WR38: Borehole record form						
	icholis reholes		British Geological Sa		En Ag	vironme: ency
Water Resources Act 1991 (as amended by the W	ater Act 2003)		Sonkau	20-4 1		
A Site details				2		
Boreholedrilled for Kevin Godda	vd	Company and the local sector of the				
Location 186 Whytelede Re	rd, Caterk	am, CR	3 SEC)		
	57112				Please att	ach site pl
Ground level (if known)						
Drilling company Nichells Borehe	les					
Date drilling commenced 4 - 05 - 16	(DD/MM/Y	(YY) Complete	4-05	-16	(D	D/MM/YYY
B Construction details						
a conscidention declarity						
Borehole datum (if not ground level)	taken for example f	es (m). Please tio	ck if this is at	oove D or b	elow D g	round leve
(point from which all measurements of depth are t Borehole drilled diameter	concert, for example, i	lange, euge of ci	lamber)			
borenote di itted diameter	250	mm from				
		mm from				
		mm from		to		
Casingmaterial PLASTIC Solid dia	N.F.	mm from	<i>.</i>	-		
and type (for example, if plain steel, plastic slotte Casing material PLISTIC SLOTTED dia	ameter 165 and). Ple ase record be ameter 165	mm from rmanent casin e mm from	GIL details. not t 5:6	to emporaryc to	- 6	m/dep
Casingmaterial <u>PLISTIC SLOTTED</u> dia Casingmaterial dia	ameter <u>165</u> ameter 165 ameter	mm from rmanent casin e mm from mm from	GIL details, not t 5:6	to emporaryc to	. 6	m/dep m/dep m/dep
Casing material PLISTIC SLOTTED dia Casing material dia Casing material dia	imeter 165 imeter 165 imeter imeter imeter	mm from rmanent casin e mm from mm from mm from	GIL details, not t 5:6	to emporaryc to	. 6	m/depi m/depi m/depi
Casing material <u>PLASTIC</u> SLOTTED dia Casing material dia Casing material dia Grouting details 20 BASK SHINKLE	imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u>	mm from rrmanent casine mm from mm from Mt KoL: T	GIL details, not t 5:6	to empor ary c to to to	.6 I.6	m/depi m/depi m/dept m/dept
Casing material PLISTIC SLOTTOD dia Casing material dia Casing material dia Grouting details 20 Bass SHINGLO Waterstruckat 1.	imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u>	mm from rrmanent casine mm from mm from Mt KoL: T	6-11 details. not t 5 · 6 2	to rempor ary c to to to	.6 I.6	m/depl m/depl m/dept m/dept m (mbc
Casing material <u>PLASTIC</u> SLOTTED dia Casing material dia Casing material dia Grouting details 20 BASK SHINKLE	imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> imeter <u>165</u>	mm from rrmanent casine mm from mm from Mt KoL: T	6-11 details. not t 5 · 6 2	to empor ary c to to to	.6 I.6	m/depl m/depl m/dept m/dept m (mbc
Casing material <u>PL1STIC</u> SLOTTED dia Casing material dia Grouting details <u>20 Bass SHINKLC</u> Waterstruckat 13.	meter 165 d). Ple ase record be meter 165 meter , 5 BASS m (depth below d m (mbd)	mm from rmanent casine mm from mm from mm from M1 KoL1 7 latum - mbd)	61L details. not t 5:6 2. 4.	to rempor ary c to to to	.6 I.6	m/depl m/depl m/dept m/dept m (mbc
Casing material Casing material Casing material dia Casing material dia Casing material dia Grouting detais 20 Bass Strinks (C Waterstruckat 1. 3. C Test pumping summary (Please sup	meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u>	mm from mmanent casin e mm from mm from mm from htt ke_t t latum - mbd)	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mba m (mba
Casing material <u>PL1STIC</u> SLOTTED dia Casing material dia Grouting details <u>20 Bass SHINKLC</u> Waterstruckat 13.	meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u>	mm from rmanent casine mm from mm from mm from M1 KoL1 7 latum - mbd)	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mba m (mba
Casing material <u>PL15Tic SLOTTAD</u> dia Casing material dia Gasing material dia Grouting details <u>20 Bass SHINKLO</u> Waterstruckat 1. 3. C Test pumping summary (Please sup Test pumping datum	meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u>	mm from rrmanent casin e mm from mm from Mi Kakı T latum - mbd) on form WR39	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mbc
Casing material <u>PL1STic SLOTTAD</u> dia Casing material dia Casing material dia Grouting details <u>20 Bast SHINJSLC</u> Waterstruckat 1. 3. C Test pumping summary (Please sup Test pumping datum (if different from borehole datum)	imeter <u>165</u> d). Ple ase record pe imeter <u>165</u> imeter <u>165</u> imeter <u>165</u> m (depth belowd m (mbd) pply full details c	mmfrom rrmanent casin e mmfrom mmfrom hi KeLIT latum - mbd) h. Please tick if t	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mba m (mba
Casing material <u>PLrSTic</u> <u>SLETTED</u> dia Casing material dia Casing material dia Grouting detais <u>20 Bass</u> <u>SHINKLC</u> Waterstruckat 1. 3. C Test pumping summary (Please sup Test pumping datum (fi different from borehole datum) Pump suction depth	imeter <u>165</u> d). Ple ase record be imeter <u>165</u> imeter <u>165</u> meter <u>165</u> motor	mm from	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mba m (mba
Casing material <u>PLrStic</u> <u>SLOTTAD</u> dia Casing material <u>dia</u> Gasing material <u>dia</u> Growing details <u>20 Bass</u> <u>SHINKLOC</u> Waterstruckat 1. <u>3.</u> C <u>Test pumping summary (Please sup</u> Test pumping datum (If different from borehole datum) Pump suction depth Waterlevel(startoftest)	imeter <u>165</u> d). Ple as record be as record be imeter <u>165</u> matter <u>165</u> m (depth belowd m (mbd) oply full details c	mm from	61L details. not t 5 · 6 2. 4.	to empor aryc to to to	7.6 asing. 1.6	m/depi m/depi m/depi m/depi m(mba m (mba
Casing material <u>PLTSTic SLOTTAD</u> dia Casing material dia Grouting details <u>20 Bass SHINCLOC</u> Waterstruckat 1. 3. C Test pumping summary (Please sup Test pumping datum (If different from borehole datum) Pump suction depth Waterlevel(staroTest) Waterlevel(staroTest)	imeter <u>165</u> d). Ple asc record be imeter <u>165</u> immeter <u>165</u> immeter <u>165</u> mit depth below d m (abd) oply full details c m m m ree	mm from rrmanent casin a mm from mm from mm from mm from mm from WR39 n. Please tick if t hbd bbd	6-11_ details.not t 5 · 6 2. 4. 	to eemoor ary c to to to Disc Comp Disc Comp	E groun	m/dep m/dep m/dep m (mba m (mba d level.
Casing material PLSTic SLOTTAD dia Casing material dia Gasing material dia Grouting details 20 Bass Surius (LC Water Struckat 1. 3. C Test pumping summary (Please sup Test pumping datum (If different from borehole datum) Pump suction depth Water level(endof test) Type of test (for example, bailer, step, constant rat Pumping rate	imeter <u>165</u> d). Ple asc record be imeter <u>165</u> immeter <u>165</u> immeter <u>165</u> mit depth below d m (abd) oply full details c m m m ree	mm from rrmanent casin a mm from mm from mm from mm from hi Keilit hatum - mbd) an form WR39 b. Please tick if t hbd bbd	6-11_ details.not t 5 · 6 2. 4. 	to to to to Disc Comp D or below	r D groun	m/depi m/depi m/depi m/depi m (mbd m (mbd d level.
Casing material Gasing material dia Casing material dia Casing material dia Gasing material dia Grouting details 20 Bass Waterstruckat 1 3 C Test pumping summary (Please sup Test pumping datum (if different from borehole datum) Pump suction depth Waterlevel(startoftest) Waterlevel(startoftest) Waterlevel(startoftest) Waterlevel(end oftest) Pumping rate for Recovery to mdd in	imeter <u>165</u> d). Ple as record be imeter <u>165</u> imeter <u>165</u> meter <u>165</u> meter <u>165</u> m (depthbelowd m (mbd) oply full details c <u>n</u> m (appt belowd n (mbd) oply full details c <u>n</u> m e) <u>n</u> days, <u>n</u>	mm from rrmanent casin a mm from mm from mm from mm from hi Keilit hatum - mbd) an form WR39 b. Please tick if t hbd bbd	6-11_ details.not t 5 - 6 2. 4. 1) his is above es/second C	to to to to Disc Comp D or below	r D groun	m/depi m/depi m/depi m/depi m (mbd m (mbd d level.
Casing material dia Casing material dia Casing material dia Gasing material dia Growing details dia Growing details 20 Bass Sup Test pumping summary (Please sup Test pumping datum (if different from borehole datum) Pump suction depth Water level (startor test) Water level (startor test) Water level (end of test) Type of test (for example, bailer, step, constant rat Pumping rate for Recovery to mbd in (from end of pumping)	imeter <u>165</u> d). Ple asc record be ameter <u>165</u> immeter 5 <u>Bacs</u> m (depthbelowd m (abd) oply full details (m m m m m m m m m m m m m	mm from rrmanent casin a mm from mm from mm from mm from hi Keilit hatum - mbd) an form WR39 b. Please tick if t hbd bbd	6-11_ details.not t 5 - 6 2. 4. 1) his is above es/second C	to to to to to Domesium D or below	r D groun	m/depi m/depi m/depi m/depi m (mbc
Casing material dia Casing material dia Casing material dia Gasing material dia Growing details dia Growing details 20 Bass Sup Test pumping summary (Please sup Test pumping datum (if different from borehole datum) Pump suction depth Water level (startor test) Water level (startor test) Water level (end of test) Type of test (for example, bailer, step, constant rat Pumping rate for Recovery to mbd in (from end of pumping)	meter <u>165</u> d). Ple as record be meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> meter <u>165</u> modepthelowd m (apthelowd m (apthelowd	mm from rrmanent casin e mm from mm from mm from ML KaL.T latum - mbd) an form WR39 b. Please tick if t bbd	6-11_ details.not t 5 - 6 2. 4. 1) his is above es/second C	to to to to to Domesium D or below	r D groun	m/depi m/depi m/depi m/depi m (mbc

WR38: Borehole record form

Geological classification (BGSonly)	Description of strata	Thickness m	Depth (tobase ofstrata m
	Park brown clay with large Flints	6.50	6.5
	Hard Fractured chalk and Flint	5.10	11.6

i.				
8				
	al Suney	consiste page (pecettapy)		
eologica		Separate page if necessary) separate page if necessary) ents (for example, gas encountere	d, saline water intercepted)	 man optimized and the second se
E	Other comme Completing this form w long did it take you to fill in th For Official use only	ints (for example, gas encountere	:	
Ē	Other comme Completing this form w long did it take you to fill in th	ints (for example, gas encountere	d, saline water intercepted) : : Consent number	BGS reference number
Ē	Other comme Completing this form w long did it take you to fill in th For Official use only	ints (for example, gas encountere	:	BCS reference number
Ē	Other comme Completing this form w long did it take you to fill in th For Official use only Date received (DD/IMM/YYYY)	ents (for example, gas encountere iss form? File Wellmaster number	Consent number	BCS reference number
E	Other comme Completing this form w long did it take you to fill in th For Official use only Date received (ID//MM/YYYY) Accession number	ents (for example, gas encountere is form? File Wellmaster number	Consent number	BCS reference number

WR38: Borehole record form

		renc	iis tos		British Geological Su	rvey Rauvis (e.w	E R	nvironmer gency
Water Resources Act 199	l (as amended by the V	Vater Act :	2003)	Scalcan	m u 2			
Location 186				uan, CR	2			
NGR (ten digits)	10 33450	5711	2				Please a	ttach site pla
Ground level (if known)	1					meti	res Above Or	dnance Datur
Drilling company								
Date drilling commenced	5-5-16		(DD/MM/Y	(YY) Complete	ed 5-5-	- 16	1.0	DD/MM/YYYY
B Construction de	tails							
Borehole datum (if not gro	01		al Survey			British		
(point from which all meas		taken for	metri	es (m). Please ti	ck if this is ab	ove D	or below D	ground level
Borehole drilled diameter				mm from _		10	12.6	an (da a b
				mm from				
				mm from				
				mm from _		to		m/dept
Casing material PLAS and type (for example, if p	TIC SOLID di lain steel, plastic slott	ameter ed). Ple as	145 se record pe	mm from	G/L details not to	to	6.6	m/dept
Casing material PLAS and type (for example, if p Casing material PLAS Casing material Casing material	tic SLOTTED di di di	ameter : ameter : ameter	65	mm from mm from mm from	6.6	to	12.6	m/dept
Casing material	di Bacs SHIN	ameter ameter ameter	6 B	mmfrom mmfrom mmfrom	6.6	to	12.6	m/dept
Casingmaterial	di Bacs SHIN	ameter ameter ameter	6 B	mmfrom mmfrom mmfrom	6.6	to _ to _	12.6	m/dept m/dept m/dept
Casing material Casing material Casing material Casing material Casing material Casing material Counting details Counting details Counting details Casing material Casing mate	di Bacs SHIN	ameter : ameter : ameter J <le m (dej</le 	6 B	mmfrom mmfrom mmfrom	<u>6.6</u>	to _ to _ to _	12.·6	m/dept m/dept m/dept m (mbo
Casingmaterial Casingmaterial Casingmaterial Gasingmaterial Grouting details 2c Waterstruckat 1. 3. C Test pumping datum (if different from borehole Pump suction depth Waterlevel(startoftest)	TIC SLOTTOD di di Bacs SHIIN mmary (Please su	ameter ameter ameter m (dei m (mb	f S		<u>6.6</u> 2 4	to _ to _ to _	12. · 6	m/dept m/dept m/dept m (mbd m (mbd
Casing material CLAS Casing material Grouting details 2c Grouting details 2c Water struckat 1. 3. C Test pumping sut Test pumping datum If different from borehole Pump suction depth	TIC SLOTTED at di	ameter ameter J< LC m (dej m (mb	6 B pthbelowd id)		<u>6.6</u> 2 4	to _ to _ to _	12. · 6	m/dept m/dept m/dept m/dept m/dept
Casing material Casing material Casing material Casing material Growting details 2 constraints and the constraint of the	TIC SLOTCED di di Baces SHIN mmary (Please su datum)	ameter ameter m (dej m (mb pply full te)	ldetails c	mmfrom mmfrom mmfrom GSLklsc atum - mbd) an form WR39 	<u>6.6</u> 2. 4. 9) this is above	to to 	126	m/depi m/depi m/depi m (mbd
Casing material Casing material Casing material Casing material Casing material Grouting details 2 Casing material Casing material Casing material Casing material Casing material Casing material Casing Cas	TIC SLOTCED at diamond the second sec	ameter	ldetails c	mmfrom mmfrom mmfrom GSSKe latum - mbd) In form WR3(h. Please tick if i hbd hbd	<u>6.6</u> 2. 4. 2) this is above this is above the second D	to _ to _ to _ 	126 Now D grou e tickas appr	m/dept m/dept m/dept m m (mbd m (mbd
Casing material Casing material Casing material Casing material Grouting details 2c Water struckat 1. 3. 3. C Test pumping datum (if different from borehole Pump suction depth Water level (startof fest) Water level (end of test) Type of test (for example, b	TIC SLOTCED at diamond the second sec	ameter ameter m (dej m (mb pply full te)	ldetails c	mmfrom mmfrom mmfrom GSSKe latum - mbd) In form WR3(h. Please tick if i hbd hbd	<u>6.6</u> 2. 4. 9) this is above	to _ to _ to _ 	126 Now D grou e tickas appr	m/dept m/dept m/dept m m (mbd m (mbd
Casing material Casing material Casing material Casing material Casing material Grouting details 2c Water struckat 1. 3. 3. C Test pumping sutton depth Water level (startof test) Type of test (for example, b Pumping rate Recovery to	TIC SLOTCED at diamond the second sec	ameter ameter ameter m (dej m (mb pply full te) r days, hdays,	l details c	mmfrom mmfrom mmfrom GSSKe latum - mbd) In form WR3(h. Please tick if i hbd hbd	<u>6.6</u> 2. 4. 2) this is above this is above the second D	to _ to _ to _ 	126 Now D grou e tickas appr	m/dept m/dept m/dept m m (mbd m (mbd
Casing material CLAS Casing material Casing C	TIC SLOTCED di di Bandari di Bandari di Bandari di datum) datum) datum) for mbd in	ameter ameter ameter m (dej m (mb pply full te) te)	L65	mmfrommmfrommmfrommmfrommmfrom mmfrommmfrom ASLkKc laturn - mbd) on form WR34 n. Please tick if i hbd bibd bibd	<u>6.6</u> 2. 4. 2) this is above this is above the second D	to _ to _ to _ 	126 Now D grou e tickas appr	m/dept m/dept m/dept m m (mbd m (mbd

WR38 Version 2, February 2011

WR38: Barehole record form

D Strata log	British Geological Surv	<u>9</u>	British Geological Surv	1
Geological classification (BGS only)	Description of strata		Thickness m	Depth (to base of strata m
	Darke brown clay Haved Fractured cl	with large flint	ts 6.50	6.5
	Havel Fractured cl	halk and Flint	6.10	12.6
	British Geological Sun (continue on separate page if necessary)			
	Other comments (for example, gas encount	ered, saline water intercepted)	a a su an ann an an ann an an an an an an an a	
E Completing the Howlong did it take yo				
For Official use of Date received (DD)		Consent number	BGS reference nu	nber
Accession number	Wellmaster number	SOBI number	NGR Geological Sun	ey.
LIC NO	Purpose		EAreferencenum	ber

D Stratalog Geological classification (BGSonly)	Description of	. Annsh Geological Shnar strata		- Bulish Geological Sur Thickness m	Depth (to base of strata) m
	Dark	brown clay w chalk Fractured chalk	ith large flints	6.00	6.0
	Putty	chalk		1.10	7.10
	Hard	Fractured challe	e and Flint	2.50	9.60
					N.
		separate page if necessary)		British Geological Sur	1
ological Survey		separate page if necessary) ants (for example, gas encountered	, saline water intercepted)	British Geological Sur	ver
	Other comme	ents (for example, gas encountered	, saline water intercepted)	Brillish Geological Sur	12)
E Completi How long did it ta For Official	Other comme ing this form ske you to fill in th	ents (for example, gas encountered	, saline water intercepted) Consent number	British Geological Str BGS reference n	
E Completi How long did it ta For Official	Other comme ing this form ake you to fill in th use only 4 (DD/MM/YYYY)	ents (for example, gas encountered			ımber

WR38 Version 2, February 2011

7935/55

Borehole record	N Bo	reholes		British Geological Sur	(A)	Environme Agency
Water Resources Act 1991 (as	s amended by the '	Water Act 2003)	Sala	my 3		
A Site details			~ CLUCU	and -		
	win Conti	art				
Location 186 W	hutderfo E	and Cated	nam, CR	3 560		
NGR (ten digits)	TOZZ	Ha 5711	oun, ch	JEV		
Ground level (if known)						attach site pl
Drilling company Nicho	Is Boreh	da			metres Above (Ordnance Datu
				1 -		
bace driving commenced	0-09-16	(DD/MM/Y	YYY) Complete	ed 0 - 05	-[6	(DD/MM/YYY
B Construction detail	ls.					
Borehole datum (if not ground						
(point from which all measure	ments of depth are	taken for example	es (m). Please ti	ick if this is abo	ove D or below I	D ground leve
Borehole drilled diameter		250			_ to _ 9.6	
		<u>C3</u> -				
		L	mm from _		to	
		And and the second second			to	
					to	m/deni
			mm from _			
Casing material	SoliD di					
Casing material and type (for example, if plain	Socio di steel, plastic slott	ameter 165mm	mm from	612	_ to _3.6	m/dep
Casing material <u>PLASTIC</u> and type (for example, if plain Casing material <u>PLASTIC</u>	Socio di steel, plastic slott	ameter 165mm	mm from	612	_ to _3.6	m/dep
Casing material <u>PLASTic</u> and type (for example, if plain Casing material <u>PLASTic</u> Casing material	Solio di steel, plasticslott SLOTTED di di	ameter <u>165m</u> ed). Ple ase record be ameter <u>165</u>	mm from	GIL details. not te 3 · 6	to <u>3.6</u> moor ary casing. to <u>1.6</u> .	m/dep
Casing material Casing material Casing material	di di di	ameter <u>165m</u> ed). Ple ase record be ameter <u>165</u>	mm from ermanent casin e mm from	61L details. not te 3 · 6	to 3.6 moor ary casing. to 1.6.	m/depi m/depi
Casingmaterial	di di di	ameter 165ma ed). Ple ase record pe ameter 165 ameter	mm from ermanent casin g mm from mm from	GLL details. not te 3 · 6	to 3.6 moor ary casing. to 1.6.	m/dep
Casing material Casing material Casing material	di di di	ameter 165ma ed). Ple ase record pe ameter 165 ameter	mm frommm frommm frommm frommm frommm from	GIL Idetails. not te 3 · 6	to 3.6 mporarycasing. to 1.6. to	m/dep m/dep m/depi m/depi
Casing material Casing material Grouting details 20	di di di di SassS	ameter 165ma ed). Ple ase record de ameter 165 ameter Ameter HINCLE, 4	mm frommm frommm frommm frommm frommm from	6-1L idetails. not te 3 · 6 ikoLIT 2.	to 3.6 mpor arycasing. to 1.6. to	m/depi m/depi m/depi m/depi
Casing material Casing material Grouting details Water struckat 3.	. SLOTTED di di di di di 	ameter 165m. ed). Ple ase record or ameter 165 ameter . mameter . m (depthbelowor m (mbd)	mmfrom	6/L details. not te 3 · 6 KoLIT 2. 4.	to 3.6 mporarycasing. to 1.6. to	m/depi m/depi m/depi m/depi
Casing material Casing material Grouting details Water struckat 3.	. SLOTTED di di di di di 	ameter 165m. ed). Ple ase record or ameter 165 ameter . mameter . m (depthbelowor m (mbd)	mmfrom	6/L details. not te 3 · 6 KoLIT 2. 4.	to 3.6 mpor arycasing. to 1.6. to	m/dep m/dep m/dep m/dep
Casing material CAST (C Casing material Casing material Casing material Casing material Casing material Casing details 20 Waterstruckat 1	SLOTTED di di Bass S nary (Please su	ameter 165m. ed). Pie ase record or ameter 165 ameter MINCLE, 4 m (depth belowed m (mbd) pply full details of	mmfrom errmanent casin e mmfrom mmfrom BacsM datum - mbd)	6/L 3.6 	_ to3.6 mporarycasing. _ to1.6. _ to _ to	m/dep m/dep m/dep m/dep m/dep m (mba
Casing material Casing material Casing material Casing material Casing material Grouting details 20 Waterstruckat 1	SLOTTED di di Bass S nary (Please su	ameter 165m. ed). Pie ase record or ameter 165 ameter MINCLE, 4 m (depth belowed m (mbd) pply full details of	mmfrom errmanent casin e mmfrom mmfrom BacsM datum - mbd)	6/L 3.6 	to 3.6 mpor arycasing. to 1.6. to	m/dep m/dep m/dep m/dep m/dep m (mba
Casing material CAST (C Casing material Casing material Casing material Casing material Casing material Casing details 20 Waterstruckat 1	SLOTTED di di Bass S nary (Please su	ameter 165m. ed). Pie ase record or ameter 165 ameter MINCLE, 4 m (depth belowed m (mbd) pply full details of	mmfrom ermanent casin e mmfrom mmfrom Bacs Jatum - mbd) on form WR39 n. Please tick if t	6/L 3.6 	_ to3.6 mporarycasing. _ to1.6. _ to _ to	m/dep m/dep m/dep m/dep m/dep m (mba
Casing material Casing material Casing material Casing material Casing material Counting details 20 Waterstruckat 1	SLOTTED di di Bass S nary (Please su	ameter 65 mm ed). Pie ase record ne ameter 65 meter 67 meter 67 m (depth belowc m (mbd) pply full details c	mmfrom ermanent casin e mm from mm from Bacs Jatum - mbd) pon form WR39 n. Please tick if t	6/L 3.6 	_ to3.6 mporarycasing. _ to1.6. _ to _ to	m/depi m/depi m/depi m/depi m/depi
Casing material CAST (C Casing material Casing material Casing material Casing material Counting details 20 Water struckat 1. C Test pumping datum C Test pumping datum (if different from borehole datu Pump suction depth	SLOTTED di di Bass S nary (Please su	ameter LGT edd. Ple ase record or ameter ameter m (depth betowc m (mbd) pply full details c n	mmfrommmfrommmfrommmfrommmfrom mmfrommmfrom BacsMatum - mbd) pon form WR35 n. Please tick if t nbd	6/L 3.6 	_ to3.6 mporarycasing. _ to1.6. _ to _ to	m/dep m/dep m/dep m/dep m/dep m (mba
Casing material CAST (C Casing material Grouting details 20 Waterstruckat 1. 3. C Test pumping datum (if different from borehole datu Pump suction depth Waterlevel (startof test)	. S407760 di 	ameter 6 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mmfrommmfrommmfrommmfrommmfrom mmfrommmfrom BacsMatum - mbd) pon form WR35 n. Please tick if t nbd	6/L 3.6 	_ to3.6 mporarycasing. _ to1.6. _ to _ to	m/dep m/dep m/dep m/dep m/dep m (mba
Casing material Casing material Casing material Casing material Casing material Counting details 20 Water struckat 1	. S407760 di 	ameter LG ameter ameter ameter m (depth below:c m (mbd) pply full details c n n n n	mm from ermanent casin a mm from mm from mm from Bacs Bacs Jatum - mbd) pon form WR3S pon form WR3S hold hold hold	Ge1L details. not te 3 · 6	to meor ^a ry casing. to to to to to to to to to	m/dep m/dep m/dep m/dep m (mba
Casing material Casing material Casing material Casing material Casing material Grouting details 20 Waterstruckat 1	r, step. constant ra	ameterGreen ameterGreen ameter ameter micer micer below: micer below: mice	mmfrom rrmanent casin a mmfrom mmfrom Becshi latum - mbd) on form WR3S n. Please tick if t nbd hbd	GLC details. not te 3 · 6 	to moor any casing. to to to to O or below D gro	m/dep m/depi m/depi m/depi m/depi
Casing material Casing material Casing material Casing material Casing material Grouting details 20 Waterstruckat 1	r, step. constant ra	ameter 6 16 16 16 16 16 16 16 16 16 16 16 16 1	mm from rrmanent casin e mm from mm from mm from Bacs Bacs Constant Bacs Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant	6-12 details. not te 3 • 6 	to moor ary casing. to to to O or below D gro Please tick as app 	m/dep m/dep m/dep m/dep m (mba
Casing material CASTLC Casing material Casing material Casing material Casing material Council of the Casing material Council of the Casing material Casing material Casing material Casing Cas	r, step. constantra	ameterGreenerGreenerGreener ameterameter ameter m (depth betowc m (mbd) pply full details c n n te) n n n	mm from rrmanent casin e mm from mm from mm from Bacs Bacs Constant Bacs Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant	GLC details. not te 3 · 6 	to moor ary casing. to to to O or below D gro Please tick as app 	m/dep m/dep m/dep m/dep m/dep m/dep
Casing material CAST(C Casing material Casing material Casing material Casing material Cosing material Council of the cost of	r, step. constant ra	ameter 6 16 16 16 16 16 16 16 16 16 16 16 16 1	mm from rrmanent casin e mm from mm from mm from Bacs Bacs Constant Bacs Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant	6-12 details. not te 3 • 6 	to moor ary casing. toto _to	m/depi m/depi m/depi m/depi m/depi m/depi m/depi
Casing material CAST (C Casing material Casing material Casing material Casing material Casing material Council of the casin	r, step. constant ra	ameter 6 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mmfrom	6-12 details. not te 3 • 6 	to moor ary casing. toto _to	m/depi m/depi m/depi m/depi m/depi m/depi m/depi

