



Geo-Environmental

19th January 2012

Our ref: GE8535

Rob Mclean
Corner Studio Limited
The Design Studio
94 High Street
Steyping
West Sussex
BN44 3RD

Dear Rob,

106 FROGNAL, CAMDEN, LONDON, NW3 6XU – GEOLOGY, HYDROGEOLOGY & HYDROLOGY

The following information is based on the anticipated ground and groundwater conditions from our experience of sites we have investigated in the London Borough of Camden and published information from the Environment Agency and British Geological Survey (BGS). Reference has also been made to the ARUP report 'London Borough of Camden, Camden geological, hydrogeological and hydrological study, Guidance for subterranean development'.

Ground Conditions

According to information published by the BGS the site was indicated to be underlain by clayey sands and sandy clays of the Bagshot Beds and Claygate Beds, underlain in turn by London Clay. Geo-Environmental Services Ltd has confirmed these ground conditions during previous investigations in close proximity to the site.

The **Bagshot Beds** comprise mainly of fine grained yellow, pink and brown sands with ferruginous concretions. Beds of grey clay "pipe clay" occur frequently as do beds of black flint gravel.

The **Claygate Beds** comprise alternating layers of clayey sand and sandy clays. The sands usually overlie the clays. The clays are typically brown to mauve mottled and are overconsolidated. The bed is a transitional and overlays the London Clay. It has been used extensively for brick making.

London Clay comprises a stiff grey fissured clay, weathering to brown near surface. Concretions of argillaceous limestone in nodular form (Claystones) occur throughout the formation. Crystals of gypsum (Selenite) are often found within the weathered part of the London Clay, and precautions against sulphate attack to concrete are sometimes required.

The lowest part of the formation is a sandy bed with black rounded gravel and occasional layers of sandstone and is known as the Basement Beds.

Geo-Environmental Services Ltd
28 Crescent Road, Brighton, East Sussex, BN2 3RP
T: 01273 699 399 F: 01273 699 388 E: mail@gesl.net W: www.gesl.net

[Environmental Consultants](#) | [Geotechnical Engineers](#) | [Site Investigations](#)

Geo-Environmental Services Ltd incorporated in England number 3214980 VAT number 679544479

In the north London area the upper part of the London Clay has been disturbed by glacial action and may contain pockets of sand and gravel.

A review of BGS boreholes from within the surrounding area confirmed the underlying geology, for further details please refer to the borehole logs appended.

Groundwater

It is anticipated that groundwater would be present within the Bagshot Beds and Claygate Beds, but at depths greater than the proposed basement. Based on the historical river mapping of London the former rivers Westbourne and Tyburn flow in a southerly direction within culverts to the south (The Lost Rivers of London, Nicholas Barton, 1992).

In general, based on the topography of the area groundwater flows are likely to be in a southerly direction. According to the review of BGS borehole records in the vicinity of the site the groundwater level is likely to be around 8.0m bgl.

Hydrogeology

With reference to the Environment Agency website, the site is indicated to overlie bedrock classified as a Secondary 'A' Aquifer (formerly referred to as a Minor Aquifer).

Secondary 'A' aquifers are defined as fractured or potentially fractured rocks which do not normally have a high primary permeability. Although these formations will seldom produce large quantities of water for abstraction they are important both for local supplies and in supplying base flow to rivers.

Furthermore, according to the Environment Agency the site is not located within a groundwater Source Protection Zone, (SPZ). An SPZ is a protection zone placed around a well or borehole that supplies groundwater of potable quality and an SPZ is divided into three zones defined as follows:

- Zone I - the 50 day travel time from any point below the water table to the source. This zone has a minimum radius of 50m.
- Zone II - a 400 day travel time from a point below the water table.
- Zone III - the area around a source within which all groundwater recharge is presumed to be discharged at the source.

The site is underlain by two aquifers divided by the impermeable cohesive London Clay; the aquifers are referred to as an Upper Aquifer and Lower Aquifer:

- Upper Aquifer – This comprises the groundwater within the River Terrace Deposits (absent at this site) and Bagshot Formation overlying the London Clay comprising a granular material.
- Lower Aquifer – This comprises the groundwater within the Lambeth Group and Upper, Middle and Lower Chalk formations underlying the London Clay.

Hydrology

The site is indicated to be outside of any current indicative tidal or fluvial flood plain, or any associated flood warning area. The nearest surface water feature is indicated approximately 350m north of the site (pond).

Conceptual Ground Model

The site is within the London Borough of Camden, London. The local geology comprises the Bagshot Formation overlying London Clay (including the Claygate Member). The latter is more than 90-130m thick and is in turn underlain by the Lambeth Group forming a lower aquifer. The thickness of the London Clay is sufficient enough to form a geological barrier between the lower aquifers and the secondary A aquifer of the Bagshot Formation.

The proposed development is for the extension of an existing basement for a terraced house within a residential street, the majority of adjoining properties include gardens and it is likely that adjoining terrace houses would have existing basements.

The local topography slopes gently down towards the south with the general hydrogeological trend being for groundwater flows towards the River Thames to the south. Nearby culverted rivers including the River Westbourne and River Tyburn flow down to and the River Thames. In addition, based on the borehole logs for the surrounding area groundwater is likely to be encountered at depths of c.8.0m bgl and is therefore unlikely to be encountered within the depth of a single storey basement c.3.50m to 4.00m bgl.

The proposal is to extend an existing basement of a terraced property the size of which is unlikely to disturb the groundwater flow.

Basement Design and Construction

The following table summarises the groundwater conditions anticipated at this site.

Groundwater	No	Depending on the location and depth of the proposed basement, standing groundwater unlikely to be encountered. BGS logs indicate groundwater to be c.10.00m bgl.
Perched water	Yes	Water may seep from within localised granular materials or possible fissured horizons. Localised seepages should be anticipated.
Ponded water	Yes	The clayey sands are of a relatively high permeability; however where more cohesive materials are present ponding may result. Drainage or tanking will be required.

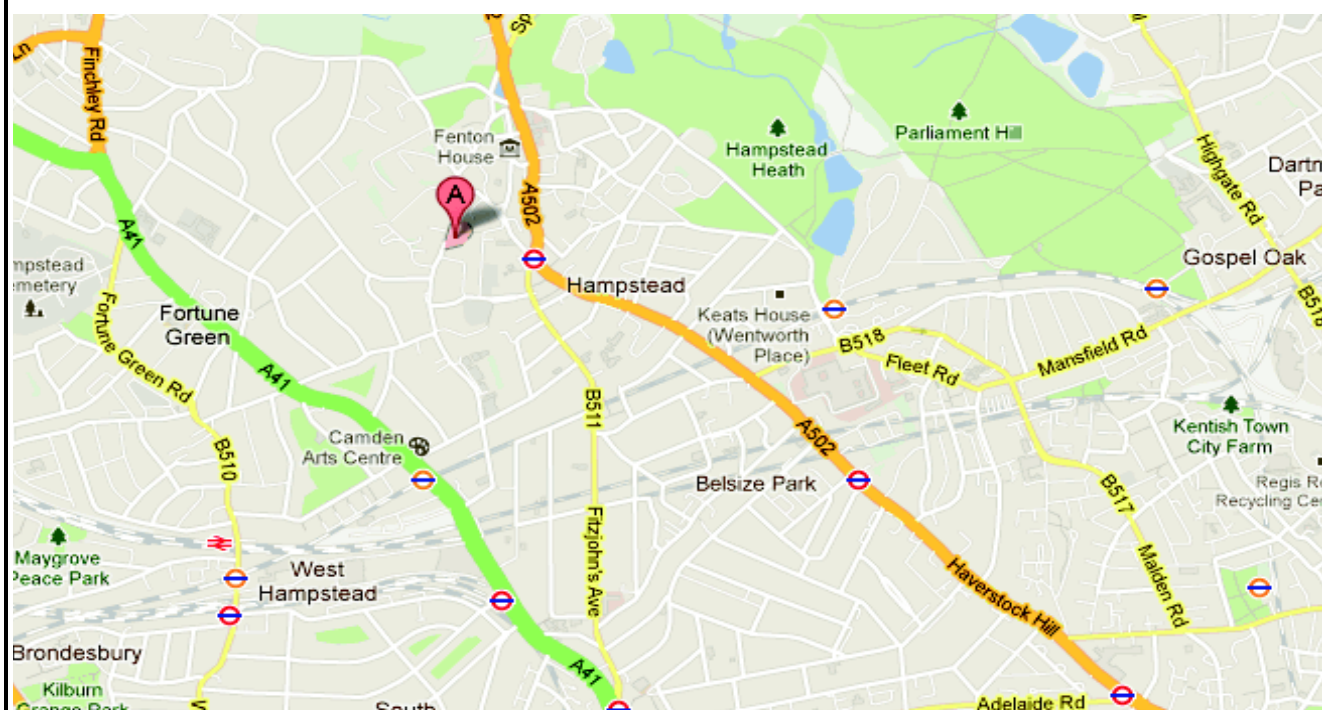
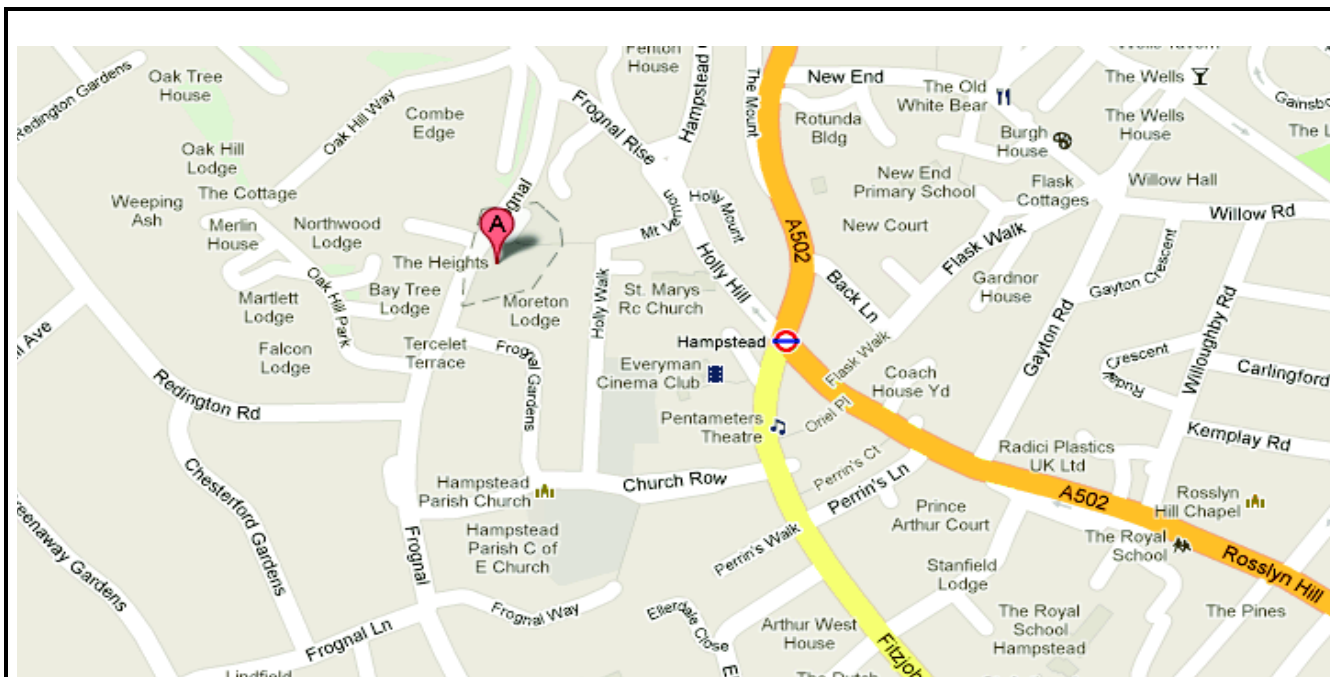
Localised water seepages and associated instability should be anticipated during excavation. Water may pond at the base of excavations. Stability and the ingress of water would be best assessed by means of excavating trial pits on site prior to construction. However, at this stage, it may be assumed that water ingress could be controlled by sumps and pumps.

