLE RECORD SHEET 3 OF 3 GROUND LEVEL CO- LOCATION PLAN ON DRAWING NO STE1297R-02	Dry BOREHOLE TERMINATED AT 20.0m Note 1. Water added between 1.2-3.0m to assist drilling, 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK BEHAVIOUR 0.0m 20.0m Approximately 2.5m Slow inflow, water being added to assist drilling at time of water strike REFER TO KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANATION OF SYMB BOREHOLE RECORD SHEET 3 OF 3 GROUND LEVEL CO-ORDINATES GRO	Dry BOREHOLE TERMINATED AT 20.0m Dry Note 1. Water added between 1.2-3.0m to assist drilling. 2. Gas/water monitoring standpipe installed to 6.0m. GROUNDWATER FROM TO DEPTH(S) STRUCK BEHAVIOUR 0.0m 20.0m Approximately 2.5m Slow linflow, water being added to assist drilling at time of water strike REFER TO KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANATION OF SYMBOLS BOREHOLE RECORD SHEET 3 OF 3 GROUND LEVEL CO-ORDINATES LOCATION PLAN ON DRAWING No STE1297R-02 DATE OF EXCAVATION 29.05.08

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
						TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
		1	own slightly gravelly Gravel consists of brick	·	0.0				0.2		D
		(MADE	GROUND) own slightly clayey	/	0.4				0.6		D
1.5	Dry	brick.	nd GRAVEL of flint an	d /	1.1	SPT(C)	(2)17		1.3		D
		Firm ora	nge brown mottled wn slightly gravelly sandy CLAY. Gravel		1.9	1.5-1.95m			2.0		D
2.5	1.4	consists (MADE	of flint and brick. GROUND)			SPT(C)	(12)30	0	2.1	2.5	В
		GRAVE	dense brown sandy L of flint. ON PARK GRAVEL)	0 0		2.5-2.95m					
3.5	2.3			0 0		SPT(C) 3.5-3.95m	(15)29	9	3.7		D
4.5	4.6	1	c grey CLAY.	V: :::::	4.2	SPT	(2)12		4.4		D
						4.6-5.05m					
4.5	Dry								5.5	5.9	U100 (17)
									6.0		D
DRILLING DIAMETER	FROM	ТО	GROUNDWATER DEPTH(S) STRUCK	BE	HAVIOL	JR			DEPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.5m			v, water being				4.2m	
	REFER TO	L D KEY AT	L Beginning of thi	I S APPEND	IX FC	R EXPLAN	NATIC	N OF	SYMBO	OLS	
			BOREHOLE R	1		1 OF 3					
				GROUND LEVE	EL			O-ORDII	NATES		
	(5		LOCATION PLA			С		EXCAVATIO -29.05.0		
GEOTECH	INICAL ENGINEE	RS, ENVIRONM	ENTAL CONSULTANTS Northampton. NN6 9PY.	Twick	enhan	Jpon-Than n.	mes C	olleg	e, Egeri	ton Ro	ead,
Tel: (01604) 78	81877 Fax: (01	(604) 781007	E-mail: mail@soiltechnics.net	PROJECT REF				BOREHC	DLE No	_	

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
		1				TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
		1	grey CLAY.	-7-7-7-7-7							
		(LONDC	N CLAY)								
	_									0.05	
4.5	Dry				·l		(3)18		7.6	8.05	D
				-1-1-1-1-		7.6-8.05m					
4.5	Dry					SPT	(4)21		9.5	9.95	D
+.5	Ыу				.1	9.5-9.95m	(4)21		9.5	9.93	יין
					1						
				-1-1-1-1-							
				-1-1-1-1-							
4.5	Dry					SPT	(5)24		11.6	12.05	D
						11.6-12.05m					
				I-I-I-I-I-I							
						SPT					
4.5	Dry					13.5-13.95m	(5)25		13.5	13.95	D
DRILLING		1	GROUNDWATER								
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	BE	HAVIOU	R			DEPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.5m			, water being a g at time of w				4.2m	
	REFER TO	KEY AT	BEGINNING OF TH	IIS APPEN	DIX FO	R EXPLAN	ATIOI	N OF	SYMBO	DLS	
			BOREHOLE			2 OF 3	,				
				GROUND LEV	ΈL		CC)-ORDII	NATES		
		5		1.00:7:0::	AN 011 5 = 1	NAME N		TE 05	EVO 4: =: -		
				STE1	AN ON DRA 297R-0		DA		EXCAVATIO -29.05.0		
Ω	HT		INICC	PROJECT							
GEOTECH	NICAL ENGINEE	RS, ENVIRONM	ENTAL CONSULTANTS		nond-U kenhan	Jpon-Tham າ.	ies Co	olleg	e, Egert	on Roa	ıd,
Cedar Bar Tel: (01604) 78	rn, White Lodg 31877 Fax: (01	e, Walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.n	et PROJECT RE	F.		В	OREHO	DLE No		
				1	297R		1		BH05		

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
						TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
		Stiff dark	grey CLAY.	E-3-3-3	딐					
		(LONDC	N CLAY)							
					==					
					==					
					<u> </u>					
				E-3-3-3						
				=====						
4.5	Dry							15.6	16.0	U100
	′				33					(37)
					<u> </u>			16.1		Ď ĺ
				E-3-3-3						
					<u> </u>					
				=====						
				E-3-3-3						
4.5	Dry					SPT	(6)28	17.7	18.15	D
1.0	lo i y					17.7-18.15m		'' ''	10.10	٦
						17.7-10.15111				
					33					
					33					
		DODEH.	OLE TERMINATED	E-3-3-3						
		AT 20.0i	\							
		A 1 20.01	\			SPT	(6)31	19.5	19.95	D
4.5	Dry	Note	· ·	\				19.5	19.93	ا
4.5	ыу	1	added between 1.9-	\	딐	19.5-19.95m				
		1		¥	20.0					
		1	assist drilling.							
		1	vater monitoring e installed to 5.0m.							
DDULINO		Standpip								
DRILLING	I	I-o	GROUNDWATER					la cartita		
DIAMETER	FROM	ТО	DEPTH(S) STRUCK		BEHAVIO	JR		DEPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.5m		Slow inflov assist drilli	v, water being and time of w	added to ater strike	e	4.2m	
	REFER TO	KEY AT	BEGINNING OF THIS	S APPE	NDIX FO	OR EXPLAN	IATION	OF SYMB	OLS	
			BOREHOLE R	ECORE	SHEET	3 OF 3				
				GROUND	LEVEL		CO-	ORDINATES		
		(1								
	(つ)		1	N PLAN ON DF		DAT	E OF EXCAVATION	N	
				STI	E1297R-	02		28-29.05.0	8	
()	11 T	ር / ሀ	INICS	PROJECT						
) U		しし「	111163			Upon-Tham	nes Col	lege, Eger	ton Roa	ad,
•••••	• • • • • • • • •	•••••	• • • • • • • • • • • • • • • •	Twi	ickenhar	n.				
Cedar Bai	rn White Loda	e Walgrave	ENTAL CONSULTANTS Northampton. NN6 9PY.							
Tel: (01604) 78	31877 Fax: (01	604) 781007	E-mail: mail@soiltechnics.net	1			ВОІ	REHOLE No		
I				STI	E1297R			BH0	5	

CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
				· ××××		TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
		Black bit	tuminous bound		§0.0						
		material			{ 0.1				0.2		D
		(MADE	GROUND)	/ >>>>	8				0.5		D
		Soft darl	k grey very gravelly	- XXXX	8						
		slightly s	andy CLAY. Gravel		8						
		consists	of flint, brick and ash	ı. 💹	3						
		(MADE	GROUND)	XXXXX	₹1.3						
1.4	Dry	Dense b	rown sandy GRAVEL	<u>_</u> [0:0:	1	SPT(C)	(15)43	3	1.5		D
		of flint.			:	1.4-1.85m					
		(KEMPT	ON PARK GRAVEL)	0	:]						
2.0	1.1			0 0		SPT(C)	(12)38	3	2.1	2.5	U100
						2.1-2.55m					(18)
				0							` ′
					:						
				0 0	:						
3.0	2.2			0	:]	SPT(C)	(11)34	ı			
				0		3.1-3.55m			3.2		D
				0	.1						
				0.0	:						
				: :O: :	:						
4.0	3.0			0	:]	SPT(C)	(5)14				
				1	4.2	4.0-4.45m			4.3		D
		Stiff dark	c grey CLAY		3						
		1	N CLAY)		3						
		[`	,								
4.5	5.0					SPT	(3)15		5.0	5.45	b
					3	5.0-5.45m	,				
					3						
					3						
									6.0	6.4	U100
					3						(38)
					3				6.5		Ď ´
DRILLING			GROUNDWATER		1	I					
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	В	EHAVIO	JR		D	EPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.8m			v, water being				4.5m	
	REFFR TO	 D KEY AT	L BEGINNING OF TH						SYMR	OLS	
			BOREHOLE I								
				GROUND LE			С	O-ORDINA	ATES		
		5		LOCATION F	LAN ON DR	AWING No	D	ATE OF E	XCAVATIO	N	
					1297R-				5.08		
()	HIT		INICS	PROJECT			<u> </u>				
•••••	HNICAL ENGINEE	RS, ENVIRONM	IENTAL CONSULTANTS		mond-l kenhar	Upon-Thar n.	nes C	ollege	, Eger	ton Ro	ad,
_	arn White Indi	ge, Walgrave,	Northampton. NN6 9PY.	1							
Cedar Ba Tel: (01604) 7	81877 Fax: (01	1604) 781007	E-mail: mail@soiltechnics.ne	et PROJECT R	ΞF.		E	BOREHOL	E No		

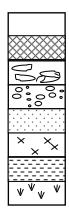
CASING DEPTH (m)	WATER (m)	STRATA DESC	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING	3	
		ļ				TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
		II.	c grey CLAY.							
		(LONDC	ON CLAY)							
					-					
					1				l	
4.5	Dry				-		(5)19	8.1	8.55	D
						8.1-8.55m				
					1					
					1					
]					
					3					
					1					
				-1-1-1-1	1					
					3					
					3					
4.5	Dry				1	SPT	(5)21	10.2	10.65	D
1.0	lo i y				1	10.2-10.65m	(3)21	10.2	10.00	٦
					3	10.2 10.0011				
					∄					
					1					
					1					
					∄					
					1					
4.5	Dry					SPT	(6)22	12.1	12.55	D
					3	12.1-12.55m				
					1					
					1					
]					
					1					
ORILLING			GROUNDWATER	<u> </u>						
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	В	EHAVIOL	IR		DEPTH S	SEALED	
150mm	0.0m	20.0m	Approximately 2.8m	S	ow inflow sist drillir	, water being a	added to ater stri	o ke	4.5m	
	REFER TO	KEY AT	BEGINNING OF TH	IIS APPEN	DIX FO	R EXPLAN	OITA	N OF SYME	OLS	
			BOREHOLE			2 OF 3				
				GROUND LE	/EL		cc	O-ORDINATES		
		5		LOCATIONS	LANIONIDO	ANA/INIO NI-		TE OF EXCAVATI	ON	
				LOCATION P	1 297R- 0		DF	27.05.08	JN	
()	II T	ברו	INICS	PROJECT			1			
GEOTECH	NICAL ENGINEE	RS, ENVIRONM	IENTAL CONSULTANTS		mond-l kenhan		ies Co	ollege, Ege	ton Ro	ad,
Tel: (01604) 78	rn, wnite Lodg 31877 Fax: (01	e, walgrave, 604) 781007	Northampton. NN6 9PY. E-mail: mail@soiltechnics.n	PROJECT RE	F.		В	OREHOLE No		
					297R		- 1	BH0	_	

CASING DEPTH (m)	WATER (m)	STRATA DESCR	RIPTION	LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
						TYPE AND DEPTH	RESULT	FROM (m)	TO (m)	TYPE
			grey CLAY.		=					
		(LONDC	N CLAY)		-					
4.5	Dry]	SPT	(6)24	14.0	14.45	D
]	14.0-14.45m				
					-					
					-					
]					
					3					
					-					
					=					
					<u>-</u>]					
]					
4.5	Dry				-	SPT	(6)26	16.1	16.55	l _D
4.5	Diy]	16.1-16.55m	(0)20	10.1	10.55	۲
					1	10.1-10.55M				
					-					
]					
					-					
					1					
					=					
					=					
]					
l. <u>-</u>					-					
4.5	Dry]					
					3	SPT	(6)29	18.2	18.65	D
					-	18.2-18.65m				
					1					
		1	OLE TERMINATED \		1					
		AT 20.0i	m \	\	-					
				\	1					
		Note		\	-					
		1. Water	added to assist	\]					
		drilling.		\E-I-I-I-I]					
4.5	Dry	1	vater monitoring	\	20.0			20.0	20.4	U100
		1	e installed to 4.0m.							(38)
DRILLING	_ I	1	GROUNDWATER	<u> </u>	1	I	<u> </u>	L	1	1
DIAMETER	FROM	ТО	DEPTH(S) STRUCK	В	EHAVIOL	JR		DEPTH S	EALED	
150mm	0.0m	20.0m	Approximately 2.8m			v, water being a			4.5m	
F	L REFER TO	L KEY AT	<u>l</u> Beginning of thi	<u> </u>	DIX FC	R EXPLAN	ATION	OF SYMB	OLS	
			BOREHOLE P	RECORD	SHEET	3 OF 3				
				GROUND LE	/EL		CO-	ORDINATES		
	(つ		LOCATION P			DAT	E OF EXCAVATION	N	
				STE1	297R-0	02		27.05.08		
()	II T	FUL	INICS	PROJECT						
• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •		mond-l kenhar	Jpon-Tham n.	ies Col	llege, Eger	ton Roa	ad,
Cedar Bar	n White Lodo	e Walarave	ENTAL CONSULTANTS Northampton. NN6 9PY.							
Tel: (01604) 78	1877 Fax: (01	604) 781007	E-mail: mail@soiltechnics.ne	PROJECT RE	F.		ВО	REHOLE No		
				1	297R			BH06		

KEY TO LEGENDS (Extract from BS 5930;1999 table 11)

SOILS

SEDIMENTARY ROCKS



Topsoil

Made ground

Boulders & Cobbles

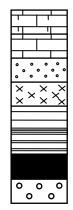
Gravel

Sand

Silt

Clay

Peat/Organic clays



Chalk

Limestone

Sandstone

Siltstone

Mudstone

Shale

Coal

Conglomerate

Note: Composite soil types are signified by combined symbols.

KEY TO TEST RESULTS COLUMN

Type and depth column: Records depth that test was carried out i.e. at 2.1m or between 2.1m and 2.55m.

P or V: in this column records pocket penetrometer (P) or hand held shear vane test (V) carried out on disturbed or undisturbed sample at depth shown with results recorded in the test results column.

SPT / SPT ©: in this column records Standard Penetration Test (SPT)or Standard Penetration Test utilising an end cone (SPT©) carried out.

Result Column: records actual un-corrected test results obtained. For SPT results, seating blows are recorded in brackets before actual "N" value.

KEY TO SAMPLING COLUMNS

From (m) to (m): indicates depth(s) of sampling.

Type: indicates type of sample obtained.