WR38: Borehole record form Borehole record Environment Nicholls ological Survey Boreholes Agency Water Resources Act 1991 (as amended by the Water Act 2003) Soutenery 4 A Site details Kein Borehole drilled for , Caterham, CR3 SED Location 186 Whiteleofo Row NGR (ten digits) 1033442 57112 Please attach site plan Ground level (if known) metres Above Ordnance Datum Drilling company Nichalls Rorendos Date drilling commenced 9-05-16 (DD/MM/YYYY) Completed 9-05-16 (DD/MM/YYYY) B Construction details Borehole datum (if not ground level) Anthe Galaxies Simplemetres (m). Please tick if this is above D or below D ground level. (point from which all measurements of depth are taken, for example, flange, edge of chamber) Borehole drilled diameter 250 mm from 6/6 to 10 m/depth ____ mm from ______ to ______ m/depth _____ mm from ______ to _____ m/depth mm from ______ to _____ m/depth Casing material <u>PLASTIC SollD</u> diameter <u>165</u> mm from <u>67/L</u> to <u>5</u> and type If or example, if plain steel, plastic slotted). Ple ase record permanent casin a details, not tempor ary casing. m/depth Casing material PLASTIC SLOTTED diameter 165 mm from 5 to 10 m/depth Casing material _____ diameter _____ mm from _____ to _____ m/depth Casingmaterial diameter _____ mm from ____ to _____ m/depth 20 BACS SHINGLE, 4 BACS MIKOLIT Grouting details Waterstruckat 1. ____ m (depth below datum - mbd) 2. m (mbd) m (mbd) 3. m (mbd) Test pumping summary (Please supply full details on form WR39) C Test pumping datum m. Please tick if this is above D or below D ground level. (if different from borehole datum) Pump suction depth mbd Waterlevel (startoftest) _____ mbd Water level (end of test) mbd Type of test (for example, bailer, step, constant rate) Pumpingrate m³/hour D or litres/second D. Please tick as appropriate. for days, hours, mins Recovery to mbd in _____days,____ hours, mins (from end of pumping) Date(s) of measurements Pumpstarted (DD/MM/YYYY) Pump stopped _____ (DD/MM/YYYY) Please supply chemical analysis if available. If you have included this please tick this box D WR38 Version 2, February 2011

. 6. 6

Description 1	oligi belliya oligi		BitishGeological Su Thickness	Depth
Description of s	rata		m	(tobase of strata) m
Dark	brown clay with	h large flints	6.00	6.00
Putty	chalk		1.20	7.20
Hard	Fractured chall	e and flint	2.80	10.00
(continueons	eparate page if necessary)			18)
Other comme	nts (for example, gas encountered	i, saline water interceptedi		
	is form?			
	File	Consent number	BGS reference n	umber
mber	Wellmaster number	SOBI number	NGR	
			British Geological Sta	
	Purpose		EAreferencenur	nber
	Pork Putty Hard Uter comme Other comme	Dark brown clay with PJty chalk Hard Fractured chall Bitch Georgica Europ Other comments (for example, gas encountered ing this form bie you to fill in this form? use only	Dark brown clay with large flints Putty chalk Hard Fractured chalk and flint Bitch Geologica Strey (continue on separate page (increasary)) Other comments (for example, gas encountered, saline water Intercepted) ing this form her you to fill in this form? use only	m Dark brown clay with large flints 6.00 Pitty chalk 1.20 Hard Fractired chalk and flint 2.80 Desc Geografies Desc Geografies Desc Geografies Desc Geografies Other comments (for example, gas encountered, saline water intercepted) Desc Geografies ing this form her you to fill in this form?

WR38: Borehole record form

D Stratalog Geological classification (BGSonty) Description of strata Description of strata Description of strata Thickness Description M Description of strata Description of strata

British Geological Survey

British Geological Survey

British Geological Survey

British Geological Survey

(continue on separate page if necessary) Other comments (for example, gas encountered, saline water intercepted)

entish bedioticar bunyt

E Completing this form

How long did it take you to fill in this form?

For Official use only Date received (DD/WM/YYYY)	File	Consent number	BGS reference number
Accession number	Wellmaster number	SOBI number	NGR
LIC NO	British Geological Survey Purpose		EAreferencenumber
Copy number	Entered by		
		-	

WR38 Version 2, February 2011

	Bore	holls	-	British Geological Su	- 6	Environm Agency
Water Resources Act 1991	as amended by the Wate	er Act 2003)	Scalio	was 5	-	
	ievin Goddard Jhyteleafe Row	l, Caterba		7)	
NGR (ten digits)	193343	6 57125				ease attach site p
Ground level (if known)						ove Ordnance Dat
Drilling companyNic		5				ove or divance day
Date drilling commenced	10-05-16	(DD/MM/YYY	Y) Complete	10-01 b	5-16	(00 (
B Construction deta						(DD/MM/TY
- della della						
Borehole datum (if not group (point from which all measure	nd level) Aminh (metres	(m). Please t	ick if this is ab	ove D or bel	ow D ground lev
(point from which all measur Borehole drilled diameter	rements of depth are take	in, for example, flar	nge, edge of c	hamber)		
service dritted diameter		250	mm from _	616	_ to _ []	
			mm from		to	m/dep
			_ mm from		to	m/der
			mmfrom		to	m/den
Casing material PLAST and type (for example, if plat Casing material PLAST	IL SIDTION	ase record perm	anent casin g	details. not te	moorarycasi	ng.
Casing material	diamet	er63	_ mmfrom _ _ mmfrom _	5.5	to	m/dep
Casing material	diamet diamet Bass Su	er	_ mm from _ _ mm from _ _ mm from _	5.5	to1	m/dep
Casingmaterial Casingmaterial Grouting details Waterstruckat 1.	diamet Bass S	er	_ mm from _ _ mm from _ _ mm from _	5.5	to1	m/dep m/dep m/dep
Casingmaterial Casingmaterial Grouting details Waterstruckat 1.	diamet diamet Bass Su	er	_ mm from _ _ mm from _ _ mm from _	MIKOL	to1	m/dep m/dep m/dep
Casing material Casing material Grouting details Water struckat I. J.	diamet diamet Bass b Bass n Bits n	er	mmfrom _ mmfrom _ mmfrom _ Bq4s um·mbd)	<u>Mikor</u> 2	to to to	m/dep m/dep m/dep
Casing material Casing material Grouting details Water struck at 1. 3. C Test pumping sumi	diamet Bass S	r full details on t	mmfrom mmfrom Bacs um - mbd) form WR39	2 4	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casing material Casing material Casing material Counting details Counting details Casing material Casing Ca	diamet diamet Bacs Brite mary (Please supply	r full details on t	mmfrom mmfrom Bacs um - mbd) form WR39	2 4	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casing material Casing material Grouting details Water struckat 1. Digital String C Test pumping summing Set pumping datum if different from borehole dat	diamet diamet Bacs Brite mary (Please supply	r full details on f	mmfrom mmfrom Bacs um - mbd) form WR39	<u>Mikor</u> 2	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casingmaterial Casingmaterial Grouting details Waterstruckat 1 and form 3 C Test pumping sutum fest pumping datum if different from borchole dat ump suction depth	diamet diamet Bacs Brite mary (Please supply	er for for for for for for the low datu for datu for the low datu for datu for the low d	mmfrom mmfrom Bacs um - mbd) form WR39	2 4	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casingmaterial Casingmaterial Grouting details Alterssruckat 1. 3 Test pumping datum if different from borehole dat Ump suction depth Vaterlevel(tatrotofest)	diamet diamet Bacs Brite mary (Please supply	rerr	mmfrom mmfrom Bacs um - mbd) form WR39	2 4	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casingmaterial Casingmaterial Grouting details Waterstruckat 1, 3, Test pumping datum if different from borehole dat ump suction depth Vaterlevel(startoftest) Vaterlevel(startoftest)	mary (Please supply	er for for for for for for the low datu for datu for the low datu for datu for the low d	mm from mm from Bacs um - mbd) form WR39	2 4	to to tT Amish Geolog	m/dep m/dep m/dep m/dep m (mb
Casingmaterial Casingmaterial Grouting details Alterssruckat 1. 3 Test pumping datum if different from borehole dat Ump suction depth Vaterlevel(tatrotofest)	mary (Please supply	er	mm from mm from <u>Bq45</u> um - mbd) form WR39	S · S	to to tr anch Geolog	m/dep m/dep m/dep m (mb ground level.
Casingmaterial Casingmaterial Grouting details Alterssruckat 1 Materssruckat 1 Test pumping datum if different from borehole dat Ump suction depth Vaterlevel(startoftest) Vaterlevel(endoftest) ypeoftest(for example, balle	mary (Please supply um)	er ID S er F in <u>A LE 5</u> 6 h (depth below datu in mbd) <u>Sher</u> full details on 1 mbd mbd	mm from mm from mm from Back s .um . mbd) form WR39 lease tick if t	S · S MikoL Z. 4. 4. His is above D	to to tr amenormal amenormal or below D	m/dep m/dep m/dep m (mb ground level.
Casingmaterial Casingmaterial Grouting details Alterssruckat 1 Materssruckat 1 Test pumping datum if different from borehole dat Ump suction depth Vaterlevel(startoftest) Vaterlevel(endoftest) ypeoftest(for example, balle	adamet diamet BACC S mary (Please supply um) er, step, constantrate)	er ID S er er er IN LE, 5 n (depth below date i full details on 1 mbd mbd mbd	mm from mm from 	A	to to IT Brititional or below D Please tick as ins	m/dep m/dep m/dep m (mb ground level.
Casingmaterial Casingmateria Casingmaterial Casingmaterial Casingmaterial Casingm	mary (Please supply um)	er ID S er er er IN LE, 5 n (depth below date i full details on 1 mbd mbd mbd	mm from mm from 	S · S MikoL Z. 4. 4. His is above D	to to IT Brititional or below D Please tick as ins	m/dep m/dep m/dep m (mb ground level.
Casingmaterial Casingmaterial Grouting details Adterstruckat 1 Subservice at C Test pumping sum C Test (for example, balle umpingrate scovery to	alamet diamet BACC mary (Please supply um) er, step, constant rate) for mbd inda	er ID S er full details on 1 mbd) Street of full details on m. P mbd mbd	mm from mm from 	A	to to IT Brititional or below D Please tick as ins	m/dep m/dep m/dep m/dep ground level.
Casingmaterial Casing	adamet diamet BACC S mary (Please supply um) er, step, constantrate)	er 10 S er er 10 K. LC 5 n (depth below datu i (mbd) string n (depth below datu i (mbd) string n . P mbd mbd mbd mbd mbd mbd	mm from mm from Rec (Rec ()))))))))))))))))))))))))))))))))))	A	to to IT Entrificence or below D Please tick as mins	m/dep m/dep m/dep m/dep ground level.

Borehole record	Nic Bore	holls		British Geological Sa	IVCY BUDGESS		nvironme
Water Resources Act 1991	as amended by the Wate	er Act 2003)	2	٤ /			
A Site details				Eakawa	4 +		
Borehole drilled for K Location 186 k NGR (ten digits)	evin Goddard Shyteledie Row TQ 3341	l, Caterl	um, CR	3 SEC			- 191
Ground level (if known)	- Q 2 24	0 31132				Please a	ttach site p
Drilling company Nic	nolls Boreholos				metr	es Above On	dnance Date
Date drilling commenced	in the second second						
B Construction deta Borehole datum (if not grou (point from which all measur	ills Indievela 🖌 🕬 🕬	(DD/MM/Y)	~				DD/MM/YYY
Borehole drilled diameter	cments of deputare take	in, for example, fi	ange, edge of ci	namber)			
			mm from	516	to	10	m/dep
			mm from mm from				
			mmfrom		to		m/dep
Casing material	C SOLID diamet	er 165 Ple ase record per	mm from	GIL	_ to _	4	m/dep
Casing material <u>PLAST</u> (and type (for example, if plai Casing material <u>PLAST</u> Casing material Casing material Grouting details 200	diamet	er er	mm from mm from mm from	6/L details. not te 4	to mpor ar to to to	4 ycasing. 10	m/dept
Casing material Casing material Grouting details 20	diamete BACS SHIN	er (0) er er J(LE 5	mmfrom mmfrom mmfrom	6/L details. not te 4 M. Kal	to mpor ar to to to	4 ycasing. 10	m/dept
Casing material Casing material Grouting details Water struckat 1.	diamet diamet BACS SHIM	er er JCLE, 5	mmfrom mmfrom mmfrom	6/L details. not te 4	to mpor ar to to to	4 ycasing. 10	m/dept
Casing material Casing material Grouting details Water struckat and details 3.	diamete diamete BACS SUm m	er er J C L E, 5 0 (depth below da ((mbd))	mmfrom mmfrom <u>mmfrom</u> <u>Bass</u> itum-mbd)	G/L details. not te 4 M.K.s.L 2. 4.	to mpor ar to to to	4 ycasing. 10	m/dept
Casing material Casing material Grouting details Water struckat and details 3.	diamete diamete BACS SUm m	er er J C L E, 5 0 (depth below da ((mbd))	mmfrommmfrom mmfrom Bass itum-mbd)	G/L details. not te 4 M.K.s.L 2. 4.	to mpor ar to to to	4 ycasing. 10	m/dep m/depi m/depi
Casing material Casing material Grouting details Water struckat C Test pumping summ Test pumping datum	diamet diamet BACS SHID mary (Please supply	erS erS o (depth below da t (mbd) Sure full details or	mm from mm from mm from RASS Itum - mbd)	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept
Casing material Casing material Grouting details Waters truckat C Test pumping summ Test pumping datum (if different from borehole dat	diamet diamet BACS SHID mary (Please supply	erS erS o (depth below da t (mbd) Sure full details or	mmfrommmfrom mmfrom Bass itum-mbd)	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept m/dept
Casing material Casing material Grouting details Water struckat C Test pumping summ Test pumping datum (if different from borehole dat Pump suction depth	diamet diamet BACS SHID mary (Please supply	erS erS o (depth below da t (mbd) Sure full details or	mm from mm from mm from mm from mm from Bases i titum - mbd) form WR39 Please tick if th	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept m/dept
Casingmaterial Casingmaterial Grouting details Water struckat Mater struckat C Test pumping datum (If different from borehole dat Pump suction depth Water leve(startoftest)	diamet diamet BACS SHID mary (Please supply	er er o (depth belowda ((mbd) full details or m.	mm from mm from mm from mm from Max is a set of the set of t	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept m/dept
Casing material Casing materia	BACS SHIP	errr	mmfrom mmfrom mmfrom trum mbd) form WR39 Please tick if the	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept m/dept
Casingmaterial Casingmaterial Grouting details Water struckat Mater struckat C Test pumping datum (If different from borehole dat Pump suction depth Water leve(startoftest)	BACS SHIP	errr	mmfrom mmfrom mmfrom trum mbd) form WR39 Please tick if the	6/L details. not te 4 M.Kal 2. 4.	to to to to to	4 ycasing. l O	m/dept m/dept m/dept m/dept m/dept
Casing material Casing materia	BACS SHIP	full details or mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	mmfrommmfrom mmfrom httum - mbd) form WR39 Please tick if th d d	GIL details. not te 4 2. 4.	to mbor ar to to to to British	4 ycasing. LO Geological San W D groun	m/depi m/dept m/dept m (mbd m (mbd d level.
Casing material Casing materia	alamet diamet Bacs Strin mary (Please supply um)	full details or mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	mmfrom mmfrom Racs itum -mbd) form WR39 Please tick if th d d d hour D or littre:	GIL details. not te 4 2. 4. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	to	4 ycasing. 10 Geological San w D groun	m/dept m/dept m/dept m (mbd
Casingmaterial Casingmaterial Grouting details Grouting details Counting d	alamet diamet Bacs Strin mary (Please supply um)	er (0) er (0) cr (mbd) (mmfrommmfrommmfrommmfrommmfrommmfrommtronmtronmmrrowm	6/L details. not te 4 2. 4.) ifs is above D	to mporar to to to to to to to or bein Please to 	4 ycasing. 10 w D groun	m/depi m/dept m/dept m (mbd m (mbd d level.
Casingmaterial Casingmaterial Casingmaterial Grouting details Qo Waterstruckat I. C C Test pumping datum (If different from borehole dat Pump suction depth Waterlevel (endof test) Type of test (for example, balle Pumping rate Recovery to from end of pumping)	diamet	er (0) er (depthbelowd, (mbd) (mbd) (mbd) (mbd) full details or m mt m t mb m mt m f g.	mmfrommmfrommmfrommmfrommmfrommmfrommtronmtronmmrrowm	GIL details. not te 4 2. 4. 3) ifs is above D	to mpor ar to to to etc or belo Please tr mins	4 ycasing. 10 w D groun	m/dept m/dept m/dept m (mbd m (mbd d level.
Casingmaterial Casingmaterial Grouting details Grouting details Counting d	mary (Please supply um) for .day for .day Pumpstared	er (0) er JLLE, 5 Ildepthbelowd: (mbd) full details or m, mt mb mb m, mb	mmfrommmfrommmfrommmfrom mmfrommfrom Bacs i turn mbd) i form WR39 Please tick if th d d d d	6/L details. not te 4 2. 4.) ifs is above D	to mpor ar to to to etc or belo Please tr mins	4 ycasing. 10 w D groun	m/dept m/dept m (mbd m (mbd d level,
Casingmaterial Casingmaterial Casingmaterial Grouting details Qo Waterstruckat I. C C Test pumping datum (If different from borehole dat Pump suction depth Waterlevel (endof test) Type of test (for example, balle Pumping rate Recovery to from end of pumping)	alianet diamet d	er (0) er (1) er (1)	mmfrommmfrommmfrommmfrom mmfromRacs i turn mbd) hform WR39 Please tick if th d d d whour D or littre	6/L details, not te 4 2. 4. is is above D s/second D, 1. hours, hours,	to mpor ar to to to etc or belo Please tr mins	4 ycasing. 10 w D groun	m/dept m/dept m/dept m (mbd m (mbd d level.

page 1 of 3

Geological C classification (BGSonly)	lescription of si	rata				Thickness m	Depth (to base of strata) m
	Park	brown clay Fractured	with	large	Flints	6.00	
	Hard	Grantwed	chalk	and	Flint	4.00	10.00
						я.	
		eparatepageifnecessa				British Geological Su	nej
	Other comme	nts (for example, gas en	countered, salii	ne water inte	cepted)		
E Completing How long did it take y		is form?					
For Official use							
Date received (D		File		onsentnumb	er	BGS reference n	lumber
Accession number	r	Wellmaster number Britch Geologica Purpose		OBI number		EAreferencenu	mber
Copy number		Entered by					

WR38: Borehole record form

Geological classification (BGSonly)	Briten Geological Survey Description of strata	Thickness m	Depth (tobase ofstrata) m
	Park brown clay with large flint Hard Gractured chalk and flint	9.60	9.60
	Hard Gractured chalk and flint	0.80	10.40
	British Geological Survey	British Geological St	
			and a second difference of the
ogical Survey	(continue on separate page if necessary)	Brilish Geological St	Naj
E Completin	Other comments (for example, gas encountered, saline water intercepted) gthis form		
	e you to fill in this form?		

Date received (DD/MM/YYYY) Accession number	File	Consent number	BGS reference number
	Wellmaster number	SOBI number	NGR
LIC NO	Purpose	2	EAreferencenumber
Copy number	Entered by		
L	L		

WR38 Version 2, February 2011

Borehole record	Nicholis Boreholes		British Geological Su	rvey ⁰ itlish (Hillish coarce		wironmer gency
Water Resources Act 1991 (as amended by t	he Water Act 2003)	6	Scakaway	ĝ		
A Site details		······	Lindidig	5		
Boreholedrilled for Kevin Ga	ddard					
Location 186 Whyteleofo	Royl Cate	ham, CI	23 550			
NGR (ten digits)	3381 57124					
Ground level (if known)	3331 J 112					tach site pla
NY TH O	endos			_ metre	s Above Orc	Inance Datu
Date dritting commenced [L-03-[• (DD/MM/	YYYY) Complet	red 12-0	5-16	(I	D/MM/YYY
B Construction details						
Borehole datum (if not ground level)	British Geological Survey are taken, for example	tres (m). Please	tick if this is ab	ove D o	r below D	ground leve
(point from which all measurements of depth	are canen, for example	, nange, eugeon	chamber)			
Borehole drilled diameter	250	mm from				m/dept
	L	mm from		to		m/dept
	L	mm from				m/dept
Casing material <u>PLISTIC Solim</u> and type (for example, if plain steel, plastic sl Casing material <u>PLASTIC SIGTED</u>	diameter 165	mm from mm from permanent casin mm from	G/L	to	4.4	m/dept
Casingmaterial PLASING SIGTED	diameter 65	mm from Dermanent casin mm from mm from	61L e details. not te 4 · 4	to emporary to to	4.4 vcasing. 10.4	m/depi m/depi
Casing material Casing material Casing material	diameter6S diameter diameter	mm from Dermanent casin mm from mm from mm from	6/L e details. not te 4 · 4	to emporary to to	4.4 vcasing. 10.4	m/dept m/dept m/dept
Casingmaterial	diameter 165 diameter diameter diameter5	mm from permanent casin mm from mm from BASS	G/L e details. not te 4 · 4 Millali	to emporary to to	4.4 vcasing. 10.4	m/depi m/depi m/depi
Casingmaterial Casingmateria Casingm	diameter 165 diameter diameter diameter diameter m (depth below	mm from permanent casin mm from mm from BASS	6/L e details. not te 4 · 4 Millali	to emporary to to	4.4 vcasing. 10.4	m/depi m/depi m/depi
Casingmaterial Casingmateria Casingmaterial Casingmaterial Casingmaterial Casingm	diameter 165 diameter diameter diameter5	mm from permanent casin mm from mm from BASS	G/L e details. not te 4 · 4 Millali	to emporary to to	4.4 vcasing. 10.4	m/depi m/depi m/depi m/depi
Casingmaterial Casingmaterial Casingmaterial Casingmaterial Consignmaterial Consignmaterial Consignmaterial Construction C	diameter65_ diameter65_ diameter65_ diameter65_ diameter65_ m (depth below m (mbd)	mm from permanent casin mm from mm from mm from BACS rdatum - mbd)	6-1L g details. not te 4 · 4 Mulkal., 2.	to emporary to to	4.4 vcasing. 10.4	m/depi m/depi m/depi m/depi
Casingmaterial Casingmaterial Casingmaterial Casingmaterial Consignmaterial Consignmaterial Construction of the construction o	diameter <u>165</u> diameter <u>diameter</u> diameter <u>diameter</u> <u>diameter</u> <u>diameter</u> <u>m</u> (depth below <u>m</u> (mbd) supply full details	mm from permanent casin mm from mm from BACS datum - mbd)	6/L e details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/depi m/depi m/dept m/dept m (mbc
Casingmaterial Casing	diameter <u>165</u> diameter <u>diameter</u> diameter <u>diameter</u> <u>diameter</u> <u>diameter</u> <u>m</u> (depth below <u>m</u> (mbd) supply full details	mm from permanent casin mm from mm from mm from BACS rdatum - mbd)	6/L e details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/depi m/depi m/dept m/dept m (mbc
Casingmaterial Casing	diameter <u>165</u> diameter <u>diameter</u> <u>diameter</u> <u>diameter</u> <u>m (depth below</u> <u>m (mbd)</u> supply full details	mm from ermanent casin mm from mm from BASS (datum - mbd) on form WR3 m. Please tick if	6/L e details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m (mbd
Casingmaterial Casingmaterial Casingmaterial Casingmaterial Casingmaterial Consignmaterial Consignmaterial Casingmaterial Construction of the casingmaterial Construction of the casingmaterial Construction of the casing	diameter diameter diameter 		6/L e details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m (mbd
Casingmaterial Casing	diameter diameter diameter diameter diameter m (depth below m (mbd) supply full details	mm from permanent casin mm from mm from BACS (datum - mbd) on form WR3 m. Please tick if mbd	6/L 9 details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m (mbd
Casingmaterial Casing	diameter	mm from permanent casin mm from mm from BACS (datum - mbd) on form WR3 m. Please tick if mbd	6/L 9 details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m (mbd
Casingmaterial Casing	diameter	mm from permanent casin mm from mm from BACS (datum - mbd) on form WR3 m. Please tick if mbd	6/L 9 details. not te 4 · 4 Multal. 2. 4. 9)	to embor any to to to r	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m (mbd
Casingmaterial Casingmaterial Casingmaterial Casingmaterial Casingmaterial Consignmaterial Consignmaterial Consignmaterial Consignmaterial Construction of the constru	diameter	mm from permanent casin mm from mm from BACS datum - mbd) on form WR3 m. Please tick if mbd mbd	6/L details. not te 4 · 4 MILCoL. · 2 4 9) this is above D	to embor and to to to to to to to to	4.4 ycasing. 10.4	m/dept m/dept m/dept m/dept m/dept m (mbd m (mbd
Casingmaterial Casing	diameter	mm from permanent casin mm from mm from BACS (datum - mbd) on form WR3 m. Please tick if mbd	6/L details. not te 4 · 4 MILCoL. · 2 4 9) this is above D	to embor and to to to to to to to to	4.4 ycasing. 10.4	m/dept m/dept m/dept m (mbd m (mbd m (mbd
Casingmaterial Casing	diameter	mm from permanent casin mm from mm from Market Casin mm from mm from mm from mm from mm from mm from mm from mm from mm from mm from mm from mm from mm from m	6/L details. not te 4 · 4 MILCoL. · 2 4 9) this is above D	to toto to _to	4 . 4- ycasing. [0.4] sedogica dun ww D groun	m/dept m/dept m/dept m/dept m/dept m (mbd m (mbd
Casing material Casing material Casing material Casing material Casing material Casing material Constraints and the casing material Constraints and the casing material Casing	diameter diameter diameter diameter diameter diameter m (depth below m (mbd) supply full details trate)	mm from permanent casin mm from mm from mbd mbd mbd mbd mbd mbd mbd mb	6/L a details. not te 4 · 4	Lito	4.4 vcasing. [0.4] w D groun	m/dept m/dept m/dept m (mbd m (mbd m (mbd
Casingmaterial	diameter diameter diameter diameter diameter diameter supply full details supply full details trate) for (days for (days diameter diameter for (days)	mm from permanent casin mm from mm from mbd mbd mbd mbd mbd mbd mbd mb	6/L o details. not te 4 · 4 <u>MillSeL</u> . 2. 2. 9) 1) is above D res/second D. hours	Li to moor any toto _to	4.4 vcasing. [0.4] w D groun	m/dept m/dept m/dept m (mbd m (mbd m (mbd d level.
Casingmaterial	diameter diameter diameter diameter diameter m (depth below m (depth below m (depth below m (mbd) supply full details supply full details for fordays d d	mm from permanent casin mm from mm from mbd mbd mbd mbd mbd mbd mbd mb	6/L o details. not te 4 · 4 <u>MillSeL</u> . 2. 2. 9) 1) is above D res/second D. hours	Li to moor any toto _to	4 . 4 vcasing. [0 . 4 w D groun	m/dept m/dept m/dept m/dept m/dept m (mbd m (mbd

WR38 Version 2, February 2011

APPENDIX F

CGL Risk Assessment Methodology



CGL Risk Assessment Methodology

The following risk Assessment methodology is based on CIRIA C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice¹, in order to quantify potential risk via risk estimation and risk evaluation, which can be adopted at the Phase I stage. This will then determine an overall risk category which can be used to identify likely actions. This methodology uses qualitative descriptors and therefore is a qualitative approach and is undertaken for each potential pollution linkage (source-pathway-receptor) identified for the site in accordance with Land Condition Risk Management³.