The construction of a new basement is unlikely to have any detrimental effect on the long term hydrological regime at the site or within the surrounding area.

Yours sincerely
For and on Behalf of GESL

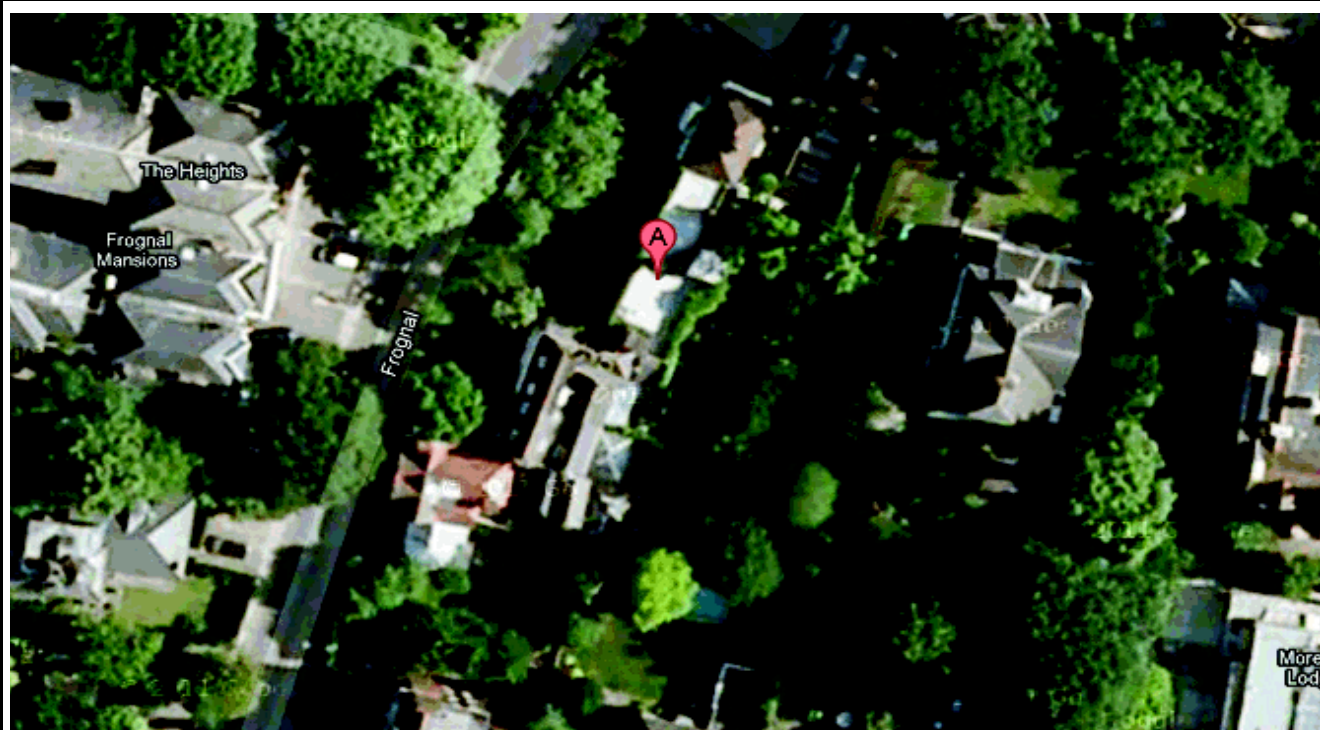


ANTHONY POTTER B.Sc (Hons.), M.Sc., F.G.S.
Senior Geo-Environmental Engineer
Email: anthony@gesl.net



locations are indicative unless dimensions are given

Project:	106 Frognal, London, NW3 6XU		Title	Site Location Plan
Client:	Corner Studio Limited		Geo-Environmental Services Ltd	
Ref No:	GE8535	Revision:	v1	
Drawn:	AP	Date:	19/01/2012	
Figure:	1	Scale:	Not To Scale	
			28 Crescent Road, Brighton, BN2 3RP	
			T: 01273 699 399 F: 01273 699 388	
			E: mail@gesl.net W: www.gesl.net	



Frognal, London, England, United Kingdom
 Address is approximate



Project:	106 Frognal, London, NW3 6XU		Title	Aerial & Street View Imaging
Client:	Corner Studio Limited		Geo-Environmental Services Ltd	
Ref No:	GE8535	Revision:	v1	
Drawn:	AP	Date:	19/01/2012	
Figure:	2	Scale:	Not To Scale	
			28 Crescent Road, Brighton, BN2 3RP	
			T: 01273 699 399 F: 01273 699 388	
			E: mail@gesl.net W: www.gesl.net	

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Enter a postcode or place name:

Other topics for this area...

Risk of Flooding from Rivers and Sea

Map legend

Click on the map to see what is the Risk of Flooding at a particular location.

☒ Flood Maps

Flooding from rivers or sea without defences

Extent of extreme flood

Flood defences

Areas benefiting from flood defences

Main rivers

X: 526,140;Y: 185,827 at scale 1:10,000

[Text only version](#)



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Flood Map – Information Warnings

Manchester Ship Canal

Flood Mapping of the Manchester Ship Canal in Trafford, Salford and Warrington may be subject to revision as a result of representations. For further information please contact the Environment Agency on 03708 506 506.

Users of the Flood Zone Map should be aware that we have received a Judicial review challenge to the mapping of the Manchester Ship Canal at Trafford, Salford and Warrington on the ground that the preparation of the map is flawed in respect of our consideration of the role of the sluice gates in preventing flooding.

We are defending the challenge and believe and are advised that it is ill-founded. Nevertheless, pending determination of the challenge, users of the map need to consider whether the existence of the Challenge, and the basis of it, affects the weight they judge may be given to the zoning of the Manchester Ship Canal within the Flood Map.

More about flooding:

Understanding the flood map

A more detailed explanation to help you understand the flood map shown above.

Current flood warnings

We provide flood warnings online 24 hours a day. Find out the current flood warning status in your local area.

Flood map - your questions answered

Answers to commonly asked questions about the flood map.

creating a better place



Enter a postcode or place name:

Other topics for this area...

Groundwater

Map legend

The map displays the extents of groundwater zones

☐ Groundwater source protection zones [i](#)

- Inner zone (Zone 1)
- Outer zone (Zone 2)
- Total catchment (Zone 3)
- Special interest (Zone 4)

☒ **Aquifer Maps - Superficial Deposits Designation** [i](#)

- Principal
- Secondary A
- Secondary B
- Secondary (undifferentiated)
- Unknown (lakes and landlip)

☐ **Aquifer Maps - Bedrock Designation** [i](#)

- Principal
- Secondary A
- Secondary B
- Secondary (undifferentiated)

☐ **Groundwater Vulnerability Zones** [i](#)

- Major Aquifer High
- Major Aquifer Intermediate
- Major Aquifer Low
- Minor Aquifer High
- Minor Aquifer Intermediate
- Minor Aquifer Low

NW3 6XU at scale 1:75,000

[Text only version](#) [i](#)

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Tell me more

British Geological Survey Aquifer data:

The Aquifer Extents are not displayed at scales greater than 1:75,000 (Ordnance Survey 1:250,000 scale) as the data was only modelled to this level and is not accurate pass this.

New BGS Aquifer Designation Maps

From 1st April 2010 new aquifer designations replace the old system of classifying aquifers as Major, Minor and Non-Aquifer. This new system is in line with our Groundwater Protection Policy (GP3) and the Water Framework Directive (WFD) and is based on British Geological Survey mapping.

Groundwater Source Protection Zones data:

The Source Protection Zones are not displayed at scales greater than 1:20,000 (Ordnance Survey 1:50,000 scale) as the data was only modelled to this level and is not accurate pass this. They should not be compared against field boundaries.

