

#### i2 Analytical

7 Woodshots Meadow Croxley Green Business Park Watford, WD18 8YS

#### Telephone: 01923 225404 Fax: 01923 237404 email:reception@i2analytical.com

Waste Acceptance Criteria Analytical									
Report No:		17-	55222						
					Climate				
					Client:	CONCEPT			
Location		Tritor	Square		-				
Location		IIItoi	I Square		Landfill	Waste Acceptanc	e Criteria		
Lab Reference (Sample Number)		78	37511		Lunum	Limits	e entena		
Sampling Date		21/0	7/2017			Stable Non-			
Sample ID			I-10 2			reactive			
Depth (m)		0.6	5-0.80		Inert Waste Landfill	HAZARDOUS waste in non- hazardous Landfill	Hazardous Waste Landfill		
Solid Waste Analysis									
ГОС (%)**	-				3%	5%	6%		
Loss on Ignition (%) **	-						10%		
ЗТЕХ (µg/kg) **	-				6000				
Sum of PCBs (mg/kg) **	-				1				
Mineral Oil (mg/kg)	-				500				
Total PAH (WAC-17) (mg/kg)	-				100				
oH (units)**	-					>6			
Acid Neutralisation Capacity (mol / kg)	-					To be evaluated	To be evaluate		
Eluate Analysis	10:1			10:01	Limit valu	es for compliance le	eaching test		
BS EN 12457 - 2 preparation utilising end over end leaching					using BS Ef	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
procedure)	mg/l			mg/kg					
Arsenic *	0.0024			0.0202	0.5	2	25		
Barium *	0.0338			0.285	20	100	300		
Cadmium *	< 0.0001			< 0.0008	0.04	1	5		
Chromium *	0.0009			0.0075	0.5	10	70		
Copper *	0.0088			0.074	2	50	100		
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2		
Molybdenum *	0.0021			0.0178	0.5	10	30		
Nickel *	< 0.0003			< 0.0030	0.4	10	40		
_ead *	0.0036			0.030	0.5	10	50		
Antimony *	< 0.0017			< 0.017	0.06	0.7	5		
Selenium *	< 0.0040			< 0.040	0.1	0.5	7		
Zinc *	< 0.0004			< 0.0040	4	50	200		
Chloride *	2.4			20	800	4000	25000		
Fluoride	0.077			0.65	10	150	500		
Sulphate *	31			260	1000	20000	50000		
TDS	100			870	4000	60000	100000		
Phenol Index (Monhydric Phenols) *	< 0.010			< 0.10	1	-	-		
000	< 0.100			< 1.00	500	800	1000		
Leach Test Information									
Stone Content (%)	-								
Sample Mass (kg)	-				1				
Dry Matter (%)	-		1			1	1		
Moisture (%)	-		1			1	l		
-			1			1	1		
			1	1	İ	1	i		
			1		İ	1	i		

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3. This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.





#### Project / Site name: Triton Square

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Metals in leachate by ICP-OES	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
Monohydric phenols 10:1 WAC	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	L080-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by electrometric measurement.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom. For method numbers ending in 'PL' 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.



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## Analytical Report Number : 17-55220

Project / Site name:	Triton Square	Samples received on:	24/07/2017
Your job number:	17-2961	Samples instructed on:	24/07/2017
Your order number:	CL1128	Analysis completed by:	31/07/2017
Report Issue Number:	1	Report issued on:	31/07/2017
Samples Analysed:	3 soil samples		

Signed:

Dr Irma Doyle Senior Account Manager 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

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Environmental Science

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#### Analytical Report Number: 17-55220 Project / Site name: Triton Square

Your Order No: CL1128

Lab Cample Number				707507	707500	707500		<b></b>
Lab Sample Number Sample Reference				787507	787508	787509	ł	4
Sample Number				CH-10 2	CH-10 3	CH-10 4	1	ł
Depth (m)				0.65-0.80	0.80-1.12	1.12-1.40		
Date Sampled				21/07/2017	21/07/2017	21/07/2017		
Time Taken				None Supplied	None Supplied	None Supplied		1
			Þ				1	
	_	e 🗆	Accreditation Status					
Analytical Parameter	Units	Limit of detection	edit					
(Soil Analysis)	ls.	ligi of	us					
		-	on					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	13	9.2	18		
Total mass of sample received	kg	0.001	NONE	2.0	2.0	2.0		
					·	r	r	<b></b>
Asbestos in Soil	Туре	N/A	ISO 17025	Not-detected	-	-		
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	10.9	9.0	8.0		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	-		1
Total Sulphate as SO <sub>4</sub>	%	0.005	MCERTS	0.287	0.039	0.043		1 1
Water Soluble SO4 as SO4 (2:1) Gallery 16h extraction	g/l	0.00125	MCERTS	0.265	0.108	0.177	l	<b></b>
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	15	11	19	l	┨────┤
Total Sulphur Total Organic Carbon (TOC)	%	0.005	MCERTS	0.117	0.014	0.016	1	┨────┤
Total Organic Carbon (TOC) Water Soluble Nitrate (2:1) as NO <sub>3</sub>	% mg/kg	0.1	MCERTS NONE	0.3	< 0.1 < 2.0	- < 2.0	1	╂────┤
water soluble mitrate (2.1) as MO3	iiig/Kg	<u> </u>	NUNE	~ 2.0	~ 2.0	~ 2.0	1	╂────┤
Water Soluble Nitrate (2:1) as $NO_3$ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0		
	iiig/i	5	NONE	< 5.0	< 5.0	< 5.0		
Total Phenois								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-		
Speciated PAHs		-						
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-		
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-		
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-		
Fluorene Phenanthrene	mg/kg mg/kg	0.05	MCERTS MCERTS	< 0.05 0.19	< 0.05 < 0.05	-	1	╉────┤
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05			
Fluoranthene	mg/kg	0.05	MCERTS	0.36	< 0.05	-		
Pyrene	mg/kg	0.05	MCERTS	0.30	< 0.05	-		
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.18	< 0.05	-		
Chrysene	mg/kg	0.05	MCERTS	0.13	< 0.05	-		
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-		
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-		
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	l	┨────┤
Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05 < 0.05	-	1	┨────┤
Benzo(ghi)perylene	mg/kg mg/kg	0.05	MCERTS MCERTS	< 0.05	< 0.05	-	1	<b>}</b> ───┤
	mg/Kg	0.05	HIGER 13	< 0.03	< 0.0J	-	1	
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.16	< 0.80	-		
Heavy Metals / Metalloids						r		
Antimony (aqua regia extractable)	mg/kg	1	ISO 17025	< 1.0	< 1.0	-	Į	<b></b>
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.1	5.7	-	l	
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.33	0.31	-	l	
Boron (water soluble)	mg/kg	0.2	MCERTS	2.0 < 0.2	0.5	-	ł	4
Cadmium (aqua regia extractable) Chromium (hexavalent)	mg/kg mg/kg	<u> </u>	MCERTS MCERTS	< 4.0	< 0.2	-	1	<b>}</b> ───┤
Chromium (agua regia extractable)	mg/kg	1	MCERTS	13	14		1	1
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	11	-	1	1
Lead (aqua regia extractable)	mg/kg	1	MCERTS	16	8.6	-		1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-		<u> </u>
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	9.9	-		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-		
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	22	20	-	Į	<b>_</b>
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	27	20	-		
Managara (suchas as 111 N		-		5.0	5.0	24	1	<b></b>
Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0	24	L	

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#### Analytical Report Number: 17-55220 Project / Site name: Triton Square Your Order No: CL1128

Lab Sample Number	787507	787508	787509				
Sample Reference				CH-10	CH-10	CH-10	
Sample Number				2	3	4	
Depth (m)				0.65-0.80	0.80-1.12	1.12-1.40	
Date Sampled	21/07/2017	21/07/2017	21/07/2017				
Time Taken				None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5	12	





#### Analytical Report Number: 17-55220 Project / Site name: Triton Square

Your Order No: CL1128

Lab Sample Number		787507	787508	787509			
Sample Reference	CH-10	CH-10	CH-10				
Sample Number				2	3	4	
Depth (m)	0.65-0.80	0.80-1.12	1.12-1.40				
Date Sampled				21/07/2017	21/07/2017	21/07/2017	
Time Taken				None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				

#### Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	

#### Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	
TPH-CWG - Aliphatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	
TPH-CWG - Aliphatic (EC5 - EC44)	mg/kg	10	NONE	< 10	< 10	-	
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	-	
TPH-CWG - Aromatic > EC35 - EC44	mg/kg	8.4	NONE	< 8.4	< 8.4	-	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	10	< 10	-	
TPH-CWG - Aromatic (EC5 - EC44)	mg/kg	10	NONE	10	< 10	-	
PCBs							
PCB Congener 077	mg/kg	0.001	NONE	< 0.001	-	-	

	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 081	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 105	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 114	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 118	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 123	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 126	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 156	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 157	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 167	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 169	mg/kg	0.001	NONE	< 0.001	-	-	
PCB Congener 189	mg/kg	0.001	NONE	< 0.001	-	-	
Total PCBs	mg/kg	0.012	NONE	< 0.012	-	-	





#### Project / Site name: Triton Square

\* 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 *
787507	CH-10	2	0.65-0.80	Light brown sand with gravel.
787508	CH-10	3	0.80-1.12	Light brown gravelly sand.
787509	CH-10	4	1.12-1.40	Brown clay and sand.





#### Project / Site name: Triton Square

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status	
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	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	
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC- MS.	In-house method based on USEPA8260	L073B-PL	w	MCERTS	
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests. 2:1 extraction.	L082-PL	D	MCERTS	
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE	
Hexavalent chromium in soil	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	MCERTS	
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE	
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	
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE	
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	
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	D	NONE	
PCBs WHO 12 in soil	Determination of PCBs (WHO-12 Congeners) by GC MS.	In-house method based on USEPA 8082	L027-PL	D	NONE	
oH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS	
Speciated EPA-16 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	
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	
Sulphate, water soluble, in soil by Gallery 16hr	Determination of water soluble Sulphate by discrete analyser (precipitation method).	In house method based on BS1377-3: 1990.	L082B-PL	D	MCERTS	
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	

Iss No 17-55220-1 Triton Square 17-2961

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#### Project / Site name: Triton Square

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

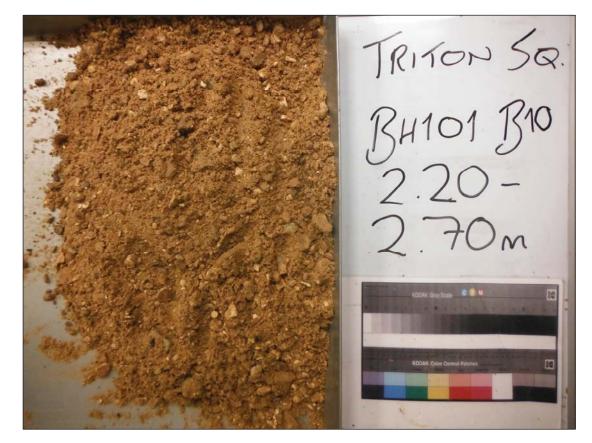
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L038	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

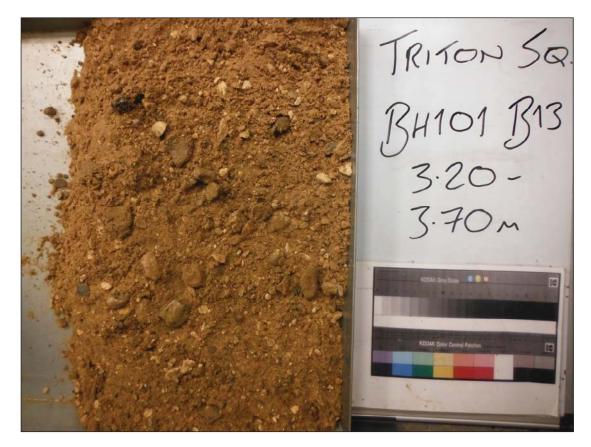
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom. For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

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.