U undisturbed sample

B small bulk disturbed sample

(32) number of blows to W water sample obtain undisturbed sample J jar sample

D disturbed sample

WATER MEASUREMENTS

refer to notes at base of borehole sheet



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STANDARD KEY TO DRIVEN TUBE SAMPLING BOREHOLE RECORDS

STRATA DESCRIPTION (following BS593	80:1999)		LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
,	,					ULT	FROM (m)	TO (m)	TYPE
	itly gravelly sandy TOPS sional roots. Gravel con			0.0			0.1	0.25	D
Brown and light brown, with occasional roots. (slightly gravelly sandy T Gravel consists of flint.	OPSOIL		0.3			0.4	0.55	D
Loose light brown, sligh	tly silty, very clayey, slig	htly gravelly		0.6			0.6	0.8	D
(KEPMTON PARK GRA Medium dense to dense	AVEL) e light brown sandy GRA ft light brown, very sand		000	0.95			1.0	1.5	D
			00000				1.8	2.0	D
			0.0000				2.4	2.6	D
BOREHOLE TERMINA Notes: 1. Unable to exca gravel	TED AT 3.0m avate below 3m due to d	lensity of		3.0					
SAMPLER DIAMETER	GROUNDWATER	SURFAC	 E CORING	 	YNAMIC PROBIN	NG S	 TANDPIPE	INSTAL	I ATION
RANGE 101mm – 68mm	OBSERVATIONS None encountered		NA NA		WITHIN 1.0m DCP01			NA	
REFER TO	O KEY AT BEGINNIN	G OF THIS	ΔΡΡΕΝΙ	DIX EC	DE EXPLANAT	ION O	E SYMBO) S	
THE ENT	DRIVEN TUBE SA								
			GROUND LEV			1	DINATES		
	(S)	-	LOCATION PL	AN ON DR 297R-0			7.05.08	N	
• • • • • • • • • • • • • • • • • • • •	ECHNI	•••••		nond-l cenhar	Jpon-Thames n.	Colle	ge, Egeri	ton Ro	ad,
GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY. Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net			PROJECT REF. BOREHOLE No. STE1297R DTS01)1	

STRATA DESCRIPTION (following BS59	30:1999)	LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING			
, y ====	•			l `´	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
	very clayey slightly silty of the consists of flires. Gravel consists of flires.			0.0						
Loose brown slightly gr (KEMPTON PARK GR.		consists of		0.4	0.4m P	1.0		0.4	0.6	D
flint. (KEMPTON PARK GR.	<u> </u>		1 _	0.8						
Medium dense light bro GRAVEL. Gravel cons (KEMPTON PARK GR.		ded sandy						1.0	1.2	D
			0 0 0 0							
			0°000°00	3.0				2.0	2.2	D
BOREHOLE TERMINA Notes:	ATED AT 3.0m									
 Unable to exc gravel 	avate below 3m due to de	ensity of								
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING		YNAMIC PRO WITHIN 1.0		STA	NDPIPE	INSTAL	LATION
101mm – 68mm	1.1m measured 5 minutes after drilling		No		No			1	None	
REFER T	O KEY AT BEGINNIN	G OF THIS	APPENI	OIX FO	R EXPLAN	ATIO	N OF	SYMBO	DLS	
	DRIVEN TUBE SA		OREHOL GROUND LEV		ORD SHEE		OF 1	ATES		
			GROUND LEV	EL			O-ORDIN	AIES		
			STE1	an on dr. 297R- (XCAVATION	_ <u></u>	
• • • • • • • • • • • • • • • • • • • •	TECHNI IEERS, ENVIRONMENTAL CONSU	• • • • • • •		nond-l cenhan	Jpon-Tham n.	ies C	ollege	e, Egert	on Ro	ad,
Cedar Barn, White Loo Tel: (01604) 781877 Fax: (0	PROJECT REF. STE1297R				BOREHOLE No DTS02					

STRATA DESCRIPTION (following BS593	0:1999)		LEGEND	DEPTH (m)	TEST RESULTS		SAMPLII	IG	
			<u></u> _			RESULT	FROM (r	n) TO (m)	TYPE
Dark grey bituminous-b	ound material.			0.0			0.06	0.2	
Medium dense light bro	wn very sandy CDAVEL	Gravel		0.06 0.2			0.06	0.2	D D
consists of flint.	wii very sandy GRAVEL	Graver	′‱	0.2			0.2	0.4	ا
(MADE GROUND)									
Medium dense light bro	wn and red gravelly SAN	JD Gravel							
consists of brick and flir		ND. Glavel		0.6					
(MADE GROUND)	и.			0.0	0.7m P	0.5	0.7	0.9	D
·	ly gravelly CLAY. Grave	 al consists o	f		0.7111 F	0.5	0.7	0.5	ا
flint.	y gravery OLYTT. Grave	21 001101010	`						
(KEMPTON PARK GRA	AVEL)	_		1.0			1.0	1.4	D
Medium dense light bro	•	Gravel							
consists of flint.	, 0								
KEMPTON PARK GRA	AVEL)		0::::						
	,			1					
			0						
			0						
				1					
			0						
				1					
			0						
				3.0					
BOREHOLE TERMINA	TED AT 3.0m								
Notes:									
	avate below 3m due to d	ensity of							
gravel									
SAMPLER DIAMETER	GROUNDWATER OBSERVATIONS	SURFAC	CE CORING		YNAMIC PRO WITHIN 1.0r		STANDPIF	E INSTAL	LATION
RANGE 101mm – 68mm	None encountered		Yes		DCP02	11		None	
	None encountered				DOI 02			110110	
REFER TO	O KEY AT BEGINNIN	G OF THIS	APPENI	DIX FC	R EXPLAN	ATIO	N OF SYM	BOLS	
	DRIVEN TUBE SA							*	
	_		GROUND LEV		United		O-ORDINATES		
	(5)		LOCATION PL		AWING No		ATE OF EXCAVAT	ION	
				297R-0			27.05.08	ION	
	^				-				
ΓΙΙΛΊ	ECHNI		PROJECT						
3011					Jpon-Tham	es C	ollege, Ege	erton Ro	oad,
			Twick	kenhar	n.				
GEOTECHNICAL ENGIN	EERS, ENVIRONMENTAL CONSI	ULTANTS							
Cedar Barn, White Lodg	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	IN6 9PY.	PY. PROJECT REE BOREHOLE No.						
(, , , , , , , , , , , ,	,		STE1	297R			DTS	S 03	

	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
					TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Loose brown and dark consists of flint and clin (MADE GROUND)	grey sandy GRAVEL. G lker.	Gravel		0.0						
Loose dark grey and da SAND. Gravel consists (MADE GROUND)	ark brown clayey slightly s of brick and ash	gravelly		0.3 0.55				0.3	0.35	J
· , , , , , , , , , , , , , , , , , , ,	lavov eliabtly cilty grave	NIV SAND								
	layey, slightly silty, grave Gravel consists of flint ar	-		0.8 0.81						
Grey concrete recovere	ed as sandy GRAVFI	/ /	1	0.01						
(MADE GROUND) BOREHOLE TERMINA Notes:		/								
Unable to exc.	avate below 0.81m due t	to concrete.								
								I		
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	DE CORING	D	YNAMIC PRC WITHIN 1.0		STA	NDPIPE I	NSTALL	ATION
			CE CORING	D			STA		NSTALL None	ATION
RANGE 101mm – 68mm	OBSERVATIONS None observed O KEY AT BEGINNIN	IG OF THIS	No S APPENI	DIX FO	WITHIN 1.0 No R EXPLAN	m ATIO	N OF	١	lone	ATION
RANGE 101mm – 68mm	OBSERVATIONS None observed	IG OF THIS	No S APPENI	DIX FO	WITHIN 1.0 No R EXPLAN	ATIO	N OF	SYMBC	lone	ATION
RANGE 101mm – 68mm	OBSERVATIONS None observed O KEY AT BEGINNIN	IG OF THIS	NO S APPENI OREHOL GROUND LEV	DIX FO	WITHIN 1.0 No PR EXPLAN	ATIO	N OF DF 1 O-ORDIN	SYMBO	None	ATION
RANGE 101mm – 68mm	OBSERVATIONS None observed O KEY AT BEGINNIN	IG OF THIS	NO S APPENI OREHOL GROUND LEV	DIX FO	WITHIN 1.0 No REXPLAN CORD SHEE	ATIO	N OF DF 1 O-ORDIN	SYMBC	None	ATION
RANGE 101mm – 68mm REFER T	OBSERVATIONS None observed O KEY AT BEGINNIN	IG OF THIS	NO S APPENI OREHOL GROUND LEV LOCATION PL STE1: PROJECT Richn	DIX FO E REC EL AN ON DR 297R-0	WITHIN 1.0 No REXPLAN ORD SHEE AWING NO D2 Jpon-Tham	ATIO	N OF 1 O-ORDIN	SYMBC ATES EXCAVATION 05.08	DLS	

STRATA DESCRIPTION (following BS59)	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
, , , , , , , , , , , , , , , , , , , ,	•				TYPE AND DEPTH	RESULT	=	FROM (m)	TO (m)	TYPE
Loose GRAVEL.			*****	0.0						
(MADE GROUND)		_		0.06				0.2	0.35	D
,	GRAVEL. Gravel consi	ists of		0.18						
clinker.		/	/ IXXXXXX	0.36						
(MADE GROUND)			/ >>>>		0.4m P	2.0				
·	wn and grey, sandy GR	AVEL. /								
Gravel consists of brick	, clinker and flint.	/								
(MADE GROUND)					0.7m P	2.0				
Stiff dark brown, slightly	y silty, very sandy, slightl	y gravelly						0.8	1.0	D
CLAY, becoming stiff or	range, slightly sandy CLA	AY. Gravel								
consists of flint and occ	asional ash.		XXXXX	1.0						
(MADE GROUND)		/								
Medium dense becomir	ng dense orange very gra	avelly	0]						
SAND. Gravel consists	s of flint.									
(KEMPTON PARK GRA	AVEL)									
								1.5	1.7	D
				1						
			O:							
			0							
]						
				}						
								2.5	2.7	D
			0	}						
			0							
SAMPLER DIAMETER	GROUNDWATER	SURFAC	_L · · · · · · · · · · · · · · · · · · ·	1 	I DYNAMIC PR	I OBING	STA	<u>I</u> NDPIPE	INSTAI	Ι Ι ΔΤΙΩΝΙ
RANGE	OBSERVATIONS				WITHIN 1.					
101mm – 68mm	1.55m measured 5		NA	D	CP03a and D	CP03b			NA	
	minutes after drilling									
REFER T	O KEY AT BEGINNIN	G OF THIS	S APPEN	DIX FC	R EXPLAN	NATIC	N OF	SYMB	OLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	ORD SHE	ET 1	OF 2			
			GROUND LEV	EL		C	CO-ORDIN	ATES		
	(c)									
	(\sim)		LOCATION PL	AN ON DR	AWING No	[DATE OF E	XCAVATIO	N	
			STE1	297R-0	02		27.0	05.08		
		0.0	PROJECT							
					la ec T'		II -		4	
JUILI	TECHNI	LJ		nond-l cenhar	Jpon-Than	nes C	ollege	e, Eger	ton Ro	ad,
		• • • • • • • • • • • • • • • • • • • •	I WICI	kennan	II.					
	IEERS, ENVIRONMENTAL CONSU		<u> </u>							
	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc		PROJECT RE				BOREHOL			
, , ,			STE1	297R				DTS)5	

STRATA DESCRIPTION (following BS59)	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING		
					TYPE AND DEPTH R	ESULT	FROM (m)	TO (m)	TYPE
Dense orange very gra (KEMPTON PARK GRA	velly SAND. Gravel cons AVEL)	sists of flint.	0 0 0 0						
BOREHOLE TERMINA	TED AT 4.0m			4.0					
Unable to exca gravel	avate below 4m due to d	ensity of							
	CDOUNDWATER	Louperd				wo l			
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING		YNAMIC PROB WITHIN 1.0m		STANDPIPE	INSTAL	LATION
101mm – 68mm	1.55m measured 5 minutes after drilling	N	lone	С	CP03a and DCF	P03b		None	
REFER T	O KEY AT BEGINNIN	G OF THIS	APPENI	OIX FC	R EXPLANA	TION	OF SYMBO	DLS	
	DRIVEN TUBE SA	MPLER B			ORD SHEET				
	(C)		GROUND LEV	EL		CO	-ORDINATES		
			STE1	AN ON DR 297R- (DA	27.05.08	N	
•••••	SOILTECHNICS	• • • • • • • •		nond-l cenhar	Jpon-Thame n.	s Co	llege, Egert	on Ro	ad,
GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY. Tel: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net		PROJECT REF	<u> </u>		ВС	DREHOLE No			

STRATA DESCRIPTION (following BS593	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
					TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
SAND with many rootle brick. (MADE GROUND)	clayey slightly silty slight ts. Gravel consists of flir	nt, ash and		0.0 0.26	0.3m P	4.0		0.05	0.2	D
(KEMPTON PARK GRA	light brown orange sand	ly CLAY.			0.6m P	2.5		0.5	0.7	D
Loose becoming mediu GRAVEL. Gravel consi (KEMPTON PARK GRA		dy	0 0 0 0	0.85						
			000000					1.5	2.0	D
			000000							
	TED AT 3.0m	ensity of		3.0						
gravel.	GROUNDWATER	SUDEAC	E CORING		OYNAMIC PRO	DINC	I OTA	NDDIDE	INICTAL	LATION
SAMPLER DIAMETER RANGE 101mm – 68mm	OBSERVATIONS 1.34m measured 5		No No	<u> </u>	WITHIN 1.0		SIA	NDPIPE	None	LATION
_ :	minutes after drilling					–				
REFER TO	O KEY AT BEGINNIN							SYMBO	OLS	
	DRIVEN TUBE SA	WIPLEK B	GROUND LEV		JUKU SHE		OF 1	ATES		
	(5)		LOCATION PL			1		XCAVATIO	N	
• • • • • • • • • • • • • • • • • • • •	EERS, ENVIRONMENTAL CONSU	• • • • • • •	PROJECT Richr	297R- nond-l kenhar	Upon-Tham	nes C		05.08 	ton Ro	ead,
Cedar Barn, White Lod	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	N6 9PY.	PROJECT REI				BOREHOL	E No)6	

ntly silty, slightly gravelly consists of flint and ash. sandy gravelly CLAY. G			0.0	TYPE AND DEPTH RES	BULT	FROM (m) 0.05	TO (m) 0.2	TYPE
consists of flint and ash.						0.05	0.2	D
sandy gravelly CLAY. G	Naval	F	ハスト					
AVEL)	aravei		0.35			0.5	0.7	D
	SAND.	0 0	0.9			1.3	1.5	D
		0 0 0				2.3	2.5	D
TED AT 2.0		[-1-1-1-1-1-1	3.0					
.1∟U A1 3.UM								
avate below 3m due to de	ensity of							
	-							
GROUNDWATER OBSERVATIONS	SURFAC	E CORING			NG ST	ANDPIPE	INSTAL	LATION
1.05m measured 5 minutes after drilling		No		No			None	
١	G OF THIS	APPEND	OIX FC	R EXPLANAT	ION OF	SYMB(OLS	
DRIVEN TUBE SA	MPLER B	OREHOL	E REC	ORD SHEET	1 OF 1			
		GROUND LEVE	<u> </u>		CO-ORD	INATES		
(6)	[
		LOCATION PLA				EXCAVATIO 8.05.08	N	
					1			
FERS ENVIRONMENTAL CONSU	• • • • • • •	PROJECT Richm Twick		Jpon-Thames n.	Colleg	ge, Eger	ton Ro	oad,
EERS, ENVIRONMENTAL CONSU ge, Walgrave, Northampton. N. 1604) 781007 E-mail: mail@so	JLTANTS N6 9PY.	Richm	enhan		Colleg		ton Ro	oad,
	AVEL) TED AT 3.0m avate below 3m due to d GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNIN	TED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNING OF THIS	AVEL) AVEL) O O O O O O O O O O O O O	AVEL) O ATED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNING OF THIS APPENDIX FOR DRIVEN TUBE SAMPLER BOREHOLE RECOground Level.	AVEL) 3.0 TED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANAT DRIVEN TUBE SAMPLER BOREHOLE RECORD SHEET	AVEL) 3.0 TED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANATION OF THIS APPENDIX FOR	AVEL) 1.3 2.3 TED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling O KEY AT BEGINNING OF THIS APPENDIX FOR EXPLANATION OF SYMBOL DRIVEN TUBE SAMPLER BOREHOLE RECORD SHEET 1 OF 1 GROUND LEVEL GROUND LEVEL CO-ORDINATES	AVEL) 1.3 1.5 AVEL) 2.3 2.5 TED AT 3.0m avate below 3m due to density of GROUNDWATER OBSERVATIONS 1.05m measured 5 minutes after drilling No No No No No No No No No N