Groundwater Source Protection Zones

Groundwater provides a third of our drinking water. We ensure that your water is safe to drink defining Source Protection Zones. These zones help to monitor the risk of contamination from any activities that might cause pollution in the area.

Facts and figures of our groundwater resources

Find out more about groundwater and groundwater levels.



Enter a postcode or place name:

[Go](#)

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- ☐ Secondary (undifferentiated)

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- ☐ Minor Aquifer Low

NW3 6XU at scale 1:75,000

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☐ Aquifer Maps - Bedrock Designation

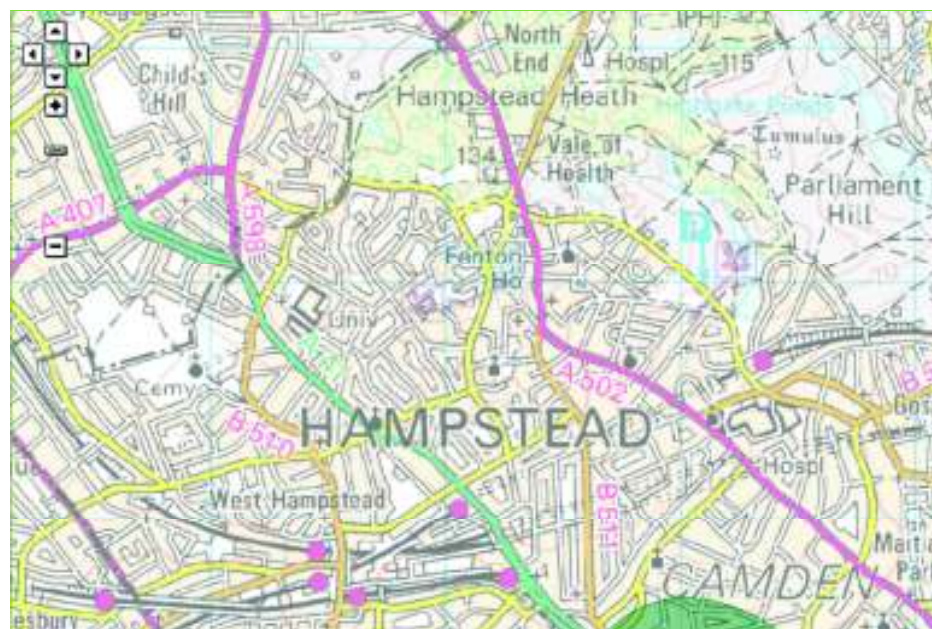
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NW3 6XU at scale 1:20,000

Text only version



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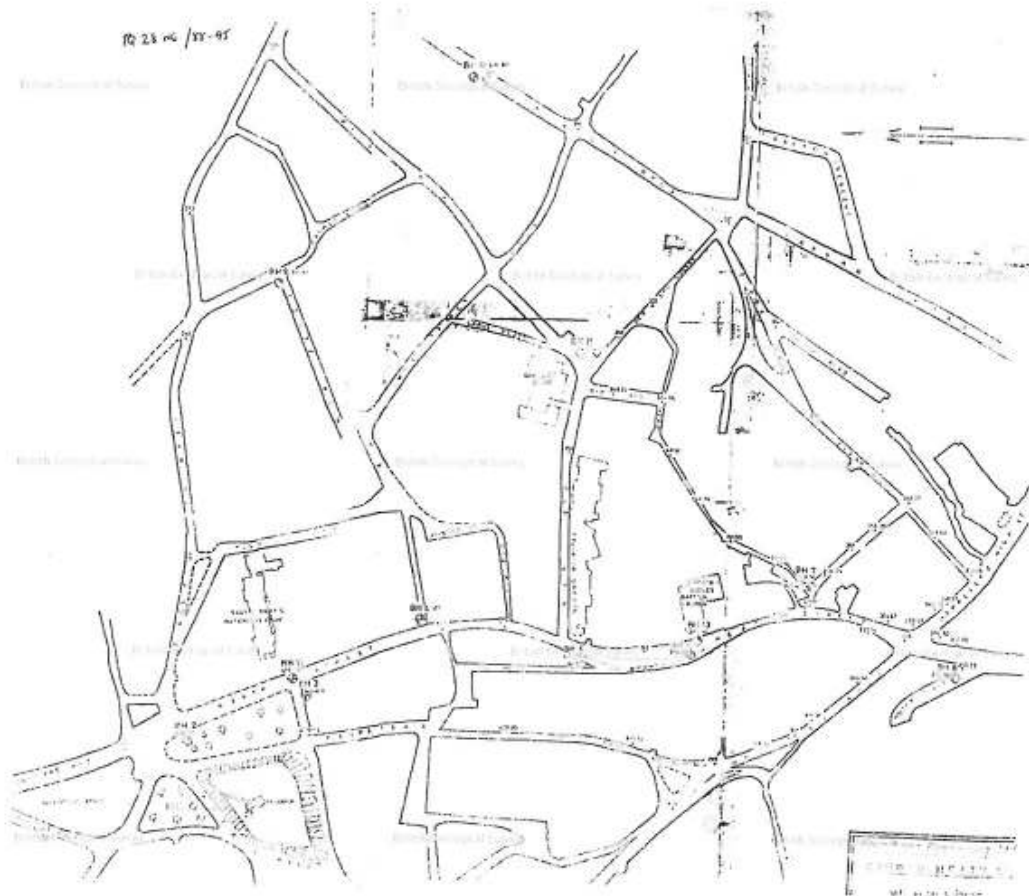


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Page 1 of 8



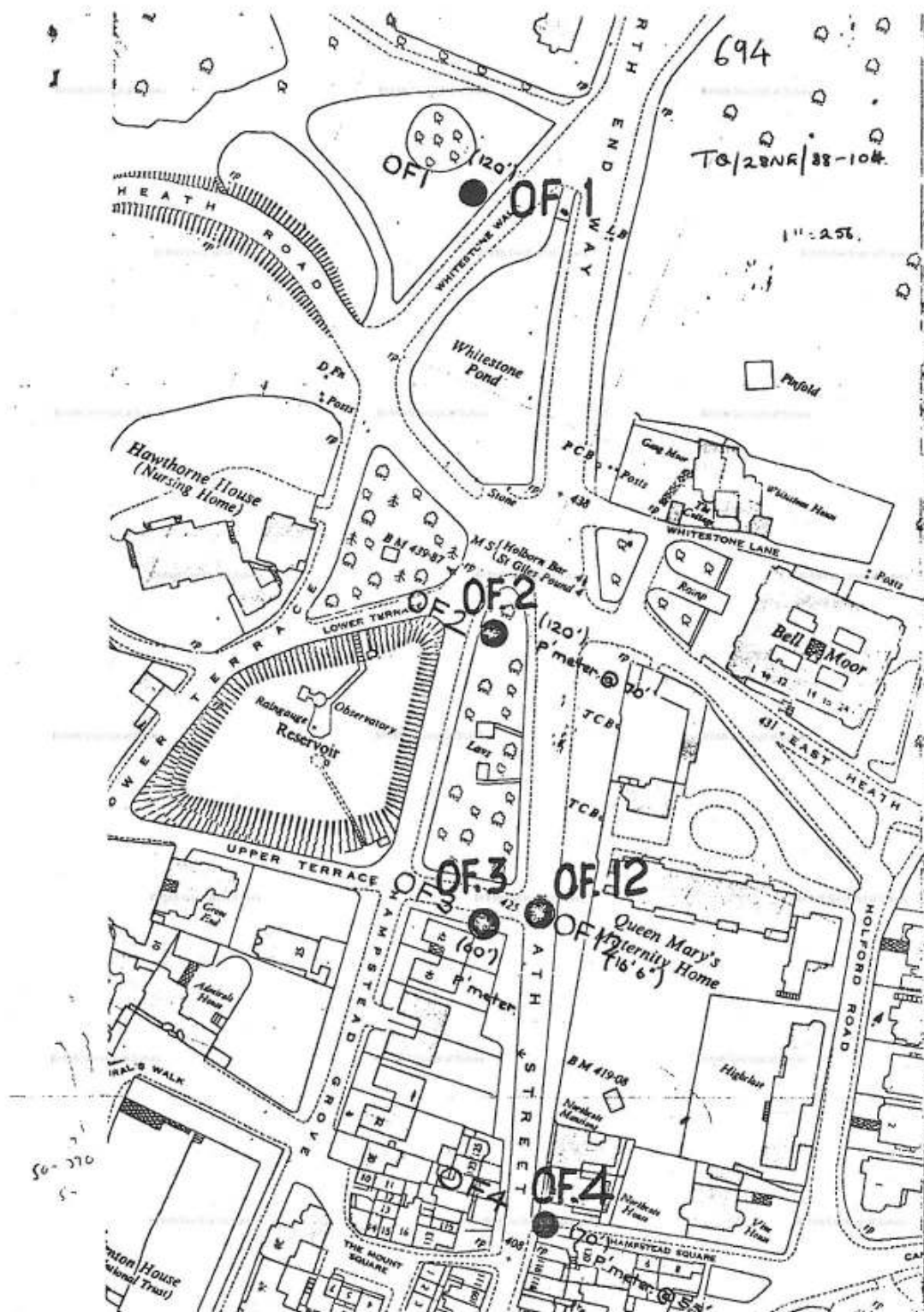


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<< < Prev Page 3 of 8 Next > >>