The methodology requires the classification of:

- The magnitude of the consequence (severity) of a risk occurring, and
- The magnitude of the probability (likelihood) of a risk occurring.

The potential consequences of contamination risks occurring at this site are classified in accordance with Table 1 below, which is adapted from the CIRIA guidance¹.

Table 1. Classifications of Consequence ratings

Classification	Definition of Consequence	Examples				
Severe	Short-term (acute) risks to human health.	High concentration of cyanide on the surface of an informal recreation area				
	Short-term (acute) risk of pollution of sensitive water resource or ecosystem.	Major spillage of contaminants from site into controlled waters				
	Catastrophic damage to crops/buildings/property/infrastructure, including off-site soils.	Explosion causing building collapse				
Medium	Long-term (chronic) risks to human health	Concentrations of a contaminant from site exceeding the generic or site specific assessment criteria				
	Long-term (chronic) pollution of sensitive water resource	Leaching of contaminants from a site into a major or minor aquifer				
	Significant change in an ecosystem/contamination of off-site soils	Death of a species within a designated nature reserve				
Mild	Pollution of non-sensitive water resource	Pollution of a non-classified groundwater				
	Significant damage to crops/ buildings/property/infrastructure	Damage to a building rendering it unsafe to occupy (e.g. foundation damage resulting in instability)				
	Damage to an ecosystem or sensitive buildings/structures/services					
Minor	Easily preventable non-permanent health effects	Presence of contamination at concentrations which require the use of personal protective equipment during site work				
	Harm, although not necessarily significant harm, which may result in financial loss or expenditure to resolve	Loss of plants in a landscaping scheme/discolouration of concrete				
	Easily repairable effects of damage to buildings/structures/services					

¹ CIRIA, (2001). Contaminated Land Risk Assessment. A Guide to Good Practice. CIRIA C552.

² M.J. Carter Associates, (1995). *Prioritisation and Categorisation Procedure for Sites Which May Be Contaminated*. Contaminated Land Report 6. Department of the Environment. C

³ Land Condition Risk Management - https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm



The potential probability of the risks being realised are classified in accordance with the ratings set out in Table 2 which are adapted from the CIRIA guidance¹. It should be noted that where a pollutant linkage has not been identified the likelihood is considered to be zero.

Classification	Definition									
High likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor that an event has occurred									
Likely	There is a pollution linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term									
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place and is less likely in the short term.									
Unlikely	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long term									

In accordance with C552 the risk classification for each pollution linkage are classified in accordance with the matrix for consequence and probability set out in Table 3. The definitions for the risk classifications are presented in Table 4.

Table 3. Risk classification matrix

		Consequence										
		Severe	Medium	Mild	Minor							
	High likelihood	Very High	High	Moderate	Moderate / Low							
bility	Likely	High	Moderate	Moderate / Low	Low							
Probability	Low likelihood	Moderate	Moderate / Low	Low	Very Low							
	Unlikely	Moderate / Low	Low	Very Low	Very Low							

Classification	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from the identified hazard or there is evidence that severe harm is currently happening. This risk, if realised, is likely to result in substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from the identified hazard. Realisation of the risk is likely to result in substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
Moderate	It is possible that harm could arise to a designated receptor from the identified hazard. However, it is either relatively unlikely that such harm would be severe or if any harm were to occur it is more likely that the harm would be relatively mild. Urgent investigation (if not already undertaken) is normally required to clarify the potential risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low	It is possible that harm could arise to a designated receptor from the identified hazard, but it is considered likely that this harm, if realised, would at worse normally be mild.
Very Low	There is a low possibility that harm could arise to a designated receptor from the identified hazard. In the event of such harm being realised it is not likely to be severe.

APPENDIX G

Borehole and Excavation Records

	tle: Ken ent: Dan		npus, Caterham, Su ney LLP	rrey					atus: NAL			Locatio BH			CGL			
	Metho	d and Pl	lant Used		Grou		-	Loostion Tu	Location Type: Cable percussion (shell and auger)						Part of the CTS Group●			
From (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike	Strike (m) Time (min) Ros						•				1	d Geotechnic dalming Busin	,	
1.20	15.45	СР	Cable Percussion Borehole Rig					Coords: 533 Ordnance Su					171.820m		-	Woolsack V Godalmir	Vay,	
								National Grid	1			Depth:	15.45 n	n	_	Surrey,	0,	
								Orientation	1:	0°	Incli	nation:	90°		-	GU7 1XV www.cgl-uk		
								Date Star	t: 09/1	12/2022		te End:	12/12/20)22		Sheet 1 c		
Sample	Sar Type/	nples & Te	ests Tests/Results	Water Level	0	Strata Depth	Level (m)				Strata	Description					Inst/ E Backfill	
Depth (m)	Ref			(m)	10,252	(m) 0.10	171.72	Concrete.									হা চ্য	
				5		0.20	171.62	[CONCRETE] Medium dense w	ubito subs	ngular m	dium to o	oorso shal	k grouel					
						0.50	171.32	[MADE GROUND]								/	
							-]	Soft to firm orang gravel.			h occasior	al angular	r to subroun	ded fi	ne to coars	se flint		
1.10	D 1 SPTLS 2	CDT/C) 1	L20m N=12 (3,4/2,3,2,5)					[CLAY-WITH-FLIN Firm to stiff red n			' with occa	isional ang	gular to roun	ded fi	ne to coar	se flint		
L.20 - 1.65	SPILS 2		Recovery=100%				-	gravel and rare p [CLAY-WITH-FLIN	,		d organic ı	natter.						
							-											
2.00	D 3	Ublo	ws=100 Recovery=0%				-											
2.00 - 2.20 2.00 - 2.50	U 4 B 5						-	from 2.00 to from 2.00 to	-									
							-											
							-											
3.00 3.00 - 3.45	D 6 SPTLS 7		8.00m N=18 (1,2/3,4,4,7) Recovery=100%			3.00	168.82	Stiff to very stiff r	red browr	CLAY wit	h freguent	angular t	o subangula	r fine	to coarse f	lint gravel		
							-	and occasional or [CLAY-WITH-FLIN	-			•	-			-		
				-	from 3.45 to		-	ecomes soj	ft									
						4.00	167.82											
4.00 1.00 - 4.45	D 8 SPTLS 9		4.00m N=5 (1,1/1,1,1,2) Recovery=100%	-		4.00	107.82	Structureless CH/ angular to suban			-					•		
							-	through occasion	nal red-bro	own patch			C. LUCAIISEU C	1155011		aik renecteu		
							-	[WHITE CHALK SI 4.00m bgl - F		-	s as white	clay						
5.00	D 10		5.00m N=9 (1,1/2,2,2,3)			5.00	166.82	Church malage CI	ALK					h. CU 7	Canadiana		$- \square$	
5.00 - 5.45	SPTLS 11		Recovery=100%				-	Structureless CH/ is low to medium	n density,	weak, ang	ular and fi	ne to med	lium of whit					
							-	of chalk reflected [WHITE CHALK SI	-		l red inclu	sions. (Gra	ade Dm)					
							-	5.00m bgl - 5	Subangulo	ar very hig	h density,	moderate	ly strong cho	alk col	oble			
6.00	D 12					6.00	165.82	Structureless CH	ALK comp	osed of w	hite grave	lly SILT. Gr	avel is high c	densit	y, moderat	tely weak,		
						6.50	165.32	angular to suban rare red inclusior	-		white cha	lk. Localise	ed dissolutio	on of c	halk reflec	ted through		
6.50 - 6.95	SPTLS 13		5.50m N=28 (2,7/5,7,8,8) Recovery=100%			0.50	105.52	[WHITE CHALK SI Structured CHALI			e slightly a	gravelly SIL	.T. Gravel is l	ow de	ensity. verv	weak.		
7.00	D 14					7.00	164.82	angular and fine red inclusions.										
7.00	014						1	[WHITE CHALK SI Structured CHALI		-	with occa	ional gray	val. Graval is	high	loncity me	adaratoly		
							-	weak, subangula	r and fine	to mediu		-		-				
							-	through rare red [WHITE CHALK SI										
8.00 8.00 - 8.45	D 15 SPTLS 16		.00m N=37 (3,9/14,8,8,7) Recovery=100%			8.00	163.82	Structured CHALI	K recover	ed as sligh	itly sandy i	gravelly SII	LT. Gravel is l	high d	ensitry, mo	oderately	* • •	
							-	weak, angular to dissolution of cha	subangul	ar and co	arse of wh	ite chalk. S	Sand is fine t					
							-	[WHITE CHALK SI		-	marcrea	Inclusions						
						9.00	162.82											
9.00	D 17					9.00	102.82	Structured CHALI to moderately str		-				-				
9.50 - 9.95	SPTLS 18	CDT/C) O	9.50m N=19 (3,4/5,4,4,6)			9.50	162.32	of chalk reflected	d through	rare redd	-					-	* • •]	
5.50 - 5.95	5, 16 10		Recovery=100%			T	-	Structured CHALI subangular, fine t	K recovere	ed as SILT		gravel. Gra	ivel is mediu	m dei	nsity, weak	, angular to		
10.00	D 19			[10.00	161.82	[WHITE CHALK SI		']								
otes:									Hole D	Stri	ata continu Ca	ues onto n	ext page Hamme	er Infor	mation	Scale	e: 1:50	
Position te			epth of 15.45 mbgl						Depth	Diam	Depth	Diam	Energy Ratio	-	Serial No.	Logged By		
Installation		00 to 4.00	m 50mm plain pipe and C			onite se	al; 50mm	slotted pipe and	(m) 15.00	(mm) 150	(m) 9.00	(mm) 150	64%		BHDS04	Checked By		
			n. Bung, gas tap and flush we 1.2 mbgl based on Eng			ıs.							Install Re		1	Approved By Section IE		
														om (m) 1.00	To (m) 15.00		eference	
														-		CG/	39415	

GL					Locatio BH:			atus: NAL					,		niel Watr	ent: Dar					
Part of the CTS oroup w				Location Type: Cable percussion (shell and auger)							ndwate	- 1	Strike	ant Used			rom (m)				
ness Cer Nay,	d Geotechnics Ialming Busine Woolsack W		Эm	171.820	_	-	E/15749	3157.040	Coords: 53 Ordnance Su	Rose To	i) Time (min) Rose			Plant Used Hand Dug Cable Percussion Borehole Rig	Type IP CP	To (m) 1.20 15.45	rom (m) 0.00 1.20				
	Godalmin Surrey,		5 m	15.45	epth:	Final I	Diftaili		National Gri					Derendre mg							
	GU7 1XW www.cgl-uk.)°	90°	ation:	Inclir	0°	ו:	Orientatio												
	Sheet 2 of		2022	12/12/2	End:	Dat	2/2022	t: 09/1	Date Star												
Inst/					escription	Strata [Level		Legend	Water	sts	imples & Te	Sa					
Backf									ructured CHAL eak, angular to		Depth (m)	/Cover	Level (m)	Tests/Results	Sample Type/ Tests/Results epth (m) Ref						
								-	gular, mediun /HITE CHALK S	· [v											
	angular to subangular, medium of white chalk. Sand is fine to coarse. Rare angular to subangular, fine to coarse flint gravel.									11.00 1.00 - 11.45											
	Image: Construction of the second												D 22	12.00							
		alk.	f white c	coarse of	d fine to avel. Gra	ith rare g	lar to subi] d as SILT v	k, subangu UBGROUP K recovere	oderately wea /HITE CHALK S ructured CHAL	- m 159.32 [W . St	12.50			.50m N=50 (7,16/50 for 245mm)		SPTLS 23	2.50 - 12.90				
	erately	sity, mode		vel is very	ILT. Grav	y gravelly	 d as slight	UBGROUP K recovere	gular to subro /HITE CHALK S ructured CHAL rong, subangu	158.82 [W	13.00			Recovery=100%	13.00 D 24						
									/HITE CHALK S												
	edium of	fine to me	gular and	to subang	angular	ely strong	o modera	ely weak t d is fine to	ructured CHAL nsity, modera nite chalk. San brounded cha	_ de _ wl	14.00			0m N=50 (5,7/10,15,13,12) Recovery=100%		D 25 SPTLS 26	14.00 4.00 - 14.45				
							d as white	UBGROUP K recovere	HITE CHALK S	[W	15.00			.00m N=23 (2,3/4,5,5,9) Recovery=100%		D 27 SPTLS 28	15.00 5.00 - 15.45				
	alk reflected	ion of cha		arget dep			5.]	wn patche	gular to subar rough red-bro /HITE CHALK S	156.37 th	15.45										
										-											
										-											
										-											
	1			[
e: 1:50			imer Infori		g Diam	Cas Depth	ameter Diam	Hole Di Depth						pth of 15.45 mbøl	at target de	minated =					
y: A	Scale Logged By Checked By	erial No.	latio S	Energy Ra	Diam (mm)	Depth (m)	Diam (mm)	Depth (m)	ted pipe and	: 50mm slot	onite sea	00m bento).00 to 4	pth of 15.45 mbgl n 50mm plain pipe and 0	ountered	water enco	No ground				
y: A y: I	Logged By	erial No. HDS04	latio S	Energy Ra	Diam	Depth	Diam	Depth	ted pipe and	; 50mm slot		talled	cover ins	pth of 15.45 mbgl n 50mm plain pipe and 0 . Bung, gas tap and flush re 1.2 mbgl based on Eng	ountered .00 to 4.00r n to 15.00m	water enco details: 0. om 4.00m	Position ter No ground Installation Ivel filter fr				

		nley Carr niel Wat	npus, Caterham, Sur ney LLP	rrey					itus: NAL		Location II)		CGL		
	Method and Plant Used m (m) To (m) Type Plant Used					ndwat		La satis a Tur	e: Trial pit/tre	art of the CTS Group®	of the CTS Group●					
rom (m) 0.00	To (m) 4.00	Type TP	Plant Used Wheeled Hydraulic Excavator	Strike	(m) Tin	ne (min)	Rose To	Coords: 533 Ordnance Surv	157.830E/157	175.340N	Level: 17	5.150m 4.00 m		d Geotechnics dalming Busine Woolsack W Godalming	ss Centre ay,	
								National Grid Orientation:	70°	Inclin		°	_	Surrey, GU7 1XW www.cgl-uk.c		
								Date Start:	07/12/202	2 Date	e End: 07	7/12/2022		Sheet 1 of		_
Sample	Sa Type/	mples & Te	ests Tests/Results	Water Level	Legend	Depth	Level (m)			Strata D	escription				Inst/ Backfill	De (
0.20 0.50 0.50	Ref ES 1 ES 2 B1 D1 B2 D2		V 0.50m (p)= 63 kPa V 1.60m (p)= 75 kPa			1.40	175.80 - - - - - - - - - - - - - - - - - - -	Soft to firm slightl medium flint grav [CLAY-WITH-FLINT	o medium. Root ey brown CLAY v 'S FORMATION] ottled orangey t el. 'S FORMATION] ecoming increas y sandy slightly el. Sand is fine t 'S FORMATION] ccasional flint co	vith frequent a prown CLAY wi ingly red with silty CLAY with o coarse.	th occasional a	l angular to su	nt gravel and	rare flint		
No ground	lwater enc	ountered	epth of 4.0mbgl upon completion				-		Test No.		away Tests Duration (hh:n	nm) Infilt	ration Rate	Scale: Logged By: Checked By:	ADE	
			sed on Engineer's observa	tions										Approved By:		3
								-	Stabi		t Details Shoring	Length (m)	Width (m)	Section ID:		
									Stab		None	2.30	0.65	CGL Re	ference	

CG/39415

		nley Cam niel Wati	ipus, Caterham, Sur ney LLP	rey					atus: NAL		Location II TP10	C			GL	
	Metho	d and Pl	ant Used			ndwa	_	Leastian Tu	pe: Trial pit/trer	ch			Р	art of the CTS Group		
From (m) 0.00	To (m) 3.70	Type TP	Plant Used Wheeled Hydraulic Excavator	Strike	(m) Tin	ne (min) Rose T	Coords: 53	3082.400E/1574 rvey Great Britain		Level: 17	2.310m 3.70 m		d Geotechnics dalming Busine Woolsack W Godalming	ss Centre ay,	
								National Grid				s.70 III 。	_	Surrey, GU7 1XW		
								Orientation		Inclina				www.cgl-uk.c		
						<u>.</u>		Date Star	t: 06/12/2022			5/12/2022		Sheet 1 of		_
Sample	Sa Type/	amples & Te	rests/Results	Water Level	Legend	Depth	Level (m)			Strata De	escription					Dep (m
Depth (m)	Ref			(m)		(m)		Asphalt overlying	g concrete.							
						0.10	172.21	[CONCRETE]	gular and coarse c	halk gravel wi	th occasion	al angular to	suhangular	medium to		I
						0.35			flint and cobbles o			an angular to	Subungulu			I
0.40	ES 1					0.45	171.86	from 0.15 to	0.35m bgl - Chalk				-1 -6			1
								[MADE GROUND			-	coarse grav	el of brick ar	na fiint.		I
								Soft dark brown	0.45m bgl - Brick CLAY with frequen	red fine sandy t angular to s	<i>y patches</i> ubangular fi	ne to coarse	e flint gravel.]		1
							-	[CLAY-WITH-FLIN	ITS FORMATION]							I
1.00	D1	HSV	/ 1.00m (p)= 53 kPa				-									
1.00	ES 2						-									I
							_									I
							-									I
						1.60	- 170.71									1
								Stiff red mottled Occasional flint of	brown CLAY with t obbles.	requent angu	ılar to subro	unded fine t	o coarse flir	nt gravel.		1
								[CLAY-WITH-FLIN		reasinaly red i	in colour					
								1.0011 by		cushigiy icu i	in colour					
							-									
							-									1
2.30 2.30	B 1 D 2	HSV	/ 2.30m (p)= 53 kPa				_	2.30m bgl -	Frequent flint cobb	les						I
							-									I
							-									I
							_									I
							-									1
							-									I
							_									1
							-									1
						3.70	168.61									1
									EC	H at 3.70m - Ac	hieved target	depth				
							-									1
							_									
																1
							-									
							-									
tes:									Took Min		away Tests		wation: Dut	Scale:	1:25	_
lo ground	dwater end	ountered	pth of 3.7mbgl						Test No.	Date D	Ouration (hh:	inini) Infilt	ration Rate	Logged By:		
rial pit ba	ickfilled wi	th arisings (upon completion ed on Engineer's observat	ions.										Checked By: Approved By:		
									Stabili		Details Shoring	Length (m)	Width (m)	Section ID:		
									Stabil		None	Length (m) 2.50	0.60	CGL Re CG/3	ference	

CG/39415

			npus, Caterham, Sur	rey					Status:		Location I)			CI	
CII		niel Wat od and P	iney LLP lant Used		Grou	indwa	iter	_	FINAL		TP11		Pa	art of the CTS Group •		
From (m)	To (m)	Туре	Plant Used	Strike		ne (min		To Location	Type: Trial pit/tr	ench			Car	d Geotechnics	Limited,	
0.00	4.00	TP	Wheeled Hydraulic Excavator					Coords: 5	33134.980E/15	7361.700	N Level: 17	2.740m	4 Goo	alming Busine Woolsack W		e,
								Ordnance National G	Survey Great Brita rid	ⁱⁿ Fin	al Depth:	4.00 m		Godalming		
								Orientati		I	clination:	•	-	Surrey, GU7 1XW		
													_	www.cgl-uk.c	om	
						1		Date St	art: 07/12/20			7/12/2022		Sheet 1 of		_
Sample	Sa Type/	imples & Te	ests Tests/Results	Water Level	Legend	Depth	Level (m)			Stra	ata Description				Inst/ Backfill	Dep (m
0.10	Ref ES 1			(m)		(m)	-		avelly sand. Sand int cobbles and oi		arse. Gravel is ar	igular to sub	rounded, fin	e to coarse		
0.30	D 1					0.25	- 172.49	[MADE GROUI		-	ered as clavey gr	avel Graveli	s angular fir	ne to coarse		
0.30	ES 2					0.50	172.24	of chalk. [MADE GROUI	-				o angalai) in			
0.50 0.50	D 2 ES 3	HS	W 0.50m (p)= 76 kPa		×	0.50			ottled red slightly	sandy slight	ly silty CLAY with	occasional	angular, fine	to coarse		
					×	-	-	[CLAY-WITH-F	INTS FORMATION							
					× ×		-	0.50m bgi depth.	- Occasional yello	w and black	streaks. Litholo	gy becoming	more red w	vith		
					×— –		-	·								
					× ×		-	1.00m bg	- Rare to occasior	nal flint cobb	oles					1
					× ×											
					× ×											
					× ×											
					×— - ×		-									
					× ×		-									
					× 		-									
					×— - ×		-									
2.00	B 1				× ×											2
					× 											
					× 		_									
						-	-									
					×	-	-									
					×_^- 		-									
					×	-	-									
					×	-										
					×	-										
					×	-	-									3
					×_×	-	-									
					×_×_	-	-									
					×		-									
					×_×_											
					<u>×</u>		-									
					<u></u>	4.00	168.74									
										EOH at 4.00m	 Achieved target 	depth				4
							-									
							-									
							-									
							-									<u>-</u>
otes:									Test No.		Soakaway Tests	nm) Lafe	ation Bata	Scale:	1:25	
Position te No ground			epth of 4.0mbgl						Test No.	Date	Duration (hh:	nm) Infiltr	ation Rate	Logged By:	AD	
Trial pit ba	ickfilled wi	th arisings	upon completion											Checked By:	Ы	
consisten	cies and d	ensities bas	sed on Engineer's observa	tions							Pit Details			Approved By:	RN	S
										oility	Shoring		Width (m)	Section ID: CGL Re	ferenco	2
									Sta	ble	None	2.40	0.59	CGL Ne		-
									1		1	1	1			

			pus, Caterham, Sur	rey				Status	s:	Lo	ocation ID				~	
Cl		niel Watn		1		1		FINA	L		TP12		Par	t of the CTS Group®	GL	
From (m)	Metho To (m)	d and Pla _{Type}	ant Used Plant Used	Strike		indwate	er Rose T	Location Type:	Trial pit/trer	ich						
0.00	3.70	TP	Wheeled Hydraulic	SUIKe	(m) m	ne (min)	Rose I	Coords: 53313			aval: 172 (220m		l Geotechnics alming Busine		
			Excavator					Ordnance Survey			evel: 173.0			Woolsack Wa	ay,	-,
								National Grid		Final Dep	oth: 3	.70 m		Godalming Surrey,	,	
								Orientation:	160°	Inclinat	ion:	•		GU7 1XW		
								Date Start:	07/12/2022	2 Date E	nd: 07/	12/2022		www.cgl-uk.c		
	C-	amples & Tes	te	Water	Legend	Strata	Level		07/12/2022	Strata Desc		12/2022		Sheet 1 of		Depth
Sample	Type/	r	Tests/Results	Level	LeBend	Depth	(m)			Strata Best	- iption				Backfill	
Depth (m)				(m)		(m)	_	Grass over dark brow	yn sandy clay	Sand is fine to n	nedium Fred	uent angula	or to suban	gular fine		
0.30 0.30 0.30 0.30 1.50 1.50 1.50	B1 ES1 ESES1 D1 ES2 B2 D2	HSV	1.50m (p)= 60 kPa				172.42 - - - - - - - - - - - - - - - - - - -	Grass over dark brow to coarse gravel of br piping. Rootlets com [MADE GROUND] Firm to stiff orangey I coarse flint gravel. [CLAY-WITH-FLINTS F <i>from 1.50 to 3.30</i> <i>1.80m bgl - Rare</i> <i>1.80m bgl - Rare</i> (CHALK composed of f subangular to angula [WHITE CHALK SUBG	ick and flint. F mon. brown mottlee ORMATION] Dm bgl - Occas to occasional to occasional r and medium ROUP]	d red CLAY with sional flint cobb dark grey clay p dark grey clay p	occasional a occasional a botches	ingular to su um density, v are chalk col	bangular fi	ne to		
									EC	H at 3.70m - Achie	eved target dep	oth				-
							-									-
																4
	I														l	5 —
Notes:											vay Tests			Scale:	1:25	
1. Position t			oth of 3.7mbgl					T	est No.	Date Du	ration (hh:mn	n) Infiltrat	ion Rate	Logged By:	ADE	3
	ackfilled wi	th arisings u	pon completion											Checked By:	HJG	i
4. Consister	ncies and d	ensities base	ed on Engineer's observat	ions										Approved By:	RNS	5
									Stabili		etails Shoring L	ength (m)	Nidth (m)	Section ID:		
									Stable		None	2.90	0.60	CGL Ref		

	ient: Da	niel Wat		, су Т				Stati			Location IE	,		CCC art of the CTS Group	GL	
From (m)	Metho To (m)	od and P Type	lant Used Plant Used	Strike		ndwa	-	Location Type	: Trial pit/tren	ich						
0.00	4.00	TP	Wheeled Hydraulic	Strike	(11)		, 10501	Coords: 5332			Level: 173	3.740m		d Geotechnics I dalming Busines	ss Centre,	,
			Excavator					Ordnance Surve		Final D		4.00 m	_	Woolsack Wa Godalming,		
								National Grid	70%			•.00 m	_	Surrey, GU7 1XW		
								Orientation:	70°		ation:			www.cgl-uk.co	om	
								Date Start:	07/12/2022			/12/2022		Sheet 1 of		
Sample	Sa Type/	amples & Te	ests Tests/Results	Water Level	Legend	Depth	Level (m)			Strata D	escription					Dept (m)
0.20 0.50 0.50	ES 1 D 1 ES 2	HS	V 0.50m (p)= 64 kPa	(m)		(m) 0.40 0.50	- - - - - - - - - - - - - - - - - - -	Grass over dark bro concrete and chalk. [MADE GROUND] Firm to stiff dark br flint and terracotta	Sand is fine to o	coarse.	-	-				
0.50	ES 2					1.10	- - 172.64	[MADE GROUND] Firm to stiff dark br [CLAY-WITH-FLINTS Stiff orangey brown	FORMATION]	y slightly sano	ly CLAY Sanc	fine to coa	rse Gravel a	ngular to		1
2.90 2.90	81 D2					1.10	-	Stiff orangey brown subrounded, fine to [CLAY-WITH-FLINTS 3.70m bgl - Oc	coarse of flint. FORMATION]				rse. Gravel a	ngular to		2 3
. No ground . Trial pit ba	dwater end ackfilled wi	ountered th arisings	epth of 4.0mbgl upon completion sed on Engineer's observa	tions					Test No.	Date [away Tests Duration (hh:r t Details Shoring		ration Rate	Scale: Logged By: Checked By: Approved By: Section ID: CGL Ref	ADB HJG RNS	