12 PHOTOGRAPHS

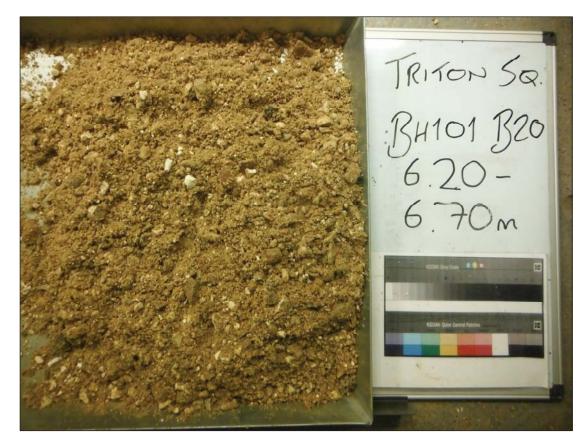
Unit 8, Warple Mew Warple Way London W3 0RF	/S	CONCEPT SITE INVEST	IGATIO	F 200	el: 020 8811 288 ax: 020 8811 288 mail: si@concept	
Site Name	1 Triton Sq		Job No.	17/2961	HOLE	BH101
Carried out for	British Land		Date		Photograph	01 & 02





Unit 8, Warple Mew Warple Way London W3 0RF	/S	CONCEPT SITE INVEST	IGATIO	i 200	el: 020 8811 288 ax: 020 8811 288 mail: si@concept	
Site Name	1 Triton Sq		Job No.	17/2961	HOLE	BH101
Carried out for	British Land		Date		Photograph	03 & 04





Unit 8, Warple Mew Warple Way London W3 0RF	/S	CONCEPT SITE INVEST	IGATIO	ins i	el: 020 8811 288 ax: 020 8811 288 mail: si@concept	
Site Name	1 Triton Sq		Job No.	17/2961	HOLE	CH10
Carried out for	British Land		Date		Photograph	01 & 02





Unit 8, Warple Mew Warple Way London W3 0RF	/S	CONCEPT SITE INVEST	IGATIC	<b>ns</b> i	el: 020 8811 288 ax: 020 8811 288 mail: si@concept	-
Site Name	1 Triton Sq		Job No.	17/2961	HOLE	CH10
Carried out for	British Land		Date		Photograph	03 & 04





Unit 8, Warple Mew Warple Way London W3 0RF	/S	CONCEPT SITE INVEST	IGATIC	F 20	el: 020 8811 288 ax: 020 8811 288 mail: si@concept	
Site Name	1 Triton Sq		Job No.	17/2961	HOLE	CH10
Carried out for	British Land		Date		Photograph	05 & 06





# Appendix E

Laing Technology Group Limited, 1994 Ground Investigation

## THE BRITISH LAND CORPORATION

REDEVELOPMENT

AT

REGENTS PLACE/TRITON SQUARE, LONDON

REPORT ON SITE INVESTIGATION

Project No. 94484 April 1995

VOLUME 1

## **CONTENTS - VOLUME 1**

1.0	INTE	RODUCTIO	N	(A)
2.0	SITE	DESCRIPT	TION AND GEOLOGY	
3.0	SITE	WORK		
4.0	LAB	ORATORY		
	4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9	Chemical Quick Uno One Dime	perties lyses ze Distributions	
FIGUE	RES	Figure 1	Site Plan with Existing Buildings	(B)
		Figure 2	Site Plan Showing Basement	
TABLI	ES	Table 1	Water depths in Piezometers and Standpipes	(C)
APPEN	NDIX	Notes		(D)
		-	y Hole Records with Drilling Progress and etail Sheets	(E)
		Summary Analytical	of Laboratory Test Results (Physical and)	(F)
		Explorator	y Hole Location Plan	(G)

The British Land Corporation Proposed Redevelopment at Regents Place/Triton Square, London

## **REPORT ON SITE INVESTIGATION**

#### Project No. 94484

**April 1995** 

## 1.0 INTRODUCTION

At the request of Ove Arup & Partners, Consulting Engineers to The British Land Corporation, a site investigation was carried out at Regents Place and Triton Square, London, at the site of the proposed redevelopment.

Presented in this report are results of borings, trial pits and insitu and laboratory tests from this investigation; a factual report was requested.

## 2.0 SITE DESCRIPTION AND GEOLOGY

The site is located at Euston Road about 150m west of the intersection with Tottenham Court Road, London. Figures 1 and 2 show the site plan with existing buildings and basement respectively.

The Regents Place site (National Grid Reference TQ 290 822) presently consists of multi-storey office blocks, access roads and LEB building with an underground car park underlying the whole site.

The Triton Square site (National Grid Reference TQ 291 824) is generally level with perimeter access roads and access ramps to the Regents Place underground car park. The site is currently used for surface parking.

Geological records indicate the site to be underlain by River Terrace Deposits over London Clay, Woolwich and Reading Beds and Thanet Sand of Eocene Age.

## 3.0 SITE WORK

The site work was carried out during the period 29 November 1994 to 17th February 1995.

Twelve boreholes (seven at Regents Place, five at Triton Square) were constructed by cable percussion methods and nine trial pits were excavated (6 by hand and 3 by machine) at the positions shown on the appended site plan and attached Figures 1 and 2. Basement rigs were used in this underground car park, and conventional rigs at the surface parking at Triton Square. The depths of the boreholes, the descriptions and depths of the strata encountered and groundwater levels as recorded at the time of boring and collapses are given on the exploratory hole records and/or separate sheets. Representative disturbed and undisturbed samples were taken at the depths shown on the records. Standard penetration tests (with cone attachment in coarse soils) were made in granular and cohesive deposits to assess the relative density or stiffness of the materials, and the values of the penetration resistance ('N' values) are given in the borehole records.

Piezometers and standpipes were installed at the following depths (m):

BH 1	Piezometer at 16.30m	Standpipe at 1.43m
BH 2	Piezometer at 37.00m	Piezometer at 25.50m
BH 3	Piezometer at 46.80m	Piezometer at 10.20m
BH 4	Piezometer at 20.95m	
BH 5	Piezometer at 10.15m	Piezometer at 51.50m
ВН 6	Piezometer at 16.00m	Standpipe at 7.00m
BH 7	Piezometer at 33.00m	
BH 8	Piezometer at 28.80m	Standpipe at 1.70m
BH 9	Piezometer at 45.60m	
BH 10	Piezometer at 11.50m	
BH 11	Piezometer at 24.45m	Standpipe at 2.80m
BH 12	Piezometer at 33.45m	

**Revision** 0

3

Water level readings taken during the course of the investigation and afterwards until 20th March 1995 are given in Table 1.

## 4.0 LABORATORY WORKS

## 4.1 General

A general programme of laboratory tests was carried out as instructed by the Consulting Engineers as detailed below:-

All soils tests were carried out in accordance with BS1377: 1990.

## 4.2 <u>Moisture Content</u>

The natural moisture contents of ten samples were determined. The results are given on the summary sheets.

Bulk and dry density along with moisture content determinations were carried out on nine samples.

### 4.3 Index Properties

Sixty three liquid and plastic limit tests were made on representative samples of cohesive soils and the results are given on the summary sheets together with the results of natural moisture content determinations. Where the samples contain a granular content the percentage of material passing the 425 micron sieve is indicated.

## 4.4 <u>Sieve Analyses</u>

The grading of seven samples of granular material were determined by sieve analyses. The resulting curves are presented on the appended graphs.

## 4.5 <u>Particle Size Distributions</u>

The particle size distribution of seven samples of soil were determined by sieve and pipette analyses. The resulting particle size distribution curves are presented on the appended graphs.

### 4.6 Chemical and Contamination Analyses

pH values were determined on thirty samples of soil. Total sulphate contents were determined on twenty two samples and water soluble sulphate contents were carried out on ten samples of soil. Ten water samples were tested for pH values and of these, nine sulphate determinations were carried out. Loss on ignition determinations were carried out on nine samples. Ten samples of soil and five samples of groundwater were tested for a range of possible chemical contaminants. The results of these tests are given on the appended summary sheets.

One sample of gas from the piezometer at 51.5m in BH5 was analysed by laboratory gas chromatography methods for the presence of methane, carbon monoxide, carbon dioxide, oxygen, nitrogen and hydrogen.

One sample was tested for asbestos. Certificate is enclosed.

#### **Chemical Testing: Methods**

#### **Organic Matter Testing**

All tests were carried out in accordance with Clause 3 of BS1377: Part 3: 1990.

Method of Test: Walkley & Black method using dichromate oxidation.

#### **Total Sulphate Testing**

All tests were carried out in accordance with Clause 5.5 of BS1377: Part 3: 1990.

Method of Test: Gravimetric method for acid extracts using barium chloride solution.

#### Sulphate Content in 2:1 Water : Soil Extract

All tests were carried out in accordance with Clause 5.5 of BS1377: Part 3: 1990.

Method of Test: Ion exchange.

### pH Testing

All tests were carried out in accordance with Clause 9.5 of BS1377: Part 3: 1990.

Method of Test: Electromagnetic method.

Soil : Water ratio employed in pH determination 1:25 (30g:75ml)

### Sulphate and pH of Groundwater

- The results of the Total Sulphate tests were carried out in accordance with BS1377: Part 3: Clause 5.6.6.2.
- The results of the pH tests were carried out in accordance with BS1377: Part 3: Clause 9.6.
- Water Sulphate: method : Gravimetric method for acid extracts using a barium chloride solution.

#### **Contamination Testing : Methods**

Soils

Arsenic		-	Hydride generation (ICP)
Cadmium Lead Copper Chromium	) } ]	- - -	Inductively coupled plasma spectrometry (ICP)
Mercury		-	Flameless atomic absorption spectrometry (cold vapour)
TEX		-	Soxhlek extraction of soil with toluene
СТ		-	Thin layer chromatography screening/fluorimetry
			quantifying
МО		-	Fourier transform - Infra red spectroscopy.
Phenols Cyanide	}		Distillation/UV spectrometry

7

Loss on ignition - BS1377: Part 3: 1990 Clause 4.

#### Water

Arsenic	-	Hydride generation atomic absorption spectrometry
Cadmium Chromium Copper Lead	- - -	Inductively coupled plasma spectrometry
Mercury	-	Flameless atomic absorption spectrometry (cold vapour)
MO	-	Fourier transform - Infra red spectroscopy.
CT	-	Thin layer chromatography screening/fluorimetry
		quantifying
Cyanide	-	Distillation/UV spectrometry
Chloride	-	Ion chromatography 'Dionex Dxico'
Sulphide	-	'DPD' spectrophotometric method

## **Gas Chromatography**

Hydrogen -	Component gases separated chromatographically and the
	concentration of hydrogen determined by comparison of
	peak area with a standard gas mixture.
Carbon Dioxide Methane Oxygen Nitrogen Chromium	Samples are introduced to the G.C. via a fixed volume of gas sampling loop. Two columns are used which are capable of separating the components, which are quantified using calibration gas mixture.

## 4.7 **Quick Undrained Triaxial Tests**

Two hundred and four 105mm diameter undrained triaxial compression tests were carried out on undisturbed samples and the results are given on the summary sheets together with the results of moisture content and density determinations.

## 4.8 <u>One Dimensional Consolidation Tests</u>

One dimensional consolidation tests were carried out on six undisturbed samples. The voids ratio / effective pressure relationships have been plotted and presented on the appended graphs, where the values of co-efficient of consolidation ( $c_v$ ) and co-efficient of volume compressibility ( $m_v$ ) for each loading sequence are also given.

## 4.9 Effective Stress Triaxial Tests

Consolidated undrained triaxial compression tests with pore water pressure measurement were carried out on four 105mm diameter specimens. The resulting effective shear strength parameters are given on the summary sheets, with detailed test data included in the appendix.

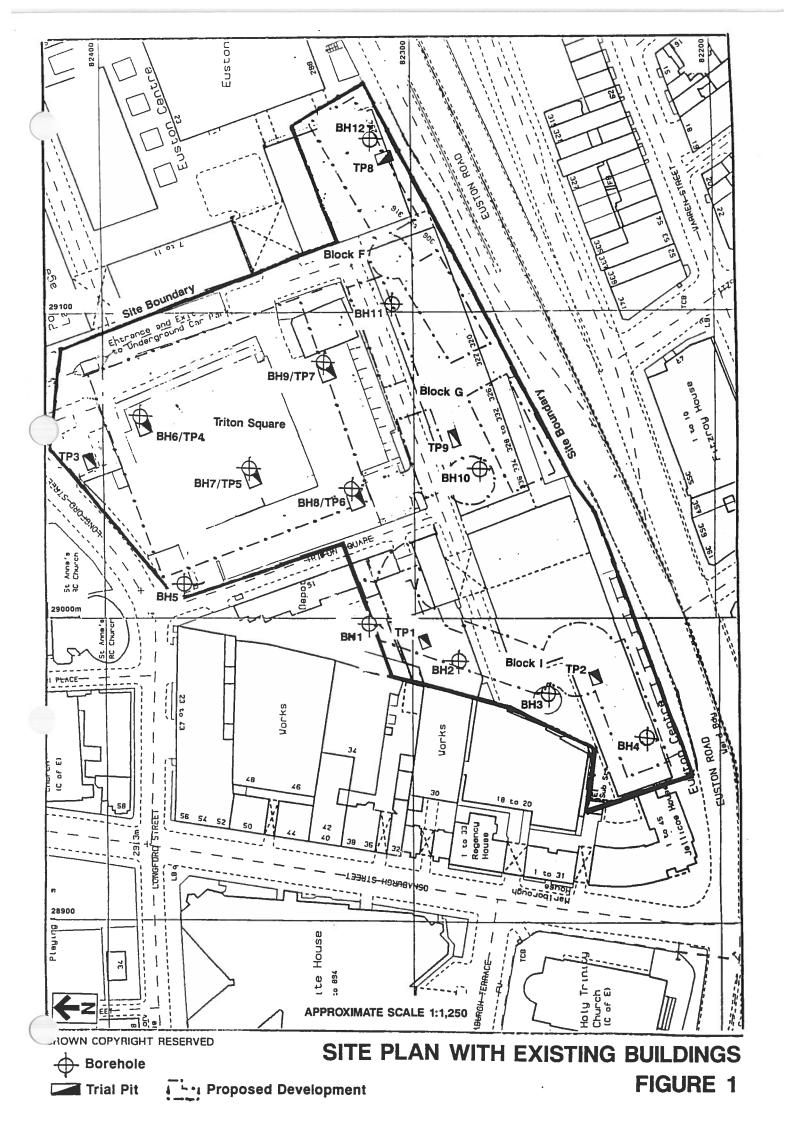
S R Revill Geo-Environmental Engineer BEng