STRATA DESCRIPTION (following BS59	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS		Į.	SAMPLING		
					TYPE AND DEPTH	RESULT	F	FROM (m)	TO (m)	TYPE
gravelly SAND with sor and flint. (MADE GROUND)	slightly clayey slightly sil ne rootlets. Gravel cons m dense light brown ora	ists of ash		0.0			(0.05	0.2	D
gravelly SAND. Gravel (KEMPTON PARK GR.				2.0			,	1.2	1.5	D
BOREHOLE TERMINA	TED AT 2 0m		11111111111	2.0						
Notes: 1. Infiltration test	undertaken - refer to Ap	pendix D.								
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING	1	DYNAMIC PROE WITHIN 1.0n		STAN	IDPIPE	INSTAL	LATION
101mm – 68mm	Standing water level of 1.09m		No		OCP06 approxim			1	None	
REFER T	O KEY AT BEGINNIN	G OF THIS	S APPEN	OIX FO	OR EXPLANA	TIO	N OF S	SYMBO	DLS	
	DRIVEN TUBE SA	MPLER B			CORD SHEE					
	(5)		GROUND LEV		RAWING No.		O-ORDINATE OF EX		N.	
			STE1				28.0		•	
•••••	EERS, ENVIRONMENTAL CONSU	• • • • • • •	PROJECT Richn Twick		Upon-Thame m.	es Co	ollege,	Egert	on Ro	ad,
Cedar Barn, White Lod	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	IN6 9PY.	PROJECT REF			В	OREHOLE	No DTS0	8	

STRATA DESCRIPTION (following BS593	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS		S	AMPLING		
	,					SULT		ROM (m)	TO (m)	TYPE
Bituminous bound mate	erial.			0.0	1					
(MADE GROUND)			*****	0.1						
	red sandy GRAVEL with	occasional		0.1			ا).2	0.4	D
	el consists of brick, flint a						ľ	,. <u> </u>	0.7	۲
limestone.	or consists of brick, fillit a	iiu		0.4						
				0.4			را).5	0.7	
(MADE GROUND)	as along a limbt bassius alia	<u></u>					ا	J.5	0.7	D
_	m dense light brown slig	ntiy ciayey	0							
sandy GRAVEL. Grave			00							
(KEMPTON PARK GRA	AVEL)									
			0							
			0							
			0 0							
			0							
			1 _							
							2	2.0	2.4	D
			"							
			0							
			0							
				3.0						
BOREHOLE TERMINA	TED AT 3.0m			0.0						
Notes:	TED AT 5.0III									
	avete below 2m due to d	anaity of								
	avate below 3m due to d	cusity of								
gravel.	0.001/1.2	T .	<u> </u>	<u> </u>	<u> </u>	1				
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS		E CORING	[DYNAMIC PROBI WITHIN 1.0m	NG	STANI	DPIPE	INSTAL	LATION
101mm – 68mm	1.17m measured 5 minutes after drilling)	es/es		No			ı	None	
REFER TO	O KEY AT BEGINNIN	G OF THIS	APPENI	DIX FO	OR EXPLANA	ΓΙΟΝ	OF S	YMBO	DLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	CORD SHEET	1 01	F 1_			
			GROUND LEV	EL		CO-	ORDINAT	ES		
	(S)	}	LOCATION PL	AN ON DE	RAWING No	DAT	E OF EXC	CAVATIO	N	
				297R-			28.05			
			PROJECT							
(niit	ECHNI								_	
JUIL				nond-l cenhai	Upon-Thames	Col	nege,	⊏gert	on Ro	oaα,
			IWIC	kennai	III.					
	EERS, ENVIRONMENTAL CONSU									
Cedar Barn, White Lod	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	IN6 9PY.	PROJECT REI	F.		ВО	REHOLE I	No		
(1.11.) 10.0// rax. (0	,		STE1	297R				DTS0	9	

STRATA DESCRIPTION (following BS593	80:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
	•••			()	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Bituminous bound mate	erial.		XXXX	0.0						
(MADE GROUND)		_		0.08				0.1	0.3	D
*	y GRAVEL. Gravel cons	sists of flint						J		
brick and limestone.	, 0.0.0.00.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.35				0.35	0.55	D
(MADE GROUND)				0.00	0.4m P	2.5		0.00	0.00	
Stiff brown sandy CLAY	with some roots			0.56	0.1111	0				
(KEMPTON PARK GRA			1 0	0.00						
	m dense light brown ora	nge verv								
sandy GRAVEL. Grave	=	ingo vory						0.8	1.0	D
(KEMPTON PARK GRA								0.0	'.0	
(NEIM FORT / WATER OF B	··· ==/									
			°					1.2	1.7	D
			0					'.2	'-'	
			0							
			0							
								2.0	2.3	D
								2.0	2.0	
			~ ~							
				3.0						
BOREHOLE TERMINA	TED AT 3.0m			0.0						
Notes:	125711 0.0111									
	avate below 3m due to d	ensity of								
gravel.	soloti olli ddo lo d	J.1011, 01								
	GROUNDWATER	CLIDEAG	E CODINO	<u> </u>) DINIO	1 0=:	NDD:SE	 	 ATION
SAMPLER DIAMETER RANGE	OBSERVATIONS	SURFAC	E CORING	' L	DYNAMIC PRO WITHIN 1.0		STA	NDPIPE	INSTALI	LATION
101mm – 68mm	0.87m measured 5 minutes after drilling	\	⁄es		No				None	
REFER TO	O KEY AT BEGINNIN	G OF THIS	APPENI	DIX FC	OR EXPLAN	ATIC	N OF	SYMBO	DLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	CORD SHEE	ET 1	OF 1			
			GROUND LEV	EL		C	CO-ORDIN	ATES		
	(\sim)	}	LOCATION PL	AN ON DR	RAWING No		DATE OF E	XCAVATIO	N	
			STE1	297R-(02		28.0	05.08		
			PROJECT							
(NII T	ECHNI				· · · · · · · · · · · · · · · · · · ·			_		1
JUIL		LJ		nond-l cenhar	Upon-Tham	ies C	ollege	, Egert	on Ro	ad,
			IWICE	veriila!	11.					
	EERS, ENVIRONMENTAL CONSU									
	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc		PROJECT REI				BOREHOL			
	9		STE1	297R				DTS1	0	

STRATA DESCRIPTION (following BS593	30:1999)		LEGEND	DEPTH (m)) TEST RESULTS			SAMPLING		
· -				L	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Grass over dark brown	silty slightly gravelly SAN	ND	XXXX	0.0						
(MADE GROUND)	, , , , ,							0.1	0.2	D
(0.2				0.2	0.3	D
Soft brown candy clight	ly gravelly CLAY. Grave	al consist of		0.2				0.3	0.4	D
		ei corisist oi						0.5	0.4	ا
quartz, sandstone, coal	and brick					l		0.5		
(MADE GROUND)				0.5	0.5-0.6m P	1.5/1.		0.5	0.6	D
-	orange slightly gravelly	sandy			0.6-0.7m P	2.0/2.	0/1.5			
CLAY. Gravel consists	•									
(KEMPTON PARK GRA	AVEL)				0.8-0.9m P	2.0/2.	0/2.0			
								0.9	1.0	D
				1.0						
Medium dense orange l	brown SAND and GRAV	ΈL	J:0:::	1.1						
KEMPTON PARK GRA										
•	brown gravelly silty fine s	SAND						1.3	1.4	D
(KEMPTON PARK GRA		57 (1 1 D						1.0	l	٦
(INLINI TOTAL ANTOTO	AVEL)									
						1			-	_
								1.7	2.5	D
				1.8						
Medium dense orange l	brown SAND and GRAV	EL	0							
(KEMPTON PARK GRA	AVEL)		O							
			:::::::							
			0							
			0							
Stiff grey gravelly CLAY	•		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2.9	2.9m P	2.0/2.	0/1.5	2.9	3.0	D
(KEMPTON PARK GRA	AVEL)		10	3.0						
BOREHOLE TERMINA	TED AT 3.0m									
Notes:										
Unable to exca	avate below 3m due to d	ensity of								
gravel.	avate below oill due to d	Choity Of								
				<u> </u>						
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFA	CE CORING	i	DYNAMIC PRO WITHIN 1.0		STA	NDPIPE	INSTAL	LATION
101mm – 68mm			No		No	VIII	+		None	
10 1111111 - 00111111	Struck at 2m rising to 1.5m in 10mins				INU				140116	
	O KEY AT BEGINNIN	C OE TUI	2 ADDEN			IATIO		CVMD	OI 6	
KEFEK I								STIVIB	OLO	
	DRIVEN TUBE SA	MIPLERE	GROUND LEV		COKD SHE		OF 1	IATES		
			GROUND LEV	LL.		١	O-OKDIN	MILO		
	10.3		L							
	(\sim)		LOCATION PL	AN ON DE	RAWING No		ATE OF I	EXCAVATIO)N	
			STE1	297R-	02		27 .	05.08		
			DDO IECE							
TIIIAJ	ECHNI	((PROJECT							
3011	ГІПИІ				Upon-Than	nes C	ollege	e, Eger	ton Ro	ad,
JUIL		U U	Twick	kenha	m.					
CEUTECHNICAL ENGIN	EERS, ENVIRONMENTAL CONSU	II TANTC								
	EERS, ENVIRONMENIAL CONSC ge, Walgrave, Northampton. N		DDO IEST SE				BOREHO	I E No		
	1604) 781007 E-mail: mail@sc		PROJECT RE	_{F.} 297R			DOKEHU	DTS	14	
			31⊑1	431 K				פום		

STRATA DESCRIPTION (following BS59	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING	i	
					TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Grass over dark brown	sandy SILT			0.0				0.0	0.1	D
(MADE GROUND)			 	0.1						
Orange brown slightly	gravelly silty SAND			3				0.2	0.3	D
(MADE GROUND)				0.35						
Loose brown slightly gr	avelly silty SAND. Grave	el consists c	f 🔆 🔆							
flint, brick and coal								0.5	0.6	D
(MADE GROUND)				1						
				0.7				0.7	0.8	D
Soft light brown very sa	andy CLAY			0.8	0.8-0.9m P	2.0/2.	0/2.5	0.8	0.9	D
(KEMPTON PARK GR	AVEL)			}						
Stiff light brown mottled	d orange slightly gravelly	slightly	::::: <u> </u>							
sandy CLAY					1.1-1.2m P	2.0/2.	0/2.0			
(KEMPTON PARK GR	AVEL)		<u> </u>	1.2						
Medium dense orange	brown clayey SAND and	GRAVEL	<u> </u>	1.3						
(KEMPTON PARK GR	AVEL)			}				1.4	1.5	D
Medium dense orange	and grey silty fine SAND			}						
(KEMPTON PARK GR	= -	_	<u> </u>	1.6						
	brown SAND and GRAV	EL	0	1						
(KEMPTON PARK GR	AVEL)									
,			\sim	1						
				}						
			0							
			0							
				1						
			0	}						
				ļ						
				2.9						
Medium dense orange	brown silty fine SAND		<u> </u>	3.0						
(KEMPTON PARK GR	<u> </u>									
BOREHOLE TERMINA	•									
	able and therefore not po	ssible to								
lexcavate below 3m.	able and incretere net pe	001010 10								
	GROUNDWATER	OUDEAC	T CODING	<u> </u>)		1 0 = 1			1 4 1 0 1 1
SAMPLER DIAMETER RANGE	OBSERVATIONS	SURFAC	CE CORING	i L	OYNAMIC PRO WITHIN 1.0		STA	ANDPIPE	INSTAL	LATION
101mm – 68mm	Struck at 1.8m. Standing		No		DCP09				None	
	water level at 1.8m									
REFER T	O KEY AT BEGINNIN	G OF THIS	APPEN	DIX FO	OR EXPLAN	IATIO	N OF	SYMB	OLS	
	DRIVEN TUBE SA									
	DINIVER TODE 3A	um LLIX D	GROUND LEV		JOIND OHE		O-ORDIN	NATES		
								-		
	161		100175	AN 00: -			ATE ==	EVO=		
			LOCATION PL	AN ON DE 297R-				EXCAVATION	NI	
			31E1	231 K-			<u> </u>	05.08		
Γ	TECHNI	~ ~	PROJECT							
\(())	 		Richr	nond-	Upon-Than	nes C	ollege	e, Eger	ton Ro	ad,
JUIL		UJ		kenhai			J			-
CENTECUNICAL ENGIN	IEEDC ENVIDONMENTAL CONC	II TANTC								
Cedar Barn, White Loc	IEERS, ENVIRONMENTAL CONSL Ige, Walgrave, Northampton. N	IN6 9PY.	PROJECT RE	F		- 1	BOREHO	I F No		
	11604) 781007 E-mail: mail@sc			⊦. 297R			POINEHO	DTS	12	
			SIEI	201 K				פוש		

STRATA DESCRIPTION (following BS59	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
			<u></u> _		TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
	slightly gravelly clayey S glass, sandstone, brick			0.0				0.0	0.1	D D
				0.6				0.5	0.6	D
Loose brown slightly gr (MADE GROUND) Stiff orange light brown (KEMPTON PARK GR.	slightly gravelly slightly s	sandy CLAY	,	0.7	0.7-1.0m P	2.0/2.	0/2.0	0.7 0.8	0.8	D D
Medium dense orange (KEMPTON PARK GR.	brown clayey SAND and AVEL)	GRAVEL	•	1.1 1.35				1.4	1.5	D
GRAVEL (KEMPTON PARK GR. BOREHOLE TERMINA Notes:			000000000000000000000000000000000000000	3.0				1.4		
SAMPLER DIAMETER	GROUNDWATER OBSERVATIONS	SURFAC	I CE CORING	<u> </u>	YNAMIC PRO		STA	<u>I</u> NDPIPE	I INSTAL	<u>I</u> LATION
RANGE 101mm – 68mm	Struck at 2.0m. Standing water level at 2.45m		No		WITHIN 1.0	1111			None	
REFER T	O KEY AT BEGINNIN	I G OF THIS	S APPENI	DIX FC	R EXPLAN	IATIO	N OF	SYMB	OLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	ORD SHE	ET 1 (OF 1			
	(5)		GROUND LEV LOCATION PL STE1					EXCAVATION 15.08	PΝ	
• • • • • • • • • • • • • • • • • • • •	EERS, ENVIRONMENTAL CONSU	• • • • • • •		nond-l cenhar	Jpon-Tham n.	nes C	ollege	e, Eger	ton Ro	ad,
Cedar Barn, White Lod	lge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	IN6 9PY.	PROJECT RE			1	BOREHOL	E No	13	

STRATA DESCRIPTION (following BS593)	0:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
					TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Bituminous bound GRA (MADE GROUND)	VEL			0.0				0.2	0.3	D
organic odour	en sandy CLAY exhibitir	ng slight		0.3	0.5m P	1.0/0.	5/1.0	0.4	0.5	D
(MADE GROUND)				0.7				0.7	0.8	D
(KEMPTON PARK GRA	prown clayey SAND and		0	0.9				0.9	1.0	D
			° 0 0 0 0					1.5	2.0	D
Medium dense grey silty (KEMPTON PARK GRA Medium dense orange b (KEMPTON PARK GRA	AVEL) prown clayey SAND and	GRAVEL	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.9						
BOREHOLE TERMINA Notes: 1. Unable to exca	TED AT 3.0m	ensitv of		5.0						
gravel.										
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING		YNAMIC PRO WITHIN 1.0		STA	NDPIPE	INSTAL	LATION
	Struck at 2.5m. Standing water level at 1.3m		No		No				None	
L REFER T(<u> </u>	G OF THIS	S APPEN	DIX FC	R EXPLAN	IATIO	N OF	SYMBO	DLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	ORD SHE	ET 1 (OF 1			
			GROUND LEV	EL		C	O-ORDIN	ATES		
	(5)		LOCATION PL					EXCAVATION	N	
•••••	EERS, ENVIRONMENTAL CONSU	• • • • • • •	PROJECT Richr	297R-0 mond-l cenhar	Jpon-Than	nes C		05.08 	on Ro	ad,
Cedar Barn, White Lodg	ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@so	N6 9PY.	PROJECT RE	_{F.} 297R		1	BOREHOL	LE No	4	