CG/39415

Project 7	itle: Ker	nley Cam	pus, Caterham, Sur	rey				Status:	L	Location ID		
C		niel Watr		1				FINAL		TP3	P	CGL
From (m)	Metho To (m)	od and Pla	Plant Used	Strike		Indwate	er Rose Te	Location Type: Trial pit/trer	nch			
0.00	3.20	Type TP	Wheeled Hydraulic	Strike	(m) 1in	ne (min)	Rose I			Laural 172.00		d Geotechnics Limited, dalming Business Centre,
			Excavator					Coords: 533250.860E/1571 Ordnance Survey Great Britain		Level: 172.88		Woolsack Way,
								National Grid	Final De	epth: 3.20) m	Godalming, Surrey,
								Orientation: 70°	Inclina	ition: °		GU7 1XW www.cgl-uk.com
								Date Start: 07/12/2022	2 Date	End: 07/12,	/2022	Sheet 1 of 1
	Sa	imples & Tes	sts	Water	Legend	Strata	Level		Strata Des			Inst/ Dept
Sample	Type/	r	Tests/Results	Level (m)	-	Depth (m)	(m)					Backfill (m)
Depth (m)	Ref				×××	(,		Grass over dark brown sandy silt. S	Sand is fine to c	coarse. Occasion	al angular coarse gi	ravel to
					(cobble sized concrete. Frequent to	occasional ang	gular coarse flint	gravel. Rootlets co	mmon.
0.20	ES 1				(0.30	172.58 -	[MADE GROUND]				
0.40	D 1				<u></u>			Stiff orangey brown mottled red sli coarse flint gravel and rare partially				
0.40	ES 2				<u></u>			[CLAY-WITH-FLINTS FORMATION]	y decomposed	organic matter.		se.
					<u></u>		-					
					<u></u>		-					
					<u></u>							
					<u></u>		-					1-
					×_×_		-					
					<u></u>		-					
					<u></u>		1					
1.40	B 1	HSV	' 1.40m (p)= 61 kPa		<u></u>							
					<u>×_×</u>		-					
					<u>×_×</u>		-					
					<u>×_×</u>		-					
					<u>×_×</u>		-					
					<u></u>]					2 -
2.10 2.10	B 2 D 2				<u></u>		_	2.10m bgl - Flint cobbles				
							-					
							-					
					<u> </u>		-					
					<u></u>		-					
					<u>×</u> ×							
					<u>×</u> ×		_					
					××		-					3-
					$\overline{\times}$ \times		-					
						3.20	169.68 -	EOH at	t 3.20m - Termina	ated due to obstruc	tion	
]					
							-					
							-					
							1					
							1					
							1					
							-					4 -
							-					
							+					
							-					
]					
							-					
							-					
							4					
	I	I			l		4					5 -
Notes:										way Tests		Scale: 1:25
			pth of 3.2mbgl					Test No.	Date Du	uration (hh:mm)	Infiltration Rate	Logged By: ADB
	ackfilled wi	th arisings u	ipon completion									Checked By: HJG
4. Consiste	ncies and d	ensities base	ed on Engineer's observat	nons								Approved By: RNS

al pit backfilled with arisings upon completion						Checked By:	HJG
onsistencies and densities based on Engineer's observations						Approved By:	RNS
		Pit	Details			Section ID:	
	Stabili	lity	Shoring	Length (m)	Width (m)	CGL Refe	
	Stabl	le	None	2.10	0.54		
						CG/39	415

	ient: Da	niel Watı		.cy					Status FINA				ation ID FP4			art of the CTS Group	GL	
		1	ant Used Plant Used	Chailes		indwa ne (mir					rench							
From (m) 0.00	To (m) 3.50	Type TP	Wheeled Hydraulic	Strike	(m) 11n	ne (mir	n) Kose	Coords: 5				00N lev	vel: 172	.760m		d Geotechnics I dalming Busines		
			Excavator					Ordnance S	Survey			Final Deptl		3.50 m	-	Woolsack Wa Godalming,		
								National G						°	_	Surrey, GU7 1XW		
								Orientati		0°		Inclinatio	n:		_	www.cgl-uk.co	om	
			<u> </u>					Date Sta	art:	07/12/20		Date En		/12/2022		Sheet 1 of		
Sample	Sa Type/	amples & Te	ests Tests/Results	Water Level	Legend	Strata Depth						Strata Descrip	otion				Inst/ Backfill	
Depth (m)	Ref		icso/iicsoiis	(m)		(m)		Grass over dar	hrow	n clavov gr		nd Sand fin		co. Graval a	ngular to cu	bangular		_
								fine to coarse o	of brick						ingulai to su	ballgulai,		
0.20	ES 1					0.30	172.46 -	[MADE GROUN										
							-	Medium dense [MADE GROUN		subangula	ır mediun	m to coarse g	gravel of	chalk.				
						0.50	172.26	Firm brown mo		orange and	grey CLA	AY with occa	sional re	d veining.				
							-	[CLAY-WITH-FL	INTS F	ORMATION	۱]							
							-											
							-											
						-												
						-												
							-											
							-											
							-											
						-												
							-											
							-											
							-											
							-											
2.30 2.30	B 1 D 1	HSV	/ 2.30m (p)= 30 kPa															
2.30	ES 2					-	-											
						-	-											
							-											
							-											
							-	3.00m bgl	- Sligh	tly sandy								
							-											
							-											
						3.50	169.26											
						3.30	- 109.20				EOH at 3.	50m - Achieve	d target d	epth			~~~~~~	
							-											
							-											
							-											
							-											
							-											
							-											
	1	I				I											I	I
es:												Soakaway				Scale:	1:25	
			epth of 3.5mbgl						Te	est No.	Date	e Durat	ion (hh:n	nm) Infilt	ration Rate	Logged By:	ADB	3
rial pit ba		th arisings (upon completion													Checked By:	HJG	
onsisten.	icies and d	ensities bas	ed on Engineer's observa	tions								Pit Det	ails			Approved By:	RNS	3
											bility	S	horing	Length (m)		Section ID: CGL Ref	erence	
										Sta	able		None	2.60	0.60	CG/3		

	ent: Dai	niel Watı		rey				Status: FINAL	Location ID TP5	Part of the CTS Group	GL
From (m) 0.00	Methc To (m) 3.50	od and Pl Type TP	lant Used Plant Used Wheeled Hydraulic Excavator	Strike	Grou (m) Tim	ndwai ie (min)	1	Location Type: Trial pit/tren Coords: 533227.210E/1573 Ordnance Survey Great Britain National Grid Orientation: 70°		Card Geotechnic 4 Godalming Busin Woolsack V Godalmin Surrey, GU7 1XV www.cgl-uk.	ess Centre, Vay, g,
								Date Start: 06/12/2022	2 Date End: 06/12/2022	Sheet 1 o	
·	1	amples & Te		Water Level	Legend	Strata Depth	Level (m)	-	Strata Description		Inst/ Dep Backfill (m
Sample Depth (m)	Type/ Ref		Tests/Results	(m)		(m)			re angular and coarse brick gravel.		×//××//
0.20	ES 1					0.20	- [171.92 S	MADE GROUND]	ttled red CLAY with occasional angular	to subrounded fine to	
1.00	D1	HSV	V 1.00m (p)= 51 kPa			1.50		1.00m bgl - Becoming more on	angey red with frequent flint cobbles		
2.90 2.90 2.90	B 1 D 2 ES 2					2.90		CLAY-WITH-FLINTS FORMATION] 1.50m bgl - Occasional chalk co PALK composed of silty GRAVEL. (white chalk. Frequent cobbles of ch	Gravel is low density, very weak, subar	gular, fine to coarse of	2
						3.50		WHITE CHALK SUBGROUP]	H at 3.50m - Achieved target depth		
2. No ground	dwater enc	ountered	epth of 3.5mbgl					Test No.	Soakaway Tests Date Duration (hh:mm) Infiltra	ation Rate Logged By	
3. Trial pit ba	ickfilled wi	th arisings (upon completion ed on Engineer's observat	ions						Checked By Approved By	
			J						Pit Details	Section ID	:
								Stabilit Stable		0.60 CGL R	eference
										CG/	39415

			ipus, Caterham, Sur	icy				Status:	Location ID	
Clie		niel Watr	ney LLP ant Used		Grou	Indwa	er	FINAL	TP6	Part of the CTS Group®
From (m)	To (m)	Туре	Plant Used	Strike		ne (min)	-	Location Type: Trial pit/tre	ench	Card Geotechnics Limited,
0.00	3.50	TP	Wheeled Hydraulic Excavator					Coords: 533243.150E/157	7238.830N Level: 172.170m	4 Godalming Business Centre, Woolsack Way,
								Ordnance Survey Great Britair National Grid	n Final Depth: 3.50 m	Godalming,
								Orientation: 160°	Inclination: °	Surrey, GU7 1XW
										www.cgl-uk.com
		Imples & Te	ata	Water	Legend	Strata	Level	Date Start: 06/12/202	22 Date End: 06/12/2022 Strata Description	Sheet 1 of 1
Sample	Type/		Tests/Results	Level (m)	LeBend	Depth (m)	(m)			Backfill (m)
Depth (m) 0.20	Ref ES 1			. ,		0.20	171.97	Grass over dark brown sandy silt fragments, brick and concrete. Sa [MADE GROUND]	with occasional angular fine to coarse guind is fine to coarse. Rootlets common.	ravel of roof tile
0.20							-		gular and coarse with occasional chalk o	obbles.
					× ×	0.50	171.67 -	Soft dark brown slightly clayey sli	ghtly sandy SILT. Sand is fine to coarse.	
0.60	B 1				×_^_ _ ×		_	[CLAY-WITH-FLINTS FORMATION]		
					×		-			
					×	1.00	- 171.17			
					× 		-	Stiff orange mottled red CLAY wit [CLAY-WITH-FLINTS FORMATION]	h frequent angular to subangular fine to	coarse flint gravel.
					^ 		_			
					×		-			
							-			
							-			
1.80	D 1	H2/	/ 1.80m (p)= 51 kPa		×_^- _ ×		-	1.70m bgl - Occasional flint c	obbles	
1.80	ES 2		v 1.80m (p)= 51 kPa		× 		-			
					×		-			2 -
					 		_			
					 		-			
					×		-			
					×		_			
					×		_			
					× —		-			
					×		_			3-
					×		-			
					×— – — ×		_			
							-			
					× ×	3.50	168.67 -		EOH at 3.50m - Achieved target depth	
							-	L	ton at 5.50m - Achieved target depth	
							-			
							-			
							-			4 -
							_			
	1						-			
							-			
							-			
							-			
							-			
							-			5-
									Contrauray Teste	
Notes: 1. Position te	erminated a	at target de	epth of 3.5mbgl					Test No.	Soakaway Tests Date Duration (hh:mm) Infiltra	Scale: 1:25 Ation Rate Logged By: ADB
2. No ground	lwater enc	ountered	upon completion							Checked By: HJG
			ed on Engineer's observa	tions						Approved By: RNS
								Stab		
								Stat	ble None 2.40	0.60 CGL Reference

			pus, Caterham, Sur	rey				St	atus:			Locatio	n ID				~ •	
Cl		niel Watn		1				FI	NAL			TP7	7		Par	t of the CTS Group	GL	
From (m)	Metho To (m)	d and Pla _{Type}	ant Used Plant Used	Strike		ndwate	er Rose T	Location Ty	pe: Trial pit/1	trench	ו							
0.00	3.10	ТР	Wheeled Hydraulic Excavator	Strike	(m) 11n	ne (min)	Kose I	-	3134.650E/1			Level:	171.78	0m		l Geotechnics alming Busine Woolsack W	ess Centr	
								Ordnance Su National Gric	rvey Great Brit I	ain	Final (Depth:	3.10) m		Godalming Surrey,		
								Orientation	n: 0°		Inclir	nation:	c	,		GU7 1XW www.cgl-uk.o		
								Date Star	t: 06/12/2	022	Dat	e End:	06/12	/2022		Sheet 1 of		
	Sa	mples & Tes	sts	Water	Legend	Strata	Level					Description	/	,		Sheet 1 O		Depth
Sample Depth (m)	Type/			Level (m)		Depth (m)	(m)										Backfill	(m)
						0.10	171.68 -	Turf over concret [CONCRETE]	te.									
								White subangula		ed coar	rse chalk g	gravel.				/		-
						0.30		Soft dark brown	CLAY with freq		ngular fin	e to coars	e flint gr	avel.				-
				-			-	[CLAY-WITH-FLIN	ITS FORMATIO	N]								_
0.65	D1					0.65	- 171.13											-
0.65	ES 1							Firm to stiff red r gravel.	nottled brown	CLAY v	with occas	sional ang	ular to s	ubrounded	fine to co	oarse flint		-
							-	CLAY-WITH-FLIN	ITS FORMATIO	N]								-
							-											1
				-			-											-
							_											-
							-											-
1.50 1.50	B 1 D 2	HSV	1.50m (p)= 66 kPa	-			-	1.50m bgl - I	Becoming mor	e red in	n colour							-
				-			-											-
				-			-											-
																		-
							-											2
				-			-											-
							_											-
				-			-											-
							-											-
					===		_											-
				-			-											_
							-	3 00m hal - I	Dense flint bea	1								3 —
						3.10	168.68 -		-		3.10m - Ter	minated du	e to refus	al			¥//>X//	-
							_											-
							-											-
																		-
							-											
							4											-
																		-
							-											4
							-											-
							1											-
							-											_
							-											-
							1											-
							-											5 —
Notes:												kaway Test				Scale	1:25	
1. Position t			3.1mbgl due to refusal on	flint bec	1				Test No.	D	Date	Duration (hh:mm)	Infiltratio	n Rate	Logged By		В
	ackfilled wi	th arisings u	pon completion	ion-												Checked By		
4. Consiste	ncies and de	ensittes base	ed on Engineer's observat	ions												Approved By	RN	S

Position terminated at depth of 3.1mbgi due to refusal on filnt bed						Logged By:	ADB
No groundwater encountered							
Trial pit backfilled with arisings upon completion						Checked By:	HJG
Consistencies and densities based on Engineer's observations						Approved By:	RNS
		Р	it Details			Section ID:	
	St	ability	Shoring	Length (m)	Width (m)	CGL Refer	
	S	Stable	None	2.60	0.60		
						CG/394	415

			pus, Caterham, Sur	rey				Status:	Location ID	
Cli		niel Watr od and Pla	ney LLP ant Used		Grou	ndwa	iter	FINAL	TP8	Part of the CTS Group®
From (m) 0.00	To (m) 3.50	Type TP	Plant Used Wheeled Hydraulic Excavator	Strike		ne (min		Location Type: Trial pit/tren Coords: 533158.660E/1574 Ordnance Survey Great Britain National Grid Orientation: 70°		Card Geotechnics Limited, 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW www.cgl-uk.com
								Date Start: 06/12/2022	2 Date End: 06/12/2022	Sheet 1 of 1
	Sa	imples & Te	sts	Water Level	Legend	Strata Depth	Level (m)		Strata Description	Inst/ Dept Backfill (m)
Sample Depth (m)	Type/ Ref		Tests/Results	(m)		(m)	(11)			Backini (III
0.20 0.30 0.30	B 1 D 1 ES 1	HSV	0.20m (p)= 115 kPa			0.10	171.62	gravel. Gravel angular, fine to coars [MADE GROUND]	nedium to coarse gravel of chalk recove e of chalk. requent angular to subangular, fine to	
0.70 0.70 0.70	B 2 D 2 ES 2					0.70		Firm to stiff red mottled brown slig fine to coarse flint gravel. Sand is fi [CLAY-WITH-FLINTS FORMATION]	htly sandy silty CLAY with occasional ar ne to coarse.	ngular to subrounded
							-	1.50m bgl - Increasingly red in 1.90m bgl - Frequent flint cobb		2
		HSV	2.90m (p)= 70 kPa		x x x x x x x x x	3.50	- - - - - - - - - - - - - - - - - - -	50	H at 3.50m - Achieved target depth	3
										4
. No ground . Trial pit ba	lwater enc ckfilled wi	ountered th arisings ι	r pth of 3.5mbgl ipon completion ed on Engineer's observat	ions			. 1	Test No.	Soakaway Tests Date Duration (hh:mm) Infiltra Pit Details	tion Rate Checked By: ADB Checked By: HJG Approved By: RNS Section ID:
								Stabili Stabl	ty Shoring Length (m)	Width (m) CGL Reference 0.60 CG/39415

			pus, Caterham, Sur	rey				S	tatus:		Location ID				21	
C		niel Watr		1				FI	INAL		TP9		Pa	t of the CTS Group®		
From (m)	To (m)	d and Pla Type	Plant Used	Strike		Indwat	er Rose	To Location Ty	/pe: Trial pit/tre	ench						
0.00	3.50	TP	Wheeled Hydraulic	Stilke	(11) 11	ne (min)	nose		3091.100E/157		Level: 172	200m		l Geotechnics I alming Busines		
			Excavator						irvey Great Britaii				_	Woolsack Wa	y,	
								National Grid		n Final [Depth:	3.50 m		Godalming, Surrey,		
								Orientatio	n: 160°	Inclin	ation:	0		GU7 1XW www.cgl-uk.co		
								Date Star	t: 06/12/202	22 Dat	e End: 06	/12/2022		Sheet 1 of		
	Sa	Imples & Tes	sts	Water	Legend	Strata	Level				Description	,		SHEELIO	Inst/ Dep	oth
Sample	Type/	r	Tests/Results	Level (m)	0	Depth (m)	(m)								Backfill (m	
Depth (m)	Ref			(,				Asphalt overlyin	g concrete.							
						0.10	172.20	[CONCRETE]	-							-
0.20	ES 1						-	is fine to coarse.	ed to subangular	coarse gravel	of chalk recov	ered as slig	htly sandy gr	avel. Sand		-
0.40	ES 2					0.40	171.90	[MADE GROUND								
							-		slightly sandy CL ne to coarse flint		to medium.	-requent wh	nite and brow	vn angular		_
0.60	D 2						-	[CLAY-WITH-FLIM	NTS FORMATION]]						-
						0.80	- 171.50									-
									brown CLAY with		ngular fine flin	t gravel.		~		
							-	[CLAY-WITH-FLIP	NTS FORMATION]	l					1	
1.10	D 1	HSV	1.10m (p)= 65 kPa				-									-
							-									-
							_									-
							-									_
							-									
							-									-
							-									-
							-									-
															2	
							-	2.10m bgl -	Frequent flint col	bbles and boul	ders					
							_									-
							-									-
							-									-
							-									
							-									
							-									
							-								3	
2.20							-									-
3.20	B 1															
							-									
						3.50	168.80		E	EOH at 3.50m - A	chieved target d	epth		K		_
							-									-
							_									
							-									
							-								4	
							-									-
							-									-
							-									_
							-									
							-									-
							-									-
]								5	_
N - 4										Cont	kaway Tests					
Notes: 1. Position t	erminated	at depth of :	3.5mbgl						Test No.		Duration (hh:n	nm) Infiltr	ation Rate	Scale: Logged By:	1:25 ADB	
2. No grour	ndwater en	countered	upon completion											Checked By:	HJG	
			ed on Engineer's observat	tions.										Approved By:	RNS	
									Stab		it Details Shoring	Length (m)	Width (m)	Section ID:		_
									Stab		None	2.60	0.60	CGL Ref		

	ient: Dai	niel Watr						Status:		Locatio WS			Bast of t	CTS Consume	GL	
, , , T			ant Used			ndwa			npler			1	Part of th	e CTS Group®		
From (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike	(m) lin	ne (min)	Rose T	Coords: 533160.620E/1572		Lovali	172.710m			eotechnics ning Busin		·
1.20	5.00	WS	Tracked Windowless Sampler Rig					Ordnance Survey Great Britain				-	W	/oolsack V Godalmin	/ay,	,
								National Grid	Final	Depth:	5.45 m	_		Surrey,	-	
								Orientation: 0°	Incli	nation:	90°		WV	GU7 1XV ww.cgl-uk.		
								Date Start: 09/12/2022	2 Da	te End:	09/12/2022		S	iheet 1 o	f 2	
Sample	Sa Type/	imples & Te	sts Tests/Results	Water Level	Legend /Cover	Strata Depth	Level (m)	Strata	Description			W WS	indow Sa Diam	ampling Recovery	Inst/ Backfill	
Depth (m)	Ref			(m)	~~~~~	(m)		Grass over dark brown silt with occ		ular to cu	hangular fing to	Run	(mm)	(%)	201123	<u>त</u>
						0.30	- 172.41	Coarse flint gravel. [TOPSOIL] Soft dark brown CLAY with occasio coarse flint gravel. [CLAY-WITH-FLINTS FORMATION]	-		-					
							-									
1.00	ES 1						1									1-
							-									
			1.20m N=6 (0,0/1,1,2,2) / 1.30m (p)= 54 kPa				-									
1.45	EW 1						-									
1.50	D1					1.60	- 171.11									
								Firm light brown slightly sandy CLA [CLAY-WITH-FLINTS FORMATION]	Y. Sand is fi	ne.						1
		HSV	/ 1.80m (p)= 46 kPa				-									
		SPT(S) 2	.00m N=12 (1,2/1,4,4,3)				-									2 -
		51 1(5) 2					_									
							-									
2.40	D 2					2.40	170.31									
							-	Stiff red mottled brown CLAY with organic matter.	occasional y	ellow stre	eaks and rare					
								[CLAY-WITH-FLINTS FORMATION]								
		HSV	/ 2.80m (p)= 65 kPa				_									
							-									
		SPT(S) 3	.00m N=10 (1,2/2,3,3,2)				-	from 3.00 to 5.00m bgl - Clay l	becoming in	creasingly	/ red					3 -
		HSV	/ 3.20m (p)= 51 kPa				_									
							-									
3.40	D 3						-									
							-									
							4									
		SPT(S) 4	.00m N=18 (1,3/3,4,5,6)				-									4 -
]									
							-									
4.50	D 4						1									
							4									
							-									
		SPT(S) 5	.00m N=11 (1,2/2,3,2,4)				1	Ctrata continu	les onto nev	tingge						5 -
Notes:								Strata continu Hole Diameter		t page sing	Hammer Info	rmation		Scale	: 1:25	
			pth of 5.45 mbgl					Depth Diam (m) (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial N		Logged By	: AD	
3. Installatio	n details: 0	.0 to 0.5m §	50mm plain pipe with a be and 5.0m. Bung, gas tap a				and 0.5m	; 50mm slotted 2.00 102	(11)	(0000)	66%	CKW SO	1	Checked By		JG
			ve 1.2 mbgl based on Engi					3.00 87 4.00 75			Install Respon	1		Section ID		NS
											Ref From (m Pipe1 0.50) To (1 5.0		CGL Re	ference	
														CG/3	39415	,

		niel Watı	pus, Caterham, Sur ney LLP	,				Stati		Locatio WS				C	GL	
			ant Used		Grou	Indwat	er				-	_	Part of the	CTS Group®		
rom (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike (m	n) Tin	ne (min)	Rose To	Location Type	: Window San	npler		_		otechnics		
1.20	5.00	WS	Tracked Windowless					Coords: 5331		215.140N Level:	172.710m	4		ing Busine oolsack W		·e,
			Sampler Rig					Ordnance Surve National Grid	ey Great Britain	Final Depth:	5.45 m			Godalminį Surrey,		
								Orientation:	0°	Inclination:	90°			GU7 1XW		
								Date Start:	09/12/2022	2 Date End:	09/12/2022	_		/w.cgl-uk.o heet 2 of		
	Sa	mples & Te	sts		egend	Strata	Level			Description		v	/indow Sa		Inst/	Dept
Sample Depth (m)	Type/ Ref		Tests/Results	Level / (m)	Cover	Depth (m)	(m)					WS Run	Diam (mm)	Recovery (%)	Backfill	(m)
						5.45	- 0	Stiff red mottled bro organic matter. (CLAY-WITH-FLINTS	FORMATION]	achieved target depth	eaks and rare					6. 7. 7. 8. 8.
							1									₁
otoo.									Hala Dicesste	Contine	110000000000000000000000000000000000000			C I	1.25	
otes:	rminated	at target d-	nth of 5 15 mba					r	Hole Diameter	Casing Depth Diam	Hammer Inf			Scale:		D
ition ter	rminated a	at target de	pth of 5.45 mbgl					[Depth Diam	Depth Diam (m) (mm)	Energy Ratio	Serial N	o.	Logged By	: AD	В