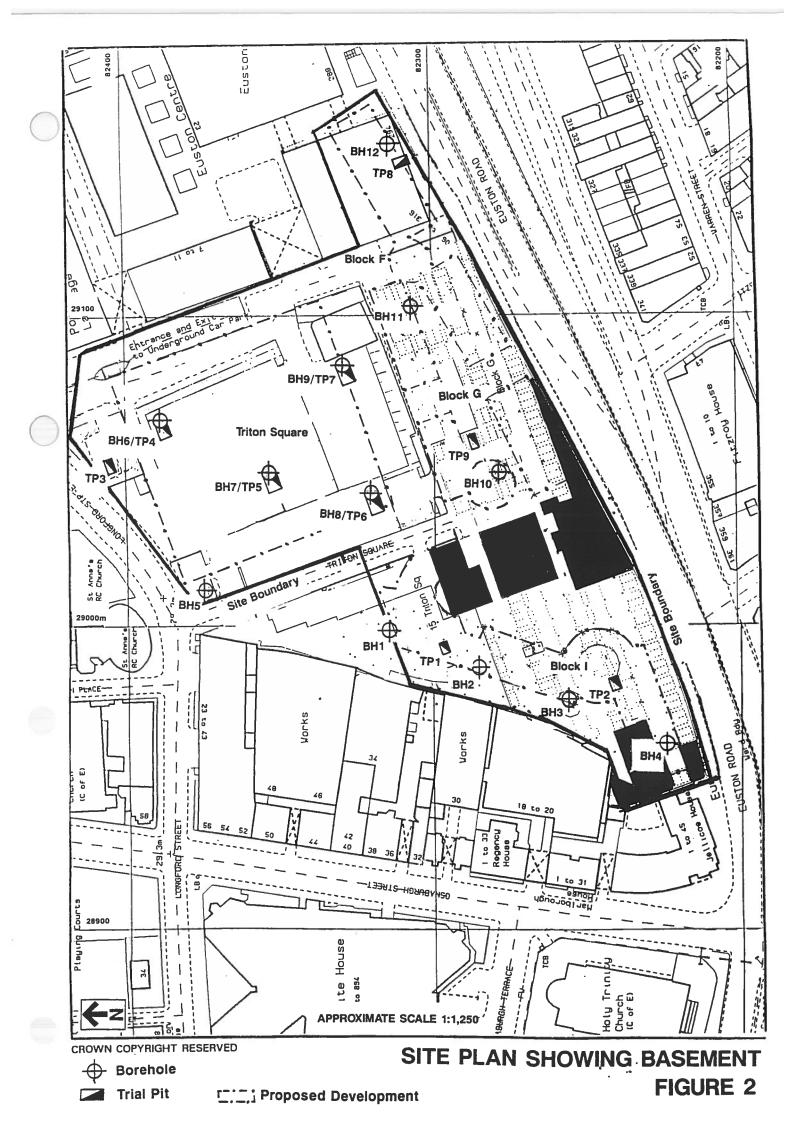
H W Callington Geotechnical Manager BSc., MSc., DIC

Our Ref: SRR/HWC/AM/94484

LTG Service - Environmental Laing Technology Group Limited Page Street Mill Hill London NW7 2ER

Revision 0





Location	Location and Depth										Q	Date			i						
Borehole	Depth (m)				1994				2						1995						
		10/12	12/12	13/12	15/12	17/12	19/12	21/12	13/1	16/14	1//1	19/1	23/1	25/1	27/1	31/1	77	8/2	2/6	17/2	20/3
	ST @ 16.37	1.27	1.4	1.37	1.02	1.02	1.01	0.49	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	66:0	,	66:0	1.38
BH1	P @ 1.43	Dry	15.85	11.83	7.38	5.57	4.85	4.43	2.77	2.77	2.76	2.69	2.58	2.53	2.52	2.52	2.52	2.47		2.36	2.2
	P @ 25.5						Dry	19.41	6.18	6.02	5.96	5.86	5.74	5.66	5.63	5.51	5.52	5.43		5.35	5.67
BH2	P @ 37						Dry to 30	Dry to 30	30.03	27.26	26.86	28.11	27.34	26.55	25.90	24.87	24.28	21.7	ı	20.11	11.47
	P @ 10.2								6.36	5.9	5.76	5.55	5.21		5.02	4.99	•		4.76	4.52	Dry
BH3	P @ 46.8								Dry to 30	Damp Base	Damp Base	Damp Base	Damp Base	ı	Damp Base	Dry	1	1	Dry	Damp Base	Dry
BH4	P @ 20.95								2.09	2.1		2.01	1.95		1.80	1.78		1.78	,	1.71	2.53
	P @ 10.15															5.65		5.41		ı	(2)
BHS	P @ 51.5									6								Dry to 50			(2)
	ST @ 7															(1)				(1)	(2)
BH6	P @ 16															Dry	•	Dry	,	Dry	(3)
BH7	P @ 33																	Dry			3
	P @ 1.7		ST	Standpipe	vipe															15.59	7.98
BH8	ST @ 28.8		4	Piezometer	teter										2					0.48	(3)
BH9	P @ 45.6		Ð	Blocke	Blocked at approximately 1.7m	xtimately	1.7m									Dry			,		Dry
BH10	P @ 11.5		3	Ilmahle	l Inshle to take reading	Padine												_			4.09
	P @ 2.8					<b>0</b>			1											(5)	18.25
BHII	ST @ 24.45		·	SOTE di	oum dip meter on site	n site														(2)	1.85
BH12	P @ 3345																				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

-

G:\49198\TABLE.1

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## <u>APPENDIX</u>

#### NOTES:

## 1. <u>General</u>

The opinions and comments given in this report are subject to the limitations imposed by employing normal methods of site investigation. Factual evidence has been obtained largely from boreholes which, by their nature, only provide information about a relatively small volume of subsoil. There may, however, be special conditions pertaining to the site which have not been disclosed by the boreholes, and which have not been taken into account in the report.

The comments on groundwater conditions given on the borehole records are based on observations made at the time the site work was carried out and it should be noted that groundwater levels may vary due to seasonal or other effects.

### 2. Field Tests

The standard penetration test (SPT) is used to assess the density of non-cohesive soils. It consists of driving a 51mm diameter split spoon sampler into the soil using a 63.5 kg hammer falling freely through 760mm. The sampler is first driven an initial 0.15m to allow for the presence of disturbed material; the number of blows to drive the sampler a further 0.30m is then recorded as the 'N' value.

In gravel a solid cone is fitted to the sampler, 51mm diameter and 60 degree apex, and the test is made using a similar procedure.

## SYMBOLS AND ABBREVIATIONS KEY SHEET

SHEET 1: General Abbreviations

## EXPLORATORY POINT AND INSITU TESTS

EXPLO	RATORY POINT TYPES		SAMPLE TYPES	STATIC CONE PENETROMETER TESTS				
CP or BH	Cable Percussion Borehole	В	Bulk disturbed	EC	Electric Cone			
DCP	Dynamic Cone Penetrometer	BLK	Block	MC	Mechanical Cone			
DP	Dynamic Probe Sampling	C	Core	PC	Piezo Cone			
IP RC	Inspection Pit Rotary Cored	CBR D	CBR mould Small Disturbed	DO	WN HOLE INSITU TESTS			
RO	Rotary Open Holed	G	Gas	CPT	Conc Penetration			
SCP	Static Cone Penetrometer	LB	Large Bulk disturbed	SPT	Split Spoon Penetration			
TP	Trial Pit	P	Piston	V	Vane			
W CP+RC	Wash Boring Combined hole type	TW U	Thin Wall Undisturbed (open drive)		OTHERS			
ICBR	Insitu CBR test	W	Water	K	Permeability test			
IDEN	Insitu Density test	OT A MID A DI		PR	Pressuremeter test			
IRDX	Insitu Redox test	STANDAR	D PENETRATION TEST TYPES	*	Sample not recovered, or			
IRES	Insitu Resistivity test	S	Split Spoon		Seating drive not completed			
IVAN	Insitu penetration Vane test	C	Cone	**	Short sample			

#### LABORATORY TESTING AND RESULTS

LABORATO	ORY TEST RESULTS	LABORA	TORY TEST TYPES		ROCK CORING
PSD	Particle Size Distribution	Particle Size D	istribution:	TCR	Total Core Recovery
Consol	Consolidation test	DS	Dry Sieve	SCR	Solid Core Recovery
MC	Moisture Content	HY	Hydrometer	RQD	Rock Quality Designation
Atterberg:		PP	Pipette		
LL	Liquid Limit	WS	Wet Sieve		
PL	Plastic Limit	PP+WS	Combination method		
PI	Plastic Index	Compaction:			
<425	Passing 425um	Н	Heavy (4.5kg)	E.	
PSD:		S	Standard (2.5kg)		
Clay	% Clay sized	v	Vibratory		
Silt	% Silt sized	Р	Proctor Mould		
Sand	% Sand sized	CBR	CBR Mould		
Grvl	% Gravel sized	Triaxial:			
Densities:		CD	Consolidated Drained		
Bulk	Bulk/Wet density	CDM	CD (multistage)		
Dry	Dry density	CU	Consolidated Undrained		
Particle	Particle density (S.G.)		with PWP measurement		
Compaction:		CUM	CU (multistage)		
Max density	Maximum dry density	UU	Unconsolidated Undrained		
Opt. MC	Optimum MC	UUM	UU (multi-stage)		
Strength tests:		OTHR			
Dia	Diarheter, average	Shear Strength:	Other		
Cell Press	Confining Pressure	Cu	Undrained		
Dev Stress	Maximum Deviator Stress	C'	Effective		
С	Shear Strength	C'p	Shear box peak		
Phi	Angle of Resistance	C'r	Shear box residual	}	
Consol:	-	Р	Hand Penetrometer		
Mv	Coeff. of consolidation	v	Vane		
Sulphate:					
Soil (%)	Total Sulphate		OTHERS		
Soil (g/l)	2:1 Water soluable extract	PWP	Pore Water Pressure		
Water (g/l)	Groundwater	CBR	Californian Bearing Ratio		

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SYMBOLS AND ABBREVIATIONS: Sheet 1

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## SYMBOLS AND ABBREVIATIONS KEY SHEET

SHEET 2: Material and general symbols

		SHEET 2: Material and general symbol	.s					
$\bigcirc$	MATERIAL SYMBOLS	COMBINED MATERIALS	PIEZOMETER/STANDPIPE					
		(examples)	INSTALLATION					
	FILL and MADE GROUND	$ \begin{array}{c c}     \hline                                $	Piezometer tip					
	TOPSOIL	Sandy CLAY	Single pipe installation					
	CLAY	××× ××× ××× ×××	o o o o o o					
	××× ××× SILT ××	Sandy silty CLAY	Single pipe in dual o o pipe installation					
C	SAND	Clayey silty PEAT						
	GRAVEL	SAND + GRAVEL	Slotted pipe (Gas)					
	PEAT	GROUNDWATER STRIKES	Perforated pipe					
	BOULDER CLAY	$\frac{1}{\overline{z}}$ First strike	PIEZOMETER/STANDPIPE FILL MATERIAL					
	CLAYSTONE (MUDSTONE)	$\frac{1}{\sum_{i=1}^{n}}$ First rise	Sand					
C	SILTSTONE	Second strike	Gravel					
	SANDSTONE	$\frac{2}{\overline{-}}$ Second rise	Grout					
	LIMESTONE CHALK	NOTE This is not an exhaustive list of all possible combinations of symbols used on log forms. Other combinations are used as required.	Seal					
	CHALK	Where more than two ground water strikes are encountered then the same	Cement					
	COAL	base symbols are used with additional numeric superscripts. NB: Some symbols have been enlarged on this sheet.	Backfill					
			LTG					
	SAech 111B yuux: Thide:		Produced by J.M. Devideon on gINT, 1992					
L		SYMBOLS AND ABBREVIATIONS	S: Sheet 2					