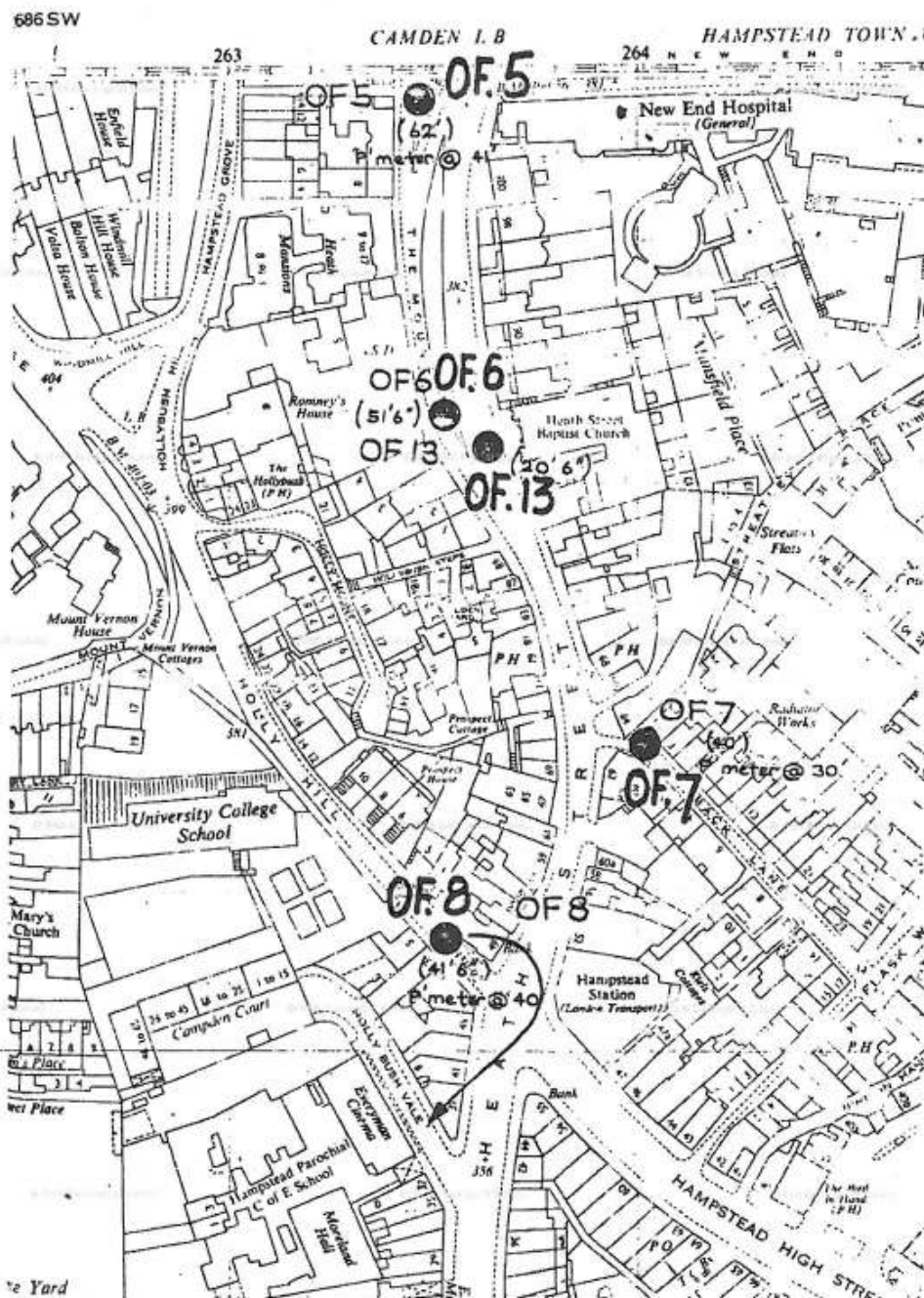
E SURVEY

TQ 28 NE 88 - 104

688 inches to 1 mile

Revised... May 1965
Levelled... 1953

PLA





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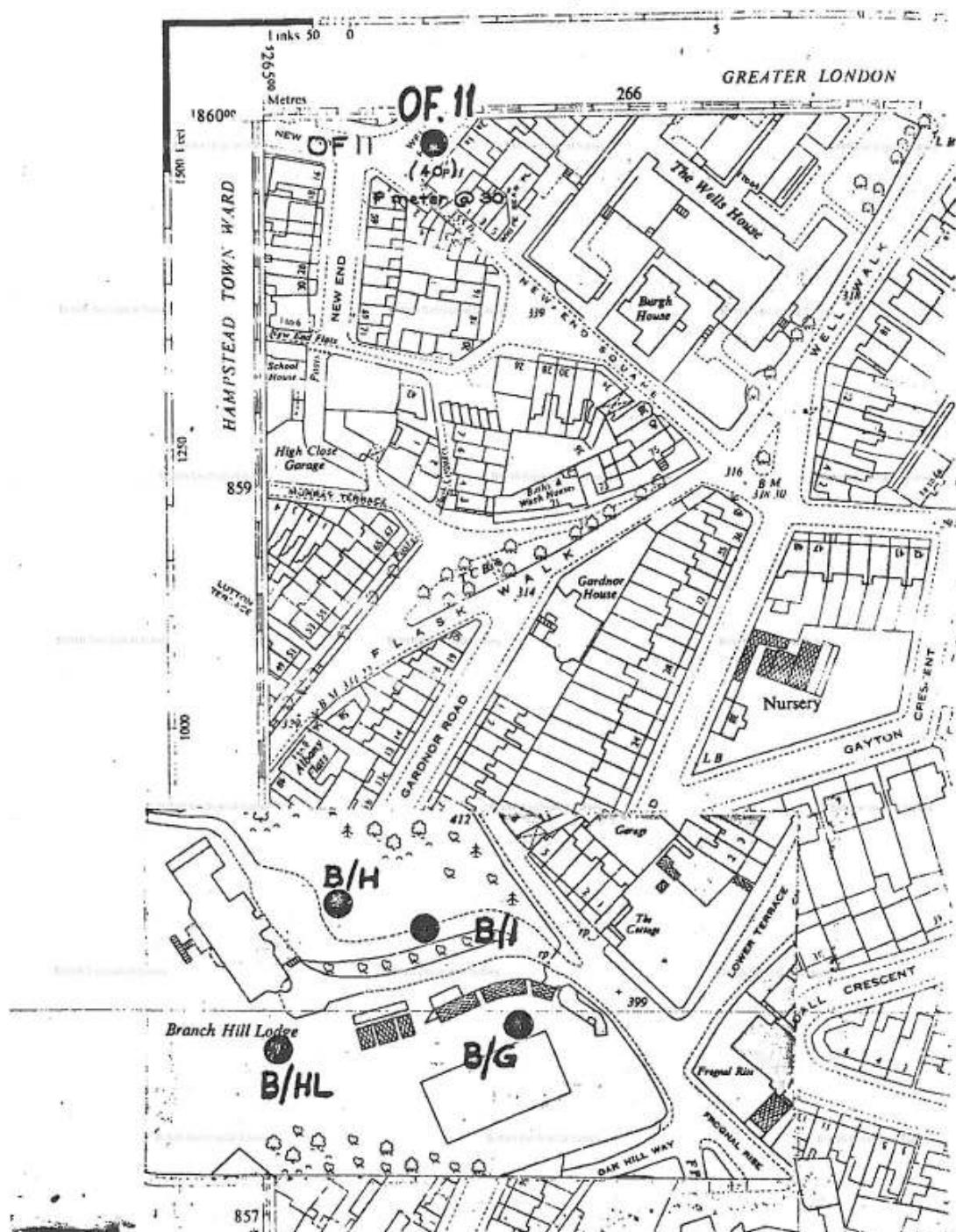
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<< < Prev Page 5 of 8 Next > >>

PLAN TQ2685 NE

TQ 28 NE / 88-95

Sc



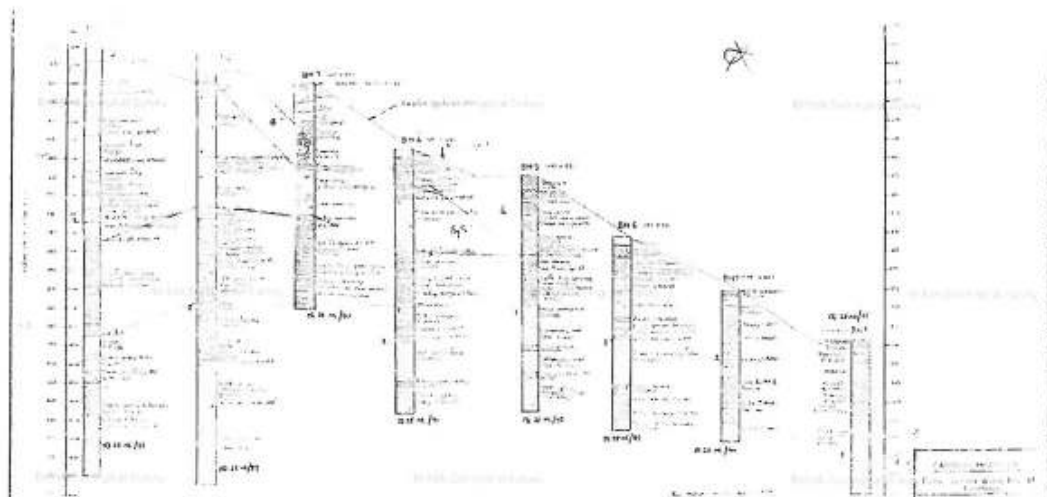


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Report an issue with this borehole

<< < Prev Page 7 of 8 Next > >>

TQ28NE/93
2634.8593. **OF 6**

RECORD OF BOREHOLE No. OF 6

Location: **THE MOUNT/HEATH ST.,
HAMPSTEAD HEATH**

Contract No.: **431**

Type of Boring: **shell + Auger**

Date (started): **16.5.60**

Borehole Dia.: **8"**

Casing: **-**

Ground Level: **386.34'**

Sheet 1 of 2

Depth of casing	Water Level	SAMPLES				STRATA		DESCRIPTION OF STRATA
		Depth	Type	No.	Legend	Depth	Thickness	
	dry							MADE GROUND
		2'6"	D	1			6'0"	dark brown poorly sorted sand, with some clay brick frag. roots & pebbles)
		5'0"	U	2		6'0"		
		7'6"	D	3			5'0"	Firm / stiff brown micaceous CLAY with abundant coarse med. angular sand fragments.
		10'0"	U	4		11'0"		
		12'6"	D	5		12'0"	1'0"	Compact brown sandy CLAY
		15'0"	U	6		15'0"	3'0"	Pale fawn / pale grey CLAY, predominates over a fine SAND or clayey sand.
		17'6"	D	7			7'0"	Orange / brown fine SAND light grey / cream soft CLAY + grey clayey SAND (SAND predominates)
		20'0"	U	8				
		22'6"	D	9		22'0"	1'0"	Stiff cream CLAY predom. over fine SAND
						23'0"	2'0"	Fine brown SAND
		25'0"	D	10		25'0"	2'0"	Soft / firm brown silty sandy CLAY
		(N=3)				27'0"		
		27'6"	D	11		28'0"	1'0"	Soft / firm silty sandy CLAY
		30'0"	D	12				
		(N=25)						
32'0"	4'0"	32'6"	D	13				extremely wet running fine brown silty SAND
32'0"	4'0"							
		35'0"	D	14			12'0"	
		37'6"	D	15				
		40'0" (N=10)	D	16		40'0"		

MARKS: water first met at 29'0" and then again at 47'0"

Foundation Engineering Ltd.