STRATA DESCRIPTION (following BS593	30:1999)	LEGEND DEPTH (m) TEST RESULTS SAMPLING								
					TYPE AND DEPTH	RESULT	-	FROM (m)	TO (m)	TYPE
	prown slightly clayey slig with some rootlets. Grav			0.0 0.15			(0.05	0.15	D
of limestone. Gravel co (MADE GROUND) Loose brown, sandy GR	RAVEL with occasional o	cobbles		0.3			(0.65	0.85	D
(MADE GROUND)	dark brown, sandy, sligh	ntly gravelly		1.15 1.3	1.2m P	3.5		1.2	1.4	D
Stiff becoming firm brow gravelly CLAY. Gravel		ly, slightly	o		1.4m P	2.5		1.6	1.8	D
(KEMPTON PARK GRA	AVEL)		0		1.8m P	1.0				
Dense light brown orang gravelly SAND. Gravel (KEMPTON PARK GRA		<i>r</i> silty	0	3.0			•	2.2	2.5	D
BOREHOLE TERMINA Notes: 1. Unable to exca gravel.	TED AT 3.0m avate below 3m due to d	ensity of								
SAMPLER DIAMETER	GROUNDWATER	SURFAC	E CORING		YNAMIC PRO		STAN	IDPIPE	I INSTAL	<u>I</u> LATION
RANGE 101mm – 68mm	OBSERVATIONS None observed		No		WITHIN 1.0	ווע		!	None	
REFER T	O KEY AT BEGINNIN	I G OF THIS	S APPENI	OIX FO	R EXPLAN	IATIC	N OF S	SYMBO	DLS	
	DRIVEN TUBE SA									
			GROUND LEV		3		CO-ORDINA	TES		
	(5)		LOCATION PL	an on dr. 297R- (C	DATE OF EX		N	
• • • • • • • • • • • • • • • • • • • •	EERS, ENVIRONMENTAL CONSI	• • • • • • •		nond-l cenhan	Jpon-Tham n.	nes C	ollege,	Egert	on Ro	ad,
Cedar Barn, White Lodg Tel: (01604) 781877 Fax: (03	PROJECT RE				BOREHOLE	No DTS1	5			

STRATA DESCRIPTION (following BS59	ATA DESCRIPTION (following BS5930:1999)				TEST RESULTS			SAMPLING			
			LEGEND	DEPTH (m)	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE	
SAND with some rootle (MADE GROUND)	n slightly clayey slightly g	nt.		0.0 0.1				0.1	0.25	D	
Loose orange and brov SAND. Gravel consists (MADE GROUND)	vn slightly clayey very gra of flint.	avelly		0.3	0.4m P	4.5		0.45	0.65	D	
Very stiff brown, orange	e and dark grey, sandy, Gravel consists of ash,	/	0	0.7	0.6m P	4.5					
Medium dense becomii gravelly SAND. Gravei (KEMPTON PARK GR.	AVEL)	nt brown	0 0	2.5				1.0	1.5	D	
BOREHOLE TERMINA Notes: 1. Unable to exc gravel.	TED AT 2.5m	ensity of									
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING		YNAMIC PRO WITHIN 1.0		STAN	NDPIPE	I INSTALL	ATION	
101mm – 68mm	1.2m measured 5 minutes after drilling	1	NA		OCP11 15m to east	north		1	None		
REFER T	O KEY AT BEGINNIN							SYMBO	DLS		
	DRIVEN TUBE SA		GROUND LEV		OKU SHEE		O-ORDINA	ATES			
• • • • • • • • • • • • • • • • • • • •	(S) [ECHNI	CS	PROJECT Richn	297R-0)2 Jpon-Tham		29.0	5.08, Egert		ad,	
Cedar Barn, White Loo	IEERS, ENVIRONMENTAL CONSL ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	N6 9PY.	PROJECT REF			В	OREHOLE	E No DTS1	6		

TRATA DESCRIPTION (following BS5930:1999)			LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING			
STATA DESCRIPTION (IGNOWING DESCRIPTION)				DEI III (III)	TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE	
Bituminous bound material.			*****	0.0							
(MADE GROUND)				0.1							
Cobbles of red brick recovered a	as sandy GRAVI	EL.		X							
(MADE GROUND)	,	_	XXXX	0.3				0.3	0.5	b	
Medium dense light brown sand	y GRAVEL with	occasional		3							
cobbles of concrete. Gravel con	sists of flint, brid	ck and		0.5				0.5	0.0.7	D	
concrete.]							
(MADE GROUND)				0.7							
Very stiff brown sandy slightly gr	ravelly CLAY	/		}				8.0	1.0	D	
(KEMPTON PARK GRAVEL)		/	0								
Medium dense light brown orang	ge clayey gravel	ly SAND.	 	1.0							
Gravel consists of flint.				1							
(KEMPTON PARK GRAVEL)		/	0								
Medium dense Light brown and	orange very gra	velly SAND									
Gravel consists of flint.				1							
(KEMPTON PARK GRAVEL)				}							
								4 -			
			0					1.7	2.0	D	
				1							
				2.0							
Infiltration test undertak	ken – refer to Ap	pendix D.									
1. Infiltration test undertak	en – refer to Ap	pendix D.									
SAMPLER DIAMETER GROU	JNDWATER		DE CORING	6 6	YNAMIC PRO		STAI	NDPIPE	INSTALI	LATION	
SAMPLER DIAMETER GROUND GRANGE GROUND		SURFAC	DE CORING	6 6	YNAMIC PRO WITHIN 1.0 No		STAI		INSTALL	LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing	JNDWATER ERVATIONS	SURFAC		6 C	WITHIN 1.0		STAI			LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing	JNDWATER ERVATIONS g water level at 1.41m	SURFAC	No		WITHIN 1.0	Om .			None	LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing REFER TO KEY A	JNDWATER ERVATIONS g water level at 1.41m	SURFAC G OF THIS	No S APPEN	DIX FO	WITHIN 1.0 No R EXPLAN	Om IATIOI	N OF		None	LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing REFER TO KEY A	JNDWATER ERVATIONS g water level at 1.41m	SURFAC G OF THIS	No S APPEN	DIX FO	WITHIN 1.0 No R EXPLAN	IATIOI	N OF	SYMBO	None	LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing REFER TO KEY A	JNDWATER ERVATIONS g water level at 1.41m	SURFAC G OF THIS	No S APPEN OREHOL	DIX FO	WITHIN 1.0 No R EXPLAN	IATIOI	N OF :	SYMBO	None	LATION	
SAMPLER DIAMETER GROUND OBSE 101mm – 68mm Standing REFER TO KEY A	JNDWATER ERVATIONS g water level at 1.41m	SURFAC G OF THIS	No S APPEN OREHOL	DIX FO	WITHIN 1.0 No R EXPLAN	IATIOI ET 1 C	N OF S	SYMBO	None	LATION	
SAMPLER DIAMETER GROUND GRANGE OBSE 101mm – 68mm Standing REFER TO KEY A	JNDWATER ERVATIONS g water level at 1.41m	SURFAC G OF THIS	NO APPEN OREHOL GROUND LEV LOCATION PL	DIX FO	WITHIN 1.0 No R EXPLAN ORD SHE	IATIOI ET 1 C	N OF 3	SYMB(None	LATION	
SAMPLER DIAMETER RANGE 101mm – 68mm Standing REFER TO KEY A DRIV	JNDWATER ERVATIONS g water level at 1.41m AT BEGINNING /EN TUBE SA	SURFACE G OF THIS MPLER B	NO S APPEN OREHOL GROUND LEV LOCATION PL STE1 PROJECT Richi	DIX FC LE REC //EL AN ON DR. 297R-C	WITHIN 1.0 No R EXPLAN ORD SHE AWING NO 12	JATIOI ET 1 C	OF 1 D-ORDINA TE OF E: 27.0	SYMBO ATES EXCAVATION 15.08	None DLS		
SAMPLER DIAMETER RANGE OBSE 101mm – 68mm Standing REFER TO KEY A DRIV	JNDWATER ERVATIONS g water level at 1.41m AT BEGINNING /EN TUBE SA IRONMENTAL CONSU ve, Northampton, N.	SURFACE G OF THIS MPLER B ILIANTS N6 9PY.	NO S APPEN OREHOL GROUND LEV LOCATION PL STE1 PROJECT Richi	DIX FC LE REC ZEL AN ON DR. 297R-C mond-C kenhan	WITHIN 1.0 No R EXPLAN ORD SHE AWING NO 12	IATIOI ET 1 C	OF 1 D-ORDINA TE OF E: 27.0	SYMBO ATES EXCAVATION 15.08 , Egert	None DLS		

RATA DESCRIPTION (following BS5930:1999)			LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING				
, , , , , , , , , ,	,			,		SULT		FROM (m)	TO (m)	TYPE		
Bituminous bound mate	arial		XXXX	0.0	 			· · ·	<u> </u>	1		
	51 Iai			al .								
(MADE GROUND)	L. CAND. O			0.03						1		
	ly SAND. Gravel consist	s of ash	/	0.2				0.2	0.4			
and clinker.				1								
(MADE GROUND)				1								
Loose brown and dark	grey clayey slightly grave	elly		1								
SAND with occasional			<u> </u>	0.6				0.6	0.8			
of ash, brick and flint.												
			10									
(MADE GROUND)			0									
=	ım dense light brown and	light grey										
sandy GRAVEL. Grave	el consists of flint.											
(KEMPTON PARK GRA	AVEL)											
			0									
								1.3	1.5			
										1		
										1		
			10°							1		
										1		
			0									
			~									
			0									
								2.7	3.0			
			0 0					2.7	3.0			
				<u> </u>	<u> </u>			<u> </u>		1		
SAMPLER DIAMETER	GROUNDWATER	SURFAC	E CORING	i	DYNAMIC PROBI	NG	STA	NDPIPE	INSTALI	ATION		
RANGE	OBSERVATIONS				WITHIN 1.0m							
101mm – 68mm	2.3m measured 5 minutes		No		No			ı	None			
	after drilling											
REFER T	O KEY AT BEGINNIN	G OF THIS	APPEN	DIX FO	OR EXPLANA	ΓΙΟΝ	l OF	SYMBO	DLS			
	DRIVEN TUBE SA	MPLER B	OREHOL	E RE	CORD SHEET	10	F 2					
			GROUND LEV		. J.13 VIIII	_	-ORDIN	ATES				
	16	Ļ				\perp						
	(つ)		LOCATION PL	AN ON DE	RAWING No	DA ⁻	TE OF E	XCAVATIO	N			
			STE1	297R-	02		28.0	5.08				
			PROJECT									
(VII)	「ECHNI											
<u> </u>					Upon-Thames	Co	llege	, Egert	on Ro	ad,		
JUIL			Twick	kenhai	m.							
CEUTECHNICAL ENGIN	IEERS, ENVIRONMENTAL CONSU	II TANTC										
	IEER), ENVIRONMENIAL CONSU Ige, Walgrave, Northampton. N	ME ODY F	DD0 1507 5-	-		D.	JDENO!	E No				
			PROJECT RE			BC	DREHOL		0			
İ	el: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.ne				STE1297R				DTS18			

STRATA DESCRIPTION (following BS59	30:1999)		LEGEND DEPTH (m) TEST RESULTS SAMPLING			NG			
					L	RESULT	FROM (n		TYPE
Loose becoming medit sandy GRAVEL. Grave (KEMPTON PARK GR.		d light grey	0 0 0 0						
BOREHOLE TERMINA	TED AT 4.0m			4.0					
SAMPLER DIAMETER	GROUNDWATER	SURFAC	E CORING		DYNAMIC PROE		STANDPIF	PE INSTAL	LATION
RANGE 101mm – 68mm	OBSERVATIONS	ļ ,	No		WITHIN 1.0n	n		None	
10 1111111 – 00111111	2.3m measured 5 minutes after drilling	'	10		No			None	
REFER T	O KEY AT BEGINNIN	G OF THIS	APPENI	DIX FC	R EXPLANA	TIOI	N OF SYM	BOLS	
	DRIVEN TUBE SA	MPLER BO	OREHOL	E REC	ORD SHEE	T 2 C	OF 2		
(1117	S ECHNI	-	PROJECT	an on dr 297R-()2	DA	28.05.08		ad
GEOTECHNICAL ENGIN Cedar Barn, White Loo	IEERS, ENVIRONMENTAL CONSU Ige, Walgrave, Northampton. N 1604) 781007 E-mail: mail@sc	ULTANTS ING 9PY.	Twick	enhan	Jpon-Thame n.		OREHOLE No		du,
			STE1	297R			DTS	518	

STRATA DESCRIPTION (following BS59)	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
					TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Bituminous bound mate (MADE GROUND) Loose dark grey sandy ash and clinker. (MADE GROUND) Loose dark grey and br gravelly SAND. Gravel flint and limestone. (MADE GROUND)	erial. GRAVEL. Gravel consist own slightly clayey slight consists of ash, clinker, and grey gravelly SAND.		LEGEND	0.0 0.03 0.2 0.61		RESULT		ļ	0.4 1.0	D D
,		/el		1.2						
	avata halow 3m dua ta d	encity of								
gravel.	avate below 3m due to d	cusity of								
							_			
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	E CORING		YNAMIC PRO WITHIN 1.0		STA	NDPIPE	INSTAL	LATION
101mm – 68mm	None observed		No		No			1	None	
REFER T	O KEY AT BEGINNIN	G OF THIS	S APPENI	DIX FC	R EXPLAN	ATIO	N OF	SYMBO	DLS	
	DRIVEN TUBE SA	MPLER B	OREHOL	E REC	ORD SHE	ET 1 (OF 1			
	(C)		GROUND LEV				O-ORDIN			
				an on dr 297R-(D		EXCAVATION D5.08	N	
$C \cap I \cup I$	ECHNI	11			Jpon-Tham	ies C	ollege	e, Egert	on Ro	ad,
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	Twick	kennan						
GEOTECHNICAL ENGIN Cedar Barn, White Lod	EERS, ENVIRONMENTAL CONSI ge, Walgrave, Northampton. N 1604) 781007 E-mail: mail@s	ULTANTS IN6 9PY.	Twick			E	BOREHOL	.E No		

STRATA DESCRIPTION (following BS5930:	1999)		LEGEND	DEPTH (m)	TEST RESULTS			SAMPLING		
			<u></u>	<u> </u>		ESULT		FROM (m)	TO (m)	TYPE
Bituminous bound materi	ial.			0.0						
(MADE GROUND)	DAVEL Out the second	1		0.03						
Loose dark grey sandy G	RAVEL. Gravel consis	sts of ash								
and clinker.				0.3						
(MADE GROUND)		/						0.4	0.6	D
Loose dark grey slightly of		elly SAND.								
Gravel consists of ash, c	linker, flint and brick.									
(MADE GROUND)								0.7	0.9	D
			*****	1						
			$\stackrel{\times\times\times\times\times}{\bigcirc}$	0.9						
Loose light brown, very c	layey, sandy GRAVEL.	,		1.0						
Gravel consists of flint.										
(KEMPTON PARK GRAV	VEL)	/	0					1.2	1.5	D
Medium dense light brow	n sandy GRAVEL.	•								
Gravel consists of flint.										
(KEMPTON PARK GRAV	VEL)		0							
			°							
								2.1	2.5	D
			10							
			°							
			lo°							
			0							
			0	3.0						
BOREHOLE TERMINAT	FD AT 3 0m			0.0						
Notes:	25 7 (1 0.0m)									
	vate below 3m due to de	ensity of								
	rate below oill due to di	orionly Of								
gravel.	ODOUNDWATER			<u> </u>	<u> </u>		ı		<u> </u>	<u> </u>
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	CE CORING		OYNAMIC PROB WITHIN 1.0m		STA	NDPIPE	INSTAL	LATION
	.0m measured 5 minutes		No		No				None	
5555 70	after drilling	0.05.71.11	ADD=1"		ND EVDLANA	TIO		0)/1.45	21.0	
REFER TO	KEY AT BEGINNING							SYMBO	JLS	
	DRIVEN TUBE SA	IVIFLER B	GROUND LEV		OKD SHEE	-	O-ORDINA	ATES		
			ONOUND LEV				S-OLDIN/	ILO		
	((-1)					\perp				
	しつし		LOCATION PL			DA		XCAVATIO	N	
			STE1	297R-	02		28.0	5.08		
CALLT	FCHALL	C C	PROJECT			'_				
\ (1)	ECHNI			nond.	Upon-Thame	ر د د	ممطالد	Faer	ton Po	ad
JUILI	LUIIII	UJ		riona- cenhar		.5 U	nege	, Lyen	JUI KU	au,
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •		ul						
	GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS									
Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY. el: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.net			PROJECT RE			В	OREHOL			
		STE1297R DTS20								