Notes:	Hole Di	ameter	Cas	ing	Hami	mer Inform	ation	Scale: 1:	25	
1. Position terminated at target depth of 5.45 mbgl 2. No groundwater encountered	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ra	atio Se	erial No.	Logged By:	ADB	
3. Installation details: 0.0 to 0.5m 50mm plain pipe with a bentonite seal between 0.2 and 0.5m; 50mm slotted pipe with gravel filter between 0.5 and 5.0m. Bung, gas tap and flush cover installed	5.45	65		. ,	66%	C	KWS01	Checked By: Approved By:	HJG RNS	
4. Densities and consistencies above 1.2 mbgl based on Engineer's observations.						Response		Section ID:	1110	l
					Ref I	From (m)	To (m)	CGL Refer	ence	
					Pipe1	0.50	5.00	CG/394		

		niel Watr	pus, Caterham, Sur ney LLP					FINAL			WS	10			C	GL	
		1	ant Used			ndwa	1			nlor			-	Part of the	CTS Group		
rom (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike	(m) Tim	ne (min)	Rose To	Location Type: W							otechnics		
1.20	3.50	WS	Tracked Windowless					Coords: 533106.)7.800N	Level:	173.240m	4	W	iing Busine 'oolsack W	/ay,	re,
			Sampler Rig					Ordnance Survey G National Grid	reat Britain	Final	Depth:	3.50 m		(Godalming Surrey,	5,	
								Orientation:	0°	Incli	nation:	90°			GU7 1XW		
								Date Start: 0	9/12/2022	Da	te End:	09/12/2022	1_		ww.cgl-uk.o		
	Sa	amples & Te	sts	Water	Legend	Strata	Level			escription		,,	_	اد vindow Sa		I Inst/	Dep
Sample	Type/	1	Tests/Results	Level (m)	/Cover		(m)						WS Run	Diam (mm)	Recovery (%)	Backfill	
Depth (m)	Ref			()			173.19 . D	ark brown silt with ra	re angular fin	e to coarse	e gravel of	brick.		(mm)	(78)		3
								MADE GROUND] ght brown clay with o	ccasional and	ular to sul	rounded	fine to coarse	_/				
							g	ravel of flint and chalk									
0.40	ES 1							MADE GROUND]									
						0.50		irm to stiff red mottle			sional ang	ular to	-				
								ubrounded flint gravel CLAY-WITH-FLINTS FO		treaks.							
							- '										
]										8
							-										
		SPT(S) 1	.20m N=10 (1,1/3,2,2,3)				-										
		- (-)															
1.50	D 1						-										
		HSV	/ 1.60m (p)= 71 kPa				-										
]		-										
		SPT(C) 2	.00m N=15 (1,2/4,4,3,4)				-										
							-										
							-										
2.50	D 2						-										2
							-										8
																	8
							-										
		SPT(C) 3.00	0m 50 (5,9/50 for 150mm)				-										
							-										8
						3.50	169.74										
							-	EOH	at 3.50m - Tern	ninated due	o refusal		7				1
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
		•	I		. 1							1			-	•	·
otes:	arminat	at donth - 1	2 5 mbril due to art	n flint !	ad				le Diameter h Diam	Ca: Depth	ing Diam	Hammer In			Scale:		
No ground	dwater end	countered	3.5 mbgl due to refusal o	n nint d	eu			Dept (m)	(mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial N		Logged By Checked By		
	ot installed and consis		ove 1.2 mbgl based on Eng	ineer's o	observatio	ins.		2.00				66%	CKWSC		pproved By		
											1	Install Respo		m)	Section ID:		

CGL Reference CG/39415

Ref

From (m) To (m)

	Metho To (m)	d and Dl		1				FIN	NAL			WS1	11					
0.00		Туре	Plant Used	Strike		ndwa ne (min)		Location Typ	e: Wind	ow Samr	pler				Part of the	≱CTS Group●		
1.20	1.20	IP WS	Hand Dug		(11) 111		nose i	Coords: 533				Level:	172.300m	4	Godalm	eotechnics ning Busine	ess Centi	
	5.00	WS	Tracked Windowless Sampler Rig					Ordnance Surv			Final D		5.45 m			/oolsack W Godalming		
								National Grid Orientation:		0°		ation:	90°	_		Surrey, GU7 1XW	,	
															wv	ww.cgl-uk.c		
				14/-4		Churche	Laural	Date Start:	: 09/1	.2/2022		e End:	09/12/2022			Sheet 1 of		
ample	Sa Type/	mples & Tes -	sts Tests/Results	Water Level	Legend /Cover	Depth	Level (m)			Strata De	iscription			WS	Vindow Sa Diam	Recovery	Inst/ Backfill	
pth (m)	Ref			(m)		(m)		Grass over dark bi	rown sand	dy silt with	h angular to	o subang	ular fine to	Run	(mm)	(%)		a
0.20	ES 1	210	0.200.40			0.20		coarse gravel of b [MADE GROUND]	rick and c									
J.20	ESI	PIL	0 0.20m 0.40 ppm			0.30	172.00	White subangular	fine to co	arse chall	ik gravel.			\neg				
							-	[MADE GROUND] Soft dark brown C	LAY with		al angular, fi	ine to coa	arse flint grave	/				
							-	[CLAY-WITH-FLINT	rs forma	TION]								
]											
							-											2
							-											
L.20	ES 2	SPT(S) 1	.20m N=7 (1,1/1,2,2,2)			1.20	171.10	Stiff red mottled b	nown slig	htly silty (CLAY with c	ccasiona	l angular fine	to				8
							_	coarse flint gravel				ccusiona	in ungului, inic					2
50	D1	HSV	1.40m (p)= 88 kPa				1	[CLAY-WITH-FLINT	IS FORMA	IIONJ								
	51						-											
							-											
							-											8
		SPT(S) 2.	00m N=16 (2,4/3,5,4,4)]											
							-											
							-											
		PIC	0 2.40m 0.50 ppm				_											
2.50	D 2	110	2.40m 0.50 ppm		===		-	from 2.40 to 5 finely laminat				dark bro	wn with					8
							-		5									
							-											2
		HSV	2.90m (p)= 73 kPa				-											2
		SPT(S) 3.	00m N=25 (4,6/4,9,4,8)				-											
							-	from 3.10 to 5	-	l - Frequer	nt flint, ang	ular to si	ubangular,					2
							_	medium to co	oarse.									8
							-											8
3.50	D 3						-											
							-											
							_											
							-											
		SPT(S) 4.	00m N=10 (4,4/4,2,2,2)				1											8
]											8
							_											2
							-											2
1.50	D 5						1											
							-											
							+											
		SPT/S) =	.00m N=9 (1,1/1,2,3,3)			5.00	- 167.30											
		5. (5) 5									s onto next		1					
	 										- · ·		1.1			c. 1	1.25	
es: sition ter	'minated a	at target der	pth of 5.45 mbgl						Hole Dia Depth	ameter Diam	Casir Depth	ng Diam	Hammer II Energy Ratio	nformation Serial N		Scale: Logged By:		ЭВ
sition ter groundv	rminated a water enco ot installed	ountered	pth of 5.45 mbgl						Depth (m)			-		1	lo.		AD	
sition ter groundv sition not	water enco ot installed	ountered	pth of 5.45 mbgl re 1.2 mbgl based on Engi	ineer's o	bservatio	ns.			Depth	Diam (mm)	Depth	Diam	Energy Ratio 66%	Serial N	ю. 01 А	Logged By:	AD HJ RN	JG

CG/3941

Cl		niel Watı						FIN	AL		WS	11		Part of the		GL	
. , ,]		1	ant Used			ndwat	1	Location Type		Sample			-	r-art of the	oro oroup≢		
rom (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike (I	m) Tin	ne (min)	Rose To								otechnics ing Busine		
1.20	5.00	WS	Tracked Windowless					Coords: 5332			.UUUN Level:	172.300m	40	W	oolsack W	'ay,	е,
			Sampler Rig					Ordnance Surve National Grid	ey Great Bri	tain	Final Depth:	5.45 m		(Godalminរួ Surrey,	5,	
								Orientation:	0°		Inclination:	90°			GU7 1XW		
								Date Start:	09/12/2	2022	Date End:	09/12/2022			/w.cgl-uk.o		
	Sa	imples & Te	ests	Water	Legend	Strata	Level			rata Desc		, ,	_	ndow Sa		Inst/	De
Sample Depth (m)	Type/ Ref		Tests/Results	Level (m)	/Cover	Depth (m)	(m)						WS Run	Diam (mm)	Recovery (%)	Backfill	(
Depth (m)	Rei			-				HALK recovered in				chalk		. ,	,		
				T I	$\frac{1}{p}$		d	escription or to de	termine ch	alk grad	e.						222
				T	r r r		_ [\	WHITE CHALK SUB	GROUP]								8
				T F	рр. 11 гр	5.45	166.85						_				2
							-		EOH at 5.45	m - Achie	eved target depth						
]										
							-										
							-										
]										
							-										
							4										
							-										
							1										
							-										
							-										
							-										
							-										
							_										
							-										
							-										
							-										
							-										
							-										
							4										
							1										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
]										
otes:									Hole Diame	ter	Casing	Hammer In	ormation		Scale:	1.75	
	erminated	at target de	pth of 5.45 mbgl								Depth Diam	Energy Ratio	Serial No		Logged By:)B
	dwater enc		paror 5.45 mbgi							nm)	(m) (mm)	chergy Katio	Sei Idi INO		Logged By: Thecked By:	AD	/10

Notes:	Hole Di	ameter	Cas	sing	Ham	mer Inform	nation	Scale: 1:	25
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam	Depth	Diam	Energy R	tatio S	erial No.	Logged By:	ADB
2. No groundwater encountered	(m)	(mm)	(m)	(mm)				Checked By:	HJG
3. Position not installed	5.45	65			66%		KWS01	,	
Densities and consistencies above 1.2 mbgl based on Engineer's observations.					Instal	Response	Zones	Approved By:	RNS
								Section ID:	
					Ref	From (m)	To (m)	CGL Refer	rence
								CG/394	415

		nley Carr niel Wat	npus, Caterham, Sur ney LLP	rey				Status:		Locatio					GL	
	Metho	od and P	lant Used			ndwat	1				, L	\neg	Part of the	e CTS Group		
From (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike	(m) Tin	ne (min)	Rose T	Coords: 533203.			173.040m	4		eotechnics I ning Busines		:,
1.20	5.00	WS	Tracked Windowless Sampler Rig					Ordnance Survey G		Final Depth:	5.45 m	_	W	/oolsack Wa Godalming	ау,	,
								National Grid				_		Surrey, GU7 1XW	,	
								Orientation:	0°	Inclination:	90°		wv	ww.cgl-uk.co	om	
				Water	Legend	Strata	Level	Date Start: C)9/12/2022	Date End:	09/12/2022			Sheet 1 of		Depth
Sample	Type/	amples & Te	Tests/Results	Level (m)		Depth (m)	(m)		Strata De	scription		WS Run	Diam (mm)	Recovery	Backfill	
Depth (m)	Ref			. ,			172.94	Grass over black sandy			to coarse grave		(1111)	(%)		
0.10	ES 1 ES 2						172 79	of brick and chalk. Sand [MADE GROUND]								
						0.25	Ν	White subangular med [MADE GROUND]	ium to coarse	chalk gravel.		1				
								Dark brown clay with ra roof tile gravel.	are fine grave	l sized chalk. Rare a	ngular coarse					
								[MADE GROUND]								
							-									
0.90	ES 3						-									
							_									1 -
		SPT(S) 1	1.20m N=10 (1,1/3,2,2,3)			1.20	171.84	Firm to stiff light orang	ev brown CLA	V with rara particily	decomposed					
				-			-	organic matter and rare	e subrounded		decomposed					
1.50	D 1			-			-	[CLAY-WITH-FLINTS FO	RMATION							
							-									
							-									
2.00	D 2	SPT(S)	2.00m N=8 (1,1/2,2,2,2)				_									2 —
				-			-									
							-									
2.50	D 3			-			-									
							_									
2.70 - 3.60	B 1	HS	V 2.70m (p)= 32 kPa	-		2.70		Firm to stiff orangey br		andy CLAY. Sand is	ine to coarse.	-				
							_	[CLAY-WITH-FLINTS FO	RMATION							
		SPT(S)	3.00m N=9 (1,2/2,2,3,2)	-			_									3 —
		HS	V 3.20m (p)= 21 kPa	-			-									
							-									
3.40	D 4			-			-									
				-		3.60	169.44	Stiff to very stiff red CL	AY with occas	ional angular to sub	bangular fine to	_				
							-	coarse flint gravel. [CLAY-WITH-FLINTS FO		-	-					
							-	from 3.60 to 4.00n to subrounded and	n bgl - Abundo	ant flint gravel. Flin	t subangular					
		SPT(S) 4	4.00m N=18 (4,5/6,4,4,4)				_									4 —
				-]									
							-									
				-			-									
							_									
							-									
				-												
	1	SPT(S) 5	5.00m N=17 (1,2/3,3,5,6)	ł				St	rata continue:	s onto next page						5 —
Notes:			whether the						le Diameter	Casing	Hammer Ir			Scale:		
 Position te No ground Position no 	dwater end	ountered	epth of 5.45 mbgl					Dept (m)) (mm)	Depth Diam (m) (mm)	Energy Ratio 66%	Serial N CKWS0		Logged By: Checked By:	ADB HJG	
			ove 1.2 mbgl based on Eng	ineer's ol	oservatio	ns.		2.00	0 87		66% Install Resp		A	Approved By:	RNS	
								4.00	0 75		Ref From			Section ID: CGL Ref	ferenco	
														CGL Rei		

Client: Daniel Watney LLP FINAL WS2 Method and Plant Used Strike (m) Time (min) Rose To Location Type: Window Sampler 0.00 1.20 IP Hand Dug Tracked Windowless Sampler Rig Coords: 533203.710E/157208.380N Level: 173.040m 1.20 5.00 WS Tracked Windowless Sampler Rig Value Coords: 533203.710E/157208.380N Level: 173.040m 0rientation: 0° Inclination: 9° Orientation: 0° Inclination: 90° 5.00 WS Water Level Sampler Rig Value Strike (m) Final Depth: 5.45 m 0rientation: 0° Inclination: 9° Orientation: 0° Inclination: 90° 5.00 WS Type/ Tests/Results Water Level Strata Level Strata Description	Carc 4 God	d Geotechnic dalming Busir Woolsack V Godalmir Surrey, GU7 1XV www.cgl-uk Sheet 2 co ow Sampling	ness Centre Nay, Ng, N
0.00 1.20	4 God	dalming Busir Woolsack \ Godalmir Surrey, GU7 1X\ www.cgl-uk Sheet 2 c	ness Centre Nay, Ng, N
1.20 5.00 WS Tracked Windowless Sampler Rig Tracked Windowless Sampler Rig Final Depth: 5.33203.710E/157208.380N Level: 173.040m Ordnance Survey Great Britain National Grid Final Depth: 5.45 m Orientation: 0° Inclination: 90° Date Start: 09/12/2022 Date End: 09/12/2022 Sample Depth (m) Type/ Ref Tests/Results Water (m) Level (m) Level (m) Stiff to very stiff red CLAY with occasional angular to subangular fine to coarse flint gravel.	Windov WS Dia	Woolsack V Godalmir Surrey, GU7 1XV www.cgl-uk Sheet 2 c	Nay, ng, N
Samples & Tests Water Level (m) Level (m) Strata Description Strata Description Sample Nef (m) Type/ Tests/Results Unit of the construction of the construct	Windov WS Dia	Surrey, GU7 1XV www.cgl-uk Sheet 2 c	N
Sample S& Tests Water Level (m) Level (m) Date Start: 09/12/2022 Date End: 09/12/2022 Sample Depth (m) Type/ Ref Tests/Results User (m) Level (m) Level (m) Strata Description Image: Construction of the test (m) Tests/Results Image: Construction of test (m) Image: Construction of test (m) Stiff to very stiff red CLAY with occasional angular to subangular fine to coarse flint gravel.	Windov WS Dia	www.cgl-uk Sheet 2 c	
Samples & Tests Water Legend Strata Level Cover Depth (m) Strata Description Depth (m) Ref Tests/Results Image: Cover of the strate of th	Windov WS Dia	Sheet 2 c	
Sample Depth (m) Type/ Ref Tests/Results Level (m) /Cover (m) Depth (m) (m) Sample Ref Ref Tests/Results Image: Cover (m) Depth (m) (m) Stiff to very stiff red CLAY with occasional angular to subangular fine to coarse flint gravel. Stiff to very stiff red CLAY with occasional angular to subangular fine to	WS Dia		of 2
Sample Depth (m) Type/ Ref Tests/Results (m) (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Ref Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample Depth (m) Image: Sample			Inst/ E
Stiff to very stiff red CLAY with occasional angular to subangular fine to coarse flint gravel.	· · ·	iam Recovery nm) (%)	Backfill
Image: CLAP-WITH-FLINTS FORMATION] Image: CLAP-W			
otes: Hole Diameter Casing Hammer Infor	rmation	Scole	2: 1:25
	Serial No.	Logged B	

Notes:	Hole Di	ameter	Cas	sing	Ham	mer Inform	ation	Scale: 1:	25
1. Position terminated at target depth of 5.45 mbgl 2. No groundwater encountered	Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy R	atio Se	erial No.	Logged By:	ADB
 Position not installed Densities and consistencies above 1.2 mbgl based on Engineer's observations. 	5.45	65			66%		KWS01	Checked By: Approved By:	HJG RNS
						Response		Section ID:	
					Rer	From (m)	To (m)	CGL Refer	ence
								CG/394	415

	ient: Da	niel Wat		1					tatus: I NAL			Locatio WS					iL	
		1	lant Used		-	ndwat	1	Loostion Tu		1 me2 wob	nler				Part of th	e CTS Group®		
From (m) 0.00 1.20	To (m) 1.20 5.00	Type IP WS	Plant Used Hand Dug Tracked Windowless Sampler Rig	Strike (m) Tim	e (min)	Rose	Coords: 53 Ordnance Su	3229.680	DE/15717	72.930N	_	173.510m	4	Godalm W	eotechnics Li ning Busines /oolsack Way Godalming,	s Centre,	,
								National Grid			Final	Depth:	5.45 m			Surrey,		
								Orientatio	n:	0°	Incli	nation:	90°		W	GU7 1XW ww.cgl-uk.co	m	
								Date Star	t: 09/2	12/2022	Da	te End:	09/12/2022	2		heet 1 of 2		
	Sa	amples & Te	ests	Water Le		Strata	Level			Strata D	escription			v	/indow Sa	ampling	Inst/ D	Pepth
Sample	Type/		Tests/Results	Level /0 (m)	Cover	Depth (m)	(m)							WS Run	Diam (mm)	Recovery (%)	Backfill	(m)
Depth (m)	Ref ES 1	PI	ID 0.20m 0.00 ppm			0.45	- - 173.06 -	Grass over dark to subrounded, asphalt. Sand is [MADE GROUND	fine to coa fine to coa	rse gravel					()			
								Light brown clay rare coarse grave [MADE GROUNE	el sized ro		gular, fine t	o coarse	flint gravel and					1 —
			1.20m N=8 (1,1/1,3,2,2) ID 1.20m 0.10 ppm			1.20	1/2.51	Stiff red mottled		AY with o	ccasional a	ngular, co	arse flint grave	1				
1.50	D 1	HS	V 1.40m (p)= 65 kPa				-	and yellow strea [CLAY-WITH-FLIM 1.20m bgl -	NTS FORM	-	nd at 1.2m	. Sand is i	medium to					
							-	coarse.										
			V 1.90m (p)= 64 kPa	E			-											
2.00	D 2	SPT(S) 2	2.00m N=20 (2,4/2,5,5,8)				-	from 2.00 to red to brown	-	gl - Colouri	ation grad	ually tran	sitions from					2 -
2.50	D 3	HS	V 2.50m (p)= 64 kPa				-	from 2.50 to	o 2.70m b <u>o</u>	gl - Sandy	Clay interv	al. Sand i	s fine.					-
2.90	ES 2	SPT(S) 3	3.00m N=18 (2,5/3,3,4,8)				-	from 3.00 to organic mat	-	gl - Finely I	laminated	partially c	lecomposed					3 —
3.50	D 4						-											
		HS	V 3.60m (p)= 66 kPa				-											
			ID 3.90m 0.90 ppm 00m N=40 (2,3/5,13,15,7)				-	from 4.00 to	5.00m b <u>o</u>	gl - Poor R	ecovery.							4 -
							-											
		SPT(S) 5	5.00m N=12 (1,2/2,4,3,3)				-		Strata	a continue	s onto nex	t page						5 -
Notes:										iameter	1	sing	Hammer Ir	formation		Scale: 1	:25	_
1. Position te 2. No ground			epth of 5.45 mbgl						Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial N		Logged By:	ADB	
3. Position n	ot installed	b	ove 1.2 mbgl based on Eng	ineer's obs	envotio	15			2.00	102		,	66%	CKWSC	¹¹	Checked By:	HJG	
r. Denaities	and consis	Sectores abl	ייב דיב וווטפו טמספט טוו Ellg		- vatio				3.00 4.00	87 75			Install Resp	onse Zones	A	spproved By:	RNS	
													Ref From	(m) To (m)	CGL Refe	erence	
											1							

	itle: Ker ient: Dai		ipus, Caterham, Sur nev LLP	геу				Stati								C	GL	
			ant Used		Grou	undwat	ter	FIN				WS	3		Part of th			
From (m)	To (m)	Туре	Plant Used	Strike	(m) Tir	ne (min)	Rose Te	, Location Type	: Windo	w Samp	ler				Card G	eotechnics	Limited,	,
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless					Coords: 5332	29.680E,	/15717	2.930N	Level:	173.510m	4		ning Busine /oolsack W		re,
			Sampler Rig					Ordnance Surve National Grid	ey Great B	ritain	Final	Depth:	5.45 m			Godalming		
								Orientation:	0	0	Inclin	nation:	90°			Surrey, GU7 1XW		
								Date Start:	09/12			e End:	09/12/2022			vw.cgl-uk.c		
	¢-	Imples & Te	sete .	Water	Legend	Strata	Level	Date Start.		Strata De		e Liiu.	03/12/2022		/indow Si	heet 2 of		Depti
Sample	Type/		Tests/Results	Level (m)	/Cover		(m)							WS	Diam	Recovery	Backfill	
Depth (m)	Ref			(,		(,		Stiff red mottled bro	own CLAY	with oc	casional a	ngular, co	arse flint grave	Run	(mm)	(%)		1
					F			and yellow streaks. [CLAY-WITH-FLINTS										
					<u> </u>		-		ONNA									
					F	5.45	168.06											
							_		EOH at 5.4	45m - Ach	ieved targe	t depth						
							-											
							-											
							_											6 -
							-											
							-											
]											
							_											
							-											
							-											
							-											
																		7 -
							-											
							-											
							-											
							-											
							-											
							-											
							-											
							-											
																		8 -
							-											
							-											
							-											
							-											
							-											
							-											
							-											9 -
							1											
]											
							-											
							-											-
							-											
]											
]											
	I																	10 -
Notes:									Hole Diam	neter	Cas	ing	Hammer Ir	formation		Scale:	1:25	
1. Position t			pth of 5.45 mbgl						Depth	Diam	Depth	Diam	Energy Ratio	Serial N	0.	Logged By:		В
2. No groun 3. Position r	not installed	I							(m) 5.45	(mm) 65	(m)	(mm)	66%	CKWS0	' [⊥]	Checked By:		
4. Densities	and consis	tencies abo	ove 1.2 mbgl based on Eng	ineer's o	observati	ons.								onse Zones	A	pproved By:	RN	IS

CGL Reference
CG/39415

Section ID:

From (m) To (m)

Ref

	itle: Ker ient: Dai		npus, Caterham, Sur ney LLP	rey				_	Status: FINAL			Locati				C	GL	
			lant Used			Indwa	1		Type: Win	dow Sam	pler			\neg	Part of th	he CTS Group		
From (m) 0.00 1.20	To (m) 1.20 5.00	Type IP WS	Plant Used Hand Dug Tracked Windowless	Strike	(m) Tir	ne (min)	Rose T	-	533218.67			Level	: 173.760m		4 Godaln	eotechnics ning Busin Voolsack V	ess Cent	
			Sampler Rig					Ordnance National G	Survey Grea irid	t Britain	Fina	l Depth:	5.45 m			Godalmin Surrey,		
								Orientati		0°	Inc	lination:	90°			GU7 1XV		
								Date St	art: 09/	12/2022	D	ate End:	09/12/2022			ww.cgl-uk. Sheet 1 o		
	Sa	mples & Te	ests	Water	Legend	Strata	Level		,		Description				Window S		Inst/	
Sample Depth (m)	Type/ Ref		Tests/Results	Level (m)	/Cover	Depth (m)	(m)							WS Run	Diam (mm)	Recovery (%)	Backfill	l (m)
0.10	ES ES1	PI	D 0.10m 0.40 ppm					Dark brown sli to coarse grave					subangular, fine					
						0.20	173.56	coarse.		oncrete, i	nint and p							
							-		angey brow			with frequ	uent angular to	_/				
								rounded, fine [CLAY-WITH-FI									•	.
]											
							_											
							-											
1.00	ES ES2						1											1 -
		SPT(C) 1	L.20m N=10 (2,2/2,3,3,2)				-											,
							-											
1.40	D 1								to 1.70m b				lant					
							-		ed to suban to 2.00m b				d in colour					
							-											
							_											
		SPT(S) 2	2.00m N=12 (1,2/3,2,3,4)				-											2 -
							-		- Becoming to 3.00m b			casional to	o rare					,
					===		_											,
2.40	D 2						-											
]											·] -
							-											
							-											
							_											,
3.00	D 3	SPT(S) 3	8.00m N=11 (1,2/2,4,3,2)				-		to 4.00m b to 5.00m b									3
3.20	D 4						-	Jion 3.00	10 5.0011 b	gi - Occusi	ionai orga	inc matte	1					
							_											
		PI	D 3.40m 1.90 ppm				-											
							1											
							4											,
							-											,
		SPT(S) 4	1.00m N=14 (6,6/3,3,3,5)				1											4 -
							-											
							-											
							1											
							-											
							_											,
							-											,
5.00	D 5	SPT(S) 5	5.00m N=10 (1,1/2,3,3,2)			5.00	168.76		C++++	continu	onto n-	vt page						
Notes:										iameter	es onto ne	asing	Hammer In	formatior	1	Scale	: 1:25	
1. Position te			epth of 5.45 mbgl						Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial I		Logged By		DB
	n details: 0	.0 to 0.5m	50mm plain pipe with a be 5 and 5.0m. Bung, gas tap a				and 0.5m	50mm slotted	2.00	102	(11)	(1111)	66%	CKWS		Checked By		JG
			ove 1.2 mbgl based on Eng						3.00 4.00	87 75			Install Respo	-	s	Approved By Section ID		NS
													Ref From Pipe1 0.50		(m) 00	CGL Re		
																CG/3	39415	i

	iciii. Dui	nei watr	ney LLP					FINAL			WS	А				GL	
			ant Used		Ground	water					vv 3	••	_	Part of the			
From (m)	To (m)	Туре	Plant Used	Strike (m) Time (n	nin) Rose	To Location	Type: W	indow Sam	pler					otechnics		
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless				Coords: 5	533218.0	670E/15714	40.640N	Level:	173.760m	4		ing Busine oolsack W		e,
			Sampler Rig				Ordnance National G		reat Britain	Final	Depth:	5.45 m			Godalming Surrey,		
							Orientat	ion:	0°	Incli	nation:	90°			GU7 1XW w.cgl-uk.c		
							Date St	art: 0	9/12/2022	Da	te End:	09/12/2022	_		heet 2 of		
L	Sa	mples & Te			egend Stra				Strata D	escription				/indow Sa		Inst/	Depth
Sample Depth (m)	Type/ Ref		Tests/Results	Level /0 (m)	Cover Dep (m								WS Run	Diam (mm)	Recovery (%)	Backfill	(m)
						5 168.31	CHALK recove description or [WHITE CHALH	to deterr 〈 SUBGRC	nine chalk gr	ade.		chalk					6 -
																	8 -
						-											9 -
										1		1					10 -
otes:								Hol	e Diameter	Cas	sing	Hammer In	formation		Scale:	1:25	