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Report an issue with this borehole

<< < Prev Page 8 of 8 Next > >>

TQ28NE93
2634.8593. **OF 6**

THE MOUNT/HEATH ST,
HAMPSTEAD HEATH

No. : 421

Boring : Shell & Auger

(started) : 16 5/69

RECORD OF BOREHOLE No: **OF 6**

Borehole Dia : 8"

Casing :

Ground Level : 306.34'

Sheet 2 of 2

Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
	Depth	Type	No.	Legend	Depth Thickness	
					40'0	Soft/firm brown silty sandy CLAY
					41'0	
	42'6	D	17			Dark brown silty clayey SAND
					4'0	
	45'0	U	18		45'0	Firm dark grey silty sandy CLAY
	47'6	D	19		4'0	
					49'0	Firm grey silty sandy CLAY
	50'0	U	20		2'6	
					51'6	
				Borehole Complete		

Foundation Engineering Ltd.



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[Report an issue with this borehole](#)

<< < Prev Page 1 of 1  Next > >>

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

Name and Number given by owner:

B 2

For whom made

Town or Village Hampstead County Rock

Exact site Junco's Regallia
and Holly Bush

Purpose for which made Tube boring

Ground Level at shaft relative to O.D. 7.81

Made by

Information from LCC

Examined by _____

(For Survey use only)

6-inch Map Registered No.

TP 28NE / 8

Nat. Grid Reference

2636.8592

1° N.S. Map
No.1' O.S. Map
No.

Confidential
or not

256

Attach a tracing from
a map, or a sketch-
map, if possible.

If not ground level give O.D. of beginning of shaft

Date of sinking 1900

Date received

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only)		DESCRIPTION OF STRATA	THICKNESS		DEPTH		
GEOLOGICAL CLASSIFICATION			FT.	IN.	FT.	IN.	
BB	Bagshot beds	Macadam	1	-		0-0	
		Gravel & clay	2	-	3	- 0-1	
		sand	12	6	15	6 1-2	
		yellow clay	32	6	4-8	- 14-63	
		clay	120	6	168	6 1-36	
CB		light clay in memoir					
1 in Memoir which ? memoir	LC	clayate { sand and stone layers	6'	6'	=	5-9	- 14-46
		beds { blue sandy clay		75'	-	129	- 30-32
		blue clay		20	-	159	- 38-46
		London { blue sandy clay (top bed)		10	-	169	- 31-31
		clay { stiff blue clay (lft. clay)		86	-	205	- 67-48
		loose unreluctant					
		Rose					



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<< < Prev Page 7 of 7 Next > >>

TQ28NE94

2641.8584. OF 7

RECORD OF BOREHOLE NO: OF 7

BACK LANE,
HAMPSHIRE HEATH

No : 431

Logging : Shell + Auger

(started) : 19.5.69

Borehole Dia : 8"

Casing : 6" to 40.0'

Ground Level : 369.350'

Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
	Depth	Type	No	Legend	Thickness	
					1.0'	MADE GROUND + Topsoil
	2.6'	D	1			Light brown fine compact micaceous clayey SAND
	5.0'	U	2		7.0'	(= pale grey CLAY + brown SAND)
	7.6'	D	3		8.0'	Compact golden brown + grey clayey SAND
	10.0'	U	4		10.0'	Firm cream/grey CLAY, predominates over golden brown fine sand.
	12.6'	D	5		14.0'	
	15.0'	U	6			Cream/light grey soft + firm CLAY, + wet very fine brown sand
	17.6'	D	7		9.0'	(= wet mottled micaceous silty sandy clay)
	20.0' (N=16)	D	8		23.0'	(as above)
	22.6'	D	9			
25.0' dry	25.0' (N=19)	D	10		5.6'	darker in colour
25.0' dry	27.6'	D	11		28.6'	Silty SAND predom. over clay bands + lenses.
	30.0'	U	12		6.6'	(= dark grey micaceous silty clayey sand)
	32.6'	D	13		35.0'	(as above)
	35.0'	U	14		5.0'	CLAY content now firm/stiff is very much increased.
40.0'	40.0'	U	16		40.0'	

Borehole Complete.

Water first met at 18.0'

Piezometer installed at 30.0'

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Report an issue with this borehole

<< < Prev Page 7 of 8 Next > >>

TQ28NE/95
2635.8570 OF 8

HOLLY BUSH VALE,
HAMPSTEAD HEATH

No. : 431

Coring : Shell & Auger

(started) : 20.5.69

RECORD OF BOREHOLE No: OF 8

Borehole Dia : 6"

Casing :

Ground Level : 356.863'

Sheet 1 of 2

Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
	Depth	Type	No.	Legend	Thickness	
					2:0	MADE GROUND (Brk Rubble)
	2:6"	D	1		4:0	Mottled grey orange brown & light brown firm slightly sandy CLAY
	5:0	U	2		6:0	
	7:6"	D	3		5:0	Loose dry golden brown fine micaceous SAND (very local soft grey clay pockets)
	10:0	U	4		11:0	
	12:6"	D	5		2:0	Light brown silty soft/firm CLAY & fine orange brown sand.
	15:0	U	6		3:0	Firm brown sandy CLAY
	17:6"	D	7		2:0	Grey silty firm CLAY & fine brown sand.
	20:0	U	8			
	22:6"	D	9			
	25:6"	U	10		23:6	Dark grey stiff silty micaceous CLAY, (locally greenish tinge)
	27:6"	D	11			
	30:0	U	12			
	32:6"	D	13			
	35:0	U	14			
	37:6"	D	15			
4:0	40:0	U	16		40:0	

Water first met at 32:0
Piezometer installed at 40:0

Foundation Engineering Ltd.



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

[Report an issue with this borehole](#)

<< < Prev Page 8 of 8 Next > >>

TQ28NE/95
2135 - 8978. **OF.8**

RECORD OF BOREHOLE No: OFC3

**HOLLY BUSH VALE,
HAMPSTEAD HEATH**

No. : 431
Boring : Shell + Auger
Started : 20.5.69

Borehole Dia : 6"
Casing :
Ground Level : 356.863'

Sheet 2 of 2

Water Level	SAMPLES				STRATA		DESCRIPTION OF STRATA
	Depth	Type	No.	Legend	Depth	Thickness	
					41.6		as on sheet 1.
					Borehole Complete		

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<< < Prev Page 3 of 3 Next > >>

TQ28NE100.
Q636 8591. **OF13**

**HEATH ST./THE MOUNT
HAMPSTEAD HEATH**

Location :
 Plot No. : 431
 Boring : Shell & Auger
 (started) : 28. 5. 69

RECORD OF BOREHOLE No: OF13

Borehole Dia : 6"
 Casing :
 Ground Level : 360.38'

Water Level	SAMPLES				STRATA		DESCRIPTION OF STRATA
	Depth	Type	No.	Legend	Depth	Thickness	
							MADE GROUND (Asphalt & Concrete)
					2:6		
					6:0		Compact very sandy GRAVEL
	6:0	U	1				
	7:0	U	2				
							Firm brown sandy silty CLAY
	11:0	U	3				
	14:0	U	4				
	15:0	U	5				
	17:0	U	6				Med. dense brown SAND
					20:0		
							Borehole Complete

Probable cavity from 9:0 to 11:0

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<< < Prev Page 7 of 8 Next > >>

TQ28NE/91
21388607 **054**

RECORD OF BOREHOLE No. 01-4

Location: **HAMPSTEAD SQUARE,
HAMPSTEAD HEATH** Borehole Dia : 8"

Contract No. : 431 Casing :

Type of Boring : Shell + Auger Ground Level : 407.040'

Date (started) : Sheet 1 of 2

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
		Depth	Type	No.	Legend	Depth		Thickness
						2.0	2.0	MADE GROUND / Topsoil
		2.6	D	1		2.0	2.0	Loose dark brown sandy GRAVEL (up to 1" rounded pebbles)
		5.0 (N=13)	D	2		6.0	2.0	Brown firm sandy CLAY matrix + abundant large fragments, pebbles
7.6	DRY	7.6	D	3		5.6	3.6	Abundant rounded hard 1" pebbles predominates over finer sand matrix.
8.0	DRY	10.0	U	4		10.6	1.0	Firm brown sandy CLAY
		12.6	D	5		12.0	1.6	Compact grey SAND
		15.6	U	6		13.0	1.0	Fine silty clayey SAND
		17.6	D	7				
		20.0 (N=32)	D	8			14.0	Fine dense silty SAND (especially wet towards base)
		22.0	D	9				
		25.0 (N=31)	D	10		27.0	1.0	Stiff/hard grey CLAY + little fine sand.
		27.6	D	11		28.0		
15.6	30.0	30.0	U	12			4.0	Firm brown sandy CLAY
8.0		32.6	D	13		32.0		mottled brown, fawn mixture soft/firm silty CLAY + fine sand.
		35.0	U	14			9.0	(. Silty clayey SAND)
		37.6	D	15				
		40.0	U	16		40.0		

REMARKS:

SCALE 1"=5'

Foundation Engineering Ltd.