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	Project	Name:				TRITON SQUARE/REGENTS PLACE						Record of Borehole No:							
$\bigcirc$	Project No:	9	4 4	8	4	Client: THE BRITISH LAND CORPORATION								F	BH 05				
	Co-ordinates (National):					Gro	und level (n	AOD):	Method	:				1					
		)12.0	E 82	375	.0N	28.31				CABLE PERCUSSION			ļ						
	Date: 05/01/95 to 18/01/95							Hole diameter: Casing diameter: Sheet:						.					
						Strata			230	250 -150mm 250 -150mm 1 of 7			1017	Machine Number					
Samples & TestsDepthNo.TypeSPT CPT				1	Depth	Reduced Level	-		Des	cription of S	trata	Geology	pua	L	, III				
		)			'N' value	0	(ma)	(m)	ļ				· • •	Geo	Legend	Water	Piezo Backfill		
					8		10 451	28,21			UND(t	armac) oncrete)		1	$\overline{\otimes}$		9.0 0.0 0.0		
							0.55	27.76	MAD driller	E GRO	UND(c ription)	ompact brick r	ubble and clay fill -	-	$\bigotimes$		ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶ਫ਼੶		
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							(1.00)		descri	E GRO iption)	UND(f	agstone and br	ick fill - driller's		$\bigotimes$		0.0.0		
			0.000.00				2.80	25.51							$\boxtimes$		000		
						3-			MAD	E GRO	UND(c	oncrete).			$\boxtimes$		0 0 0		
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							3.70	24.61	MAD		I INTO (1)	-	·	-			0.0.0		
	4.2	20	1	D		4	(0.60) 4.30	24.01	suban coarse	gular to gravel	o rounded with b	ght brown med ed predominant rick fragments	ium to coarse sandy ly medium and and clay).		$\boxtimes$		0.0.0		
	4.50-	4.95	2	BC	17		4.50	24.01	Mediu	im dens	se light	brown medium	to coarse sandy um and occasionally	1	$\square$		5.0.0		
	4.9		5	w					coarse	e flint C	GRAVE	L.					000		
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i	Date	Boring Progress &				Wa				Chiselling Remarks: From To Mins Full boring progress, water obs			ervati	ions	and				
		1 mme		-har	Casing	•••	ter Rose	Sealed	From	То	Mins	chiselling de	tails are given on a 1 U100 details are g hole in Triton Squa	separ	rate :	shee	t. ate		
$\bigcap$												For a symbol	bbreviations and ols see key sheet			LT	G		
											1		•						
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8		Project 1	Name:					TRI	fon s	QUA	RE/R	EGEN	ITS PLACE	3		Reg Bore	cord of hole No	o:
29012.0E         82375.0N         28.31         CABLE PERCUSSION           Date:         Depth cline:         Not state diameter:         Cashing diameter:         Setting diameter:         Setting diameter:         2.0f7         Methine Number           Samples & Tests         Depth cline:         Depth diameter:         Setting diameter:         2.0f7         Methine Number           Samples & Tests         Depth diameter:         Depth diameter:         Depth diameter:         2.0f7         Methine Number           Samples & Tests         Depth diameter:         Depth dish         Depth dish         Dept	)		9 4	4 4	8	4	Client:		TH	E BR	ITISH	I LAN	ND CORPO	RATION	I	3F	H O	5
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$			-		-		Ground			Method		~ .						
05/01/95         52.20         250 - 150mm         2 of 7         Mediae Number           Samples & Tests         Strata         Dep #         Strata         Dep #         Strata         Description of Strata         Strata <thstrata< th=""> <thstrata< th=""> <thstra< td=""><td></td><td></td><td>12.0</td><td>E 82</td><td>375.</td><td>.0N</td><td>Depth</td><td></td><td>1</td><td>Hole dia</td><td>meter:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thstra<></thstrata<></thstrata<>			12.0	E 82	375.	.0N	Depth		1	Hole dia	meter:							
Dept         No.         Type         Eff.         Depth         Peduadid         Description of Strata         B <td></td> <td>05/0</td> <td>1/95</td> <td>to 1</td> <td>8/01</td> <td>/95</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>1</td> <td>•</td> <td></td> <td>M</td> <td>fachin</td> <td>e Num</td> <td>ber</td>		05/0	1/95	to 1	8/01	/95			0			1	•		M	fachin	e Num	ber
box         in         investe         invest         investe         investe<		Sa	mple	es &	: Те	sts		Str	ata									
9.00-9.45       9       U       (40)       9       CLAY flocally with a little line sand partings in clay         9.00-9.45       9       U       (40)       9       10       0.3       15         9.00-9.45       10       D       15       11       D       15       11         10.00-10.95       12       U       (35)       15      below 10.50m stiff         11.00-11.45       14       D       25       11      below 10.50m stiff         12.00-12.45       15       U       (45)       12      below 12.45m very closely fissured.         12.00-12.45       15       U       (45)       12      below 12.45m very closely fissured.         13.80-13.95       18       U       (50)       15      between 15.10 - 15.30m grey siltstone, moderately strong to moderately weak.         13.80-15.30       21       U       (100)       14      between 15.10 - 15.30m grey siltstone, moderately strong to moderately weak.         13.80-15.30       21       U       (100)       14      between 15.10 - 15.30m grey siltstone, moderately strong to moderately weak.         13.80-15.30       21       U       (100)       14      between 15.10 - 15.30m grey siltstone, moderately strong to moderately strong to moderat				No.	Туре			•				Des	cription of S	Strata	Geology	Legend	Water	Piezo. Backfill
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	8.00-	8.45	8	B/S	12	8			Firm CLAY	to stiff ( locally	LAY) dark gr y with a	ey brown extre a little fine sand	emely closely fissured d partings in clay				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		9.00-9	9.45	9	υ	(40)	9									  		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	)					15									:			
11.00-11.4514D8D3D3D412.00-12.4515U(45) $17$ $15$ between 12.00 - 12.10m light grey mudstone, weak/12.4516D24between 12.00 - 12.10m light grey mudstone, weak/13.50-13.9518U(50)between 12.00 - 12.10m light grey mudstone, weak/13.50-13.9518U(50)between 12.00 - 12.10m light grey mudstone, weak/13.50-13.9518U(50)between 13.50m, very stiff13.50-15.1021U(50)between 15.10 - 15.30m grey siltstone, moderately strong to moderately weak.15.00-15.3021U(95)15.30-15.9522U(95)15.30-15.9522U(95)15.30-15.9514Image: Sealed From To Ming From To Ming15.10-15.30Image: Sealed From To Ming Sheet Time Depth Casing Water Rose Sealed From To Ming Sheet Sealed From To Ming Shee		10.50-1	0.95	12	U	(35)				beld	ow 10.5	0m stif	f					
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$					_	25												
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		12.00-1	2.45	15	U	(45)	12			bety	ween 12	.00 - 1	2.10m light gro	ey mudstone, weak/				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			-			24				belo	ow 12.4	5m ver	y closely fissur	red.				
14.00-14.45 $20$ $DS$ $23$ $15$ $15.00-15.10$ $21$ $U$ $(100)$ $15$ $15.10-15.30$ $21$ $U$ $(100)$ $15$ $15.50-15.95$ $22$ $U$ $(95)$ $16$ $16$ $16$ ChisellingRemarks: Full boring progress, water observations and chiselling details are given on a separate sheet. Full SPT and U100 details are given on separate sheets. Borehole in Triton Square.	)	13.50-1	.3.95	18	U	(50)				Below	, 13.50r	n, very	stiff					
15.00-15.10       21       U       (100)       15         15.10-15.30       21       U       B       (100)       15         15.50-15.95       22       U       (95)      between 15.10 - 15.30m grey siltstone, moderately weak.         Ister Time       Depth       Casing       Water       Rose       Sealed       From       To       Mins         Full boring progress, water observations and chiselling       Ister Time       Ister Time       Sealed       From       To       Mins         Full SPT and U100 details are given on a separate sheet.       Full SPT and U100 details are given on separate       Full SPT and U100 details are given on separate						25												
15.50-15.95       22       U       (95)				21		(100)		0)		betw	veen 15	.10 - 1 lerately	5.30m grey sil	tstone, moderately			<b>2</b> ¥ ¥	
Date       Time       Depth       Casing       Water       Rose       Sealed       From       To       Mins       Full boring progress, water observations and chiselling details are given on a separate sheet. Full SPT and U100 details are given on separate sheets. Borehole in Triton Square.         For abbreviations and       For abbreviations and       For abbreviations and       For abbreviations and		15.50-1	.5.95	22	υ	(95)												
For abbreviations and	Ī	В	orin	g Pr	ogr	ess &	: Wat	ter Ol	DS.	C	hiselli	ng	Remarks:					
For abbreviations and symbols see key sheet		Date	Time	De	=pth	Casing	Water	Rose	Sealed	From	То	Mins	Full boring f chiselling de Full SPT and sheets. Bore	progress, water obse tails are given on a d U100 details are g hole in Triton Squar	ervati sepai given re.	ions rate on s	and shee separ	t. ate
GE/tech 101 Produced by J.M. Davidson on gINT, 1992	)												symb	ols see key sheet	INT, 1992			`G ∭
Scale:     1:50     Processed in accordance with BS5930, BS5750 and AGS standards     Processed by:     Logged by:	Ī	Scale:	1	:50	Ī						Processe	d by:				٦I		

	Project ]	Name:	2				TRI	FON S	QUAJ	RE/RI	EGEN	TS PLACE	Ξ		Rec Bore	ord of tole No	
$\bigcirc$	Project No:	9	4 4	1 8	4	Client:		TH	E BR	ITISH		ND CORPO	RATION	I	BE	I 0	5
	Co-ordi	uates (1	Vation	al):	. :	Ground	level (m	AOD):	Method:		_						
	290 Date:	12.0	E 82	2375	.0N	Depth o	28.3	1	Hole dia	meter:		BLE PERC	Sheet:				
		)1/95	i to	18/0	1/95		52.2	0		-1 <b>5</b> 0m		50 -150mm	3 of 7	м	lachin	e Numi	ber
	Sa	mpl	es &	k Τe			Str										
	Dep		No.	Туре	SPT CPT 'N' value		Depth (m)	Reduced Level (m)			Des	cription of S	Strata	Geology	Legend	Water	Piezo
	16.dd-	95 16.45	<u>3</u> 3	Bs	31				Stiff d locally	ark gre y with a	y brow little f	n very closely ine sand partin	fissured CLAY ags in clay fissures.		= -   		
	17.00-	17.45	25	υ	(50)										   		
$\bigcirc$	17 17.50-		26 27	D DS	32	     18									   		
	18.50-	18.95	28	U	(50)	1											
	18. 19.00-		29 30	D DS	40												
	20.00-:	20.45	31	D		20											
	20.4 20.50-2		32 33	D DS	34	2									      		
$\bigcirc$	21.50-:	21.95	34	υ	(70)											3 ¥_	
	21.9 22.00-2		35 36	D DS	30	22	21.95	6.36	Stiff d with o cemen	ark bro ccasion ted mat	wn gre al selei terial.	y intact slightly nite crystals wi	y fine sandy CLAY th a trace of black				
	23.00-:	23.45	37	υ	(70)	23											
	23.4 23.50-2		38 39	D DS	32	24											
 	B	orin	g P	rogi	ess &	. Wat	er Ot	DS.	Cl	niselli	ng	Remarks:			<u>_</u>		
	Date	Tim		Depth	Casing	Water	Rose	Sealed	From	То	Mins	Full boring j chiselling de Full SPT an sheets. Bore	progress, water obset tails are given on a d U100 details are g hole in Triton Squar	ervati sepai given re.	ions rate on s	and sheet epar	ate
$\bigcirc$													bbreviations and ols see key sheet			LT	'G
l	Scale:	1	:50			Processed	d in acco	rdance with		Processe	d by:	GE/tech 101	Produced by J.M.Davidson on a Logged by:	INT, 1992	╣		
	All dim			etres				AGS stand			D	C	SR				

1	Project Name:					TRI	fon s	QUARE/R	EGEN	TS PLACE	3		Rec Bore	cord of hole No	D:
	Project 9	4 4	8	4	Client:		TH	E BRITISH	I LAN	ID CORPO	RATION	]	BH	I C	5
	Co-ordinates (1				Ground			Method:							
	29012.0 Date:	E 82	375.	<u>0N</u>	Depth o	28.3 f Hole:	1	Hole diameter:		BLE PERC	Sheet:				
	05/01/95	to 1	8/01	/95		52.2	0			50 -150mm	4 of 7	N N	fachin	e Num	ber
	Sample	es &	: Те	sts		Str	ata								
	Depth (m)	No.	Туре	SPT CPT 'N' value	I	Depth (m)	Reduced Level (m)		Des	cription of S	Strata	Geology	Legend	Water	Piezo, Backfill
	24.50-24.95 24.95 25.00-25.45	40 41 42	U D DS	(60) 37	24 - 			Stiff dark bro with occasion	own gre nal selen	y intact slightl nite crystals.	y fine sandy CLAY			 \$	
	26.00-26.45 26.45 26.50-26.95	43 44 45	U D DS	(60) 43	26	26.50	1.81	Very stiff day	rk grev	very closely fi	ssured CLAY with				
	27.50-27.95 27.95 28.00-28.45	46 47 48	U D DS	(80) 38	27 			occásional se			ssured CLAY with				
)	29.00-29.45 29.45 29.50-29.95	49 50 51	U D DS	(50) 45	29										
	30.00	52	D		30	29.90	-1.59	intact CLAY.		own blue grey READING Bl	and red brown intact EDS)				
	30.50-30.95 30.95 31.00-31.45	53 54 55	U D DS	(70) 50									    		
					32 -										
	Borin	g Pi	ogr	ess &	. Wat	er O	bs.	Chiselli	ng	Remarks:			<u>.                                    </u>		1
	Date Time		epth	Casing	Water	Rose		From To	Mins	Full boring j chiselling de Full SPT an sheets. Bore	progress, water obs tails are given on a d U100 details are ; hole in Triton Squa	ervat sepa given re.	ions rate on	and shee separ	t. ate
)										For a symb	bbreviations and ols see key sheet Protectly J.M.Davidso of		2		rG
	Scale: 1	:50					ordance with				Logged by:				
											SR				