Notes:	Hole Di	ameter	Cas	ing	Hamn	ner Inform	nation	Scale: 1:	25	
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam	Depth	Diam	Energy Ra	atio S	erial No.	Logged By:	ADB	
2. No groundwater encountered	(m)	(mm)	(m)	(mm)				Checked Bv:	HJG	
3. Installation details: 0.0 to 0.5m 50mm plain pipe with a bentonite seal between 0.2 and 0.5m; 50mm slotted	5.45	65			66%	C	KWS01	,		
pipe with gravel filter between 0.5 and 5.0m. Bung, gas tap and flush cover installed 4. Densities and consistencies above 1.2 mbgl based on Engineer's observations.					Install	Response	Zones	Approved By:	RNS	
4. Densities and consistencies above 1.2 mbgi based on Engineer's observations.						· ·		Section ID:		
					Ref F	rom (m)	To (m)	CGL Refer	ranco	
					Pipe1	0.50	5.00			
								CG/394	415	

-	ient: Dai	niel Watr	,	rey					tatus: INAL			Locatio WS			Bent	the GTS Group	GL	
From (m-)			ant Used Plant Used	C+-:1		ndwa	-	Leastion T		low Sam	pler				Part of	une ∪ i S Group ●		
From (m)	To (m)	Type IP	Hand Dug	Strike	(11) 110	ne (min	, Kose	Coords: 53				evel·	171.760m	-		Geotechnic: ming Busin		
1.20	5.00	WS	Tracked Windowless Sampler Rig					Ordnance Su	urvey Grea			Depth:	5.45 m		١	Woolsack V Godalmin		
								National Gri Orientatio		0°		nation:	90°			Surrey, GU7 1XV	V	
															W	/ww.cgl-uk.		
				Water	Legend	Strata	Level	Date Star	rt: 08/	12/2022	Dat escription	e End:	08/12/2022			Sheet 1 o	f 2 Inst/	Depth
Sample	Type/	amples & Te	sts Tests/Results	Level (m)		Depth (m)	(m)			Stiata D	escription			WS	Diam		Backfill	
Depth (m)	Ref			()		(,	-	Grass over black	sandy gra	vel. Grave	el is angular	to subro	unded of clinke	Run	(mm)	(%)		
0.20	ES 1	PI	D 0.20m 0.40 ppm				-	Sand is fine to c [MADE GROUNI										
						0.30	171.46 -	White gravel of	angular to	subround	led. fine to	coarse ch	alk and flint.					
0.40	ES 2					0.50	171.26	Occasional chall	k and flint		,							
							-	Stiff dark brown	CLAY with		al rounded,	fine to c	oarse flint grav	el.				. [
							-	[CLAY-WITH-FLII	NTS FORM	ATIONJ								
							-											1
	1				<u> </u>		-											1-
	1					1.20	170.56											
		SPT(S) 1 HSV	l.20m N=8 (1,2/2,2,2,2) / 1.20m (p)= 52 kPa			1.20		Soft to firm light fine.	t brown m	ottled ora	nge and gre	ey sandy (CLAY. Sand is					
							-	Inte. [CLAY-WITH-FLII	NTS FORM	ATION]								
1.50	D 1																	-
1.60	ES 3						-											
		HSV	/ 1.80m (p)= 25 kPa		— — —		_											
2.00	D 2	SPT(S) 2	.00m N=10 (1,2/2,2,3,3)				-	from 1.90 to	o 1.95m b <u>i</u>	gl - Clayey	sand. Sand	l is fine.						2
2.00	02	5F1(5) 2	.001111-10 (1,2/2,2,3,3)				-	from 2.00 to	o 3.00m b <u>e</u>	gl - Brown	mottled rea	d						
							-											
		HSV	/ 2.30m (p)= 35 kPa				-											
2.50	D 3						-											-
																		-
		HSV	/ 2.80m (p)= 38 kPa				_	from 2.70 to matter	o 3.00m b <u></u>	gl - Rare p	artially dec	omposed	organic					
							-	from 2.80 to	o 3.00m bỵ	gl - Grey m	nottling and	l red vein	ing					
3.00	D 4	SPT(S) 3	.00m N=11 (1,2/2,3,3,3)			3.00	168.76	Firm to stiff ora										3 —
							-	[CLAY-WITH-FLII	NTS FORM	AHONJ								
					<u> </u>													
	1				 		-											-
	1				E													
3.70	D 5				E- <u>-</u> -													
3.90	EW 1						-											
		SPT(S) 4	.00m N=20 (1,2/3,4,6,7)			4.00	167.76	Stiff red mottled	l brown Cl	AY. Rare y	ellow strea	ks.						4
							-	[CLAY-WITH-FLII	NTS FORM	ATION]								
							-											
	1				E													
4.60	D 6				<u> </u>		-											. -
	1				<u> </u> -													
	1				<u> </u>													
		SPT(S) 5	.00m N=19 (2,4/4,3,5,7)				-		Ctrati	continue	s onto nove	nage						
Notes:									1	i continue	s onto next Cas		Hammer Ir	formatior	1	Scale	: 1:25	
			pth of 5.45 mbgl						Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial I		Logged By	:: A[DB
3. Installation	n details: 0	.0 to 0.5m §	50mm plain pipe with a be and 5.0m. Bung, gas tap a				2 and 0.5m	i; 50mm slotted	2.00	102	(111)	(1111)	66%	CKWS		Checked By		JG NS
			ve 1.2 mbgl based on Engi						3.00 4.00	87 75			Install Resp		s	Approved By Section ID		с <i>и</i>
													Ref From Pipe1 0.5		(m) 00		eferenc	
																CG/	39415	,

	ient: Dai		ipus, Caterham, Sur ney LLP	y				Stati				Locatio WS				C	GL	
			ant Used		Grou	ndwate	er					VVS	55		Part of th	e CTS Group		
From (m)	To (m)	Туре	Plant Used	Strike (r	n) Tim	e (min)	Rose To	Location Type	: Wind	low Samp	pler					eotechnics		
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless					Coords: 5331	97.370	DE/15746	7.830	N Level:	171.760m	4		ning Busine /oolsack W		re,
			Sampler Rig					Ordnance Surve National Grid	y Grea	t Britain	Fin	al Depth:	5.45 m			Godalmin		
								Orientation:		0°	 In	clination:	90°	_		Surrey, GU7 1XW		
								Date Start:	00/	12/2022		Date End:	08/12/2022			vw.cgl-uk.		
	50	Imples & Te	ante de la constante de la constant	Water I	egend	Strata	Level	Dale Start.	06/.	Strata De			08/12/2022		S Vindow Sa	heet 2 of	-	Dept
Sample	Type/		Tests/Results	Level	/Cover	Depth	(m)			Strata De	scription			WS	Diam	Recovery	Backfill	
Depth (m)				(m)		(m)	51	iff red mottled bro	own Cl	AV Rare ve	allow st	reaks		Run	(mm)	(%)	••••••	1
] [0	LAY-WITH-FLINTS	FORM	ATION]	211010 30	i cuks.						
							_											
							-										• • • •	
				F		5.45 1	.66.31		EOH at	5.45m - Ach	nieved ta	irget depth		_				1
							-											
							-											
							-											6
							-											
							1											
							-											
							-											
							-											
							-											
							-											7
]											
							_											
							-											
							-											
							-											
							-											
]											
							-											
							-											8
							-											
							-											
]											
							-											
							-											
							-											
							-											
							1											9
]											
							-											
							-											
							-											
							1											
							Ţ											
			۱ 				<u> </u>						-		·	·	•	10
lotes:										iameter		Casing	Hammer Ir	formation		Scale	: 1:25	
. Position t . No groun			epth of 5.45 mbgl						Depth (m)	Diam (mm)	Depti (m)	h Diam (mm)	Energy Ratio	Serial N	o.	Logged By	AD	/B

Notes:	Hole Di	ameter	Cas	sing	Hamr	mer Inform	ation	Scale: 1:	25	
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam	Depth	Diam	Energy Ra	atio Se	erial No.	Logged By:	ADB	1
2. No groundwater encountered	(m)	(mm)	(m)	(mm)				Checked Bv:	HJG	
3. Installation details: 0.0 to 0.5m 50mm plain pipe with a bentonite seal between 0.2 and 0.5m; 50mm slotted	5.45	65			66%	CI	KWS01	Checked by.	DUH	
pipe with gravel filter between 0.5 and 5.0m. Bung, gas tap and flush cover installed								Approved By:	RNS	
Densities and consistencies above 1.2 mbgl based on Engineer's observations.					Install	Response	Zones	Section ID:		1
					Ref F	rom (m)	To (m)	Section ID.		
					Dino1	0.50	5.00	CGL Refer	ence	
					Pipe1	0.50	5.00	CG/394	41E	
	1								+13	

		niel Wat	npus, Caterham, Sur ney LLP	. ~ 1					atus: NAL			Loca M	VSe				C	GL	
	Metho	d and Pl	lant Used			ndwa						•		•	_	Part of	the CTS Group®		
rom (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike (m) Tin	ne (min)	Rose										ieotechnic:		·
1.20	5.00	WS	Tracked Windowless Sampler Rig					Coords: 53						171.480m	'		ming Busin Noolsack V	Vay,	re,
			Sampler Kig					Ordnance Su National Grid		it Britain	Fin	al Depth	1:	5.45 m			Godalmin Surrey,	g,	
								Orientation	ו:	0°	In	clination	1:	90°			GU7 1XV ww.cgl-uk.		
								Date Star	t: 08/	12/2022	[Date End	1:	08/12/202	2		Sheet 1 o		
	Sa	l Imples & Te	ests		Legend		Level			Strata D	escription	1					Sampling	Inst/	
Sample Depth (m)	Type/ Ref		Tests/Results	Level (m)	/Cover	Depth (m)	(m)								WS Run	Diam (mm)	Recovery (%)	Backfill	(m)
							-	Grass over black						ular, fine to					
0.20	ES 1	PI	ID 0.20m 0.10 ppm				-	coarse of concret [MADE GROUND		nd Drick. S	and is fil	ne to coai	rse.						
						0.30	171.18 -	White silty grave	l of chalk	. Gravel is	angular	to subang	gular	, fine to coar	se.				
0.40	ES 2					0.50	170.98-	With rare angula [MADE GROUND		n to coars	e flint gr	avel.	-						
				Ē			-	Stiff dark brown	CLAY with		al angula	ar, fine to	coai	rse flint grave	el.				
							-	[CLAY-WITH-FLIN	ITS FORM	IATIONJ									
				ŀ]												
				F			_												1-
				F			-	1.00m bgl -	Red mott	ling									
		SPT(S) 1	1.20m N=10 (1,2/2,3,2,3)	-			-												
							-												
1.50	D 1	HS	V 1.50m (p)= 73 kPa	E			_												
							-												
				-			-	1.70m bgl -	Red mott	led brown	n								
				-			-												
2.00	D 2	SPT(S)	2.00m N=9 (2,2/2,2,2,3)	F			-	2.00m bgl -	Occasion	al to rare	anaular	to subrou	inde	d coarse					2 -
							-	flint gravel	occusion		ungului	10 505/00	maci	,					
				ŀ]												
		HS	V 2.40m (p)= 85 kPa	ŀ			-												
2.50	D 3			-			-												
				-			-												
							-												
							-												8
3.00	D 4	SPT(S) 3	3.00m N=18 (2,3/3,4,5,6)	þ			-	from 3.00 to	5.00m bg	gl - Freque	ent angu	lar fine to	соа	rse flint					3 -
		HS	V 3.20m (p)= 79 kPa	-			-	gravel											
				-			-												
							-												
							-												
				-			-												8
				F			-												
		SPT(S) 4	4.00m N=17 (1,4/5,5,4,3)	F			_												4-
				E			-	from 4.00 to decomposed			laminate	ed with po	artia	lly					
							-		5										
							-												
				þ			_												
				-			-												
				-			-												
				F]												
		SPT(S) 5	5.00m N=19 (2,3/4,4,6,5)	Ē			_		C+'			ovt nr ==						Ĭ	<u>الا</u>
tes:										a continue Nameter	-	Casing		Hammer	nformatior		Scale	: 1:25	
Position te			epth of 5.45 mbgl						Depth	Diam	Depth	n Dian		Energy Ratio	Serial I		Logged By		DB
Position n	dwater enc ot installed	I	10 10 milet 1						(m) 2.00	(mm) 102	(m)	(mm	1	66%	CKWS		Checked By		
iensities a	ana consist	encies abo	ove 1.2 mbgl based on Engi	meer's ob	servatio	115.			3.00 4.00	87 75			Ĺ	Install Res	oonse Zone	s	Approved By Section ID		NS
													L	Ref From	(m) To	(m)		eferenc	

Cli		niel Watr		1				FIN	AL			WS	6				GL	
			ant Used	-		ndwate		Location Type		low Samr	ler			_	Part of the	CTS Group		
om (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike (m) Time	e (min)	Rose To									otechnics ing Busine		
1.20	5.00	WS	Tracked Windowless Sampler Rig					Coords: 5331			0.800N	Level:	171.480m	4	W	oolsack W	ay,	е,
			Sampler Kig					Ordnance Surve National Grid	y Grea	t Britain	Final	Depth:	5.45 m		(Godalming Surrey,	5,	
								Orientation:		0°	Incli	nation:	90°			GU7 1XW w.cgl-uk.c		
								Date Start:	08/2	L2/2022	Da	te End:	08/12/2022	_		heet 2 of		
	Sa	mples & Tes			egend S		Level			Strata De	scription			w	/indow Sa		Inst/	D
Sample epth (m)	Type/ Ref	-	Tests/Results	Level /((m)	Cover [Depth (m)	(m)							WS Run	Diam (mm)	Recovery (%)	Backfill	(
						5.45 1		iff dark brown CL/ CLAY-WITH-FLINTS	FORM		-		arse flint gravel.					
								I					1					
tes:									Hole D	ameter	Cas	sing	Hammer In	ormation		Scale:	1:25	

Notes:	Hole D	Diameter	Ca	sing	Hammer	Informa	tion	Scale: 1:	25	1
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam	Depth	Diam	Energy Ratio	Ser	rial No.	Logged By:	ADB	1
2. No groundwater encountered	(m)	(mm)	(m)	(mm)				Checked By:	HJG	L
3. Position not installed	5.45	65			66%	CK	WS01	enconce by:	150	1
Densities and consistencies above 1.2 mbgl based on Engineer's observations.								Approved By:	RNS	1
					Install Res	sponse Z	ones	Section ID:		L
					Ref Fron	n (m)	To (m)			ł
						. ,	. ,	CGL Refer	ence	1
								CG/394	115	ĺ
									TT3	1

	ient: Dai		npus, Caterham, Sur ney LLP	icy					tatus: I NAL			Locatio WS				C	GL	
			lant Used		Grou	ndwat	er					vv 3	7	_	Part of t	he CTS Group		
From (m) 0.00	To (m) 1.20	Type IP	Plant Used	Strike	(m) Tim	ne (min)	Rose T							_		eotechnics		
1.20	5.00	WS	Hand Dug Tracked Windowless					Coords: 53			.2.510N	Level:	172.600m	4		ning Busine Voolsack W		e,
			Sampler Rig					Ordnance Su National Grid		t Britain	Final	Depth:	5.45 m			Godalming Surrey,		
								Orientatio	n:	0°	Incli	ination:	90°			GU7 1XW		
								Date Star	t· 08/	12/2022	Da	ate End:	08/12/2022	, —		ww.cgl-uk.c		
	Sa	amples & Ti	ests	Water	Legend	Strata	Level	Dute Star			escription		00,12,2022		/indow S	Sheet 1 of ampling		Depth
Sample	Type/		Tests/Results	Level (m)	/Cover	Depth (m)	(m)							WS Run	Diam (mm)	Recovery (%)	Backfill	(m)
Depth (m) 0.10	Ref ES 1	PI	ID 0.10m -0.10 ppm			0.25	172.35	Tarmac over blac coarse fragment [MADE GROUND Soft to firm light	ed brick. S)]	Sand is fine	e to coarse	е.	-)				
					× × × × × × × × × × × × × × × × ×			flint gravel. [CLAY-WITH-FLIN										
		SPT(S)	1.20m N=12 (1,1/3,3,3,3)			1.20	171.40	Firm to stiff oran	igey brow	n CLAY wit	h occasio	nal rare pa	rtially	_				
		Р	ID 1.40m 0.20 ppm					decomposed org [CLAY-WITH-FLIN										
1.50	D 1						-											
		HS	iV 1.60m (p)= 73 kPa				_											
							-											
						1.90	170.70	Stiff red mottled	brown sli	ghtly silty	CLAY with	rare, suba	angular, coarse	_				
2.00	D 2	SPT(S)	2.00m N=14 (1,2/2,3,4,5)					flint gravel. [CLAY-WITH-FLIN	ITS FORM	ATION]								2-
		HS	SV 2.20m (p)= 81 kPa				-											
							-											
2.40	D 3						-											
							_											
							-											
							-											
3.00	D 4	SPT(S)	3.00m N=25 (2,3/4,6,7,8)		<u> </u>													3-
5.00		511(5).	5.00m N=25 (2,5/4,0,7,6)				_											
		нз	W 3.20m (p)= 93 kPa			3.20	169.40	Stiff yellowy bro	wn sandv	CLAY. Sand	l is fine to	medium.		_				
								[CLAY-WITH-FLIN	NTS FORM	ATION]								
								3.30m bgl -	ciayey sai	na. Sana Is	i jine to m	eaium.						
3.60	D 5						_											
						3.70	168.90	Stiff to very stiff	red CLAY v	with rare s	ubangular	r to angula	ır, medium flint					
							-	gravel.			0.1		,					
		SPT(S)	4.00m N=21 (1,3/3,4,6,8)				1	[CLAY-WITH-FLIN		AHONJ								4-
4.10	D 6	511(5)	(1,5,5,1,6,6)				_											
							-											
							-											
4.50	D 7																	
					<u> </u>		4											
							-											
							1											
		SPT(S)	5.00m N=28 (3,5/7,6,7,8)				1											5-
NI-2		5. 1(5).								a continue	1			- f		~ .	1.25	
Notes: 1. Position te	erminated	at target d	epth of 5.45 mbgl						Hole D Depth	iameter Diam	Ca Depth	ising Diam	Hammer Ir Energy Ratio	formation Serial N	o.	Scale: Logged By:		
2. No groun 3. Position n	dwater en	countered	. oʻ						(m) 2.00	(mm) 102	(m)	(mm)	66%	CKWSC		Checked By:		
			ove 1.2 mbgl based on Eng	ineer's	observatio	ins.			3.00	87			Install Resp		,	Approved By:	RN	۶
									4.00	75			Ref From			Section ID:		
											1	1				CGL Re		

			npus, Caterham, Sur	rey				Status:			Locatio					GL	
C	lient: Dai Metho		ney LLP lant Used		Grou	Indwat	er	FINAL			WS	7		Part of the			
From (m)	To (m)	Type	Plant Used	Strike (ne (min)	-	Location Type: Windo	ow Samp	oler				Card Ge	otechnics	Limited	
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless					Coords: 533124.680	E/15741	2.510N	Level:	172.600m		Godalm	ing Busine	ess Centr	
1.20	5.00	VV 3	Sampler Rig					Ordnance Survey Great			Depth:	5.45 m	_		oolsack W Godalminរួ		
								National Grid							Surrey, GU7 1XW		
								Orientation: (0°	Incli	nation:	90°		wv	w.cgl-uk.		
								Date Start: 08/12	2/2022	Da	te End:	08/12/2022		S	heet 2 of	2	
	Sa	amples & Te			Legend /Cover		Level (m)		Strata De	escription				/indow Sa		Inst/ Backfill	
Sample Depth (m)	Type/ Ref		Tests/Results	(m)	/00/01	(m)	(,						WS Run	Diam (mm)	Recovery (%)	Duckini	(111)
						-		itiff to very stiff red CLAY wi gravel.	ith rare s	ubangular	to angula	r, medium flint					
						-		CLAY-WITH-FLINTS FORMA	TION]								
							-										
				ļ		5.45	167.15	5011-45	45		4						
							-	EOH at 5	.45m - Acr	nieved targe	t deptn						
							-										
							-										
							1										6 -
							_										
							-										
							-										
							-										
							_										
							-										
							-										7 -
							-										
							-										
]										
							-										
							_										
							-										
							-										
]										8 -
							_										
							-										
							-										
							_										
							-										
							-										
							1										
							1										9 -
							-										
							-										
							1										
							1										
							Ţ										
							-										
							-										
	I	I	I	I			J						Ι	I	I	I	10 -
Notes:								Hole Dia	meter	Cas	sing	Hammer Ir	formation		Scale:	1:25	
1. Position t 2. No grour			epth of 5.45 mbgl					Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial N		Logged By:		
3. Position r	not installed	ł	ove 1.2 mbgl based on Eng	ineer's s	heervoti	ans		5.45	65	. /		66%	CKWSC	¹¹	Checked By:		
Densides	s and consis	ACTICIES dD	ove the most based on Eng		Doci Vdtl(2113.						Install Resp	onse Zones		pproved By:	RN	i5

Install Response Zones Section ID: Ref From (m) To (m) CGL Reference CG/39415

-	ent: Da	niel Watı		. ~ 1				_	tatus: INAL			Locatic WS				C	GL	
			lant Used			Indwa		Lassifian Tu		low Sam	nler		-	_	Part of	f the CTS Group®		
From (m) 0.00 1.20	To (m) 1.20 5.00	Type IP WS	Plant Used Hand Dug Tracked Windowless Sampler Rig	Strike (m) Tir	ne (min) Rose	Coords: 53 Ordnance Su	3166.630	DE/15736	51.850N		172.660m	4	l Godal	Geotechnics Iming Busine Woolsack W Godalming	ess Centi 'ay,	
								National Grid			Final	Depth:	5.45 m	_		Surrey,		
								Orientatio	n:	0°	Incli	nation:	90°		v	GU7 1XW vww.cgl-uk.c		
								Date Star	rt: 08/2	12/2022	Da	te End:	08/12/202	2		Sheet 1 of		
	Sa	amples & Te		Water Level	Legend /Cover	Strata Depth	Level (m)			Strata De	escription				1	Sampling	Inst/ Backfill	Depti (m)
Sample Depth (m)	Type/ Ref		Tests/Results	(m)	/0010	(m)	(,							WS Run	Diam (mm)		bucktin	(,
				- - -	× × × ×	0.40		Grass over dark of flint. [TOPSOIL]	brown silt	y gravelly	CLAY. Grav	el angular	, fine to mediu	m				
						0.40		Stiff to firm oran										
0.60	ES 1			ŀ			-	subrounded, fine the clay.		-	ei and blac	ck and yei	ow streaks in					
							-	[CLAY-WITH-FLIN	NTS FORM	ATION]								
							-											
							-											1-
				ŀ			-											
		SPT(S) 1	1.20m N=11 (1,2/3,2,3,3)	ŀ			-											
							-											
		HSV	V 1.50m (p)= 64 kPa			1.60	171.06											
1.60	D1			-			_	Stiff orangey bro [CLAY-WITH-FLIN			AY. Sand is	s fine to co	oarse.					
				-			-			Anonj								
				-			-											
2.00	D 2	SPT(S) 2	2.00m N=15 (1,2/2,4,4,5)	-		2.10	170.56											2 -
		HSV	V 2.20m (p)= 62 kPa				-	Stiff to very stiff to subrounded, f										
							-	the clay. [CLAY-WITH-FLIN	NTS FORM	ATION]								
2.50	D 3			-			-	from 2.30 to recovered as	o 3.00m bg	ıl - Freque			oarse flint					
				Ē			-	recovereu u	s ungulur,	jine to cot	arse jiint gi	iuvei.						
					= =		_											
							-											
		SPT(S) 3	3.00m N=24 (2,5/8,5,5,6)	ŀ			-	from 3.00 to	5 00m ba	ıl - Colouri	ation heco	mina dark	hrown					3-
							-	<i>Jion 3.00 to</i>	, 5.00m bg	i colouri		ining duri	brown.					N N N N N N N N N N N N N N N N N N N
							-											
3.40 - 3.50	D 4						-	from 3.30 to	o 3.40m bg	ıl - Orange	ey brown fi	ine sand.						
				-			-											
				ŀ	===		_											
		CDT/C) 4	100m N=24 /4 6/5 6 7 6)	ŀ	==													
		581(5)4	1.00m N=24 (4,6/5,6,7,6)				-											4-
4.20	ES 2	PI	ID 4.20m 8.80 ppm				_	4.20m bgl -	Partially d	ecompose	d organic	matter wi	th an					
4.30	D 5			ŀ				organic odo										
				ŀ			-											
4.65	D 6			F			-	from 4.60 to	5.00m bg	ıl - Black o	organic ma	tter.						
						1	-		-									
				ŀ			-											
	I	SPT(S) 5.0	00m N=44 (8,9/16,10,10,8)	ł			-{		Strata	continue	s onto next	t page				I		3 5 -
Notes:									Hole Di	iameter	Cas	sing	Hammer I	nformation		Scale:	1:25	
1. Position te 2. No ground			epth of 5.45 mbgl						Depth (m)	Diam (mm)	Depth (m)	Diam (mm)	Energy Ratio	Serial N	lo.	Logged By:		
3. Position no	ot installed	ł	ove 1.2 mbgl based on Engi	neer's ob	servatio	ins.			2.00 3.00	102 87			66%	CKWS		Checked By: Approved By:		
									4.00	75			Install Resp Ref From			Section ID:		
														,, 101		CGL Re		
																~~ / ^		

Cli		niel Watr						FINAL		W	58		Part of the		GL	
()			ant Used	0.1.6		indwat	-	Location Type: Wind	ow Sami	nler		-	Part of the	CTS Group		
rom (m) 0.00	To (m) 1.20	Type IP	Plant Used Hand Dug	Strike (r	m) in	ne (min)	Kose Io	Coords: 533166.630			172.660m			otechnics ing Busine		
1.20	5.00	WS	Tracked Windowless Sampler Rig					Ordnance Survey Great				_	W	oolsack W Godalming	ay,	,
								National Grid		Final Depth:	5.45 m	_		Surrey,		
								Orientation:	0°	Inclination:	90°	_		GU7 1XW w.cgl-uk.c		
								Date Start: 08/1	2/2022	Date End:	08/12/2022		SI	neet 2 of	2	
	1	imples & Te			Legend /Cover		Level (m)	· ·	Strata De	escription			ndow Sa		Inst/ Backfill	D
Sample Depth (m)	Type/ Ref		Tests/Results	(m)	, core.	(m)						WS Run	Diam (mm)	Recovery (%)	bucktin	
						-	t	tiff to very stiff orangey br o subrounded, fine to coar								
								he clay. CLAY-WITH-FLINTS FORMA	TION]							
				-			-		- 1							
						5.45	167.21	EOH at	5.45m - Acl	hieved target depth						Ż
							-									
							-									
							-									
							_									
							-									
							-									
							_									
							-									
							-									
							_									
							-									
							-									
]									
							_									
							-									
							-									
]									
							-									
							-									
							-									
							_									
							-									
							-									
							-									
	1						-									
	1]									
	1						-									
	1						4									
	1						-									
	1]									
	1	1		1		. 1	I			1	1	1			1	
es:								Hole Dia		Casing	Hammer Inf			Scale:		
		at target de ountered	pth of 5.45 mbgl					Depth (m)	Diam (mm)	Depth Diam (m) (mm)	Energy Ratio	Serial No.	·	Logged By:	AD	١Ē