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<< < Prev Page 8 of 8 ▾ Next > >>

TD/12NR/191
 R435.8604 **OF.4**

HAMPSTEAD SQUARE,
HAMPSTEAD HEATH

Location : **HAMPSTEAD HEATH**

Contract No. : **431**

Type of Boring : **Shell + Auger**

Date (started) : **0. 5. 65**

RECORD OF BOREHOLE No. 4

Borehole Dia : **8"**

Casing :

Ground Level : **407.048'**

Sheet 2 of 2

Date	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
			Depth	Type	No.	Legend	Depth		Thickness
								more sandy.	
			42:6	D	17		40:0 41:0 42:0	1:0	Compact brown SAND
			45:0	D	18			5:0	Silty clayey SAND (as D13+15)
			47:6	D	19		47:0 48:0	1:0	Golden brown/grey clayey SAND
30/10/65	46:0 DRY 48:0 DRY		50:0	U	20			3:0	Firm grey / brown sandy CLAY
			52:6	D	21			51:0	
			55:0	D	22				Wet running silty micaceous brown fine compact SAND
			57:6	D	23			11:0	
			60:0 (N. 64)	D	24				
			62:6	D	25		62:0 63:0	1:0	Gray micaceous firm silty CLAY, predom. over brown fine SAND
			65:0	U	26				
			67:6	D	27			7:0	Dark grey micaceous silty SAND
00/11/65	70:0 15:0		70:0	U	28		70:0		
						Borehole Complete			

REMARKS: Piezometer installed at 55:0

Scale 1" = 5'

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<< < Prev Page 1 of 1 Next > >>

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

(For Survey use only)

6-inch Map Registered No.

TQ 28NE / 8

Name and Number given by owner:

B 2

Nat. Grid Reference

2636.9592

For whom made

Town or Village

Hampstead

County

Exact site

Juniper & Reginald
and Hally Bush

Attach a tracing from
a map, or a sketch-
map, if possible.

1" N.S. Map
No.

256

1" O.S. Map
No.

Confidential
or not

Purpose for which made

Tube boring

Ground Level at shaft
bore

relative to O.D. 4.81

If not ground level give O.D. of beginning of shaft
bore

Made by

Date of sinking

1900

Information from

LCC

Date received

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only)
GEOLOGICAL
CLASSIFICATION

DESCRIPTION OF STRATA

THICKNESS

DEPTH

Ft.

IN.

Ft.

IN.

BB	Bagnhor Beds	{	Macadam	1	-		0.10
			Gravel & Clay	2	-	3	0.91
			Sand	12	6	15	6.172
			Yellow clay	32	6	48	9.43
			clay	120	6	168	65.36
CB			light clay in memoir				
LC	1 in Memoir which ? mental	{	clayate { Sand and stone layers	6'	6'	5.9	16.46
			beds { Blue sandy clay	75'	-	129	32.32
			Blue clay	20	-	159	58.46
			London { Blue sandy clay (top bed)	10	-	169	51.11
			clay { stiff blue clay	86	-	205	62.48
			loam unreluctant				
			Pos				

G.W.B. Ltd. Gp. 843



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Report an issue with this borehole

<< < Prev Page 7 of 8 Next > >>

TD/28NE/96
2632.8615
OF.3

RECORD OF BOREHOLE No: 0F3

Location: **UPPER TERRACE, HAMPSTEAD HEATH** Borehole Dia : 8"

Contract No. : 431 Casing :

Type of Boring : Shell & Auger Ground Level : 433.425'

Date (started) : 20.4.69

Sheet 1 of 2

Depth of Casing	Water Level	SAMPLES				STRATA		DESCRIPTION OF STRATA
		Depth	Type	No.	Legend	Depth	Thickness	
		2:0	D	1		5:0		Loose sandy GRAVEL brown (fine med. + coarse SAND + frequent larger (1/2") rounded pebbles)
		5:0	D	2		5:0		minute amounts of clayey material
		7:0	D	3		7:0	2:0	Brown micaceous fine wet firm SAND
		10:0 (N-106)	D	4		3:0		Golden brown fine micaceous firm SAND local larger fragments
		12:0	D	5		11:0		Large mainly 1" pebbles
		15:0 (N-143)	D	6		4:0		v. loose poorly sorted SANDY matrix (fine med. coarse)
		17:0	D	7		15:0		Very coarse sandy GRAVEL
		20:0 (N-109)	D	8		7:0		Large rounded extremely hard 1" pebbles
		22:0	D	9		22:0		matrix is v. wet poorly sorted SAND
23:0	23:0 DRY	25:0 (N-62)	D	10		23:0	0:0	orange/brown coarse sandy GRAVEL
23:0	23:0 DRY	27:0	D	11		12:0		Firm pale grey micaceous CLAY predominates over micaceous brown sand
		30:0	D	12				Pale brown fine soft wet micaceous SAND
		32:0	D	13				local very soft creamy pale grey CLAY pockets
		35:0	D	14		35:0		local orange/brown iron staining
		37:0	D	15				Fawn/brown firm micaceous silty sandy CLAY
		40:0 (N-51)	D	16		40:0		All the sand are fairly dense compact firm

Remarks: Piezometer installed.

Scale 1" = 5'

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NATURAL ENVIRONMENT RESEARCH COUNCIL

Report an issue with this borehole

<< < Prev Page 8 of 8 Next > >>

TQ28NE90 OF 3
2632.8615
RECORD OF BOREHOLE No. OF 3

Location: UPPER TERRACE, HAMPSTEAD HEATH
Contract No.: 431
Type of Boring: Shell + Auger
Date (started): 29.4.69

Borehole Dia: 8"
Casing:
Ground Level: 433.425'

Sheet 2 of 2

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
		Depth	Type	No.	Depth	Thickness	
41'0"	DRY				40'0"		
41'0"	5'0"	42'0"	D	17	42'0"	2'0"	Stiff grey micaceous CLAY, predominates over sandy brown clay
45'0"		45'0"	D	18	45'0"		
		47'0"	D	19			
45'0"	DRY	50'0"	D	20			Orange brown/brown soft/firm grey pale CLAY with fine loose clayey sand and SAND predominates, overall is a soft/firm sandy CLAY, i.e. clayey sand
45'0"	DRY	52'0"	D	21	15'0"		
		55'0"	D	22			
		57'0"	D	23			
45'0"	DRY	60'0"	D	24	60'0"		
							Borehole Complete

REMARKS:

SCALE 1" = 5'

Foundation Engineering Ltd.