	Project N	Vame:					TRI	TON S	QUAI	RE/RE	EGEN	TS PLACE	]		Re Bore	cord of hole N	o:
$\bigcirc$	Project No:	9 4	14	8	4	Client:		TH	EBR	ITISH	LAN	ID CORPO	RATION	I	3F	H C	)5
	Co-ordin	uates (N	ationa	1):		Groun	i level (n	AOD):	Method:					il			
	290 Date:	12.0H	E 82	375.	0N	Denth	28.3 of Hole:	1	Hole dia			BLE PERC	Sheet:				
		1/95	to 1	8/01	/95	Deba	52.2	0		-150m		60 -150mm	5 of 7	M	lachir	ne Num	ber
		mple						ata									
	Dept (m)	ih	No.	Туре	SPT CPT		Depth (m)	Reduced Level (m)			Desc	ription of S	trata	Geology	Legend	Water	Piezo
	32.00-3	32.45	56	U	(80)	32 -			Very :	stiff inta	act mot	led intact CLA			= -		APZ
	32.4 32.50-3	1	57 58	D DS	67				belo	ow 32.5	0m ver	y closely fissu	red				
$\langle$	33.50-3	33.95	60	U	(50)	33											
$\bigcirc$	33.9 34.00-3		61 62	D DS	44	34			@3: red fis	3.95m v ssured (	very sti blocky)	ff bluish grey r CLAY.	nottled yellow and				
	35.00-3	35.45	63	U	(45)	35											
	35.4 35.50-3	1	64 65	D DS	51	36			@3: smooti	5.50m v h).	very clo	sely fissured,	(fissure surfaces				
	36.50-3 36.9		66	U	(60)		)5)									:	
$\bigcirc$	37.00-3		68	DS	42		5		@30 becom	6.95m a ung dar	ppearin ker in (	ng extremely c colour.	losely fissured,				
	38.00-3 38.4		69 70	U D	(70)	38			14						  		
	38.50-3		71	DS	68	39			@38	8.50m p	ourple a	nd light blue.					
	39.50-3	39.95	72	υ	(100)	40			@3	9.50m t	ecomir	ng red brown t	o brown				
	P	oring	σ D1		Pecc 2		ter O	hs	CI	hiselli		Remarks:		<u> </u>			
	Date	Time	-	epth	Casing	Water		- T	From	То	Mins	Full boring p chiselling de Full SPT and sheets. Bore	progress, water obs tails are given on a d U100 details are g hole in Triton Squa	ervat sepa given ire.	ions rate on	and shee separ	et. rate
$\bigcirc$												For a symb	bbreviations and ols see key sheet Protocol by J.M. Davidson on	•	2		rG
	Scale:	1:	:50					ordance with		Processe	•		Logged by:				
ļ	All dim	ensions	in me	tres	BSS	930, BS	575U and	AGS stand	ATOS		D	С	SR				

	Project Name:					TRI	TON S	OUA		EGEI	NTS PLACE	F		Rec	ord of	
$\bigcirc$	Project		0		Client:			10								
	No: 9		8	4							ND CORPC	DRATION	Ł	3F	I C	95
	Co-ordinates (1 29012.0			٥N	Ground	l level (n 28.3	nAOD):	Method	:	C	ABLE PERC	TUSSION				
	Date:	1 02	.575.		Depth o	of Hole:	·1	Hole di	meter:		sing diameter:	Sheet:				
	05/01/95					52.2		250	-150m	<u>m   2</u>	<u>50 -150mm</u>	6 of 7	м	achin	e Num	ber
	Sample Depth	1	Type	T		SII Depth	ata Reduced Level	-		Des	cription of S	Strata	gy	ą		
	(m)			'N' value		(m)	(m)						Geology	Legend	Water	Piezo
	40.00:40.45	73	Bs	92	40			Very	stiff int	act mo	ttled intact CL	AY.		= 		AF
$\bigcirc$	41.00-41.45 41.45 41.50-41.95	75 76 77	U D DS	(80) 80	41 											
	42.50-42.95	78	υ	(120)										   		
	42.95 43.00-43.45	79 80	D DS	77		42.95	-14.64	Very occasi	stiff dar onal fir	k grey ne grav	sandy to very el.	sandy CLAY with				
	44.00-44.45	81	υ	(120)	44			2								
	44.45 44.50-44.75	82 83	D DS	150	45 +			@4	4.50m 1	pecomi	ng blue grey a	nd purple.				
$\bigcirc$	45.50-45.95	84	υ	(120)		45.90	-17.59	prom	sandy	i, beco CLAY	ming a very sti with fequent in	ff green mottled nclusions of light grey				
	45.95 46.00-46.25	85 86	D BC	150	46			lamina	stiff dar	v sand	v CLAY locally	nal brown poorly y appearing as a 1 medium flint gravel.				
	46.80 47.00-47.21	87 88	D DS	250	47 	46.80	-18.49	SAND	dense m with o NET SA	ccasio	grey occasionz al pockets of s	ally brown silty fine andy clay.				
					48 _									* *		
	Borin					1	_		niselli		Remarks:	nrogress water obse	rvati	one	and	
	Date Time		epth	Casing	Water	Rose	Sealed	From	То	Mins	chiselling de Full SPT and sheets. Bore	progress, water obse tails are given on a d U100 details are g hole in Triton Squar	separ iven ( e.	ate : on s	sheet	ate
$\bigcirc$											For a symb	bbreviations and ols see key sheet	INT 1007		LT	G
Ì	Scale: 1	:50	T				rdance with		Processe	•		Logged by:		Ť		)   
l	All dimensions	in me	tres	BS5	930, BS5	/SU and	AGS stand	ards		D	C	SR				

Project Nam	e:				TRI	ton s	QUAI	RE/R	EGEN	ITS PLACE	Ξ		Rec Bore	ord of hole N	o:
Project 9	4 4	1 8	4	Client	•	TH	E BR	ITISH	I LAN	ND CORPC	RATION	I	<b>3</b> E	I C	)5
Co-ordinates	(Nation	al):		Groun	d level (n	nAOD):	Method:								
29012 Date:	.0E 82	2375.	.0N		28.3	1				BLE PERC					
05/01/2	95 to	18/01	/95	Грерги	of Hole: 52.2	0	Hole dia	-150m		sing diameter: 50 -150mm	Sheet: 7 of 7		fachin	e Num	her
Sam						ata		10011							
Depth	No.	1	SPT CPT		Depth	Reduced Level			Des	cription of S	Strata	Geology	Legend	Water	Piezo. Backfill
(m) 48.00-48.1	3 89	DS	'N' value 84/125	48	(m) — — — —	(m) 	Very SANE	dense n ) with c	nedium	grey occasion al pockets of	ally brown silty fine sandy clay and y clay.		X X I		
49.00-49.1	7 90	DS	100/170	49	10)					ns ôf dark gre	y cláy.		****		
50.00-50.1	5 91	DS	69/150	50									* * * * * *		
51.00-51.2	1 92	DS	250	 51									× × × ×		
51.60	93	D			51.60 <sup>0)</sup> 51.90	-23.29 -23.59	Very of	lense b	lack an	gular to suban	gular fine to coarse e sand.		× × × × × ×		
52.00-52.1	8 94	DS	110/175		•) 52.20	-23.89	White	mottle	d brown	n and grey CH	ALK with no flints. ETED AT 52.20m.				
				<u> </u>											
		rogr	ess &		ter Ot	DS.	Ch	niselli	-	Remarks:					
Date Ti	ne D	epth	Casing	Water	Rose	Sealed	From	То	Mins	Full SPT and sheets. Bore	progress, water obse tails are given on a d U100 details are g hole in Triton Squar	ervati separ given re.	ons ate a on s	and shee epar	t. ate
					-					symb	bbreviations and ols see key sheet				G
Scale:	1:50			Processe		rdance with		Processe	d bv:	GE/tech 101	Produced by J.M.Davidson on p	INT, 1992	╡	$\mathbb{K}$	
1	1.00	tres				AGS stand			D	C	SR			<u> </u>	

## PROJECT NAME PROJECT NO. CLIENT

TRITON SQUARE/REGENTS PLACE 94484 THE BRITISH LAND CORPORATION

## BORING PROGRESS, WATER OBSERVATIONS AND CHISELLING

		BORING PR	DGRESS AND	WATER OBS	ERVATIONS			CHISELLI	1G
DATE	TIME	DEPTH	CASING	WATER	RISE	SEALED	FROM	то	MINUTES
		m	m	m	m	m	m	m	
06/12/94	Start	GL	NIL	DRY					
	End	0.65	NIL	DRY				_	
07/12/94	Start	0.65	NIL	DRY					
	End	2.05	NIL	DRY					
09/12/94	Start	1.80	NIL	DRY					
	Chisel	1.80	NIL	1.80			1.80	2.90	75 minute
	End	2.90	2.90	DRY					
05/01/95	Start	3.70	4.30	DRY					
	Strike	5.10	4.50	5.10	n/r	7.20			
	End	6.90	7.20	6.30					
06/01/95	Start	6.90	8.20	4.90				-	
	End	9.95	8.20	8.70					
09/01/95	Start	8.50	8.20	5.80					
	End	11.45	10.00	DRY					
10/01/95	Start	11.45	11.00	DRY					
	Strike	15.10	10.00	15.10	n/r	n/s			
	Chisel	15.10	10.00	15.10			15.10	15.30	45 minutes
	End	23.95	10.00	DRY					
11/01/95	Start	23.10	10.00	22.90					
	Strike	25.40	10.00	25.40	25.30	30.35			
	End	30.00	30.30	DRY					
12/01/95	Start	30.00	30.30	28.70			 		
	End	32.80	32.80	DRY					
13/01/95	Start	32.80	32.80	29.40					
	End	40.45	34.00	DRY					
16/01/95	Start	34.40	34.00	27.10					
	End	44.75	34.00	DRY			 		
17/01/95	Start	41.30	34.00	40.20			 		
	End	46.30	46.30	DAMP					
18/01/95	Start	46.20	46.30	15.90					
	Chisel	51.60	47.00	DRY			 51.60	52.00	75 minutes
	End	52.175	47.00	DRY			 		
•							 		-

Concrete obstruction between 2.90 & 3.70m broken out with pecker (JCB used). Casing pulled out and reinserted at 9.95m

Borehole collapsed overnight 10/1/95 - 11/1/95 from 23.95 - 23.10m

Borehole collapsed weekend 13/1/95 - 15/1/95 from 40.15 - 34.40m

Borehole collapsed overnight 16/1/95 - 17/1/95 from 44.75 - 41.30m

LTG

BPWOC

	Project 1	Name:					TRI	TON S	OUA		FGEN	TS PLACE		т т	Reco	rd of ble No	
$\bigcirc$	Project	0 4		0		Client:											
$\bigcirc$	No:	94		1	4				E BR	TTISH		ID CORPO	RATION	B	H	0	6
	Co-ordir				0.17	Ground		•	Method								
	290 Date:	62.0E	82	389.	UN	Depth of	28.4 Hole:	/	Hole dia	meter:		BLE PERC	Sheet:				
		1/95					48.4		250-	150m	m 2	50- 150mm	1 of 7	Ma	hine ]	Numb	er
		mple					Str				D		<b>N</b> 4 - 4	~			
	Dept (m)	in i	No.	Туре	SPT CPT		epth m	Reduced Level			Des	cription of S	strata	Geology	Legend	Water	Piezo, Backfill
	1.9 2.00-2 2.3 3.00-3 3.7 4.00-4 4.7 5.00-5 5.7 6.00-6 6.5 6.7 7.00-7 7.7 7.8	2.45 0 3.45 0 5.45 0 5.45 0 5.45 0 7.45	1 2 3 4 5 6 7 8 9 10 123 11 12 11 12 13 14	D BC D BC D BC D BC BC BC BC BC	25 52 30 26 20	0 	 0.10 0.45 0.60 0.75 1.00 1.70 1.90 2.30 7.80	28.37 28.02 27.87 27.72 27.47 26.77 26.57 26.17 26.17	MAD to coa MAD diame MAD occasi MAD to rou little of MAD dark to some (EXC. MAD silty fi gravel Dense round (TERI fror	E GRO rse gra E GRO ter stee E GRO onal gr E GRO rown te AVATI E GRO ine to c with o brown ed fine RACE C n 3.70	UND: vel and UND: 1 l bars a UND: 1 avel (rd UND: 1 avel (rd UND: 1 cavel w UND: 1 o black Wood, ON FA UND(1 oarse s ccasion fine to to coar GRAVE - 5.70n	some clay (H. Concrete slab r tt 200mm cent Loose to mediue to medium a Firm grey brow worked) Medium dense ith some brown MADE GROU fine to medium pottery and gla CE C ONLY) Medium dense and with some al brick fragm coarse SAND se flint GRAV L) h becoming a s	reinforced with 6mm tres. Im dense coarse ngular gravel. In clay with fine to coarse angular n silt and sand and a ND: Medium dense n sand with silt and liss fragments brown very clayey fine to coarse flint ents). and subangular to			Ŷ	
l	B	oring	Pr	ogr	ess &	. Wate	er Ob	 )S.	C	niselli	ng	Remarks:					
	Date	Time		epth	Casing	Water	Rose	Sealed	From	То	Mins	Full boring p chiselling de Full SPT an	progress, water obs tails are given on a d U100 details are g hole at Triton Squa	ervatio separa given o re.	ns a te si n se	ind heet para	ate
$\bigcirc$												For a symb	bbreviations and ols see key sheet		]	LT	G
[	Scale:	1:	50		1	Processed	in acco	rdance with		Processe	d by:	010 0001 101	Logged by:	£411, 1992			¥
	All dim	ensions i		tres				AGS stand			D	С	SR				<u>ا</u> ک