STRATA DESCRIPTION (following BS593	30:1999)		LEGEND	DEPTH (m)	TEST RESULTS		SAMPLING			
			<u> </u>		TYPE AND DEPTH	RESULT		FROM (m)	TO (m)	TYPE
Bituminous bound mate (MADE GROUND)				0.0 0.03				0.0	0.4	
and clinker. (MADE GROUND)	GRAVEL. Gravel consis	sts of ash		0.2	0.3m P	1.0		0.2	0.4	D
Firm becoming soft dark sandy CLAY, with occas (KEMPTON PARK GRA		own very			0.7m P	0.5		0.6	0.8	D
	•			0.95	0.71111	0.0				
ledium dense becoming dense light brown sandy RAVEL. Gravel consists of flint.			0 0					1.0	1.5	D
			0							
			°							
			0 0							
			0 ° (
			0000							
BOREHOLE TERMINA	TED AT 3.0m			3.0						
Notes: 1. Unable to exca gravel.	avate below 3m due to d	ensity of								
SAMPLER DIAMETER RANGE	GROUNDWATER OBSERVATIONS	SURFAC	I E CORING		I DYNAMIC PRO WITHIN 1.0		STA	<u>I</u> NDPIPE	I INSTALI	ATION
101mm – 68mm	None observed		No		No				None	
REFER TO	O KEY AT BEGINNIN	G OF THIS	APPEN	DIX FC	R EXPLAN	ATIC	N OF	SYMBO	OLS	
	DRIVEN TUBE SA	MPLER B			ORD SHEE					
			GROUND LEV	EL			CO-ORDIN	ATES		
			LOCATION PL	AN ON DR 297R- (XCAVATIO)5.08	N	
• • • • • • • • • • • • • • • • • • • •	ECHNI	• • • • • • •		nond-l cenhar	Upon-Tham n.	es C	ollege	, Egerl	ton Ro	ad,
Cedar Barn, White Lodg	GEOTECHNICAL ENGINEERS, ENVIRONMENTAL CONSULTANTS Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY. I: (01604) 781877 Fax: (01604) 781007 E-mail: mail@soiltechnics.ne						BOREHOL			
			PROJECT REF. STE1297R				DTS21			



Page 1 of 7

Lydia Drew Soiltechnics Cedar Barn White Lodge Walgrave Northampton NN6 9PY

12 June 2008

TEST REPORT

Our Report Number: 08-50996

Your Order Reference: 8983

2 soil samples received on 04/06/2008

Final instructions received on 04/06/2008 (CoC No. 38963)

Project Name: Richmond-upon-Thames College

Project Code: STE1297R

Laboratory analysis started on 04 June 2008
All laboratory analysis completed by 12 June 2008

Sharon Googh

Project Co-Ordinator

ALCONTROL LABORATORIES

Daljit Jandu Project Co-Ordinator

ALCONTROL LABORATORIES

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Results contained herein relate only to the samples tested. Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.





ALcontrol Laboratories Sample Description

Job Number: 08-50996 Client: Soiltechnics Project Code: STE1297R Matrix: Soil Project Name: Richmond-upon-Thames College

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
320381	TP09	0.1-0.2	-	Dark brown sandy clay
320382	TP14	0.4	-	Dark brown sandy clay with vegetation

Job Number : 08-50996

Project Name: Richmond-upon-Thames College
Client : Soiltechnics

Matrix : Soil

Project Code: STE1297R

TP09 Sample Reference **TP14 Method No** Sample Depth (m) 0.1-0.2 0.4 Date Sampled Date Scheduled 04/06/08 04/06/08 320381 Laboratory Reference No 320382 Analysis Moisture Content (Dry Weight) 31.0 13.3 % 0.1 Moisture Content (Wet Weight) 23.6 11.8 % 0.1 4.5 092^{I} 0.2 Organic Matter 5.1 % 092^{IM} 2.9 % Organic Carbon 2.6 0.1

ISO 17025 accredited.

 $^{^{\}scriptscriptstyle{\text{M}}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-50996

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	TP09	TP14				
Sample Depth (m)	0.1-0.2	0.4		Method No	u	_
Date Sampled	-	-		lod I	Units	LOD
Date Scheduled	04/06/08	04/06/08		0		
Laboratory Reference No	320381	320382				
Analysis						
* * PAH SUITE * *						
Naphthalene	0.10	0.15		022S ^{IM}	mg/kg	0.1
Acenaphthylene	< 0.1	0.45		022S ^{IM}	mg/kg	0.1
Acenaphthene	< 0.1	19		022S ^{IM}	mg/kg	0.1
Fluorene	< 0.1	12		022S ^{IM}	mg/kg	0.1
Phenanthrene	0.17	41		022S [™]	mg/kg	0.1
Anthracene	< 0.1	10		022S ^{IM}	mg/kg	0.1
Fluoranthene	0.38	19		022S ^{IM}	mg/kg	0.1
Pyrene	0.34	12		022S ^{IM}	mg/kg	0.1
Benzo(a)anthracene	0.16	2.8		022S ^{IM}	mg/kg	0.1
Chrysene	0.22	2.5		022S ^{IM}	mg/kg	0.1
Benzo(b)fluoranthene	0.21	1.8		022S ^{IM}	mg/kg	0.1
Benzo(k)fluoranthene	< 0.1	0.62		022S ^{IM}	mg/kg	0.1
Benzo(a)pyrene	0.16	1.0		022S ^{IM}	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	< 0.1	0.34		022S ^{IM}	mg/kg	0.1
Dibenzo(a,h)anthracene	< 0.1	< 0.1		022S ^{IM}	mg/kg	0.1
Benzo(g,h,i)perylene	0.12	0.40		022S ^{IM}	mg/kg	0.1
PAH (Sum of EPA 16)	1.86	123.11		022S ^I	mg/kg	1.6

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-50996

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	TP09	TP14			
			Me		
Sample Depth (m)	0.1-0.2	0.4	Method No	Units	LOD
Date Sampled	-	-	g No	เร	0
Date Scheduled	04/06/08	04/06/08	0		
Laboratory Reference No	320381	320382			
Analysis					
* * CWG SUITE * *					
Aliphatic C5-C6	0.02	0.02	CWGS	mg/kg	0.01
Aliphatic >C6-C8	0.01	0.02	CWGS	mg/kg	0.01
Aliphatic >C8-C10	0.05	0.02	CWGS	mg/kg	0.01
Aliphatic >C10-C12	0.13	0.09	CWGS	mg/kg	0.01
Aliphatic >C12-C16	26	28	CWGS ^I	mg/kg	1
Aliphatic >C16-C21	4.2	40	CWGS ^I	mg/kg	1
Aliphatic >C21-C35	9.7	52	CWGS ^I	mg/kg	5
Aromatic C6-C7	< 0.01	< 0.01	CWGS	mg/kg	0.01
Total Aliphatics (C5-C35)	40	120	CWGS	mg/kg	5
Aromatic >C7-C8	< 0.01	< 0.01	CWGS	mg/kg	0.01
Aromatic >C8-C10	0.07	0.04	CWGS	mg/kg	0.01
Aromatic >C10-C12	0.20	0.13	CWGS	mg/kg	0.01
Aromatic >C12-C16	16	140	CWGS ^I	mg/kg	1
Aromatic >C16-C21	3.7	240	CWGS ^I	mg/kg	1
Aromatic >C21-C35	18	220	CWGS ^I	mg/kg	5
Total Aromatics (C5-C35)	38	600	CWGS	mg/kg	5
Volatile Hydrocarbons (C5-C12)	0.48	0.32	CWGS	mg/kg	0.01
Extractable Hydrocarbons (C12-C35)	78	720	CWGS	mg/kg	5
Total Hydrocarbons (C5-C35)	78	720	CWGS	mg/kg	5
MTBE	< 0.010	< 0.010	CWGS™	mg/kg	0.01
Benzene	< 0.010	< 0.010	CWGS™	mg/kg	0.01
Toluene	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
Ethylbenzene	< 0.010	< 0.010	CWGS™	mg/kg	0.01
m,p-Xylenes	< 0.010	< 0.010	CWGS™	mg/kg	0.01
o-Xylene	< 0.010	< 0.010	CWGS™	mg/kg	0.01
1,3,5-Trimethylbenzene	< 0.010	< 0.010	CWGS™	mg/kg	0.01
1,2,4-Trimethylbenzene	< 0.010	< 0.010	CWGS [™]	mg/kg	0.01
1,2,±1111116trly1D61126116	V 0.010	\ 0.010	OVVGS	mg/kg	0.01
			<u> </u>		

ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

ALcontrol Laboratories Table Of Results - Appendix

Job Number : 08-50996

Project Code: STE1297R

Method No.	Reference	Description	
022\$	In-nouse method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
II ('W(:\sigma')	In-house method based on "Total Petroleum Hydrocarbon Criteria Working Group" series, 1998-9	Determination of "CWG" banded petroleum hydrocarbons in soil samples using a combination of headspace GC-FID (C5-C12) and hexane:acetone extraction / silica-alumina aliphatic - aromatic split / GC-FID (C12-C35) techniques with banding by comparison to alkane standards	W
092	In-house method	Determination of organic matter in soil samples by combustion analyser	D

Project Name: Richmond-upon-Thames College

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
\$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
ç	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
а	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones



Page 1 of 12

Lydia Drew Soiltechnics Cedar Barn White Lodge Walgrave Northampton NN6 9PY

17 June 2008

TEST REPORT

Our Report Number: 08-51154

Your Order Reference: 8990

18 soil samples received on 06/06/2008

Final instructions received on 06/06/2008

Project Name: Richmond-upon-Thames College

Project Code: STE1297R

Laboratory analysis started on 06 June 2008
All laboratory analysis completed by 17 June 2008

Sharon Googh

Project Co-Ordinator

ALCONTROL LABORATORIES

Rhys Ashton
Project Co-Ordinator

ALCONTROL LABORATORIES

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ALcontrol Laboratories Sample Description

Job Number: 08-51154 Client: Soiltechnics Project Code: STE1297R Matrix: Soil Project Name: Richmond-upon-Thames College

Laboratory Reference No	Sample Reference	Sample Depth (m)	Date Sampled	Sample Description
321091	DTS10	0.1-0.3	-	Brown sandy clay with gravel
321092	DTS08	1.2-1.5	-	Brown sandy clay with gravel
321093	DTS06	0.05-0.2	-	Dark brown sandy clay with gravel and vegetation
321094	DTS01	0.4-0.55	-	Brown sandy clay with gravel and vegetation
321095	DTS03	0.2-0.4	-	Brown sandy clay with gravel and coal / coke
321096	DTS11	0.9-1.0	-	Brown sandy clay with gravel
321097	DTS16	0.1-0.25	-	Brown sandy clay with gravel and vegetation
321098	DTS12	0.5-0.6	-	Dark brown sandy clay with gravel and coal / coke
321099	DTS13	0.2-0.3	-	Dark brown sandy clay with gravel and coal / coke
321100	DTS05	0.2-0.35	-	Grey & brown sandy clay with gravel and coal / coke
321101	DTS19	0.2-0.4	-	Dark brown sandy clay with gravel and coal / coke
321102	DTS18	0.2-0.4	-	Brown sandy clay with gravel and vegetation
321103	DTS07	2.3-2.5	-	Brown sandy clay with gravel
321104 †	BH03	3.7	-	Grey & brown gravel with sand
321105	BH02	5.4	-	Grey clay
321106	BH03	8	-	Grey clay
321107	BH02	5.2	-	Brown sand with gravel
321108	BH05	9.5	-	Grey clay

Job Number : 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Depth (m) Date Sampled	0.1-0.3	1.2-1.5				=		
Date Sampled	-	1.0	0.05-0.2	0.4-0.55	0.2-0.4	Method No	Units	
		-	-	-	-	od N	its	LOD
Date Scheduled	06/06/08	06/06/08	06/06/08	06/06/08	06/06/08	ō		
Laboratory Reference No	321091	321092	321093	321094	321095			
Analysis								
Moisture Content (Wet Weight)	13.0	8.7	19.6	13.3	23.0		%	0.1
Moisture Content (Dry Weight)	15.0	9.6	24.3	15.3	29.8		%	0.1
Arsenic	13	12	20	11	15	069S [™]	mg/kg	3
Beryllium	3.4	< 0.5	1.2	0.7	0.9	069S [™]	mg/kg	0.5
Cadmium	0.7	< 0.5	0.8	< 0.5	0.5	069S ^{IM}	mg/kg	0.5
Chromium	20	15	23	24	26	069S [™]	mg/kg	10
Lead	130	< 10	300	78	290	069S ^{IM}	mg/kg	10
Mercury	< 0.6	< 0.6	1.7	0.7	< 0.6	069S [™]	mg/kg	0.6
Nickel	15	22	21	12	13	069S [™]	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S [™]	mg/kg	2.5
Sulphate (Total Acid Soluble) as SO4	2800	< 200	700	320	9700	025a [™]	mg/kg	200
W/S Sulphate as SO4	0.72	< 0.02	0.02	0.02	1.5	074 ^{IM}	g/l	0.02
Sulphur (Total)	2400	< 100	540	200	3700	069S	mg/kg	100
Vanadium	55	26	42	37	36	069S ^{IM}	mg/kg	3
Free Cyanide	< 1	< 1	< 1	< 1	< 1	061S [™]	mg/kg	1
Complex Cyanide	2.7	< 1	< 1	< 1	< 1	061S ^I	mg/kg	1
Total Cyanide	3.0	< 1	< 1	< 1	< 1	061S [™]	mg/kg	1
Organic Matter	1.8	< 0.2	8.5	2.6	0.85	092 ¹	%	0.2
Organic Carbon	1.0	< 0.1	4.9	1.5	0.49	092 ^{IM}	%	0.1
рН	10.2	7.5	6.6	6.7	10.1	084S ^{IM}	pH Units	1
Elemental Sulphur	760	< 100	< 100	< 100	< 100	032 ^{IM}	mg/kg	100

ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	DTS11	DTS16	DTS12	DTS13	DTS05	~		
Sample Depth (m)	0.9-1.0	0.1-0.25	0.5-0.6	0.2-0.3	0.2-0.35	Method No	C,	ר
Date Sampled	-	-	-	-	-	od 7	Units	LOD
Date Scheduled	06/06/08	06/06/08	06/06/08	06/06/08	06/06/08	ō		
Laboratory Reference No	321096	321097	321098	321099	321100			
Analysis								
Moisture Content (Wet Weight)	13.1	10.3	20.9	14.0	8.5		%	0.1
Moisture Content (Dry Weight)	15.1	11.5	26.4	16.2	9.3		%	0.1
Arsenic	11	16	20	24	8.8	069S [™]	mg/kg	3
Beryllium	0.8	0.7	1.6	4.4	0.6	069S [™]	mg/kg	0.5
Cadmium	< 0.5	< 0.5	0.7	0.9	< 0.5	069S ^{IM}	mg/kg	0.5
Chromium	27	21	24	34	13	069S ^{IM}	mg/kg	10
Lead	17	84	300	400	75	069S [™]	mg/kg	10
Mercury	< 0.6	< 0.6	0.9	1.9	< 0.6	069S [™]	mg/kg	0.6
Nickel	22	15	23	30	13	069S [™]	mg/kg	4
Selenium	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	069S [™]	mg/kg	2.5
Sulphate (Total Acid Soluble) as SO4	< 200	320	540	540	680	025a [™]	mg/kg	200
W/S Sulphate as SO4	< 0.02	< 0.02	0.03	0.03	0.05	074 [™]	g/l	0.02
Sulphur (Total)	< 100	190	400	580	440	069S	mg/kg	100
Vanadium	43	34	48	58	23	069S [™]	mg/kg	3
Free Cyanide	< 1	< 1	< 1	< 1	< 1	061S [™]	mg/kg	1
Complex Cyanide	< 1	< 1	< 1	< 1	< 1	061S ^I	mg/kg	1
Total Cyanide	< 1	< 1	< 1	< 1	< 1	061S [™]	mg/kg	1
Organic Matter	0.35	1.9	10	8.6	5.8	092 ¹	%	0.2
Organic Carbon	0.20	1.1	5.8	5.0	3.4	092 ^{IM}	%	0.1
рН	6.9	7.1	6.0	7.1	9.1	084S ^{IM}	pH Units	1
Elemental Sulphur	< 100	< 100	< 100	< 100	890	032™	mg/kg	100

ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number: 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	DTS19	DTS18	DTS07	BH03	BH02			
Sample Depth (m)	0.2-0.4	0.2-0.4	2.3-2.5	3.7	5.4	Method No	_	_
Date Sampled	-	-	-	-	-	hod	Units	LOD
Date Scheduled	06/06/08	06/06/08	06/06/08	06/06/08	06/06/08	8		
Laboratory Reference No	321101	321102	321103	321104 †	321105			
Analysis								
Moisture Content (Wet Weight)	19.6	13.6	11.8	6.3	21.3		%	0.1
Moisture Content (Dry Weight)	24.5	15.8	13.4	6.7	27.1		%	0.1
Arsenic	43	21	-	-	-	069S [™]	mg/kg	3
Beryllium	4.8	1.2	-	-	-	069S [™]	mg/kg	0.5
Cadmium	1.4	0.8	-	-	-	069S ^{IM}	mg/kg	0.5
Chromium	37	42	-	-	-	069S ^{IM}	mg/kg	10
Lead	1100	390	-	-	-	069S ^{IM}	mg/kg	10
Mercury	< 0.6	1.3	-	-	-	069S ^{IM}	mg/kg	0.6
Nickel	65	23	-	-	-	069S [™]	mg/kg	4
Selenium	< 2.5	< 2.5	-	-	-	069S [™]	mg/kg	2.5
Sulphate (Total Acid Soluble) as SO4	860	560	< 200	320	500	025a [™]	mg/kg	200
W/S Sulphate as SO4	0.05	0.09	< 0.02	0.10	0.32	074 ^{IM}	g/l	0.02
Sulphur (Total)	900	360	< 100	840	6800	069S	mg/kg	100
Vanadium	100	45	-	-	-	069S [™]	mg/kg	3
Free Cyanide	< 1	< 1	-	-	-	061S [™]	mg/kg	1
Complex Cyanide	< 1	< 1	-	-	-	061S [⊥]	mg/kg	1
Total Cyanide	< 1	< 1	-	-	-	061S [™]	mg/kg	1
Organic Matter	11	5.1	-	-	-	092 ¹	%	0.2
Organic Carbon	6.4	3.0	-	-	-	092™	%	0.1
рН	6.5	5.9	7.5	7.3	7.6	084S [™]	pH Units	1
Elemental Sulphur	< 100	< 100	-	-	-	032™	mg/kg	100

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	BH03	BH02	BH05		_		
Sample Depth (m)	8	5.2	9.5		Method No	_	_
Date Sampled	-	-	-		bor	Units	LOD
Date Scheduled	06/06/08	06/06/08	06/06/08		O		
Laboratory Reference No	321106	321107	321108				
Analysis							
Moisture Content (Wet Weight)	21.1	7.4	21.4			%	0.1
Moisture Content (Dry Weight)	26.7	8.0	27.3			%	0.1
Arsenic	-	-	-		069S [™]	mg/kg	3
Beryllium	-	-	-		069S [™]	mg/kg	0.5
Cadmium	-	-	-		069S [™]	mg/kg	0.5
Chromium	-	ı	ı		069S [™]	mg/kg	10
Lead	-	-	ı		069S [™]	mg/kg	10
Mercury	-	-	-		069S [™]	mg/kg	0.6
Nickel	-	1	1		069S [™]	mg/kg	4
Selenium	-	ı	ı		069S [™]	mg/kg	2.5
Sulphate (Total Acid Soluble) as SO4	350	< 200	390		025a [™]	mg/kg	200
W/S Sulphate as SO4	0.27	0.05	0.28		074 ^{IM}	g/l	0.02
Sulphur (Total)	3600	620	4100		069S	mg/kg	100
Vanadium	-	•	1		069S [™]	mg/kg	3
Free Cyanide	-	ı	1		061S [™]	mg/kg	1
Complex Cyanide	-	-	1		061S ^I	mg/kg	1
Total Cyanide	-	ı	1		061S [™]	mg/kg	1
Organic Matter	-	ı	ı		092 ¹	%	0.2
Organic Carbon	-	-	-		092 ^{IM}	%	0.1
рН	7.7	7.4	7.9		084S [™]	pH Units	1
Elemental Sulphur	-	-	-		032 ^{IM}	mg/kg	100

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Job Number: 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	DTS10	DTS08	DTS06	DTS01	DTS03			
Sample Depth (m)	0.1-0.3	1.2-1.5	0.05-0.2	0.4-0.55	0.2-0.4	Method No	_	_
Date Sampled	-	-	-	-	-	pod	Units	ГОВ
Date Scheduled	06/06/08	06/06/08	06/06/08	06/06/08	06/06/08	O		
Laboratory Reference No	321091	321092	321093	321094	321095			
Analysis								
* * PAH SUITE * *								
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	022S ^{IM}	mg/kg	0.1
Acenaphthylene	0.92	< 0.1	0.20	< 0.1	< 0.1	022S ^{IM}	mg/kg	0.1
Acenaphthene	3.7	< 0.1	< 0.1	< 0.1	0.21	022S ^{IM}	mg/kg	0.1
Fluorene	4.6	< 0.1	< 0.1	< 0.1	0.14	022S ^{IM}	mg/kg	0.1
Phenanthrene	61	< 0.1	0.47	< 0.1	2.0	022S ^{IM}	mg/kg	0.1
Anthracene	18	< 0.1	0.17	< 0.1	0.52	022S ^{IM}	mg/kg	0.1
Fluoranthene	89	< 0.1	1.4	0.21	2.9	022S ^{IM}	mg/kg	0.1
Pyrene	68	< 0.1	1.5	0.18	2.4	022S ^{IM}	mg/kg	0.1
Benzo(a)anthracene	30	< 0.1	0.60	0.10	1.1	022S ^{IM}	mg/kg	0.1
Chrysene	26	< 0.1	0.99	0.12	1.2	022S ^{IM}	mg/kg	0.1
Benzo(b)fluoranthene	23	< 0.1	1.1	0.18	1.5	022S ^{IM}	mg/kg	0.1
Benzo(k)fluoranthene	9.9	< 0.1	0.32	< 0.1	0.56	022S ^{IM}	mg/kg	0.1
Benzo(a)pyrene	18	< 0.1	0.66	0.13	0.97	022S ^{IM}	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	6.4	< 0.1	0.25	< 0.1	0.51	022S ^{IM}	mg/kg	0.1
Dibenzo(a,h)anthracene	1.6	< 0.1	< 0.1	< 0.1	0.13	022S ^{IM}	mg/kg	0.1
Benzo(g,h,i)perylene	6.7	< 0.1	0.31	< 0.1	0.58	022S ^{IM}	mg/kg	0.1
PAH (Sum of EPA 16)	365.66	ND	7.98	ND	14.59	022S ^I	mg/kg	1.6

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

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Job Number : 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

Sample Reference	DTS11	DTS16	DTS12	DTS13	DTS05			
Sample Depth (m)	0.9-1.0	0.1-0.25	0.5-0.6	0.2-0.3	0.2-0.35	Method No	_	_
Date Sampled	-	-	-	-	-	рог	Units	LOD
Date Scheduled	06/06/08	06/06/08	06/06/08	06/06/08	06/06/08	8		
Laboratory Reference No	321096	321097	321098	321099	321100			
Analysis								
* * PAH SUITE * *								
Naphthalene	< 0.1	< 0.1	< 0.1	< 0.1	2.2	022S [™]	mg/kg	0.1
Acenaphthylene	< 0.1	< 0.1	< 0.1	< 0.1	16	022S [™]	mg/kg	0.1
Acenaphthene	< 0.1	< 0.1	< 0.1	< 0.1	23	022S ^{IM}	mg/kg	0.1
Fluorene	< 0.1	< 0.1	< 0.1	< 0.1	24	022S [™]	mg/kg	0.1
Phenanthrene	< 0.1	0.18	0.81	0.77	130	022S ^{IM}	mg/kg	0.1
Anthracene	< 0.1	< 0.1	0.21	0.16	52	022S ^{IM}	mg/kg	0.1
Fluoranthene	< 0.1	0.32	1.5	2.0	200	022S ^{IM}	mg/kg	0.1
Pyrene	< 0.1	0.29	1.3	1.7	150	022S [™]	mg/kg	0.1
Benzo(a)anthracene	< 0.1	0.12	0.64	0.90	68	022S [™]	mg/kg	0.1
Chrysene	< 0.1	0.12	0.71	1.1	64	022S [™]	mg/kg	0.1
Benzo(b)fluoranthene	< 0.1	0.14	0.80	1.5	74	022S [™]	mg/kg	0.1
Benzo(k)fluoranthene	< 0.1	< 0.1	0.29	0.51	28	022S [™]	mg/kg	0.1
Benzo(a)pyrene	< 0.1	0.10	0.72	1.1	58	022S [™]	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	< 0.1	< 0.1	0.32	0.50	26	022S [™]	mg/kg	0.1
Dibenzo(a,h)anthracene	< 0.1	< 0.1	< 0.1	0.12	6.4	022S [™]	mg/kg	0.1
Benzo(g,h,i)perylene	< 0.1	< 0.1	0.34	0.58	26	022S ^{IM}	mg/kg	0.1
PAH (Sum of EPA 16)	ND	ND	7.72	10.88	940.56	022S ^I	mg/kg	1.6

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51154

Matrix : Soil

Project Code: STE1297R

Project Name: Richmond-upon-Thames College

			Ī			
Sample Reference	DTS19	DTS18		_		
Sample Depth (m)	0.2-0.4	0.2-0.4		Method No	_	_
Date Sampled	-	-		lod	Units	ГОД
Date Scheduled	06/06/08	06/06/08		O		
Laboratory Reference No	321101	321102				
Analysis						
* * PAH SUITE * *						
Naphthalene	< 0.1	< 0.1		022S ^{IM}	mg/kg	0.1
Acenaphthylene	< 0.1	< 0.1		022S ^{IM}	mg/kg	0.1
Acenaphthene	< 0.1	0.17		022S ^{IM}	mg/kg	0.1
Fluorene	< 0.1	0.10		022S ^{IM}	mg/kg	0.1
Phenanthrene	0.51	1.7		022S ^{IM}	mg/kg	0.1
Anthracene	< 0.1	0.36		022S ^{IM}	mg/kg	0.1
Fluoranthene	1.3	2.5		022S [™]	mg/kg	0.1
Pyrene	1.3	2.3		022S ^{IM}	mg/kg	0.1
Benzo(a)anthracene	0.61	1.0		022S [™]	mg/kg	0.1
Chrysene	0.75	1.3		022S ^{IM}	mg/kg	0.1
Benzo(b)fluoranthene	0.80	1.3		022S [™]	mg/kg	0.1
Benzo(k)fluoranthene	0.29	0.49		022S ^{IM}	mg/kg	0.1
Benzo(a)pyrene	0.61	0.98		022S ^{IM}	mg/kg	0.1
Indeno(1,2,3-cd)pyrene	0.34	0.43		022S ^{IM}	mg/kg	0.1
Dibenzo(a,h)anthracene	< 0.1	0.10		022S ^{IM}	mg/kg	0.1
Benzo(g,h,i)perylene	0.41	0.51		022S ^{IM}	mg/kg	0.1
PAH (Sum of EPA 16)	6.91	13.32		022S ^I	mg/kg	1.6

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

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ALcontrol Laboratories Table Of Results - Appendix

Job Number : 08-51154

Project Code: STE1297R

Project Name: Richmond-upon-Thames College Client : Soiltechnics

Summary of methods contained within report:

Cammary	of methods contained within report.		1
Method No.	Reference	Description	t/Dry ilysis
061S	In-house method based on Method 4500-CN, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of cyanides and thiocyanate in soil samples by continuous flow colorimetry (Skalar)	W
0228	In-house method	Determination of PAH compounds in soil samples by hexane / acetone extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	W
	In-house method referencing BS1377: Part 3: 1990 and Second Site Property: Environmental Assessment Guidance Version 3: March 2003	Determination of pH by addition of water followed by electrometric measurement	D
074	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of 2:1 water soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
0698	In-house method based on MEWAM "Methods for the Determination of Metals in Soil", HMSO, 1986	Determination of metals in soil samples by aqua-regia digestion followed by ICP- OES detection	D
032	In-house method	Determination of elemental sulphur (with simultaneous PAH screening) by dichloromethane extraction followed by HPLC-UV detection	D
025a	In-house method based on BS1377 Part 3, "Chemical and Electrochemical Tests", 1990	Determination of hydrochloric acid soluble sulphate in soil samples by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES)	D
092	In-house method	Determination of organic matter in soil samples by combustion analyser	D

Soil results are expressed on a dry weight basis. Where the test uses as-received sample, a moisture correction factor is applied to the wet weight result. This factor is determined gravimetrically using weight loss on drying at 30° (+/-5) C.

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
\$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
ç	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
п	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones



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Page 1 of 7

Lydia Drew Soiltechnics Cedar Barn White Lodge Walgrave Northampton NN6 9PY

08 July 2008

TEST REPORT

Our Report Number: 08-51972

Your Order Reference: 9054

6 water samples received on 27/06/2008

Final instructions received on 27/06/2008 (CoC No. 41242)

Project Name: Richmond- Upon- Thames College

Project Code: STE1297R

Laboratory analysis started on 27 June 2008
All laboratory analysis completed by 08 July 2008

Rexona Rahman

Analytical Reporting Manager

ALCONTROL LABORATORIES

Sharon Googh
Project So-Ordinator

ALCONTROL LABORATORIES

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Results contained herein relate only to the samples tested. Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests (if applicable) are identified on each page. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.