Notes:	Hole Di	ameter	Cas	sing	Ham	mer Inform	nation	Scale: 1:	25
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam (mm)	Depth (m)	Diam (mm)	Energy R	tatio S	erial No.	Logged By:	ADB
2. No groundwater encountered 3. Position not installed	(m) 5.45	65	(11)	(mm)	66%	s c	KWS01	Checked By:	HJG
4. Densities and consistencies above 1.2 mbgl based on Engineer's observations.					Instal	Response	Zones	Approved By:	RNS
								Section ID:	
					Ref	From (m)	To (m)	CGL Refer	ence
								CG/394	415

Project T	itle: Kei	nley Cam	ipus, Caterham, Sur	rey					Status:		Locatio	on ID						
Cl		niel Wati	ney LLP ant Used		Grou	Indwa	ater		FINAL		WS	9			Part of the	CTS Group®	GL	
From (m)	To (m)	Type	Plant Used	Strike (ne (min		e To	Location Type: Window Sa	mpler				(Card Ge	otechnics	Limite	d.
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless						Coords: 533111.730E/157	'351.580N	Level:	172.660m			Godalm	ing Busine oolsack W	ess Cen	·
			Sampler Rig						Ordnance Survey Great Britain National Grid	۲ Final	Depth:	5.45 m				Godalming		
									Orientation: 0°	Incli	nation:	90°				Surrey, GU7 1XW		
									Date Start: 08/12/202		te End:	08/12/20	22			/w.cgl-uk.o		
	Si	amples & Te	ests	Water	Legend	Strata	Level	Τ		a Description	te Enu.	00/12/20		Wi	S ndow Sa	heet 1 of	Inst/	Depth
Sample	Type/		Tests/Results	Level (m)		Depth (m)	(m)							WS Run	Diam (mm)	Recovery (%)	Backfil	
Depth (m)	Ref					0.10	172.56		oft dark brown sandy gravelly cla						()	()		
0.10	ES 1					0.20		_\ fin	ne to medium of chalk and brick /IADE GROUND]	. Sand is fine	to coarse							8
						-			'hite angular to subangular, med Ialk cobbles.	lium to coars	e chalk gr	avel. Occasio	nal					-
								\[₩	1ADE GROUND] iff orangey brown mottled red C	I AY with occ	asional ar	gular to						-
								- su	brounded, fine to coarse flint gr				ack					
							-		reaks in the clay. LAY-WITH-FLINTS FORMATION]									-
						-		-										
						-		1										1-
1 30	ES 2	CD7/C) -	20m N=12 (1 1/2 1 2 2)	ŀ				_										
1.20 1.30	D 1	581(5)1	.20m N=12 (1,1/3,4,2,3)	F														
		HSV	/ 1.60m (p)= 90 kPa	ŀ				-										-
				ŀ		-	-											-
						-												-
		SPT(C) 2	.00m N=19 (2,3/3,4,6,6)	ŀ		-		-										2
			D 2.10m 0.60 ppm	ŀ		-			from 2.00 to 3.00m bgl - Colo from 2.00 to 5.00m bgl - Flint									
2.20						-		-										
2.30	D 2	HSV	2.40m (p)= 150 kPa					-										
]												: -
				ŀ		-	-	_										· -
						-		-										· -
2.90	D 3					-												
3.10	D 4	SPT(C) 3	.00m N=17 (3,3/5,4,4,4)			-		-	from 3.00 to 4.00m bgl - Colo	uration beco	mes dark	brown						3-
																		-
								-										-
				ŀ		-		-										-
							-											-
				ŀ				-										
				+				1										
		SPT(S) 4	4.00m N=9 (4,1/2,4,2,1)]										4
				ŀ				-										•
				-		4.40	168.26											
4.40	D 5			Ī	- <u>-</u>	4.40	168.26	Str	ructured CHALK recovered as w				-4					· -
								wł	covered as low density, very we hite chalk.	ak, subangui	ar and fin	e to medium	or					
							-	- (w	VHITE CHALK SUBGROUP]									
				-	T p P			-										
		SPT(S) 5.	00m N=27 (1,4/3,5,7,12)	ł	<u>r ' r</u>]		1	Strata contin	ues onto nex	t page						Ŀŀ.	- ₅
Notes:									Hole Diameter		sing	Hamme	r Informa	tion		Scale:	1:25	
1. Position to 2. No ground			pth of 5.45 mbgl			_			Depth Diam (m) (mm)		Diam (mm)	Energy Ratio	o Ser	ial No		Logged By:		DB
3. Installatio pipe with gr	n details: C avel filter b).0 to 0.5m ! etween 0.5	50mm plain pipe with a be and 5.0m. Bung, gas tap a	and flush	cover in	stalled	2 and 0.5	5m; 50				66%		WS01		Checked By: pproved By:		IJG NS
			ove 1.2 mbgl based on Eng						4.00 75			Install Re Ref Fro	sponse Z m (m)	ones To (n		Section ID:		
													.50	5.00		CGL Re		
											L					CG/3	9415	

		niel Watr	pus, Caterham, Sur ney LLP					Stati			Locatio WS				C	GL	
			ant Used		Grou	ndwat	er						-	Part of the	CTS Group●		
From (m)	To (m)	Туре	Plant Used	Strike (n	n) Tin	ne (min)	Rose To	Location Type	: Window S	Sampler	-				otechnics		
0.00 1.20	1.20 5.00	IP WS	Hand Dug Tracked Windowless					Coords: 5331	11.730E/15	57351.5	80N Level:	172.660m	4		ing Busine oolsack W		re,
			Sampler Rig					Ordnance Surve National Grid	y Great Brita	ain 🗌	Final Depth:	5.45 m			Godalmin		
								Orientation:	0°		Inclination:	90°			Surrey, GU7 1XW	/	
														ww	/w.cgl-uk.o	com	
								Date Start:	08/12/20		Date End:	08/12/2022	_		heet 2 of		_
Comple	-	amples & Te			egend Cover	Depth	Level (m)		Stra	ata Descrip	ption		WS	/indow Sa Diam	mpling Recovery	Inst/ Backfill	
Sample Depth (m)	Type/ Ref		Tests/Results	(m)		(m)							Run	(mm)	(%)		_
				ŀ				tructured CHALK re ecovered as low de									
				Ė	r r		- v	hite chalk.		,	0						
				Ė	r r] [WHITE CHALK SUB	GROUPJ								
				É	р Гр	5.45	167.21		FOH at 5.45m	a - Achieve	ed target depth		_				-
							-		2011 02 3.451	i Aciiieve	tu tunget ueptin						
							-										
							-										
]										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							_										
							-										
]										
							-										
							_										
							-										
							-										
]										
							_										
							-										
							-										
							-										
							-										
]										
							-										
							-										
							4										
	1						-										
							1										
	I	I	I	I		I I	1						I	I	I	I	I
otes:									Hole Diamete	er	Casing	Hammer Inf	ormation		Scale	: 1:25	
			pth of 5.45 mbgl						Depth Dia		epth Diam	Energy Ratio	Serial N		Logged By		

Notes.	Hole D	lameter	Ca	sing	пат	merimorn	lation	Scale: 1:	25	Ì.
1. Position terminated at target depth of 5.45 mbgl	Depth	Diam	Depth	Diam	Energy R	atio S	erial No.	Logged By:	ADB	I
2. No groundwater encountered	(m)	(mm)	(m)	(mm)				Checked Bv:	HJG	I
3. Installation details: 0.0 to 0.5m 50mm plain pipe with a bentonite seal between 0.2 and 0.5m; 50mm slotted	5.45	65			66%	C	KWS01	Checked by.	DUH	I
pipe with gravel filter between 0.5 and 5.0m. Bung, gas tap and flush cover installed							_	Approved By:	RNS	L
4. Densities and consistencies above 1.2 mbgl based on Engineer's observations.					Instal	l Response	Zones	Section ID:		L
					Ref	From (m)	To (m)			I
					Pipe1	0.50	5.00	CGL Refer	rence	i
					Tipe1	0.50	5.00	CG/394	415	l

APPENDIX H

CGL Monitoring Records



GAS MONITORING RECORD SHEET

Site: I	KENLEY CAMP	US, CATERHAM	SURREY			Job No:	CG/39415		
	22/12/2022		,			Engineer:	ADB		
Time: (09:00-12:00					Client	DANIEL WATH	IEY LLP	
VETEOROLOG	GICAL & SITE II	NFORMATION							
tate of ground	:	Dry		Moist	x	Wet]	
Vind:		Calm	x	Light		Moderate		Strong	
Cloud cover:		None		Slight		Cloudy		Overcast	х
Precipitation:		None		Slight		Moderate	x	– П Неаvy Г	
				18		1			
Barometric pres	sure (mb):	964	-970	Local press	ure system*:	Falling	Air t	emperature (°C):	7 to 10
Well No.	Time (s)	Flow (I/hr)	Flow (l/hr)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH₄ (% vol. in air)	PID (ppm)	Depth to Groundwater (mbgl)	Depth to base (mbgl)
	0	0.0	0.0	20.7	0.0	0.0	0.0	DRY	4.95
	15	0.0	0.0	19.0	0.7	0.0	0.1		
F	30	0.0	0.0	17.8	0.8	0.0	0.2	↓ ↓	
-	45	0.0	0.0	17.7	0.8	0.0	0.2	+	
VS9 970mb	60 90	0.0	0.0	17.6 17.6	0.8	0.0	0.2	+	
01110	120	0.0	0.0	17.6	0.8	0.0	0.2	+ +	
F	150	0.0	0.0	17.6	0.8	0.0	0.2	+ +	
F	180	0.0	0.0	17.6	0.8	0.0	0.2		
F	240								
	300								
	<u> </u>	0.7	0.7			0.7			15.00
-	0	0.0	0.0	20.3	0.0	0.0	0.0	DRY	15.00
-	15 30	0.0	0.0	19.0	1.0	0.0	0.2	+	
F	45	0.1	0.0	18.6 18.4	1.1	0.0	0.3	+ +	
F	60	0.2	1.0	18.4	1.1	0.0	0.3		
BH1 968mb - - -	90	0.0	0.0	18.4	1.1	0.0	0.4		
	120	0.0	0.0	18.3	1.2	0.0	0.4		
	150	0.0	0.0	18.2	1.3	0.0	0.4		
	180	0.0	0.0	18.2	1.3	0.0	0.4		
	240			18.2	1.3	0.0			
	300								
	0	0.0	0.0	20.2	0.0	0.0	0.0	2.85	4.95
-	15	0.0	0.0	20.2 18.5	0.0	0.0	0.0	2.03	4.55
-	30	0.0	0.0	18.0	1.0	0.0	0.1		
-	45	0.0	0.0	17.9	1.7	0.0	0.1		
Ē	60	0.0	0.0	17.9	1.7	0.0	0.1		
NS5 966mb	90	0.0	0.0	18.1	1.5	0.0	0.1		
	120	0.0	0.0	18.4	1.3	0.0	0.1		
-	150	0.0	0.0	18.5	1.1	0.0	0.1		
-	180	0.0	0.0	18.7	1.0	0.0	0.1	++	
-	240 300							+	
	300	1	1	1	1	1	1	1	
1	0	0.0	0.0	20.1	0.0	0.0	0.0	DRY	5.02
-	15	0.0	0.0	19.0	1.5	0.0	0.0	<u> </u>	
F	30	0.0	0.0	18.6	1.6	0.0	0.1		
	45	0.0	0.0	18.4	1.7	0.0	0.1		
	60	0.0	0.0	18.4	1.8	0.0	0.1		
VS4 964mb	90	0.0	0.0	18.1	1.9	0.0	0.1	\downarrow	
Ļ	120	0.0	0.0	17.9	2.0	0.0	0.1	+	
-	150	0.0	0.0	17.8	2.1	0.0	0.1	+	
-	180 240	0.0	0.0	17.7 17.7	2.1	0.0	0.1	+	
-	300			17.7	2.1			+ +	
		!	ļ				!	· ·	
	0	0.0	0.0	20.0	0.0	0.0	0.1	4.70	5.0
	15	0.0	0.0	19.9	0.7	0.0	0.2		
	30	0.0	0.0	19.6	0.8	0.0	0.2		
Ļ	45	0.0	0.0	19.5	0.8	0.0	0.2	ļ	
	60	0.0	0.0	19.6	0.8	0.0	0.2	↓	
VS1 964mb	90 120	0.0	0.0	19.6	0.8	0.0	0.2	+	
-	120	0.0	0.0	19.6 19.5	0.8	0.0	0.2	+	
ŀ	150	0.0	0.0	19.5	0.8	0.0	0.2	+ +	
		0.0	0.0	10.0	0.0	0.0	0.2		
	240								

Notes:

The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary. * With reference to the Weather Underground rolling weather archive for Kenley Airfield weather station.

NR= Not recorded



GAS MONITORING RECORD SHEET

	KENLEY CAMP	US, CATERHAM,	SURREY			Job No:	CG/39415		
						Engineer:	ADB		
ime:	09:00- 12:00					Client	DANIEL WATN	NEY LLP	
				-	r	1		_	
Vind:		Calm	x	Light		Moderate		Strong	
loud cover:		None		Slight		Cloudy		Overcast	х
recipitation:		None	х	Slight		Moderate		Heavy	
arometric pre-	ssure (mh)	979	-987	Local press	ure system*·	Rising	Δirt	emperature (°C):	4.6-7.7
aronneene pre.	5501C (1115).		502	-	are system .	113116	-		4.0 7.7
				0	60	CH	DID	Depth to	Depth to base
/ell No.	Time (s)	Flow (l/hr)	dA (PA)						(mbgl)
	0	0.0	0.0		· /	· ,			4.96
F				1				DINI	
F									
-	45								
Ī	60	-0.3	-1.0	13.1	2.1	0.0	0.0		
VS9 980mb		-0.5	-2.0	13.0	2.1	0.0	0.0		
		-0.3	-1.0	13.0	2.1	0.0	0.0		
		-0.5	-2.0	13.0	2.1	0.0	0.0		
	300							I T	
	0	0.0	0.0	20.5	0.0	0.0	0.0	DRY	15.02
ŀ									13.02
ŀ								+ +	
ŀ									
-								+ +	
u1 070mh									
0119791110									
-									
-									
-		-1.7	-7.0			0.0	0.4	+	
				16.4	1.0				
		-60.0		20.2	0.0	0.0	0.0	3.90	4.95
L									
L									
			-3.0			0.0	0.3		
Ļ									
Ļ				1					
VS5 980mb									
		-0.2	-1.0						
Ļ								<u> </u>	
Ļ								ļļ	
Ļ							0.5	ļ	
	420			9.7	7.1	0.0			
	0	0.0	0.0	20.2	0.0	0.0	0.0	1,45	4.95
ŀ	-								
ŀ								1 1	
ŀ								1 1	
-									
1									
/S1 982mb									
/S1 982mb	120								
/S1 982mb		-0.1							
/S1 982mb -	150			19.0				1	
/S1 982mb - -	150 180			19.0	0.5				
/S1 982mb	150 180 240			19.0	0.5				
/S1 982mb	150 180 240 300	-0.1	-1.0			-			
VS1 982mb	150 180 240 300 0	-0.1	-1.0	19.4	0.0	0.0	0.0	DRY	5.0
VS1 982mb	150 180 240 300 0 15	-0.1 0.0 -1.5	-1.0 0.0 -6.0	19.4 20.5	0.0	0.0	0.0	DRY	5.0
/S1 982mb	150 180 240 300 0 15 30	-0.1 0.0 -1.5 -1.5	-1.0 0.0 -6.0 -6.0	19.4 20.5 20.0	0.0 0.0 0.0	0.0 0.0	0.0 0.0	DRY	5.0
VS1 982mb	150 180 240 300 0 15 30 45	-0.1 0.0 -1.5 -1.5 -1.3	-1.0 0.0 -6.0 -6.0 -6.0	19.4 20.5 20.0 20.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	DRY	5.0
	150 180 240 300 0 15 30 45 60	-0.1 0.0 -1.5 -1.5 -1.3 -2.2	-1.0 0.0 -6.0 -6.0 -6.0 -9.0	19.4 20.5 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	DRY	5.0
	150 180 240 300 0 15 30 45 60 90	-0.1 0.0 -1.5 -1.5 -1.3 -2.2 -2.6	-1.0 0.0 -6.0 -6.0 -6.0 -9.0 -11.0	19.4 20.5 20.0 20.0 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	DRY	5.0
	150 180 240 300 15 30 45 60 90 120	-0.1 0.0 -1.5 -1.5 -1.3 -2.2 -2.6 -2.2	-1.0 0.0 -6.0 -6.0 -6.0 -9.0 -11.0 -9.0	19.4 20.5 20.0 20.0 20.0 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	DRY	5.0
VS1 982mb	150 180 240 300 15 30 45 60 90 120 150	-0.1 0.0 -1.5 -1.5 -1.3 -2.2 -2.6 -2.2 -1.7	-1.0 0.0 -6.0 -6.0 -6.0 -9.0 -11.0 -9.0 -7.0	19.4 20.5 20.0 20.0 20.0 20.0 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	DRY	5.0
	150 180 240 300 15 30 45 60 90 120 150 180	-0.1 0.0 -1.5 -1.5 -1.3 -2.2 -2.6 -2.2	-1.0 0.0 -6.0 -6.0 -6.0 -9.0 -11.0 -9.0	19.4 20.5 20.0 20.0 20.0 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	DRY	5.0
	150 180 240 300 15 30 45 60 90 120 150	-0.1 0.0 -1.5 -1.5 -1.3 -2.2 -2.6 -2.2 -1.7	-1.0 0.0 -6.0 -6.0 -6.0 -9.0 -11.0 -9.0 -7.0	19.4 20.5 20.0 20.0 20.0 20.0 20.0 20.0 20.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	DRY 0	5.0

Notes:

The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary. * With reference to the Weather Underground rolling weather archive for Kenley Airfield weather station. NR= Not recorded



GAS MONITORING RECORD SHEET

		SURREY			Job No:	CG/39415		
023					Engineer:	ADB		
:00					Client	DANIEL WATNE	Y LLP	
SITE INFORM	IATION							
	Dry		Moist		Wet	x (Frozen)		
	alm	×	Light		Moderate	x (Hozen)	Strong	
	-	x						
	one		Slight	x	Cloudy		Overcast	
N	one	x	Slight		Moderate		Heavy	
):	985-9	987	Local press	ure system*:	Stable	Air ter	nperature (°C):	negative 0.5 to positive 1.3
			02	CO2	CH4	PID	Depth to	Depth to base
(s) Flow	v (l/hr)	dA (PA)	(% vol. in air)	(% vol. in air)	(% vol. in air)	(ppm)	Groundwater (mbgl)	(mbgl)
	0.0	0.0	19.8	1.4	0.0	0.0	DRY	4.98
	0.0	0.0	11.1	2.4	0.0	0.0		
	0.0	0.0	10.3	2.4	0.0	0.0		
(0.0	0.0	10.3	2.4	0.0	0.0		
(0.0	0.0	10.2	2.4	0.0	0.0		
	0.0	0.0	10.2	2.4	0.0	0.0		
	0.0	0.0	10.2	2.4	0.0	0.0		
	0.0	0.0	10.2	2.4	0.0	0.0		
	0.0	0.0	10.2	2.4	0.0	0.0		
)		0.0	10.2	2.4	0.0	0.0		
)								
							I	
	N OVER BLE TO							
	NITOR							
				1				
)								
)								
)								
)								
)								
		~ ~ ~					4.00	4.00
	0.0	0.0	19.7	0.0	0.0	0.0	4.88	4.96
	0.0	0.0	11.6	7.2	0.0	0.0		
(0.0	0.0	9.2	7.5	0.0	0.0		
(0.0	0.0	8.8	7.5	0.0	0.0		
(0.0	0.0	8.7	7.5	0.0	0.0		
	0.0	0.0	8.7	7.5	0.0	0.0		
	0.0	0.0	8.7	7.5	0.0	0.0		
	0.0	0.0	8.7	7.5	0.0	0.0		
	0.0	0.0	8.7	7.5	0.0	0.0		
)								
)								
			10.0				6.6%	5.05
	0.0	0.0	19.3	0.0	0.0	0.0	DRY	5.05
	0.0	0.0	19.8	0.3	0.0	0.0		
	0.1	1.0	19.7	0.3	0.0	0.0		
(0.0	0.0	19.7	0.3	0.0	0.0		
	0.0	0.0	19.6	0.3	0.0	0.0	_	
	0.0	0.0	19.6	0.3	0.0	0.0		
	0.2	1.0	19.6	0.3	0.0	0.0		
	0.5	2.0	19.6	0.3	0.0	0.0		
	0.6	3.0	19.6	0.3	0.0	0.0		
	0.7	3.0						
	1.0	4.0						
	1.0	5.0						
) 1	1.5	7.0						
	2.1	9.0						
	2.6	12.0						
	2.8	13.0						
	3.0							
		14.0						
) 2	2.8	13.0						
(0.0	0.0	19.5	0.0	0.0	0.0	1.87	4.95
	0.0	0.0	18.7	0.9	0.0	0.0		
	0.0	0.0	18.3	0.9	0.0	0.0		
	0.0	0.0	18.3	0.9	0.0	0.0		
	0.0	0.0	18.3	0.9	0.0	0.0		
	0.0	0.0	18.3	0.9	0.0	0.0		
	0.0	0.0	18.3	0.9	0.0	0.0		
						0.0		
		0.0	10.3	0.9	0.0	0.0		
/ I								
	(0.0	0.0 0.0	0.0 0.0 18.3	0.0 0.0 18.3 0.9	0.0 0.0 18.3 0.9 0.0	0.0 0.0 18.3 0.9 0.0 0.0	0.0 0.0 18.3 0.9 0.0 0.0

Notes:

The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary. * With reference to the Weather Underground rolling weather archive for Kenley Airfield weather station. NR= Not recorded



GROUNDWATER MONITORING RECORD SHEET

JOB DETAIL	JOB DETAILS									
Site:	KENLEY CAMPUS, CATERHAM, SURREY	Job No:	CG/39415							
Date:	09/01/2023	Engineer:	ADB							
Time:	09:00-12:00	Client	DANIEL WATNEY LLP							
Weather:	Overcast									

MONITORING & SAMPLING DETAILS								
Nell / Borehole reference:	WS5	WS1						
Monitoring details		-		•		•	•	
Ground elevation (+mOD)								
Groundwater depth (mbgl)	3.9	1.45						
Groundwater elevation (+mOD)								
Depth to base of well (mbgl)	4.95	4.95						
Diameter of well (m)	0.05	0.05						
Condition of well	Good	Good						
op of response zone (mbgl)	0.5	0.5						
Base of response zone (mbgl)	5	5						
Free product thickness (m)	0	0						
Hydrocarbon sheen noted (Y/N)	N	N						
Purge method	Bailor	Bailor						
Purging details								
Purged volume (litres)	3L	8L						
Recharge (good / poor)	Poor	Poor						
Sampling details		1	1			-		
Sampling method	Bailor	Bailor						
/olume of water sample taken (litres)	2 x bottles and 2	x vials						
/olume of free product sample taken (litres)	0	0						
Colour / odours noted*	Opaque orangey	brown with rare	e, fine, brown floa	ating organic ma	tter. Odourless.			
n-situ measurements								•
рН	8.1	7.74						
Femperature (°C)	10.5	10.4						
Dissolved oxygen (mg/l)	13.3	13.6				1		
Redox potential (mV)	75mV	92mV						
Electrical conductivity (µS/cm)	1.06 mS	0.99						

NOTES

APPENDIX I

Chemical Analysis Results





Helen Gardiner Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW

t: 01483 310600

f: 01483 527285

e: HelenG@cgl-uk.com

i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS

t: 01923 225404

- f: 01923 237404
- e: reception@i2analytical.com

Analytical Report Number : 22-12888

Replaces Analytical Report Number: 22-12888, issue no. 1 Additional analysis undertaken.

Project / Site name:	Kenley Campus	Samples received on:	12/12/2022
Your job number:	CG-39415	Samples instructed on/ Analysis started on:	13/12/2022
Your order number:	POP01075	Analysis completed by:	03/01/2023
Report Issue Number:	2	Report issued on:	24/01/2023
Samples Analysed:	6 leachate samples - 18 soil samples		

179/m Signed:

Adam Fenwick Technical Reviewer For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland. Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation. Standard sample disposal times, unless otherwise agreed with the laboratory, are : Soils - 4 weeks from reporting leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.