	Project Name	:				TRI	ton s	QUA	RE/R	EGEN	NTS PLACE	3		Re Bore	cord of hole No	<b>o</b> :
	Project No: 9	4 4	4 8	4	Client:		TH	E BR	ITISH	I LAI	ND CORPO	RATION	I	BF	I 0	6
	Co-ordinates	(Nation	al):		Groun	d level (n	nAOD):	Method	:							
	29062.	0E 8	2389	.0N	D4	28.4	7				BLE PERC					
	11/01/9	s 5 to 1	25/0	1/95	Debru	of Hole: 48.4	5	Hole dia			sing diameter: 50- 150mm	Sheet: 2 of 7		laahin	e Numi	han
	Samp				TT.		ata	250	1501		50- 150mm					
	Depth	<u> </u>	Туре	0.000	1  -	Depth	Reduced Level			Des	cription of S	Strata	Geology	Legend	Water	Piezo, Backfill
	(m)	-		'N' value	8	(m) 	( <u>m</u> )						Ŭ	L.		
	8.00-8.45 8.50-8.95	15 16/1	U 7 D/DS	(34)		<sup>0)</sup> 8.30	20.17	Firm (WEA Firm Stiff ( (LON	to stiff ATHER to stiff lark gre DON C	light an ED LO light an ey brow LAY)	nd dark brown NDON CLAY nd dark brown n poorly thinly	grey intact CLAY grey intact CLAY / laminated CLAY.				
	9.20	18	D					@9	20m n	ot lami	nated, very clo	selv fissured				
1	9.50-9.95	19	υ	(35)					.20111 11		mater, very cro	sery instance.		  		
	10.00-10.45	20/21	D/DS	23				@1 thinly	0.00m lamina	locally ted and	with a little lig blocky in text	ht brown sand, poorly ure				
	10.70	22	D													
	11.00-11.45		U	(40)	105.10	))										
	11.50-11.95													  		
					12									[ []		
	12.20	26	D													
	12.50-12.95	27	U	(45)												
														[-]		
	13.00-13.45	28/29	D/DS	34	13				3.00m	becomi	ng very stiff an	d with a little fine				
_					]	13.40	15.07	sand.								
)	13.70	30	D		╞┋╴	13.55	_14.92				er's description			-		
	14.00-14.45	31	U	(47)	14			locally	y with a	little f	ine sand.	osely fissured CLAY		 		
	14.50-14.95	32/33	D/DS	29										L]		
														<u> </u> ]		
	15.20	34	D											L		
	15.50-15.95	35	U	(50)		i)										
														<u> </u> ]		
	L				16 -											
						ter Ol			hiselli	<u> </u>	Remarks:	arograng wistor at		0	0	
	Date Tin	ne I	Depth	Casing	Water	Rose	Sealed	From	То	Mins	Full SPT and sheets. Bore	progress, water obse tails are given on a d U100 details are g hole at Triton Squar	sepai sepai given re.	ons on s	sheet separ	t. ate
)								- - - -			For a symb	bbreviations and ols see key sheet			LT	<u>`G</u>
	Scale:				<u> </u>	1			D=====	d h	GE/tech 101	Produced by J.M.Davidson on a	INT, 1992			$\mathbb{N}$
	L'ourse	1:50			rrocesse	u m acco	rdance with AGS stand	L.	Processe	a uy:		Logged by:		11		

Pr	roject N	ame:	8	-			TRI	τon s	QUA	RE/R	EGEN	TS PLACE	2		Rec Bore	cord of hole No	»:
Pr	roject o:	9	4	48	4	Clien	t:	TH	E BR	ITISH	I LAN	ID CORPO	RATION	I	BE	<b>H</b> 0	6
C	o-ordina	ites (l	Vatio	ual):		Grou	nd level (n	1AOD):	Method	:							
	2906	52.0	E 8	2389	.0N		28.4	7			CA	BLE PERC	USSION	Į			
	ate:			0.510	1.05	Depti	of Hole:	-	Hole dia			ting diameter:	Sheet:				
	11/01 San			25/0 & Te			48.4	ata	250-	150m	$m \mid 2$	50- 150mm	<u>3 of 7</u>	M	lachin	e Numi	ber
	Depth	-	· · ·	Тур	0.000		Depth	Reduced Level	-		Desc	cription of S	Strata	Geology	Legend	ы	Piezo. Backfill
	(m)				'N' value	+	(m)	(m)						ğ	Leg	Water	Piez
1	16.00-10	6.45	36/3	7 D/D	S 29				Very	stiff da	k grey	brown very cle	osely fissured CLAY		= - 		
									local	y wiui c		me samu.					
	16.70	5	38	D													
1	17.00-17	7.45	39	U	(50)	17			@17.	00m. be	ecomina	closely to ver	y closely fissured				
	17.30	5	42	D		]	17.30	11.17	with c	occasior	nal pocí	tets of silty find	e sand.		[-]		
	17.50-17	7.95	40/4	1 D/D	8 46		90)		with c	occasior	nal selei	brown intact s nite and dark g fragment (cha	lightly sandy CLAY rey mottling with rcoal?)				
	18.20		42				18.20	10.27									$\square$
			43	D		E			Very fine s	stiff dar	rk grey	brown intact C	LAY with a little				
	18.50-18	3.95	44	U	(55)	E				2110							
	19.00-19	245	1511	5 D/D	s 43	19											
	19.00-13	.45	43/4	עושנ	5 45												
	19.70	)	47	D		EI			@1	9.70m I	locally a	a sandy CLAY					
2	20.00-20	).45	48	U	(55)	20						·····, ·····					
2	20.50-20	).95	49/5	D/D	6 45												
																	$\square$
				_		2											$\square$
	21.20		51	D													
2	21.50-21	.95	52	U	(55)										-7-		$\square$
																	$\square$
	22.00-22	2.45	53/54	יט/טן	36				@2	2.00m l	locally a	a sandy CLAY					//
																	$//\lambda$
	22.70	,	55	D					(A)	) 70m 1	hecomi	n a very stiff .	lark brown grey				
2	23.00-23	3.45	56	U	(57)	23			intact	sandy (	CLAY V	vith many pocl	cets/laminations of		5		
						=	.10)		decay	ed woo	ilty fine d fragm	sand; occasion ents.	uar				$//\lambda$
2	23.50-23	3.95	57/5	B D/DS	38	$  = 1^{n}$									<u>[-]</u>		
																i	
						24									ē E		
	Bc	orin	g P	rog	ress 8	د Wa	ter O	os.	C	hiselli	ng	Remarks:					
E	Date	Time	; ]	Depth	Casing	Wate	r Rose	Sealed	From	То	Mins	Full boring I chiselling de	progress, water obse tails are given on a d U100 details are g	ervati	lons rate	and	
												Full SPT and sheets. Bore	d U100 details are g hole at Triton Squar	iven e.	on s	separ	ate
															-1		
	1											For a	bbreviations and ols see key sheet			LT	'G
1												GE/tech 101	•				2
Sca	ale:	1	:50			Proces	ed in acco	rdance with		Processe	d by:	CENERI IVI	Produced by J.M.Davidson on g Logged by:	LINT, 1992	눼		XX
	ll dimer				BS:			AGS stand			D	С	SR				

	Project Na	ume:	87 87				TRI	TON S	QUA	RE/R	EGEI	NTS PLACI	Ξ		Rec Bore	ord of hole No	):
$\bigcirc$	Project No:	9	44	8	4	Clien	:	TH	IE BR	ITISH	I LAI	ND CORPC	RATION	E	<b>B</b> F	I 0	6
	Co-ordina	tes (l	Nations	1):		Grou	nd level (n	nAOD):	Method								
	2906	2.0	E 82	389.	0N	Denth	28.4 of Hole:	7	 			ABLE PERC					
	11/01	l <b>/95</b>	i to 2	25/01	/95	Берш	48.4	5	Hole dia 250-			using diameter: 50- 150mm	Sheet: 4 of 7	м	achin	e Numi	ber
	San	npl	es &	: Te	sts	T	Str	ata									
	Depth (m)		No.	Туре	SPT CPT 'N' value		Depth (m)	Reduced Level (m)			Des	cription of S	Strata	Geology	Legend	Water	Piezo, Backfill
	24.20		59	D					Very many	stiff dan pocket	rk brov s/lamin	vn grey intact s ations of light	andy CLAY with brown silty fine sand;				777
	24.50-24		60	U													
~	25.00-25	9.45	61/62	D/DS	48				@2 occas	5.00m ( ional po	occasic ockets/]	onal pyritised n aminations of f	odule, becoming with fine sand.				
()	25.70	)	63	D											-7-1		
	26.00-26	.45	64	U		26			amin (26.0	oom, cl ations o	osely la of light	aminated with a grey silty fine	occasional thin sand.				
	26.50-26		65/66		50				@2	6.50m 1	becomi	ng slightly san	dy to sandy,				//
	26.70		67	D		27			l occasi	ional py	rite no	dule.	yed wood fragment		-		$\square$
																	$\square$
	27.50-27	.95	68	U	(55)												
	28.00-28	.45	69/70	D/DS	60				@2	8.00m (	occasio	nal pyrite nodu	ıle.				
	28.30		71	D			28.30	0.17	1994								
	28.70		72	D									brown blocky CLAY. EDS) ed brown mottle and				
	29.00-29	.45	73	U	(60)	29			very c	losely f	fissured	l (fissures smoo	oth).				$\square$
	20 50 20			D													$\square$
$\bigcirc$	29.50-29	.95	14/15	פטוט	88				@2	9.50m a	арреагі	ng extremely c	losely fissured.				
						30											$\square$
	30.20		76	D													
	30.50-30	.95	17	U	(65)										:		
	31.00-31	.45	78/79	D/DS	65	3			fror	n 31.00	- 31.7	Om becoming j	predominantly red ure, blue mottle	-			$\square$
			s						appea	ring on	fissure	surfaces.	are, olde mottle			ļ	$\square$
	31.70		80	D		- - 32 .			@3 purple	1.70m and ye	becom	ing blue grey i	n colour, mottled		  		
ľ	Bo	rin	g Pr	ogr	ess &	: Wa	ter Ol	DS.	C	niselli	ng	Remarks:					
	Date	Time	De	pth	Casing	Water	Rose	Sealed	From	То	Mins	Full boring   chiselling de Full SPT and	progress, water obset tails are given on a d U100 details are g	ervatio separ	ons ate	and sheet	ate
												sheets. Bore	hole at Triton Squar	re.		-L.m.	
$\bigcirc$												For a symb	bbreviations and ols see key sheet			LT	G
ļ	Peatri	-							<u> </u>			GE/tech 101	Produced by J.M.Davidson on p	INT, 1992	ļ		$\mathbb{N}$
	Scale: All dimen		:50	tres				rdance with AGS stand		Processe	•	C	Logged by: SR				2

	Project N	lame:					TRI	TON S	QUAI	RE/RI	EGEN	ITS PLACE	3		Reco Boreh	ord of ole No	o:
)	Project No:	9	4 4	8	4	Clier	nt:	TH	E BR	ITISH	[ LAN	ID CORPO	RATION	H	3H	[ 0	6
	Co-ordin	ates (1	Vation	u):		Grou	ind level (n	AOD):	Method:								
		62.0	E 82	2389.	0N		28.4	7				BLE PERC					
	Date: 11/0	1/04	to 1	05/01	/05	Dept	h of Hole: 48.4	5	Hole dia			sing diameter: 50- 150mm	Sheet: 5 of 7		(achine	Num	
				ε Te				ata	250-	15011	<u> III   2.</u>	00- 130mm	5017			Num	
	Dept (m)		No.	Туре	0.000		Depth (m)	Reduced Level			Desc	cription of S	Strata	Geology	Legend	Water	Piezo. Backfill
	32.00-3	2.45	81	U	(65)	32			Verv	stiff lig	ht blue	grey and light	brown blocky CLAY	<u> </u>	=		777
	32.50-3	32.95	82/83	D/DS	59				_	2.50m 1			inantly purple in d ironstone				
	33.2	0	84	D					@2	2 20- 1	haaami	na hearra mati	led even less line		F-]		
	33.50-3	3.95	85	U	(70)				fissure	s.20m (	es smo	oth.	led grey locally;		[-]		
)	34.0	0	86/87	D/DS		34			രാ	4.00m 1	ight bli	ie grev niirnle	and vellow. texture				
	34.7	'O	88	D			1.70)		blocky	(colou	r varyi	ng widely with	and yellow; texture depth)				
	35.00-3	-	89	U	(70)	35									<u>[</u> ]		
	35.50-3														 		
	36.2	0	92	D		36									 		
	36.50-3		93		(70)				@3	5.20m v	very to	extremely clos	ely fissured				
	37.00-3					37									    		
)	37.7	0	96	D					e?'	7 70	ad heat		nonantin dankan in		   		
	38.00-3		97	U	(75)	38			colour			wii ili colour, g	generally darker in				
	38.50-3	8.95	98/99	D/DS													
						39											
	39.2 39.50-3		100 101	D U	(75)												
						40	40.00	-11.53							     		
	B	orin	g P	rogr	ess &	z Wa	ater O	bs.	C	hiselli	ng	Remarks:		•	• <u>•</u> ••••	_	
	Date	Tim		epth	Casing	Wat			From	То	Mins	Full boring p chiselling de Full SPT and sheets. Bore	progress, water obset tails are given on a d U100 details are g hole at Triton Squar	ervat sepai given re.	ions rate s on s	and shee epar	t. ate
)												symb	bbreviations and ols see key sheet				G
	Scale:		.50			<u> </u>	1			Processe	d h	GE/tech 101	Produced by J.M.Davidson on	gINT, 1997			
			:50 s in m	atrac				rdance with AGS stand		11000380	·	С	Logged by: SR			LN"	