Job Number : 08-51972

Matrix: Water

Project Code: STE1297R

Project Name: Richmond- Upon- Thames College

Sample Reference	BH01	BH02	BH03	BH04	BH05			
Sample Depth (m)	-	-	-	-	-	Meti	_	_
Date Sampled	-	-	-	-	-	Method No	Units	LOD
Date Scheduled	27/06/08	27/06/08	27/06/08	27/06/08	27/06/08	o N		
Laboratory Reference No	324614	324615	324616	324617	324618			
Analysis								
Arsenic (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Barium (Dissolved)	0.035	0.045	0.044	0.062	0.045	080W [™]	mg/l	0.005
Beryllium (Dissolved)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	080W [™]	mg/l	0.001
Boron (Dissolved)	0.30	0.48	0.14	0.23	0.072	080W [™]	mg/l	0.005
Cadmium (Dissolved)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	080W [™]	mg/l	0.001
Chromium (Dissolved)	0.007	0.006	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Copper (Dissolved)	0.006	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Lead (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Magnesium (Dissolved)	-	14	-	-	-	062W [⊥]	mg/l	0.1
Mercury (Dissolved)	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	080W [™]	mg/l	0.00005
Nickel (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Selenium (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Vanadium (Dissolved)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Zinc (Dissolved)	0.010	0.007	< 0.005	< 0.005	< 0.005	080W [™]	mg/l	0.005
Ammoniacal Nitrogen as NH4	-	0.13	-	-	-	057W [⊥]	mg/l	0.065
Ammoniacal Nitrogen as N	-	0.10	-	-	-	057W [⊥]	mg/l	0.05
Free Cyanide	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	061W ^I	mg/l	0.02
Total Cyanide	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	061W [⊥]	mg/l	0.02
Nitrate as N	5.5	2.4	2.7	< 0.5	< 0.5	086W ^I	mg/l	0.5
рН	7.3	7.1	7.2	7.2	7.0	084W ^I	pH Units	1
Sulphide	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	055W ^I	mg/l	0.05
Sulphate as SO4	40	79	66	300	18	086W ^I	mg/l	10

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51972

Matrix: Water

Project Code: STE1297R

Project Name: Richmond- Upon- Thames College

Sample Reference	ВН06					
Sample Depth (m)	-			Meth	_	_
Date Sampled	-			Method No	Units	ГОВ
Date Scheduled	27/06/08			O		
Laboratory Reference No	324619					
Analysis						
Arsenic (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Barium (Dissolved)	0.075			080W ^I	mg/l	0.005
Beryllium (Dissolved)	< 0.001			080W ^I	mg/l	0.001
Boron (Dissolved)	0.30			080W ^I	mg/l	0.005
Cadmium (Dissolved)	< 0.001			080W ^I	mg/l	0.001
Chromium (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Copper (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Lead (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Magnesium (Dissolved)	11			062W ^I	mg/l	0.1
Mercury (Dissolved)	< 0.00005			080W ^I	mg/l	0.00005
Nickel (Dissolved)	0.007			080W ^I	mg/l	0.005
Selenium (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Vanadium (Dissolved)	< 0.005			080W ^I	mg/l	0.005
Zinc (Dissolved)	0.006			080W [™]	mg/l	0.005
Ammoniacal Nitrogen as NH4	0.22			057W ^I	mg/l	0.065
Ammoniacal Nitrogen as N	0.17			057W ^I	mg/l	0.05
Free Cyanide	< 0.02			061W ^I	mg/l	0.02
Total Cyanide	< 0.02			061W ^I	mg/l	0.02
Nitrate as N	2.9			086W ^I	mg/l	0.5
рН	7.3			084W ^I	pH Units	1
Sulphide	< 0.05			055W ^I	mg/l	0.05
Sulphate as SO4	180			086W ^I	mg/l	10

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51972

Matrix: Water

Project Code: STE1297R

Project Name: Richmond- Upon- Thames College

-							
_	-	-		_	Met	_	
					Method No	Units	ГОВ
27/06/08	27/06/08	27/06/08	27/06/08	27/06/08	No	v	
021011	021010	021010	021017	021010			
< 0.0001	< 0.0001	< 0.0001	0.0012	< 0.0001	022W ^I	ma/l	0.0001
							0.0001
							0.0001
							0.0001
< 0.0001		< 0.0001	0.0012	< 0.0001	022W ^I		0.0001
< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	022W ^I		0.0001
< 0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	0.0002	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	022W ^I	mg/l	0.0001
ND	ND	ND	0.0051	ND	022W ^I	mg/l	0.0001
	< 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001	324614 324615 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001	324614 324615 324616 < 0.0001	324614 324615 324616 324617 < 0.0001	324614 324615 324616 324617 324618 < 0.0001	27/06/08 27/06/08	324614 324615 324616 324617 324618 324614 324615 324616 324617 324618 324618 324614 324615 324616 324617 324618 3

ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

Job Number : 08-51972

Matrix: Water

Project Code: STE1297R

Project Name: Richmond- Upon- Thames College

		l				
Sample Reference	вно6					
Sample Depth (m)	-			Method No	_	_
Date Sampled	-			l por	Units	ГОВ
Date Scheduled	27/06/08			o N		
Laboratory Reference No	324619					
Analysis						
* * PAH SUITE * *						
Naphthalene	< 0.0001			022W ^I	mg/l	0.0001
Acenaphthylene	< 0.0001			022W ^I	mg/l	0.0001
Acenaphthene	< 0.0001			022W ^I	mg/l	0.0001
Fluorene	< 0.0001			022W ^I	mg/l	0.0001
Phenanthrene	< 0.0001			022W ^I	mg/l	0.0001
Anthracene	< 0.0001			022W ^I	mg/l	0.0001
Fluoranthene	< 0.0001			022W ^I	mg/l	0.0001
Pyrene	< 0.0001			022W ^I	mg/l	0.0001
Benzo(a)anthracene	< 0.0001			022W ^I	mg/l	0.0001
Chrysene	< 0.0001			022W ^I	mg/l	0.0001
Benzo(b)fluoranthene	< 0.0001			022W ^I	mg/l	0.0001
Benzo(k)fluoranthene	< 0.0001			022W ^I	mg/l	0.0001
Benzo(a)pyrene	< 0.0001			022W ^I	mg/l	0.0001
Indeno(1,2,3-cd)pyrene	< 0.0001			022W ^I	mg/l	0.0001
Dibenzo(a,h)anthracene	< 0.0001			022W ^I	mg/l	0.0001
Benzo(g,h,i)perylene	< 0.0001			022W ^I	mg/l	0.0001
PAH (Sum of EPA 16)	ND			022W ^I	mg/l	0.0001
			<u> </u>			

 $^{^{\}scriptscriptstyle \rm I}$ ISO 17025 accredited.

 $^{^{\}mbox{\tiny M}}$ MCERTS accredited for sand, loam and clay.

ALcontrol Laboratories Table Of Results - Appendix

Job Number : 08-51972

Project Code: STE1297R

Project Name: Richmond- Upon- Thames College Client : Soiltechnics

Summary of methods contained within report:

) Vs
Method No.	Reference	Description	/Dry lysis
086W	In-house method	Determination of anion content in aqueous samples using ion chromatographic determination with electrical conductivity detector	
084W	In-house method	Determination of pH in aqueous samples by direct electrometric measurement	
080W	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric acid digestion followed by Inductively Coupled Plasma - Mass Spectrometry detection (ICP-MS)	
062W	In-house method based on MEWAM "Inductively Coupled Plasma Spectrometry", HMSO, 1996	Determination of metals in aqueous samples by nitric digestion followed by ICP-OES detection	
061W	In-house method based on Method 4500-CN, "Standard Methods for the Examination of Water and Waste Water", APHA AWWA WEF, Edition 18, 1992	Determination of cyanides and thiocyanate in aqueous samples by continuous flow colorimetry (Skalar)	
11 (15/W	In-house method based on Method 18.13 "Environmental Assessment Guidance" Version 3, Second Site Property, March 2003	Determination of ammoniacal nitrogen in aqueous samples by ion selective electrode	
055W	In-house method based on MEWAM "Sulphide in Waters and Effluents", HMSO, 1983	Determination of sulphide in aqueous samples by direct colourimetry	
022W	In-house method	Determination of PAH compounds in aqueous samples by pentane extraction followed by GC-MS detection [Note: this method does not separate benzo(j)fluoranthene, and this PAH will be included in the sum of benzo(b)fluoranthene & benzo(k)fluoranthene]	

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
\$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
ç	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
п	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones



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Page 1 of 5

Lydia Drew Soiltechnics Cedar Barn White Lodge Walgrave Northampton NN6 9PY

19 June 2008

TEST REPORT

Our Report Number: 08-51146

Your Order Reference: 8991

2 soil samples submitted for analysis on 06/06/2008

Project Name: Richmond- Upon- Thames College

Project Code: STE1297R

Laboratory analysis started on 06/06/2008

All laboratory analysis completed by 19 June 2008

Rexona Rahman

Analytical Reporting Manager

ALCONTROL LABORATORIES

Sharon Googh
Project Co-Ordinator
ALCONTROL LABORATORIES

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Test methods are documented in house procedures or where appropriate standard methods. Non accredited tests are identified in the appendix. Procedures for sampling are outside the scope of the laboratory UKAS accreditation. Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation. All samples connected with this report, including any 'on hold', will be stored and disposed of according to company policy. A copy of this policy is available on request.

TEST REPORT

WAC ANALYTICAL RESULTS

Our Report No: 08-51146

Your Order No: 8991 CLIENT: Soiltechnics

2 soil samples submitted for analysis on 06 June 2008

DATE OF ISSUE: 19 June 2008

Lab Reference		321	071		Landfill Was	ste Acceptance C	riteria Limits	
Sampling Date			_			Stable Non-reactive	Hozordono	
Sample ID		Bu	lk 1		Inert Waste Landfill	Hazardous Waste in Non-	Hazardous Waste Landfill	
Sample Depth (m)			-		Lanuini	Hazardous Landfill	waste Landiii	
Solid Waste Analysis								
092 Total Organic Carbon (%)	0.53				3	5	6	
019 Loss on Ignition (%)	3.4				_	-	10	
071 Sum of BTEX (mg/kg)	<0.15				6	-	-	
039 Sum of 7 PCBs (mg/kg)	<0.014				1	-	-	
065 Mineral Oil (mg/kg)	< 25				500	-	-	
022 PAH Sum of 17 (mg/kg)	<1.7				100	-	-	
084 pH (pH Units)	7.8				-	>6	-	
096 ANC to pH 6 (mol/kg)	< 0.10				-	to be evaluated	to be evaluated	
096 ANC to pH 4 (mol/kg)	< 0.10				_	to be evaluated	to be evaluated	
	2:1	8:1	2:1	Cumulative	Limit values f	or compliance leach	ing toot using	
Eluate Analysis		_		10:1		2457-3 at L/S 10 l/kg		
		g/l		/kg				
080 Arsenic	< 0.005	< 0.005	< 0.010	< 0.050	0.5	2	25	
080 Barium	0.013	0.006	0.025	0.065	20	100	300	
080 Cadmium	< 0.001	< 0.001	< 0.002	< 0.010	0.04	1	5	
080 Chromium	< 0.005	< 0.005	< 0.010	< 0.050	0.5	10	70	
080 Copper	< 0.005	< 0.005	< 0.010	< 0.050	2	50	100	
080 Mercury	< 0.00005	< 0.00005	< 0.00010	< 0.00050	0.01	0.2	2	
080 Molybdenum	0.029	0.010	0.058	0.11	0.5	10	30	
080 Nickel	< 0.005	< 0.005	< 0.010	< 0.050	0.4	10	40	
080 Lead	< 0.005	< 0.005	< 0.010	< 0.050	0.5	10	50	
080 Antimony	0.002	< 0.001	0.003	< 0.010	0.06	0.7	5	
080 Selenium	< 0.005	< 0.005	< 0.010	< 0.050	0.1	0.5	7	
080 Zinc	< 0.005	< 0.005	< 0.010	< 0.050	4	50	200	
086 Chloride	< 10	< 10	< 20	< 100	800	15000	25000	
086 Fluoride	0.83	0.45	1.7	4.7	10	150	500	
086 Sulphate as SO ₄	36	< 10	71	< 100	1000	20000	50000	
029 Total Dissolved Solids	-	-	-	-	4000	60000	100000	
020 Phenol Index	< 0.01	< 0.01	< 0.02	< 0.1	1	-	-	
010 Dissolved Organic Carbon	7.8	6.80	16	69	500	800	1000	
Leach Test Information								
084 pH (pH Units)	7.6	7.4						
084 Conductivity (μS/cm)	222	131						
078 Temperature (°C)	18.0	18.0						
021 Mass Sample (kg)	0.150							
021 Dry Matter (kg)	0.12							
021 Moisture (% Dry Weight)	20.3							
Stage 1								
078 Volume Leachant, L ₂ (I)	0.224							
078 Filtered Eluate Volume, VE ₁ (I)	0.070							
Stage 2								
078 Volume Leachant, L ₈ (I)	0.997							
Results are expressed on a dry weigh		erroction for me	icture content	whore applicab	lo			

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ALcontrol cannot be held responsible for any discrepencies with current legislation

TEST REPORT

WAC ANALYTICAL RESULTS

Our Report No: 08-51146

Your Order No: 8991 CLIENT: Soiltechnics

2 soil samples submitted for analysis on 06 June 2008

DATE OF ISSUE: 19 June 2008

Project Name: Richmond- Upon- Tha	<u>mes College</u>						<u>de: STE1297R</u>	
Lab Reference		321	072		Landfill Waste Acceptance Criteria Limit			
Sampling Date			-		Inert Waste	Stable Non-reactive	Hazardous	
Sample ID		Bu	lk 2		Landfill	Hazardous Waste in Non-	Waste Landfill	
Sample Depth (m)			•		Landini	Hazardous Landfill	Waste Landini	
Solid Waste Analysis								
092 Total Organic Carbon (%)	< 0.1				3	5	6	
019 Loss on Ignition (%)	1.4				-	-	10	
071 Sum of BTEX (mg/kg)	<0.15				6	-	-	
039 Sum of 7 PCBs (mg/kg)	< 0.014				1	-	-	
065 Mineral Oil (mg/kg)	< 25				500	-	-	
022 PAH Sum of 17 (mg/kg)	<1.7				100	-	-	
084 pH (pH Units)	7.2				-	>6	-	
096 ANC to pH 6 (mol/kg)	< 0.10				-	to be evaluated	to be evaluated	
096 ANC to pH 4 (mol/kg)	< 0.10				-	to be evaluated	to be evaluated	
•	2:1	8:1	2:1	Cumulative	Limit values t	for compliance leach	ing toot using	
Eluate Analysis				10:1		12457-3 at L/S 10 I/kg		
		g/l		/kg			· · · · ·	
080 Arsenic	< 0.005	< 0.005	< 0.010	< 0.050	0.5	2	25	
080 Barium	0.014	0.005	0.027	0.059	20	100	300	
080 Cadmium	< 0.001	< 0.001	< 0.002	< 0.010	0.04	1	5	
080 Chromium	< 0.005	< 0.005	< 0.010	< 0.050	0.5	10	70	
080 Copper	< 0.005	< 0.005	< 0.010	< 0.050	2	50	100	
080 Mercury	< 0.00005	< 0.00005	< 0.00010	< 0.00050	0.01	0.2	2	
080 Molybdenum	< 0.005	< 0.005	< 0.010	< 0.050	0.5	10	30	
080 Nickel	< 0.005	< 0.005	< 0.010	< 0.050	0.4	10	40	
080 Lead	< 0.005	< 0.005	< 0.010	< 0.050	0.5	10	50	
080 Antimony	< 0.001	< 0.001	< 0.002	< 0.010	0.06	0.7	5	
080 Selenium	< 0.005	< 0.005	< 0.010	< 0.050	0.1	0.5	7	
080 Zinc	< 0.005	< 0.005	< 0.010	< 0.050	4	50	200	
086 Chloride	< 10	< 10	< 20	< 100	800	15000	25000	
086 Fluoride	0.9	0.54	1.8	5.6	10	150	500	
086 Sulphate as SO ₄	32	< 10	64	< 100	1000	20000	50000	
029 Total Dissolved Solids	-	-	-	-	4000	60000	100000	
020 Phenol Index	< 0.01	< 0.01	< 0.02	< 0.1	1	-	-	
010 Dissolved Organic Carbon	6	5.60	12	56	500	800	1000	
Leach Test Information								
084 pH (pH Units)	7.4	6.8						
084 Conductivity (μS/cm)	247	104						
078 Temperature (°C)	18.0	18.0						
021 Mass Sample (kg)	0.150							
021 Dry Matter (kg)	0.14							
021 Moisture (% Dry Weight)	9.4							
Stage 1								
078 Volume Leachant, L ₂ (I)	0.261							
078 Filtered Eluate Volume, VE ₁ (I)	0.076							
Stage 2								
078 Volume Leachant, L ₈ (I)	1.100							
Results are expressed on a dry weigh		orrection for mo	isture content	where applicab	le			

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Stated limits are for guidance only and ALcontrol cannot be held responsible for any discrepencies with current legislation

Waste Acceptance Method Appendix

Our Report No: 08-51146

Your Order No: 8991

CLIENT: Soiltechnics

DATE OF ISSUE: 19 June 2008

Project Name: Richmond- Upon- Thames College

Project Code: STE1297R

Method Reference / Parameter	Extraction Summary	Detection Technique	ISO17025 Accredited?
Solid Waste Analysis			
092 Total Organic Carbon		Carbon Analyser	✓
019 Loss on Ignition	Oven heated at 450°C	Gravimetry	✓
071 Sum of BTEX	Headspace	GC-MS	
Benzene			✓
Toluene			✓
Ethylbenzene			✓
m,p-Xylenes			✓
o-Xylene			✓
039 Sum of 7 PCBs	Hexane / acetone	GC-MS	
PCB Congener 28			✓
PCB Congener 52			✓
PCB Congener 101			✓
PCB Congener 118			✓
PCB Congener 138			✓
PCB Congener 153			✓
PCB Congener 180			✓
065 Mineral Oil (C ₈ -C ₄₀)	Hexane / acetone with silica / alumina clean-up	GC-FID	×
022 PAH (Sum of 17 listed)	Hexane / acetone	GC-MS	
Naphthalene			✓
Acenaphthylene			✓
Acenaphthene			✓
Fluorene			✓
Phenanthrene			√
Anthracene			✓
Fluoranthene			✓
Pyrene			√
Benzo (a) anthracene			<u> </u>
Chrysene			√
Benzo (b) fluoranthene			· ·
Benzo (k) fluoranthene			· ·
Benzo (a) pyrene			'
Indeno (1,2,3-cd) pyrene			· ·
			→
Dibenzo (a,h) anthracene			V ✓
Benzo (g,h,i) perylene			V ✓
Coronene	Material dell's a	Detection and in	
084 pH	Water addition	Potentiometric	√
096 Acid Neutralisation Capacity (ANC)	Water addition	Titration	×
021 Moisture Content	Dried at 105 (+/-5) °C	Gravimetry	•
Leachate Analysis†			
078 Leachate Preparation	In accordance with BS EN 12457-3	-	×
080 Metals	Nitric acidification	ICP-MS	✓
086 Chloride	-	Ion chromatography	✓
086 Fluoride	-	lon chromatography	√
086 Sulphate	-	lon chromatography	√
029 Total Dissolved Solids	Evaporation	Gravimetry	✓
020 Monohydric Phenols (Phenol Index)	-	HPLC - electrochemical detection	✓
010 Dissolved Organic Carbon	Persulphate oxidation	Infra-red detection	· ✓
084 pH		pH meter	<u> </u>
		less streets	