Your Order No: POP01075

Lab Sample Number				2530761	2530762	2530763	2530764	2530765
Sample Reference				TP10	TP7	TP5	TP3	TP11
Sample Number				ES1	ES1	ES1	ES1	ES1
Depth (m)				0.40	0.65	0.20	0.20	0.10
Date Sampled				06/12/2022	06/12/2022	06/12/2022	07/12/2022	07/12/2022
Time Taken	-			None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detectior	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	20	21	16	9
Total mass of sample received	kg	0.001	NONE	0.3	0.8	0.8	0.8	0.8
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	-	-	Chrysotile	-
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	-	Not-detected	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	0.272	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	0.272	-
Asbestos Analyst ID	N/A	N/A	N/A	DSO	N/A	DSO	DSO	DSO
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.8	8.1	7.5	7.9	8.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	760	170	470	580	1700
Organic Matter (automated)	%	0.1	MCERTS	2.1	0.8	3.6	3.3	0.7
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.39	0.35	0.32	0.36	0.24
Acenaphthylene	mg/kg	0.05	MCERTS	0.42	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	3	< 0.05	0.11	0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS MCERTS	1.8	< 0.05	0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	26	< 0.05	1.1	0.3	0.14
Anthracene Fluoranthene	mg/kg mg/kg	0.05	MCERTS	8 54	< 0.05	0.18	< 0.05 0.62	< 0.05 0.95
Pyrene	mg/kg	0.05	MCERTS	46	< 0.05	2.8	0.58	0.93
Benzo(a)anthracene	mg/kg	0.05	MCERTS	25	< 0.05	1.3	0.29	0.97
Chrysene	mg/kg	0.05	MCERTS	20	< 0.05	1.3	0.39	1.2
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	27*	< 0.05	1.9*	0.4*	1.8*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	9.2	< 0.05	0.44	0.2	0.93
Benzo(a)pyrene	mg/kg	0.05	MCERTS	21	< 0.05	1.2	0.35	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	11	< 0.05	0.73	0.22	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.5	< 0.05	0.16	0.06	0.26
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	11	< 0.05	0.91	0.27	1.5
Coronene	mg/kg	0.05	NONE	2.7	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	0.85	NONE	270	< 0.85	15	4.09	11.1
Heavy Metals / Metalloids								
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	3.3	4.5	< 1.0	2.9	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	19	14	15	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	71	60	95	83	57
	mg/kg	0.06	MCERTS	0.7	0.96	0.92	0.77	0.59
Beryllium (aqua regia extractable)		0.2	MCERTS	0.7	0.9	1.1	0.8	0.3
Beryllium (aqua regia extractable) Boron (water soluble)	mg/kg	6.2			< 0.2	0.5	0.6	< 0.2
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4				
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent)	mg/kg mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent) Chromium (III)	mg/kg mg/kg mg/kg	1.2 1	NONE NONE	< 1.2 27	< 1.2 58	< 1.2 28	< 1.2 34	19
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent) Chromium (III) Chromium (aqua regia extractable)	mg/kg mg/kg mg/kg mg/kg	1.2 1 1	NONE NONE MCERTS	< 1.2 27 28	< 1.2 58 58	< 1.2 28 29	< 1.2 34 35	19 19
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent) Chromium (III) Chromium (aqua regia extractable) Copper (aqua regia extractable)	mg/kg mg/kg mg/kg mg/kg mg/kg	1.2 1 1 1	NONE NONE MCERTS MCERTS	< 1.2 27 28 16	< 1.2 58 58 16	< 1.2 28 29 27	< 1.2 34 35 51	19 19 15
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent) Chromium (III) Chromium (aqua regia extractable) Copper (aqua regia extractable) Lead (aqua regia extractable)	mg/kg mg/kg mg/kg mg/kg mg/kg	1.2 1 1 1 1	NONE NONE MCERTS MCERTS MCERTS	< 1.2 27 28 16 33	< 1.2 58 58 16 18	< 1.2 28 29 27 68	< 1.2 34 35 51 58	19 19 15 15
Beryllium (aqua regia extractable) Boron (water soluble) Cadmium (aqua regia extractable) Chromium (hexavalent) Chromium (III) Chromium (aqua regia extractable) Copper (aqua regia extractable)	mg/kg mg/kg mg/kg mg/kg mg/kg	1.2 1 1 1	NONE NONE MCERTS MCERTS	< 1.2 27 28 16	< 1.2 58 58 16	< 1.2 28 29 27	< 1.2 34 35 51	19 19 15





Your Order No: POP01075

Lab Sample Number				2530761	2530762	2530763	2530764	2530765
Sample Reference				TP10	TP7	TP5	TP3	TP11
Sample Number				ES1	ES1	ES1	ES1	ES1
Depth (m)				0.40	0.65	0.20	0.20	0.10
Date Sampled				06/12/2022	06/12/2022	06/12/2022	07/12/2022	07/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
	1	5		Holle Supplied	Hone Supplied	Holic Supplied	Holle Supplied	Hone Supplied
		Limit of detection	Accreditation Status					
Analytical Parameter	Units	of	Sta					
(Soil Analysis)	lits	dete	litat					
		cti	lion					
		_						
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	40	89	48	51	38
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	61	42	93	87	25
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	2.9	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH CU 1D AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH CU 1D AL	mg/kg	8	MCERTS	16	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) EH CU+HS 1D AL	mg/kg	10	NONE	24	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS 1D AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	6.9	< 1.0	1.4	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	28	< 2.0	4.6	3.1	3
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	79	< 10	< 10	10	< 10
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_ID_AR}	mg/kg	10	MCERTS	130	< 10	13	15	20
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	240	< 10	29	29	33
EL_COTID_ID_AK		I.	1	210		25	27	
PCBs by GC-MS*								
PCB Congener 28	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 52 PCB Congener 101	mg/kg	0.001	NONE	-		< 0.001	-	-
PCB Congener 101 PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001	-	-
	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 138	mg/kg	0.001	NONE				-	
PCB Congener 153	mg/kg	0.001	NONE	-	-	< 0.001		-
PCB Congener 180	iiig/kg	0.001	NONE	-	-	< 0.001	-	-
Total PCBs by GC-MS*		0.007	NONE					
Total PCBs	mg/kg	0.007	NONE	-	-	< 0.007	-	-

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = \ Not \ detected$

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted and the failure justified as having no significant impact on sample data reported.





Your Order No: POP01075

Lab Sample Number				2530766 TP4	2530767 TP1	2530768	2530769	2530770
Sample Reference Sample Number				ES1	ES1	TP12 ES1	WS8 ES1	WS6 ES1
•				0.20	0.20	0.30	0.60	0.20
Depth (m) Date Sampled				0.20	0.20	0.30	0.60	0.20
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
	1	-	1	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	29	19	< 0.1	27
Moisture Content	%	0.01	NONE	15	14	14	24	10
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	DSO	DSO	DSO	N/A	DSO
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8	6	8.8	8.3	9.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	850	400	730	220	2100
Organic Matter (automated)	%	0.1	MCERTS	3.3	2.4	1.6	0.6	8.6
Total Phenois								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.29	0.14	0.16	0.8	5.1*
Acenaphthylene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	0.17	14*
Acenaphthene	mg/kg	0.05	MCERTS	0.08	0.06	< 0.05	0.87	20*
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	1	29*
Phenanthrene	mg/kg	0.05	MCERTS	1.1	0.41	0.23	7.4	230*
Anthracene	mg/kg	0.05	MCERTS	0.21	0.07	< 0.05	1.8	75*
Fluoranthene	mg/kg	0.05	MCERTS	3.1	1.1	0.59	11	430*
Pyrene	mg/kg	0.05	MCERTS	2.8	1	0.52	9.9	360*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.6	0.55	0.31	5.6	230*
Chrysene	mg/kg	0.05	MCERTS	1.7	0.6	0.38	5.3	170*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2*	0.63*	0.41*	5.8	210*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025 MCERTS	0.97	0.25	0.21	2.2	92*
Benzo(a)pyrene	mg/kg mg/kg	0.05	MCERTS	1.7	0.45	0.34	4.7	170* 77*
Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	0.31	0.26	2.4	21*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.3	0.36	0.32	2.5	80*
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
			1					
Total PAH								
Total WAC-17 PAHs	mg/kg	0.85	NONE	18	6.03	3.79	62.4	2220
Heavy Metals / Metalloids		-	-	-	-	-	-	-
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	4.4	3.3	5.4	5.5	< 1.0
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	15	15	24	8.3
Barium (aqua regia extractable)	mg/kg	1	MCERTS	280	110	120	89	530
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1	1.1	0.96	1.2	5.3
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.2	1.2	0.8	3.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	2	< 0.2	0.5	< 0.2	0.6
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	35	31	29	68	51
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	35	31	29	68	51
Copper (aqua regia extractable)	mg/kg	1	MCERTS	72	58	36	26	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	190	57	73	26	32
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.1	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	23	17	23	5.6
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	5.1





Your Order No: POP01075

Lab Sample Number				2530766	2530767	2530768	2530769	2530770
Sample Reference				2330766 TP4	2550767 TP1	TP12	2330769 WS8	2330770 WS6
Sample Number				ES1	ES1	ES1	ES1	ES1
Depth (m)				0.20	0.20	0.30	0.60	0.20
Date Sampled				07/12/2022	07/12/2022	07/12/2022	08/12/2022	0.20
Time Taken								
		-		None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	44	48	46	130	120
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240	75	110	53	52
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Petroleum Hydrocarbons TPH-CWG - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH CU ID AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	14
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	25
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_ID_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	38
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	77
TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	3.7
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	4.5	< 2.0	< 2.0	5.5	190
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	17	< 10	< 10	24	1600
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	24	< 10	< 10	41	2800
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	45	< 10	< 10	71	4600
PCBs by GC-MS*			•					
PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	-
Total PCBs by GC-MS*								
Total PCBs	mg/kg	0.007	NONE	-	-	-	-	-

 ${\sf U}/{\sf S} = {\sf Unsuitable \ Sample} \quad {\sf I}/{\sf S} = \ {\sf Insufficient \ Sample} \quad {\sf ND} = {\sf Not \ detected}$

*Data reported unaccredited due to quality control parameter failure associated with this n applied prior to reporting the data have been accepted and the failure justified as having n impact on sample data reported.





Your Order No: POP01075

							1	
Lab Sample Number				2530771	2530772	2530773	2530774	2530775
Sample Reference				WS5	WS5	WS4	WS4	WS2
Sample Number				ES1	ES3	ES1	ES2	ES3
Depth (m)				0.20	1.60	0.10	1.00	0.90
Date Sampled				08/12/2022	08/12/2022	09/12/2022	09/12/2022	09/12/2022
Time Taken	-	_	1	None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	32	< 0.1	29	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	14	13	22	17
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.8	0.8
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	-	Not-detected	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	DSO	N/A	DSO	N/A	PDO
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	9.5	7.7	8.2	8.3	7.1
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	1.4	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	2400	150	900	200	250
Organic Matter (automated)	%	0.1	MCERTS	11	0.3	3.4	0.6	0.9
Total Phenois								
Total Phenols (monohydric)	mg/kg	1	MCERTS	1.4	< 1.0	1.3	< 1.0	< 1.0
				1.7	< 1.0	1.5	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	4.1*	0.35	0.49	0.43	0.34
Acenaphthylene	mg/kg	0.05	MCERTS	15*	< 0.05	0.12	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	51*	< 0.05	0.08	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	55*	< 0.05	0.08	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	710*	0.09	1.1	0.06	0.06
Anthracene	mg/kg	0.05	MCERTS	220*	< 0.05	0.21	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	910*	0.1	2.4	0.13	0.13
Pyrene	mg/kg	0.05	MCERTS	750*	0.09	2.3	0.11	0.12
Benzo(a)anthracene	mg/kg	0.05	MCERTS	410*	0.05	1.4	0.07	0.08
Chrysene	mg/kg mg/kg	0.05	MCERTS ISO 17025	380*	0.05	1.2	0.07	0.08
Benzo(b)fluoranthene Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	430* 150*	0.06	1.5 0.79	0.09 < 0.05	0.09
Benzo(a)pyrene	mg/kg	0.05	MCERTS	380*	< 0.05	1.3	0.05	0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	200*	< 0.05	0.78	< 0.05	0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	49*	< 0.05	0.24	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	210*	< 0.05	0.95	< 0.05	0.06
Coronene	mg/kg	0.05	NONE	20	< 0.05	< 0.05	< 0.05	< 0.05
Total PAH								
Total WAC-17 PAHs	mg/kg	0.85	NONE	4950	< 0.85	14.8	1.01	1.06
Heavy Metals / Metalloids								
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	4.2	6.6	2.7
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	16	13	29	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	780	33	190	71	62
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	5	0.58	0.78	1.3	0.72
Boron (water soluble)	mg/kg	0.2	MCERTS	2.6	0.7	1	1.1	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	< 0.2	2.3	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	46	87	36	61	29
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	46	87	36	61	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	10	54	26	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	110	16	120	25	22
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	1.6	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	8.7	20	27	16
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0





Your Order No: POP01075

Lab Quanda Namba				2520774	2520772	2520772	2520774	2520775
Lab Sample Number				2530771	2530772	2530773	2530774	2530775
Sample Reference				WS5	WS5	WS4	WS4	WS2
Sample Number				ES1	ES3	ES1	ES2	ES3
Depth (m)				0.20	1.60	0.10	1.00	0.90
Date Sampled				08/12/2022	08/12/2022	09/12/2022	09/12/2022	09/12/2022
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	67	63	38	120	40
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	99	23	200	66	50
Monoaromatics & Oxygenates		F	MOEDTO	5.0	5.0	5.0	5.0	
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Petroleum Hydrocarbons TPH-CWG - Aliphatic >EC5 - EC6 _{HS 1D AL}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS 1D AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic > EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	18	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	68	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic > EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	410	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU_1D_AL}	mg/kg	10	NONE	490	< 10	< 10	< 10	< 10
ee	0. 0			150	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC3 - EC3 HS_{1D_AR} TPH-CWG - Aromatic >EC7 - EC8 HS_{1D_AR}	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$ TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{\text{EH}_{_{\text{CU}}_{_{1}\text{D}_{_{AR}}}}$	mg/kg	1	MCERTS	11	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC10 - EC12 $_{\text{EH_CU_1D_AR}}$ TPH-CWG - Aromatic >EC12 - EC16 $_{\text{EH_CU_1D_AR}}$	mg/kg	2	MCERTS	330	< 2.0	2.4	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_{CU_{1D}AR}}$	mg/kg	10	MCERTS	2600	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC10 - EC21 $_{\text{EH_CU_1D_AR}}$ TPH-CWG - Aromatic >EC21 - EC35 $_{\text{EH_CU_1D_AR}}$	mg/kg	10	MCERTS	3600	< 10	12	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH_CU_HS_ID_AR	mg/kg	10	NONE	6500	< 10	21	< 10	< 10
PCBs by GC-MS*				0300				. 10
PCB Congener 28	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	0.002	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	0.001	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	< 0.001	-	-
Total PCBs by GC-MS*								
Total PCBs	mg/kg	0.007	NONE	-	-	< 0.007	-	-

 ${\sf U}/{\sf S} = {\sf Unsuitable \ Sample} \quad {\sf I}/{\sf S} = \ {\sf Insufficient \ Sample} \quad {\sf ND} = {\sf Not \ detected}$

*Data reported unaccredited due to quality control parameter failure associated with this n applied prior to reporting the data have been accepted and the failure justified as having n impact on sample data reported.





Your Order No: POP01075

Lab Sample Number				2530776	2530777	2530778
Sample Reference				WS10	WS11	2330778 WS1
Sample Number				ES1	ES1	ES1
				-	-	
Depth (m)				0.40	0.20	1.00
Date Sampled				09/12/2022	09/12/2022	09/12/2022
Time Taken			-	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	14	17
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8
· · · · · · · · · · · · · · · · · · ·						
Asbestos in Soil Screen / Identification Name	Туре	N/A	ISO 17025	-	-	-
Asbestos in Soil	Туре	N/A	ISO 17025	-	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	PDO	N/A
General Inorganics						
pH - Automated	pH Units	N/A	MCERTS	8.6	10.7	8.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Total Sulphate as SO4	mg/kg	50	MCERTS	320	2100	240
Organic Matter (automated)	%	0.1	MCERTS	1.1	2	0.6
					-	010
Total Phenols						
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
	5. 5			< 1.0	< 1.0	< 1.0
Speciated PAHs Naphthalene	mg/kg	0.05	MCERTS	0.41	0.41	0.37*
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.31*
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.18*
Phenanthrene	mg/kg	0.05	MCERTS	0.14	0.4	0.26*
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.06	0.17*
Fluoranthene	mg/kg	0.05	MCERTS	0.28	0.61	0.43*
Pyrene	mg/kg	0.05	MCERTS	0.25	0.57	0.36*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.15	0.34	0.21*
Chrysene	mg/kg	0.05	MCERTS	0.14	0.43	0.2*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.17	0.48	0.24*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.06	0.2	0.14*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.1	0.36	0.22*
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.08	0.22	< 0.05*
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.05	< 0.05*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.11	0.26	< 0.05*
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05
Total PAH						
Total WAC-17 PAHs	mg/kg	0.85	NONE	1.89	4.39	3.09
Heavy Metals / Metalloids						
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	3.5	2.7	3.2
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	15	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	64	170	80
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.74	1.1	0.95
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.9	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	37	55	34
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	37	55	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	32	22
	ma/ka	1	MCERTS	49	53	21

ead (aqua regia extractable).

Nickel (aqua regia extractable)

Mercury (aqua regia extractable)

Selenium (aqua regia extractable)

mg/kg

mg/kg

mg/kg

mg/kg

1

0.3

1

1

MCERTS

MCERTS

MCERTS

MCERTS

49

< 0.3

16

< 1.0

53

< 0.3

36

< 1.0

21

< 0.3

24

< 1.0





Your Order No: POP01075

Lab Sample Number				2530776	2530777	2530778
Sample Reference		WS10	WS11	WS1		
Sample Number		ES1	ES1	ES1		
Depth (m)				0.40	0.20	1.00
Date Sampled				09/12/2022	09/12/2022	09/12/2022
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)						
Vanadium (aqua regia extractable)	48	44	51			
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	120	59

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	< 5.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 HS 1D AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	< 10	< 10

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-

Total PCBs by GC-MS*						
Total PCBs	mg/kg	0.007	NONE	-	-	-

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = \ Not \ detected$

*Data reported unaccredited due to quality control parameter failure associated with this n applied prior to reporting the data have been accepted and the failure justified as having n impact on sample data reported.





Analytical Report Number:22-12888Project / Site name:Kenley CampusYour Order No:POP01075

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2530764	TP3	0.20	118	Hard/Cement Type Material	Chrysotile	0.272	0.272

Both Qualitative and Quantitative Analyses are UKAS accredited.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.





ab Sample Number				2530779	2530780	2530781	2530782	2530783
Sample Reference				TP10	TP5	TP12	WS5	WS4
Sample Number				ES1	ES1	ES1	ES1	ES1
Depth (m)				0.40	0.20	0.30	0.20	0.10
Date Sampled				06/12/2022	06/12/2022	07/12/2022	08/12/2022	09/12/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Suppli
		Li						
		Limit of detection	Accreditation Status					
Analytical Parameter	Units	ofd	stat					
Leachate Analysis)	s	ete	us					
		tio	9					
		5						
General Inorganics								
H (automated)	pH Units	N/A	ISO 17025	8.2	7.0	8.0	7.8	7.9
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	1.6	< 1.0
Free Cyanide	µg/l	10	ISO 17025	-	-	-	< 10	-
Sulphate as SO_4	µg/l	100	ISO 17025	20400	2590	2450	48900	3780
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	12.7	18.8	9.33	14.2	12.1
							8	
Total Phenols								
Total Phenols (monohydric)	µg/l	1	ISO 17025	< 1.0	1.1	1.6	4.5	3.6
	•							
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	7.9	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	0.52	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.68	< 0.01	< 0.01	5.4	< 0.01
luorene	µg/l	0.01	ISO 17025	0.27	< 0.01	< 0.01	3	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	0.94	< 0.01	< 0.01	9.6	< 0.01
Anthracene	µg/l	0.01	ISO 17025	0.33	< 0.01	< 0.01	2	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	0.19	< 0.01	< 0.01	4.4	< 0.01
yrene	µg/l	0.01	ISO 17025	0.13	< 0.01	< 0.01	3.4	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	1.2	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	1.1	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	1.2	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	0.41	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	0.9	< 0.01
ndeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	0.39	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	0.46	< 0.01
Fotal PAH		0.0	NONE					
otal EPA-16 PAHs	µg/l	0.2	NONE	2.5	< 0.2	< 0.2	42	< 0.2
leavy Metals / Metalloids		17	100 17025					
Antimony (dissolved)	µg/l	1.7	ISO 17025	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Arsenic (dissolved)	µg/l	1 0.05	ISO 17025 ISO 17025	1.6	< 1.0	1.1	3.3	3.8
Barium (dissolved) Beryllium (dissolved)	μg/l μg/l	0.05	ISO 17025 ISO 17025	9.7	8.9 < 0.2	24	120	17
Boron (dissolved)	μg/i μg/i	10	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2 15	< 0.2 < 10
Cadmium (dissolved)	µg/i µg/i	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 10
Chromium (hexavalent)	μg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	μg/l	5	NONE	5.5	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (dissolved)	μg/l	0.4	ISO 17025	5.5	0.9	< 0.4	< 0.4	1.5
Copper (dissolved)	µg/l	0.7	ISO 17025	15	18	7.8	24	28
ead (dissolved)	μg/l	1	ISO 17025	2.4	4	< 1.0	2.1	1.2
Aercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
lickel (dissolved)	µg/l	0.3	ISO 17025	1.8	1.7	1.2	1.9	2.7
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	4.4
/anadium (dissolved)	µg/l	1.7	ISO 17025	3	2.1	4	6	6.5
Zinc (dissolved)	µg/l	0.4	ISO 17025	9.2	9.5	3.3	15	19
		-	-	-	-	-	-	
Calcium (dissolved)	mg/l	0.012	ISO 17025	20	4.7	17	29	21
	A						•	
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0





Your Order No: POP01075

Lab Sample Number		2530779	2530780	2530781	2530782	2530783		
Sample Reference	TP10	TP5	TP12	WS5	WS4			
Sample Number	ES1	ES1	ES1	ES1	ES1			
Depth (m)				0.40	0.20	0.30	0.20	0.10
Date Sampled				06/12/2022	06/12/2022	07/12/2022	08/12/2022	09/12/2022
Time Taken				None Supplied				
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					
TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL	µg/I	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) _{HS+EH_1D_AL_MS}	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 HS 1D AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10	< 10	< 10	35	< 10
TPH-CWG - Aromatic >C12 - C16 EH_1D_AR_MS	µg/l	10	NONE	50	< 10	< 10	200	< 10
TPH-CWG - Aromatic >C16 - C21 EH_1D_AR_MS	µg/l	10	NONE	80	< 10	< 10	360	< 10
TPH-CWG - Aromatic >C21 - C35 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10	< 10	300	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_MS	µg/l	10	NONE	130	< 10	< 10	900	< 10

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = Not \ detected$





Your Order No: POP01075

Your Order No: POPU1075				
Lab Sample Number		2530784		
Sample Reference				WS2
Sample Number	ES3			
Depth (m)	0.90			
Date Sampled	09/12/2022			
Time Taken	None Supplied			
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	8.0
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0
Free Cyanide	µg/l	10	ISO 17025	-
Sulphate as SO ₄	µg/l	100	ISO 17025	7280
Dissolved Organic Carbon (DOC)	mg/l	0.1	NONE	7.03

Total Phenols

Total Phenols (monohydric)		1	ISO 17025	2.9

Speciated PAHs

Naphthalene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Pyrene	μg/l	0.01	ISO 17025	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01
Benzo(ghi)perylene	µg/I	0.01	NONE	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2

Heavy Metals / Metalloids

Antimony (dissolved)	µg/l	1.7	ISO 17025	< 1.7
Arsenic (dissolved)	µg/l	1	ISO 17025	< 1.0
Barium (dissolved)	µg/l	0.05	ISO 17025	13
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	11
Cadmium (dissolved)	µg/I	0.08	ISO 17025	< 0.08
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.9
Copper (dissolved)	µg/l	0.7	ISO 17025	8
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.5
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	5.5
Zinc (dissolved)	µg/I	0.4	ISO 17025	8.5
Calcium (dissolved)	mg/l	0.012	ISO 17025	23

TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C6 - C8 HS_1D_AL	µg/l	1	ISO 17025	< 1.0







Your Order No: POP01075

Lab Sample Number	2530784			
Sample Reference	WS2			
Sample Number	ES3			
Depth (m)				0.90
Date Sampled	09/12/2022			
Time Taken				None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status	
TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aliphatic >C10 - C12 _{EH_1D_AL_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C12 - C16 EH_1D_AL_MS	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C16 - C21 EH_1D_AL_MS	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic >C21 - C35 EH_1D_AL_MS	µg/l	10	NONE	< 10
TPH-CWG - Aliphatic (C5 - C35) _{HS+EH_1D_AL_MS}	µg/l	10	NONE	< 10
		1	ISO 17025	. 1.0
TPH-CWG - Aromatic >C5 - C7 _{HS_1D_AR}	µg/l	1	ISO 17025 ISO 17025	< 1.0
TPH-CWG - Aromatic >C7 - C8 _{HS_1D_AR}	µg/l	1	ISO 17025	< 1.0
TPH-CWG - Aromatic >C8 - C10 _{HS_1D_AR}	µg/l	10	NONE	< 1.0
TPH-CWG - Aromatic >C10 - C12 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C12 - C16 _{EH_1D_AR_MS}	µg/l			< 10
TPH-CWG - Aromatic >C16 - C21 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic >C21 - C35 _{EH_1D_AR_MS}	µg/l	10	NONE	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_MS	µg/l	10	NONE	< 10

 $\label{eq:US} U/S = Unsuitable \ Sample \quad I/S = \ Insufficient \ Sample \quad ND = Not \ detected$





* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2530761	TP10	ES1	0.4	Brown clay and sand with chalk and vegetation.
2530762	TP7	ES1	0.65	Brown clay and sand with gravel.
2530763	TP5	ES1	0.2	Brown clay and loam with vegetation.
2530764	TP3	ES1	0.2	Brown loam and clay with gravel and vegetation.
2530765	TP11	ES1	0.1	Brown loam and sand with gravel and rubble.
2530766	TP4	ES1	0.2	Brown loam and clay with brick and chalk.
2530767	TP1	ES1	0.2	Brown clay and loam with gravel and stones.
2530768	TP12	ES1	0.3	Brown sandy clay with stones.
2530769	WS8	ES1	0.6	Brown clay and sand.
2530770	WS6	ES1	0.2	Brown loam and sand with gravel and vegetation.
2530771	WS5	ES1	0.2	Brown loam and clay with gravel and vegetation.
2530772	WS5	ES3	1.6	Light brown clay and sand with gravel.
2530773	WS4	ES1	0.1	Brown loam and clay with gravel and stones.
2530774	WS4	ES2	1	Brown clay and sand with gravel.
2530775	WS2	ES3	0.9	Brown clay and sand.
2530776	WS10	ES1	0.4	Brown clay and sand with gravel and vegetation.
2530777	WS11	ES1	0.2	Brown loam and sand with concrete and vegetation.
2530778	WS1	ES1	1	Brown clay and sand with vegetation.





Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	w	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Boron in leachate	Determination of boron in leachate. Sample acidified and followed by ICP-OES.	In-house method based on MEWAM	L039-PL	w	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in leachate	Determination of hexavalent chromium in leachate by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	w	ISO 17025
Free cyanide in leachate	Determination of free cyanide by distillation followed by colorimetry.	In-house method	L080-PL	w	ISO 17025
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	w	NONE
Monohydric phenols in leachate - LOW LEVEL 1 ug/l	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	w	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	w	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L102B-PL	w	ISO 17025
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270.	L064-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate (automated)	Determination of pH in leachate by electrometric measurement.	In house method.	L099B	w	ISO 17025
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	w	ISO 17025





Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS.	In-house method	L070-PL	w	ISO 17025
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	w	MCERTS
Dissolved Organic Carbon in leachate	Determination of dissolved organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	w	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Cr (III) in leachate	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	w	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Total cyanide in leachate - 1µg/l	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	w	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	w	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride). For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland. Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture

correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by

the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

	Acronym	Descriptions
	HS	Headspace Analysis
	MS	Mass spectrometry
	FID	Flame Ionisation Detector