	Project Name:					TRI	TON S	QUA	RE/R	EGE	NTS PLAC	——————— E		Re Bore	cord of hole No	D:
	Project 9	4 4	8	4	Clier	nt:	TH	IE BR	UTISI	H LA	ND CORPO	RATION	E	3F	I O	6
	Co-ordinates (National):					ind level (n	nAOD):	Method	Method:							
	29062.0 Date:	)E 82	2389	.0N	Dent	28.4 h of Hole:	.7	Hole di	CABLE PERCUSSION							
	11/01/9	5 to 2	25/0	1/95	Dept	48.4	5		150n		asing diameter: 250- 150mm	Sheet: 6 of 7	м	achin	e Numi	ber
	Sampl	es 8	z Te	sts		Str	ata									
	Depth (m)	No.	Туре	SPT CPT 'N' value		Depth (m)	Reduced Level			Des	scription of {	Strata	Geology	Legend	Water	Piezo. Backfill
	40.00-40.30	102/10	3D/DS	120		.80)		Very closel grey	stiff da y fissu silt.	red CL	wn mottled blue AY with fine la	grey laminated minations of light				
	40.80 41.00-41.30	104 105	D U	(100)		40.80	-12.33	Very	stiff da ring as	rk grey a clav	y very sandy in ey sand.	tact CLAY locally				
	41.35-41.65	106/10	D/DS	112		41.30	-12.83		-	•	-	n intact very sandy				
$\bigcirc$	40.00	100			42											
	42.30 42.50-42.85	108 109	D U	(100)		.50)		purple   From	e 42.50n	n to 42	85m becomin	rown occasionally g greenish yellow,				
	42.90-43.20	10/11	D/DS	126	43			fine s	2.90m	e sandy occasio	onal pocket/par	CLAY ting of slightly clayey				
	43.80 44.00-44.30	112 113	D BC	120	4	43.80	-15.33	Very	stiff dar unded t	rk grey o roun	very sandy CI ded fine to coar	AY with much se gravel occasional lightly clayey).				
	44.70	114	D			20)		pocke	ts/lami	nations	of fine sand (si	lightly clayey).				
$\bigcirc$	45.00-45.28	15/110	D/DS	129	45	45.00 70)	-16.53	and li	ght gre 5.30m	y silty becomi	fine SAND.	slightly sandy CLAY CLAY with many				
$\bigcirc$	45.70	117	D		46	45.70	-17.23	flint g	ravel.	nations	of light grey h	ne sand, occasional				
	46.00-46.20	118	DS	60				(THA @4	NET S. 6.00m :	AND) not cla	ghtly clayey sild el. yey but with oc	casional pockets of	0.0.0	2.5.5.X X X X		
	46.60 47.00-47.15	119 120	D DS	73/150	47				rown cl	•						
			20	10/100		75)		@4	/.00m	becomi	ng a silty fine s	SAND	0.00 0.00 0.00	1. 1. 1. 1. X. X. X.		
	47.70	121	D		48											
						ter Ob	_		niselli	<u> </u>	Remarks:	mornora water ches				
	Date Time		epth	Casing	Wate	r Rose	Sealed	From	<u>To</u>	Mins	- chiselling de Full SPT and	progress, water obset tails are given on a d U100 details are g hole at Triton Squar	separativen of	ons ate on s	and sheet epara	ate
C											For a symb	bbreviations and ols see key sheet			LT	G
L r	Scale: 1	:50			TODES	ed in accord	dance with		Processe	d by:	GE/tech 101	Produced by J.M.Davidson on g	INT, 1992	╣		
	All dimensions		tres				AGS stands	ards	Processed by: Logged by: DC SR							

	Project Na	me:					TRI	Record of Borehole No:													
$\bigcirc$	Project No:	94	4	8	4	Client:		TH	E BR	E BRITISH LAND CORPORATION						BH 06					
	Co-ordinat	es (Na	: tional	):	;	Ground	level (n	AOD):	Method:	Method:											
	2906	2.0E	82	389.	0N		28.4	7			CA	BLE PERC	CUSSION								
	Date:	10.5			10 5	Depth o		_	Hole dia			sing diameter:	Sheet:								
	11/01						48.4		250-	150m	$m \mid 2$	50- 150mm	7 of 7	N	fachin	e Num	ber				
	Sam	<u> </u>		Те Туре				ata Reduced			Dec	vintion of (	Strato	2							
	Depth	1	NO.	Type	CPT 'N' value		Depth	Reduced Level			Dest	cription of S	ouala	Geology	Legend	Water	Piezo				
	(m)	-†			N VALUE	48	) (皿) — — — —	(m) 									777				
	48.30-48	.45	122	DS			49.46	10.00							XXX						
							48.45	-19.98	EXPL	ORAT	DRY H	OLE COMPL	ETED AT 48.45m.		×'X		<u>777</u>				
2						-															
1						Ξ															
$\bigcirc$						_															
						=															
						Ξ															
						Ξ															
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						-						2					23				
						1111															
						<u>-</u>															
	L				ess &			_		niselli		Remarks:	prograss water als	amint	0.77	and					
	Date	Time	De	pth	Casing	Water	Rose	Sealed	From	To	Mins	chiselling de	progress, water obs tails are given on a d U100 details are g hole at Triton Squa	separ	rate	shee	t.				
						5 <b>8</b> 1						Full SPT an	d U100 details are g	given re	on s	separ	ate				
													note at 111011 Squa								
												For a	bbreviations and								
()												symb	ols see key sheet			LT	G				
												GE/tech 101	Produced by J.M.Davidson on			$\overline{/}$	$\overline{\mathbb{N}}$				
	Scale:	1::	50					rdance with		Processe			Logged by:		Ĩ						
	All dimen	sions i	n met	res	BS5	930, BS5	750 and	AGS stand	ards	DC SR											

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## PROJECT NAME PROJECT NO. CLIENT

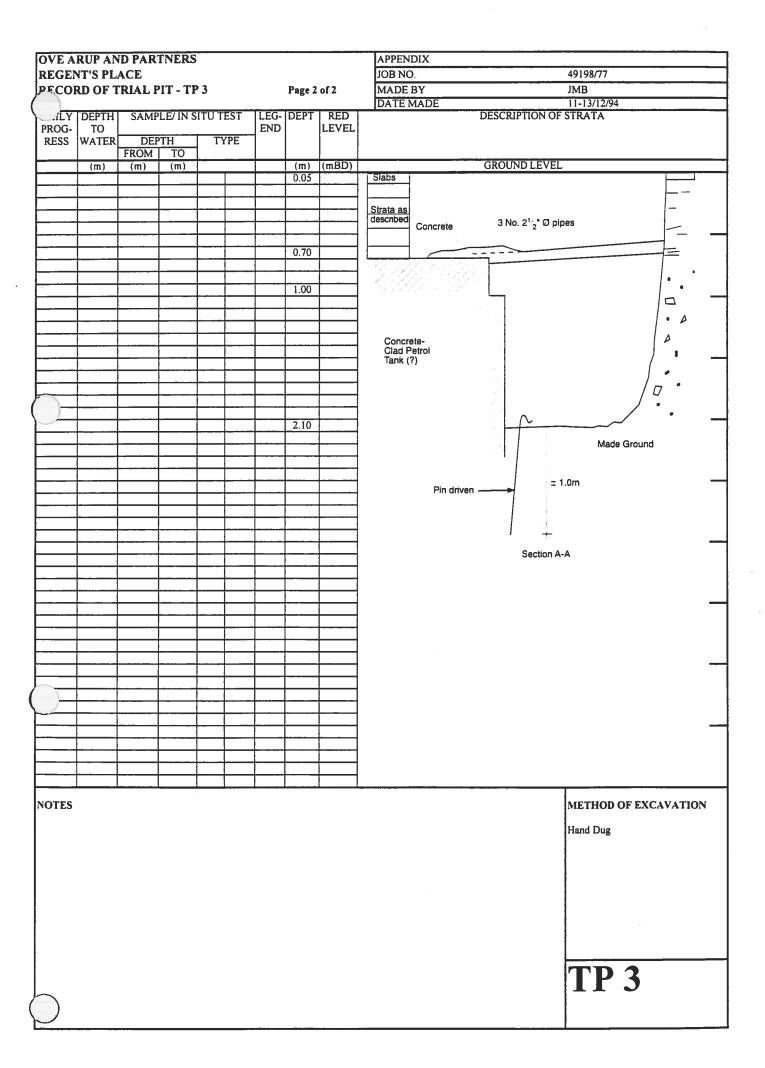
TRITON SQUARE/REGENTS PLACE 94484 THE BRITISH LAND CORPORATION

## BORING PROGRESS, WATER OBSERVATIONS AND CHISELLING

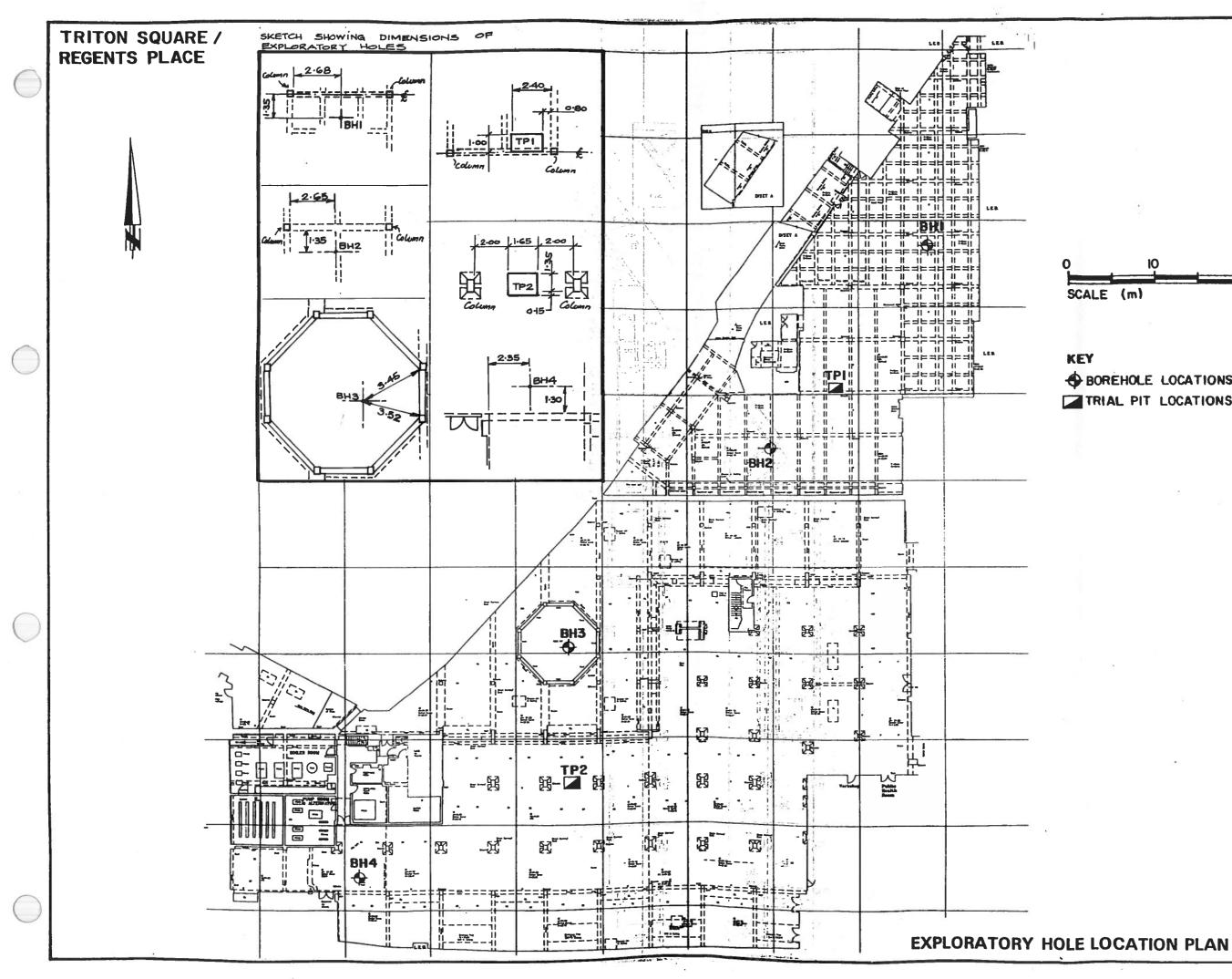
		BORING PR	OGRESS AND	WATER OBS	ERVATIONS				CHISELLIN	IG
DATE	TIME	DEPTH	CASING	WATER	RISE	SEALED		FROM	то	MINUTES
		m	m	m	m	m		m	m	
1/01/95	Start	1.90	1.90	DRY						
	Strike	6.50	7.00	6.50	6.10	n/s				
	End	7.60	7.60	6.70						
2/01/95	Start	7.60	7.60	6.10						
	Chisel	13.40	9.25	13.40				13.40	13.55	30 minute
	End	16.45	9.25	DRY		_				
3/01/95	Start	16.45	9.25	DRY						
	End	23.95	9.25	DRY						
7/01/95	Start	19.00	9.25	19.00						
	End	26.70	9.25	DRY						
8/01/95	Start	26.70	9.25	26.10						
	End	31.45	9.25	DRY						
9/01/95	Start	31.45	9.25	30.00						
	End	35.95	9.25	DRY						
20/01/95	Start	35.95	9.25	34.50						
	End	40.30	9.25	DRY						
3/01/95	Start	40.30	9.25	39.00						
	End	41.65	9.25	DRY						
4/01/95	Start	41.65	9.25	40.10						
	Chisel	43.80	9.25	DRY				43.80	45.00	120 minute
	End	45.50	9.25	DRY						
5/01/95	Start	45.50	9.25	DRY						
	End	48.45	9.25	47.10						
- min										
1										
		1								
				nr = no rise			n/s = not s	ealed		