ALcontrol Technichem Page 4 of 5

Appendix

Code	Description
On Results	
*	Detection limit(s) raised due to matrix interference
¥	Detection limit(s) raised due to reduced amount of sample available for analysis
‡	Dilution factor applied due to nature of sample
NAD	No asbestos detected
\$	Analysis sub-contracted
U/S	Analysis unsuitable for sample due to its matrix or properties
I/S	Insufficient sample
M/S	Sample cannot be located within the laboratory
ND	Not detected (below relevant analytical detection limit)
Ç	Sample filtered prior to analysis
§	Please note product present, therefore this result is for indicative purpose only
On the Sample Numbers	
†	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
¢	Unsuitable for analysis due to asbestos content
General Statements	
æ	Please note TOC's & LOI's have been repeated and the apparently anomalous results confirmed
¶	UKAS and/or MCERTS accreditation removed due to duration of sample in laboratory prior to testing
п	The BOD analysis was carried out prior to the COD analysis and included an oily layer, which is the likely cause of the anomalous results
Note:	Analysis carried out for organic compounds on water samples containing free product is on a "best endeavour" basis
Note:	All results calculated from organic carbon on a dry weight basis
Note:	Fe(II) and dissolved Fe are analysed by different methods, sometimes leading to slight discrepancy between results
Note:	"Total" results calculated by summing individual components are not rounded
Note:	The reporting limit stated in the LOD column is the standard method reporting limit, derived statistically from validation data, however it is occasionally necessary to raise reporting limits due to matrix interference or limited sample availability
Note:	During soil preparation, best efforts are made to produce analytical subsamples representative of the entire submitted sample, without exclusion of stones

Table Comparing Cumulative Compound Concentrations with Hazardous Waste Threshold Values

Category of danger		<u>Irritant</u>	<u>Harmful</u>	Tox	<u>cic</u>	Carcin	ogenic	Toxic for re	production	Muta	igenic_	<u> </u>	cotoxic	
Diels Bhases		Vi	Va	T+	т	Carc Cat 1	Cava Cat 2	Repr Cat 1	Barr Cat 2	Musta Cat 2	Muta Cat 2	∑N : R50-53/0.25 +∑N : R51-53/2.5 +∑N : R52-53/25		∑N: 50-53 +∑N: 51-53 +∑N: 52-54 +∑N: R53
Risk Phrase Contaminant	Highest	Xi H4	Xn H5	H6	H6	or 2 H7	Carc Cat 3 H7	or 2 H10	H10	Muta Cat 2 H11	Muta Cat 3 H11	H14	H14	H14
	concentration	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)			
<u>Metals</u>														
Arsenic	43.00			0.0057	0.0066	0.0066						0.7188	0.0066	0.0066
Beryllium	4.80	0.0013		0.0013	0.0013	0.0013								0.0013
Cadmium	1.40		0.0002		0.0002	0.0002								
Chromium	42.00					0.0068							0.0068	0.0068
Lead	1100.00		0.1186					0.1186	0.1186				0.1186	0.1186
Mercury	1.90			0.0002									0.0002	0.0002
Nickel	65.00		0.0083				0.0083		0.0083				0.0083	0.0083
Selenium	2.50				0.0003								0.0003	0.0003
Vanadium	100.00	0.0147	0.0147		0.0147				0.0147		0.0147			0.0147
PAH Nambahalana	2.20		0.0002										0.0000	0.0000
Naphthalene			0.0002		0.0068	0.0000							0.0002	
Benzo(a)anthracene	68.00 64.00				0.0068	0.0068					0.0064		0.0068	
Chrysene Benzo(b)fluoranthene	74.00				0.0064	0.0064					0.0064		0.0064	
Benzo(k)fluoranthene	28.00				0.0074	0.0074							0.0074	
Benzo(a)pyrene	58.00				0.0020	0.0058		0.0058		0.0058			0.0058	
Dibenzo(a,h)anthracene	6.40				0.0006	0.0006							0.0006	
<u>TPH</u>	_													
Benzene	0.01				0.0000	0.0000								
1,2,4-trimethylbenzene	0.01	0.0000	0.0000			6.555								0.0000
PRO (C6 - C10)	0.17		0.0000			0.0000	6.5-6-							0.0000
DRO (C10 - C35)	720.00		0.0720				0.0720							0.0720
Total (or greatest)		0.0160	0.2139	0.0072	0.0471	(0.0074)	(0.072)	(0.1186)	(0.1186)	(0.0058)	(0.0147)	0.7188	0.1707	0.2588
Threshold		20%	25%	0.10%	3%	0.10%	1%	0.50%	5%	0.10%	1%	1	25%	25%
Exceeded Y/N					N	N		N				N		N

Table Comparing Test Data With Landfill Waste Criteria

Proposed redevelopment of Richmond-Upon-Thames College, Twickenham

Landfill waste acceptance criteria Laboratory test data					
Parameter	Inert waste landfill	Stable non-reactive hazardous waste in non – hazardous landfill	Hazardous waste landfill	Bulk 1 Made Ground	Bulk 2 Kempton Park Gravel
Parameters determined on the waste					
Total organic carbon (w/w%)	3%	5%	6%*	0.53	<0.1
Loss of ignition			10%*	3.4	1.4
BTEX (mg kg ¹)	6			<0.15	<0.15
PCBs (7 congeners) (mg kg ¹)	1			<0.014	< 0.014
Mineral oil C ₁₀ -C ₄₀ (mg kg ¹)	500			<25	<25
PAHs	100			<1.7	<1.7
рН		>6		7.8	7.2
Acid neutralisation capacity		To be evaluated	To be evaluated	<0.1	<0.1
Limit values (mg kg ¹) fir compliance	leaching test using	BS EN 12457-3 at L/S 10 1 kg ¹			
As (arsenic)	0.5	2	25	<0.05	< 0.05
Ba (barium)	20	100	300	0.065	0.059
Cd (cadmium)	0.04	1 (UK0.1) §	5 (UK1) [§]	<0.01	<0.01
Cr (chromium (total))	0.5	10	70	< 0.05	< 0.05
Cu (copper)	2	50	100	<0.05	< 0.05
Hg (mercury)	0.01	0.2 (UK0.02) §	2(UK0.4) [§]	<0.0005	< 0.0005
Mo (molybdenum)	0.5	10	30	0.11	< 0.05
Ni (nickel)	0.4	10	40	<0.05	< 0.05
Pb (lead)	0.5	10	50	<0.05	< 0.05
Sb (antimony)	0.06	0.7	5	<0.01	<0.01
Se (selenium)	0.1	0.5	7	<0.05	< 0.05
Zn (zinc)	4	50	200	<0.05	< 0.05
CI (chloride)	800	15,000	25,000	<100	<100
F (fluoride)	10	150	500	4.7	5.6
SO ₄ (sulphate)	1,000#	20,000	50,000	<100	<100
Total dissolved solids (TDS) +	4,000	60,000	100,000	-	-
Phenol index	1			<0.1	<0.1
Dissolved organic carbon at own pH or pH 7.5 – 8.0 [®]	500	800	1,000	69	56

- * Either TOC or LOI must be used for hazardous wastes
- § The lower limit values for Cd and Hg may apply within the UK (see above)
- # If an inert waste does not meet the SO₄L/S10 limit, alternative values of 1500 mg 1 ¹ SO₄ at C_o(initial eluate from The percolation test (prEN 14405) and 6000 mg kg ¹ SO₄ at L/S10 (either from the percolation test or batch test BS EN 12457-3), can be used to demonstrate compliance with the acceptance criteria for inert wastes
- + The value for TDS can be used instead of the values for CI and SO₄
- @ DOC at pH 7.5-8.0 and L/S10 can be determined or eluate derived from a modified version of the pH dependence Test, prEN 14429, if the limit value at own pH (BS EN 12457 eluate) is not met

Assessed waste type

Inert waste



BASIC CATEGORISATION SCHEDULE FOR London Clay Produced following the requirements of The Landfill (England and Wales)

(Amendment) Regulations 2004 Part 2 (5)

(a)	Source and origin of waste		
	Proposed redevelopment Richmond-Upon-T	hames College, Egerton Road, Twickenham	
(b)	Process producing the waste		
	Foundation excavations		
(c)	Statement on waste treatment		
	Refer to pre-treatment confirmation form		
(d)	Composition of the waste		
	Stiff grey clay		
(e)	Appearance of the waste		
	As above		
<i>(f)</i>	European waste catalogue code		
	17-05-04		
(g)	Hazardous waste properties		
	None		
(h)	Is the waste prohibited under regulation 9?		
	No		
(i)	Landfill class		
	Inert based on soil being of natural origin an	d likely to be unaffected by artificial contamination	
(j)	Additional precautions required at landfill		
	None		
(k)	Can waste be recycled or recovered?		
	Refer to pre-treatment confirmation form		
(1)	Name and address of waste producer		
	Richmond-Upon-Thames College, Egerton R	oad, Twickenham, Middlesex TW2 7SJ	
(m)	Name and address of consultant Soiltechnics Limited, Cedar Barn, White Lo		
	(01604) 781877 Fax: (01604) 78100 edule Date:	Signed E-mail: mail@soiltechnics.net	
	2008	Mh	
0 - !!!	tackuias vafavanas	p.p. Lydia Drew B.Sc. (Hons)	
2011	technics reference STE1297R-L01	Geo-environmental Engineer for	
	SIEIZ9/K-LUI	Soiltechnics Limited	



BASIC CATEGORISATION SCHEDULE FOR Kempton Park Gravel

Produced following the requirements of The Landfill (England and Wales)
(Amendment) Regulations 2004 Part 2 (5)

(a)	Source and origin of waste			
	Proposed development at Richmond-Upon-T	hames College, Egerton Road, Twickenham		
(b)	Process producing the waste			
	Foundation excavations			
(c)	Statement on waste treatment			
	Refer to pre-treatment confirmation form			
(d)	Composition of the waste			
	Orange, brown clayey sand and gravel			
(e)	Appearance of the waste			
	As above			
(f)	European waste catalogue code			
	17-05-04			
(g)	Hazardous waste properties			
	None			
(h)	Is the waste prohibited under regulation 9?			
	No			
(i)	Landfill class			
	Inert			
(j)	Additional precautions required at landfill			
	None			
(k)	Can waste be recycled or recovered?			
	Refer to pre-treatment confirmation form			
(1)	Name and address of waste producer			
	Richmond-Upon-Thames College, Egerton Road, Twickenham, Middlesex TW2 7SJ			
(m)	Soiltechnics Limited, Cedar Barn, White Lodge, Walgrave, Northampton. NN6 9PY.			
	(01604) 781877 Fax: (01604) 78100 edule Date:	Signed E-mail: mail@soiltechnics.net		
	2008	M		
/ The				
Soilt	echnics reference STE1297R-L01	p.p. Lydia Drew B.Sc. (Hons) Geo-environmental Engineer for Soiltechnics Limited		



BASIC CATEGORISATION SCHEDULE FOR Made Ground (hydrocarbon impacted)

Produced following the requirements of The Landfill (England and Wales)
(Amendment) Regulations 2004 Part 2 (5)

(a)	Source and origin of waste		
	Proposed development at Richmond-Upon-T	hames College, Egerton Road, Twickenham	
(b)	Process producing the waste		
	Foundation excavations, general site clearar	ce or remediation	
(c)	Statement on waste treatment		
	Refer to pre-treatment confirmation form		
(d)	Composition of the waste		
	Dark and light brown slightly gravelly sand		
(e)	Appearance of the waste		
	As above		
(f)	European waste catalogue code		
	17-05-04		
(g)	Hazardous waste properties		
	None		
(h)	Is the waste prohibited under regulation 9?		
	No		
(i)	Landfill class		
	Non-hazardous		
(j)	Additional precautions required at landfill		
	None		
(k)	Can waste be recycled or recovered?		
	Refer to pre-treatment confirmation form		
(1)	Name and address of waste producer		
	Richmond-Upon-Thames College, Egerton R	oad, Twickenham, Middlesex TW2 7SJ	
(m)	Name and address of consultant Soiltechnics Limited, Cedar Barn, White Lo		
	(01604) 781877 Fax: (01604) 78100 edule Date:	D7 E-mail: mail@soiltechnics.net signed	
	2008	Mh	
Soil	technics reference	p.p. Lydia Drew B.Sc. (Hons)	
	STE1297R-L01	Geo-environmental Engineer for Soiltechnics Limited	



BASIC CATEGORISATION SCHEDULE FOR Made Ground

Produced following the requirements of The Landfill (England and Wales)
(Amendment) Regulations 2004 Part 2 (5)

(a)	Source and origin of waste	
	Proposed development at Richmond-Upon-T	hames College, Egerton Road, Twickenham
(b)	Process producing the waste	
	Foundation excavations and general site clea	arance
(c)	Statement on waste treatment	
	Refer to pre-treatment confirmation form	
(d)	Composition of the waste	
	Orange, brown and grey gravelly sand and s	andy gravelly clay
(e)	Appearance of the waste	
	As above	
<i>(f)</i>	European waste catalogue code	
	17-05-04	
(g)	Hazardous waste properties	
	None	
(h)	Is the waste prohibited under regulation 9?	
	No	
(i)	Landfill class	
	Inert	
(j)	Additional precautions required at landfill	
	None	
(k)	Can waste be recycled or recovered?	
	Refer to pre-treatment confirmation form	
(1)	Name and address of waste producer	
	Richmond-Upon-Thames College, Egerton R	oad, Twickenham, Middlesex TW2 7SJ
(m)	Name and address of consultant Soiltechnics Limited, Cedar Barn, White Lo	odge Walgraye Northampton NN6 9PY
Tel:	(01604) 781877 Fax: (01604) 78100	
	edule Date:	signed
July	2008	14h
Soil	technics reference	p.p. Lydia Drew B.Sc. (Hons)
JUII	STE1297R-L01	Geo-environmental Engineer for
	· · · · · · · · · · · · · · · · · · ·	Soiltechnics Limited

PRE TREATMENT CONFIRMATION FORM (Extract from 'Treatment of non-hazardous wastes for landfill' published by the Environment Agency)

Company Name	Which of the wastes are sent for recovery or recycling?
Company Address	Wood Yes No Paper Yes No Cardboard Yes No Glass Yes No
Waste Description	Green waste Ferrous Non-ferrous Waste electrical and electronic equipment (WEEE) Yes No No No
Intended disposal site	Other (please specify)
	What percentage of the total waste is sent for recovery/recycling?
EWC Code	If treatment has not been carried out, please state why treatment is not considered necessary
How has the waste been treated ?	
waste? Separate collection Screening Hand picking Magnetic segregation Thermal Other (please specify)	I / We confirm that the waste delivered by the above Named company and herein described has been treated as detailed above. Note: Treatment is a physical / chemical / thermal or biological process including sorting that also changes the characteristics of the waste and must do so in order to: No i reduce its volume; or ii reduce its hazardous nature; or iii facilitate its handling; or iv enhance its recovery
Paper Cardboard Glass Plastics Green waste Ferrous Non-ferrous Waste electrical and Electronic equipment (WEEE)	No Name
Other (please specify)	Date