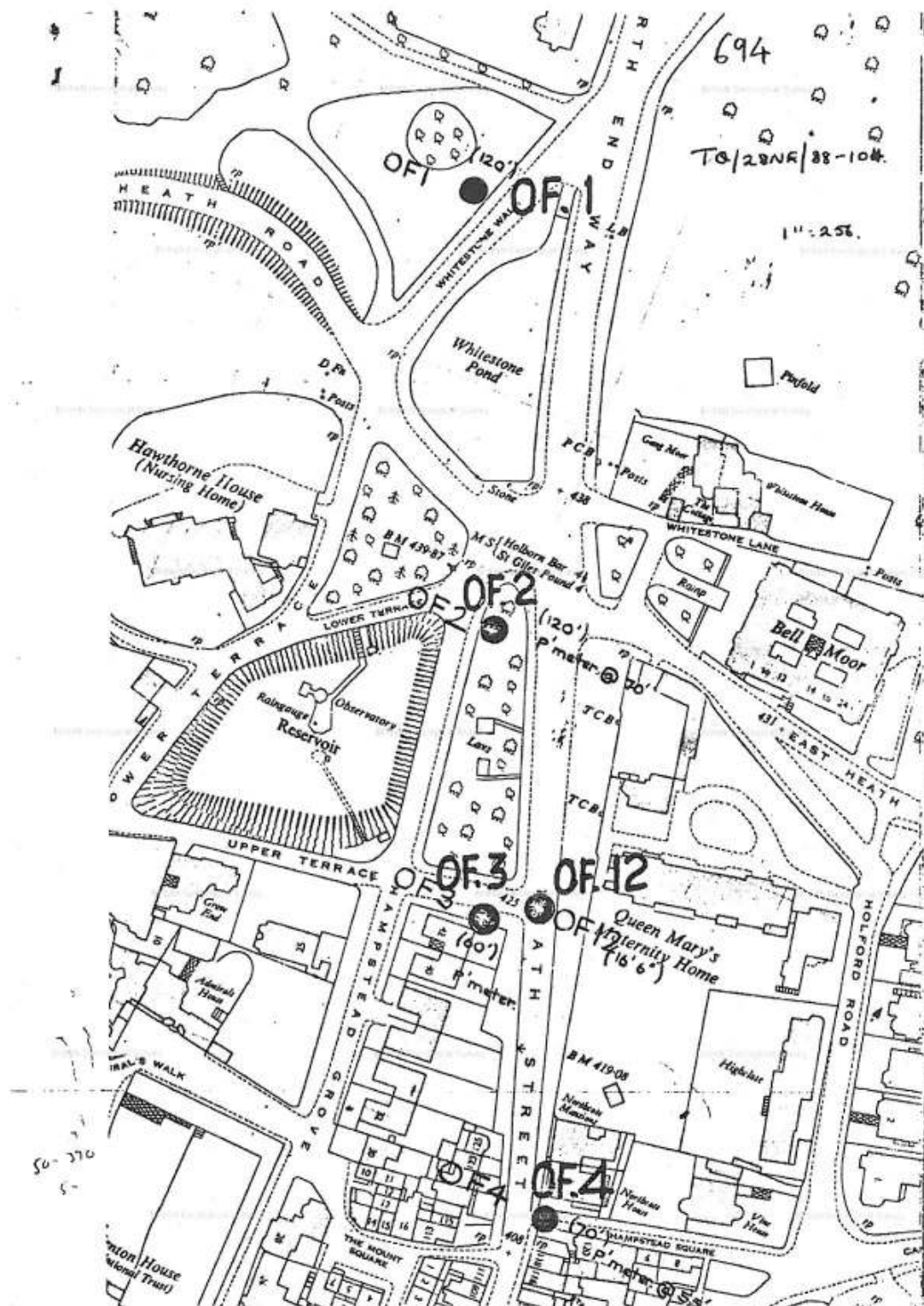


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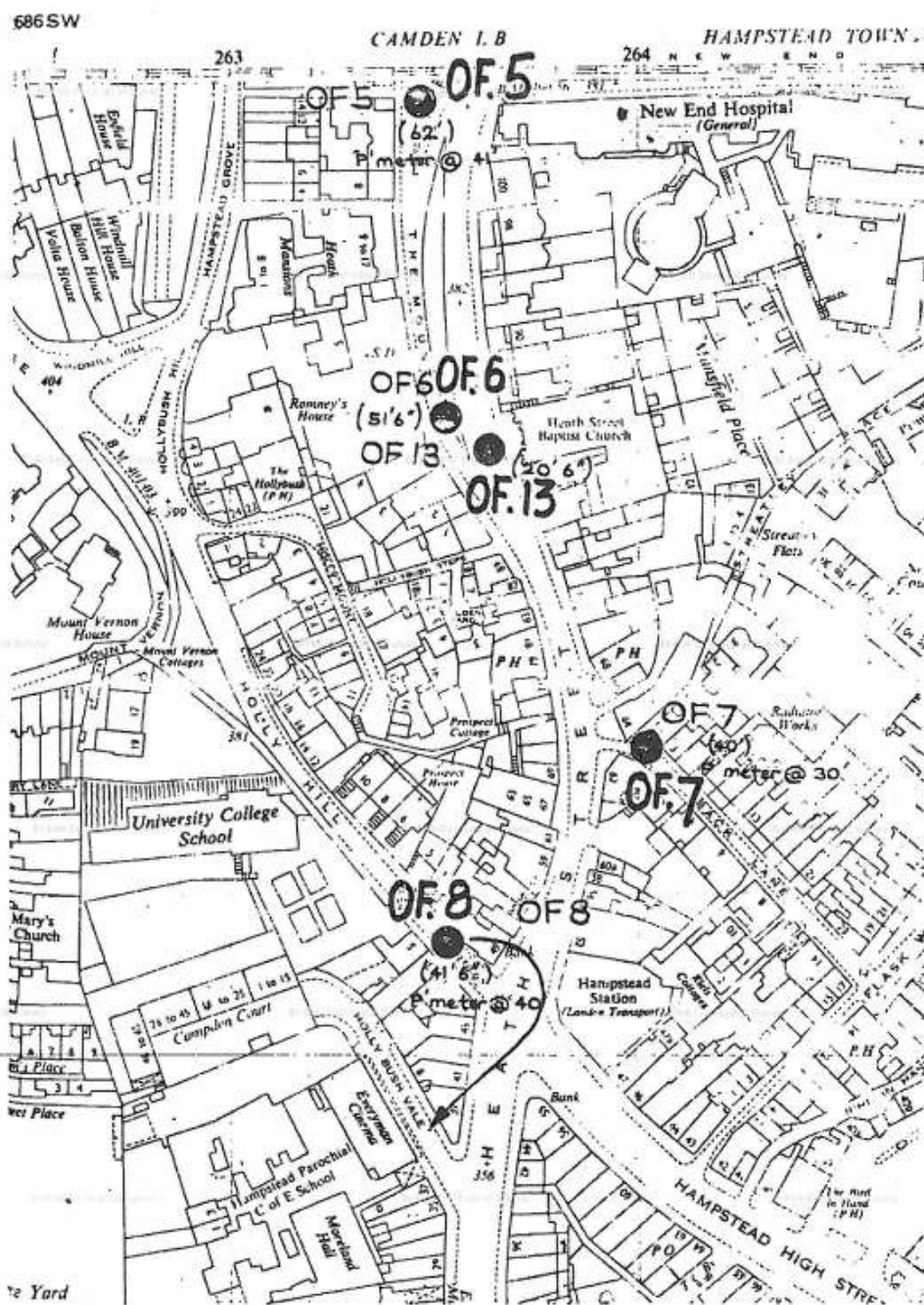
E SURVEY

TQ 28 NE 88 - 104

688 inches to 1 mile

Revised... May 1965
Levelled... 1953

PLA





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<< < Prev Page 3 of 3 Next > >>

B/1 (1965)
Height 405.08 O.D.

	Thickness (ft)	Depth (ft)	
Top Soil	$\frac{1}{2}$		
Brown sand with stones	$4\frac{1}{2}$	$\frac{1}{2}$	
Brown sandy mottled clay	$4\frac{1}{2}$	$4\frac{1}{2}$	
Firm brown clay with layers of sand	32	9	
Very sandy brown clay	$8\frac{1}{2}$	41	
Silt with layers of silty clay	11	$49\frac{1}{2}$	
Soft brown mottled silty clay	$2\frac{1}{2}$	$60\frac{1}{2}$	
Silt with layers of silty clay	8	63	CB
Firm silty blue clay	11	71	CB
Hard blue clay with layers of sand	$37\frac{1}{2}$	82	
	<u>119$\frac{1}{2}$</u>		

B/HL (1968)

	Thickness (ft)	Depth (ft)	
Dirty sand	4		
Silty clayey sand	38	4	
Silty grey clay	2	42	
Silty sand	6	44	BA
Grey silt (liquid)	10	50	
Grey clay	10	60	CB
	<u>70</u>		

KEY PLAN AT BACK OF REPORT.



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<< < Prev Page 3 of 3 Next > >>

LT3 Junction of Hampstead High Street and Heath Street.
Height 344 ft. O.D.

	Thickness (ft)	Depth (ft)
Concrete	2½	
Rubble, bricks & stones	6½	2½
Brown loamy clay	5½	
Blue clay	12½	14½
Blue sandy clay	50½	27½
	<u>78</u>	

London Clay **NO KEY PLAN**
(Station tunnel intrados 177 ft. below ground level).

BOREHOLES SUNK AT BRANCH HILL LODGE

B/G (1951)

Height 381.99 ft. O.D.

TQ28NE/101
2610.8604.

	Thickness (ft)	Depth (ft)
Made ground	4	
Brown sandy clay	4	4
Loamy sand	1	8
Brown sandy clay	6	9
Grey sandy clay	3	15
Brown sandy clay	12	18
Blue sandy clay	6	30
	<u>36</u>	

M.L.
C.B.

B/H (1951)

Height 427.44 ft. O.D.

TQ28NE/102.
2605.8608.

	Thickness (ft)	Depth (ft)
Soil and stones	6	
Brown sandy clay	4	6
Sandy clay and pebbles	6	10
Brown sandy clay	5½	16
Loamy sand	8½	21½
Brown sandy clay	7	30
White loamy sand	3	37

C.B.



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NATURAL ENVIRONMENT RESEARCH COUNCIL

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<< < Prev Page 3 of 3 Next > >>

6/1 (1965)
Height 405.08 O.D.

	Thickness (ft)	Depth (ft)	
Top Soil	$\frac{1}{2}$		
Brown sand with stones	$4\frac{1}{2}$	$\frac{1}{2}$	
Brown sandy mottled clay	$4\frac{1}{2}$	$4\frac{1}{2}$	
Firm brown clay with layers of sand	32	9	
Very sandy brown clay	$8\frac{1}{2}$	41	
Silt with layers of silty clay	11	$49\frac{1}{2}$	
Soft brown mottled silty clay	$2\frac{1}{2}$	$60\frac{1}{2}$	
Silt with layers of silty clay	8	63	BB
Firm silty blue clay	11	71	CB
Hard blue clay with layers of sand	$37\frac{1}{2}$	82	
	<u>119$\frac{1}{2}$</u>		

B/HL (1968)

	Thickness (ft)	Depth (ft)	
Dirty sand	4		
Silty clayey sand	38	4	
Silty grey clay	2	42	
Silty sand	6	44	BB
Grey silt (liquid)	10	50	
Grey clay	10	60	CB
	<u>70</u>		

KEY PLAN AT BACK OF REPORT.



**British
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NATURAL ENVIRONMENT RESEARCH COUNCIL

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LT3 Junction of Hampstead High Street and Heath Street.
Height 344 ft. O.D.

	Thickness (ft)	Depth (ft)
Concrete	2½	
Rubble, bricks & stones	6½	2½
Brown loamy clay	5½	
Blue clay	12½	14½
Blue sandy clay	50½	27½
	<u>78</u>	

X

London Clay **NO KEY PLAN**
(Station tunnel intrados 177 ft. below ground level).

BOREHOLES SUNK AT BRANCH HILL LODGE

B/G (1951)
Height 381.99 ft. O.D.

TQ28NE/101
2610.8604.

	Thickness (ft)	Depth (ft)
Made ground	4	
Brown sandy clay	4	4
Loamy sand	1	8
Brown sandy clay	6	9
Grey sandy clay	3	15
Brown sandy clay	12	18
Blue sandy clay	6	30
	<u>36</u>	

MLL
C. 8

B/H (1951)
Height 427.44 ft. O.D.

TQ28NE/102.
2605.8608.