BPWOC

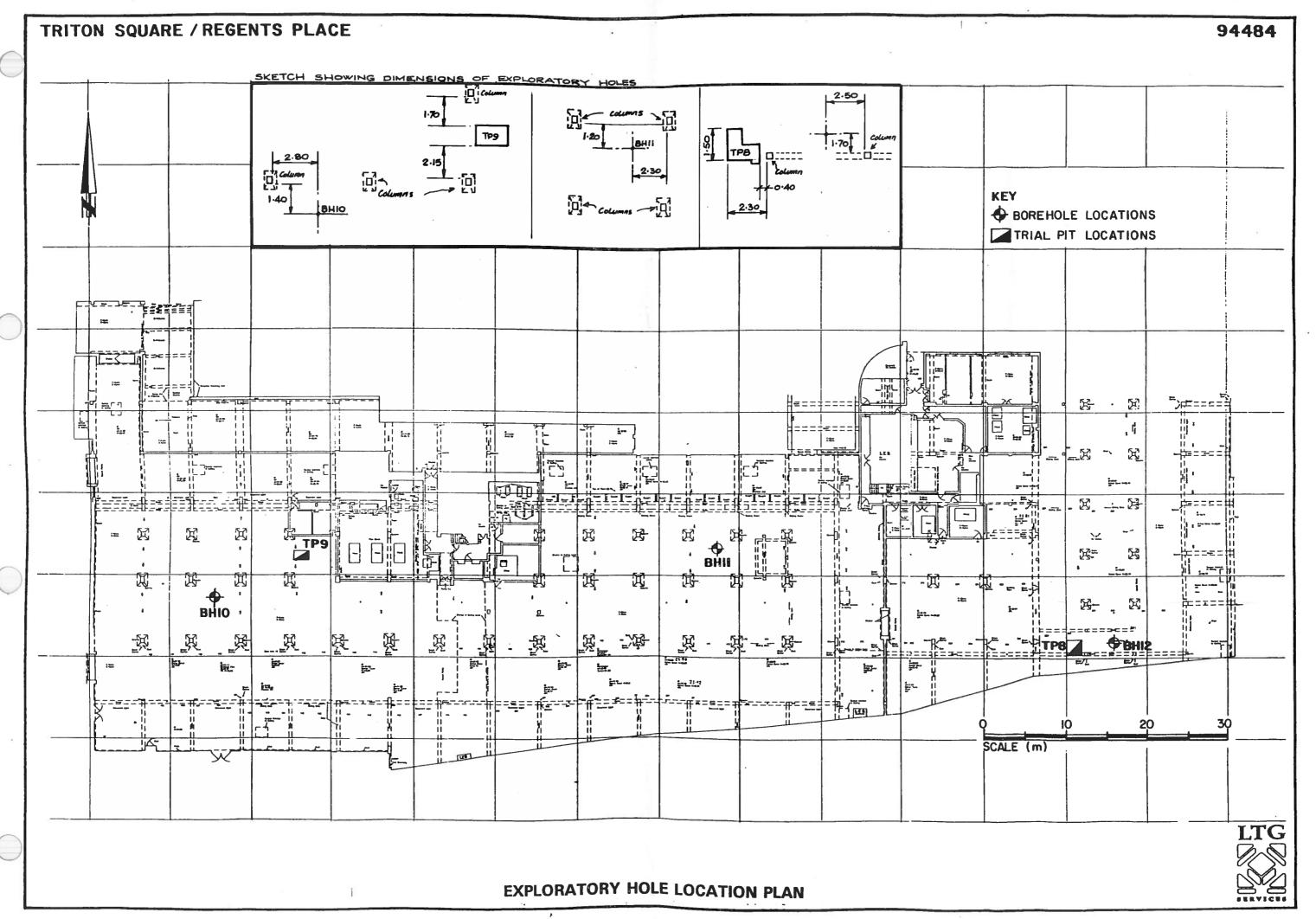
	RUP AN								
	NT'S PL								JOB NO. 49198/77
TOP	RD OF 1	RIAL	PIT - T	<b>P 3</b>			Page 1	of 2	MADE BY JMB
									DATE MADE 11-13/12/94
DAILY	DEPTH	SAMPI	.E/ IN S	ITU 1	TEST	LEG	DEPTH	RED	DESCRIPTION OF STRATA
PROG-	то					END		LEVEL	
RESS	WATER	DEP	тн	T	YPE	1			
		FROM	то	1					
	(m)	(m)	(m)				(m)	(mOD)	GROUND LEVEL 28.8
							0.05	28.75	PAVING SLABS
							0.13	28.67	Orange SAND and tine GRAVEL (founding bed for slabs)
					ļ		0.30	28.50	Loosely cemented pinky grey angular to rounded GRAVEL and SAND
				<u> </u>			0.44	28.36 28.33	(low grade concrete?) Loose light brown medium to coarse SAND with fine to coarse gravel with some gravel
		0.60			В		0.60	28.20	sized brick pieces.
		0.00					0.00		Medium dense black SAND and GRAVEL - Asphalt?
									Loose brick COBBLES.
									Loose brick and concrete rubble, and brown SILT and SAND (Hardcore)
				<u> </u>	1.0				
		1.10			J*				
	-	1.40			В				
-									
-									
		2.00			1				
/12/94							2.10	26.70	
									BASE OF PIT
					· · ·				
				$\vdash$					
									PLAN VIEW
									N All dimensions in m
									0.70 Concrete
									+ - <u></u>
									Excavation
1									
)									
									Paving Slabs
									600mm Sq. 0.90
				$\square$					A 3 No. pipes 21/5" Ø
									3 No. pipes 2 <sup>1</sup> / <sub>2</sub> <sup>™</sup> Ø embedded in constraint
									concrete.
DTES									METHOD OF EXCAVATION
511.5									METHOD OF EXCAVATION
	Concrete				oit 0.7m	dowr	Assum	ned to be	old Hand Dug
	petrol tan								
	Commit- r	line for	and P	as1.				e of all -	and tank
	sample ta	ken from	son dire	cuy i	underne	ath er	ury poin	t of pipes	and tank.
	No smell	of petrol/	organic d	chem	icals in	pit. F	in drive	n to 3m d	epth.
	still no no	ticeable t	race of c	ontai	minents				·
									<b>TP 3</b>
1									
-									

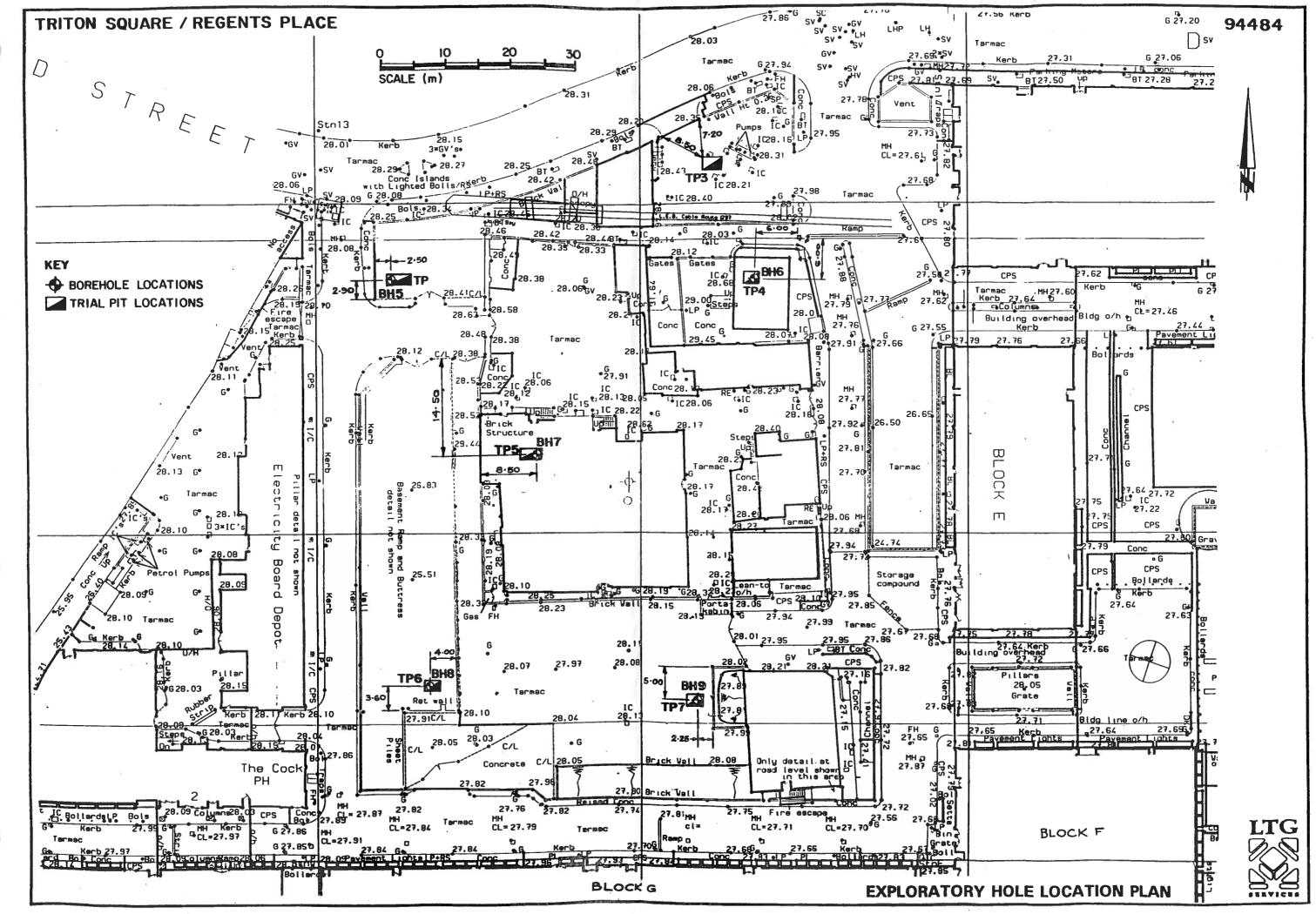


REGEN RECOR DAILY PROG- RESS	UD OF 1		<b>סות</b> ז						
DAILY PROG-		<b>FRIAL</b>	DIT 1						JOB NO. AA961
PROG-			<b>EII</b> - 1	<b>FP 4</b>					MADE BY JMB
PROG-					-				DATE MADE 6-9/12/94
	DEPTH TO WATER		LE/ IN S			LEG END	DEPTH	RED LEVEL	DESCRIPTION OF STRATA
		FROM							
6/12/94	(m)	(m)	(m)	-			(m) 0.10	(mOD) 28.37	GROUND LEVEL 28.47
0/12/94							0.10		Brick COBBLES with coarse sand, fine to coarse gravel and some clay (HARDCORE
		0.6	0.7	1	В		0.45	28.02 27.87	Concrete slab reinforced with 6mm diameter steel bars at 200mm centres
		0.8		2	J	<u> </u>	0.75	27.72	Loose to medium dense coarse orange SAND with fine to medium angular gravel
		0.8	1	3	B		0.75	21.12	Firm grey brown CLAY with occasional gravel (reworked)
		0,5		+-		<u> </u>	1.00	27.47	
									Medium dense fine to coarse, angular to rounded GRAVEL with some brown silt and sand and a little clay.
									·
)		1.75	1.9	5	J B		1.70	26.77	Medium dense dark brown to black fine to medium SAND with silt and some rotting
6		1.73	1.9	+	D				wood, pottery and gas fragments (EXCAVTION FACE C ONLY)
9/12/94							2.00	_26.47	
				$\square$		ļ		T	BASE OF PIT
+									
				<b>_</b>			ļ		
			-						Car Park
									Access
									Low wall
								<u> </u>	
								<b>  </b>	в
+				+					
									concrete D
′ ┠∔				+					
						<u> </u>			, '
									PLAN VIEW
	]			$\square$					
<b>├</b> ───┼									
+									
. (	Reduced Concrete 10" leadin base to pr	obstructiong casing	on in we installed	st hal: d for I	fofpit 3H6.F	at bas load p	e level of in hamm	f 1.70m.	METHOD OF EXCAVATION Hand Dug x. 1.0m down



94484 10 20 30 SCALE (m) BOREHOLE LOCATIONS TRIAL PIT LOCATIONS LTG 





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