	Thickness (ft)	Depth (ft)
Soil and stones	6	
Brown sandy clay	4	6
Sandy clay and pebbles	6	10
Brown sandy clay	5½	16
Loamy sand	8½	21½
Brown sandy clay	7	30
White loamy sand	3	37

c. 8

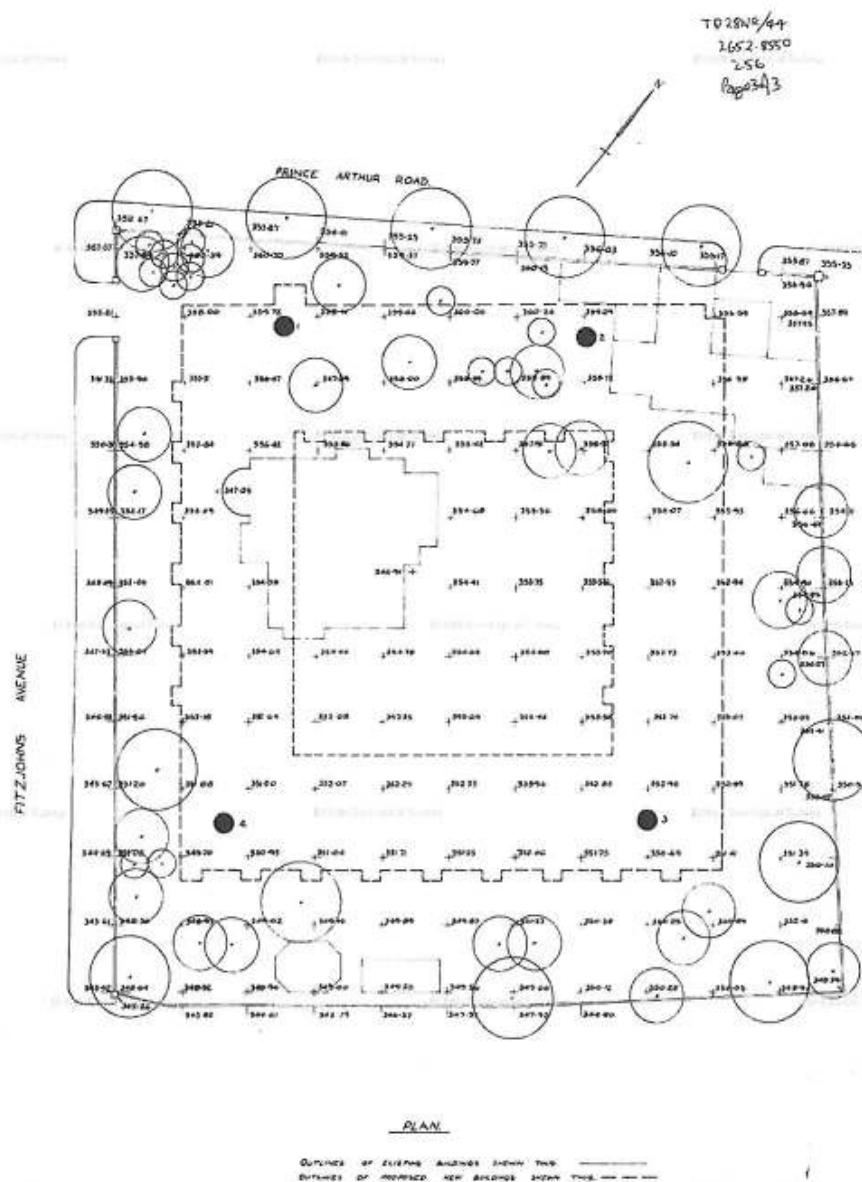


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<< < Prev Page 2 of 3 Next > >>



CHARLES E. JACOB
A.R.I.B.A.
CHARTERED ARCHITECT

HOUSING ARCHITECT

TELEPHONE: HAMPSTEAD 311/EXT. 131

BOROUGH OF HAMPSTEAD.

YOUR REF.....

MY REF.....MH/PA.....P/43

HOUSING ARCHITECT'S DEPARTMENT,

222, HAVERSTOCK HILL,

N.W.3.

11th December, 1963.

The Director,
Geological Survey & Museum,
Exhibition Road,
South Kensington, S.W.7.

Dear Sir,

102, Fitzjohn's Avenue N.W.3.

I refer to Circular No.18/62 from the Ministry of Housing and Local Government and enclose copies of the following documents, for your information, giving details of the trial boreholes that were sunk on this site during July 1963:-

1/1250 O.S. Sheet showing the location of the site
Drawing No.899/4 showing the position of the boreholes on the site.

The following deposits were encountered in the boreholes:-

No.1 Boring	Thickness	Depth below surface.
Topsoil	3'0"	3'0"
Brown fine sand with a little silt and small clay pockets	14'0"	17'0" 1342
Stiff to very stiff laminated grey sandy clay and brown silty fine sand	13'0"	30'0"
Total from surface	30'0"	30'0"
No.2 Boring		
Made ground (sand, ashes, stones etc.)	2'0"	2'0"
Yellow/brown fine sand with a little silt and small clay pockets	15'6"	17'6" 1343
Stiff laminated grey sandy clay and orange/brown silty fine sand	12'6"	30'0"
Total from surface	30'0"	30'0"

/contd:



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<< < Prev Page 3 of 3 Next > >>

TQ28NE/44
2652 8550

256.

Continuation Sheet No.1. Page 2 of 3

The Director,
Geological Survey & Museum

<u>No.3 Boring</u>		<u>Thickness</u>	<u>Depth below surface.</u>
425100 ? (+ 106.98...)			
Bry. bed Beds	Topsoil	2'6"	2'6"
	Stiff laminated grey sandy clay and brown silty fine sand	11'6"	14'0"
	Yellow/brown silty fine sand, clayey at some levels	19'0"	33'0"
	Coarsely laminated grey sandy clay and orange/brown silty sand	4'0"	37'0"
Clayey Beds	Brown silty very fine sand with trace of clay	3'0"	40'0"
	Total from surface	40'0"	40'0"

No.4 Boring

Made ground (clayey sand, gravel, topsoil, etc.)	3'6"	3'6"
Sandy clay with stones	1'0"	4'6"
Firm to stiff laminated grey sandy clay and silty fine sand	15'6"	20'0"
Total from surface	20'0"	20'0"

Yours faithfully,

B.L. Jacob

Housing Architect.

Encls:

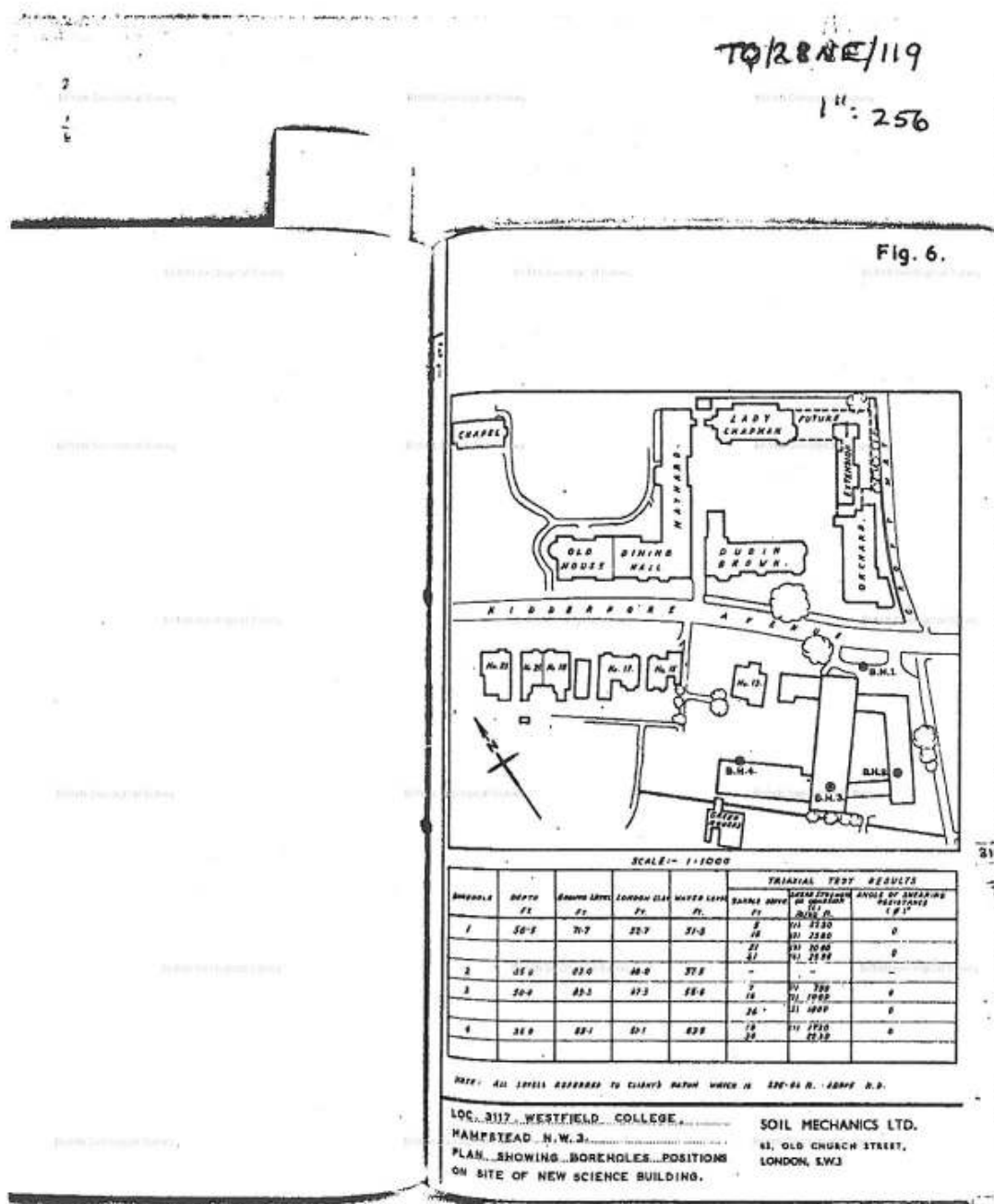


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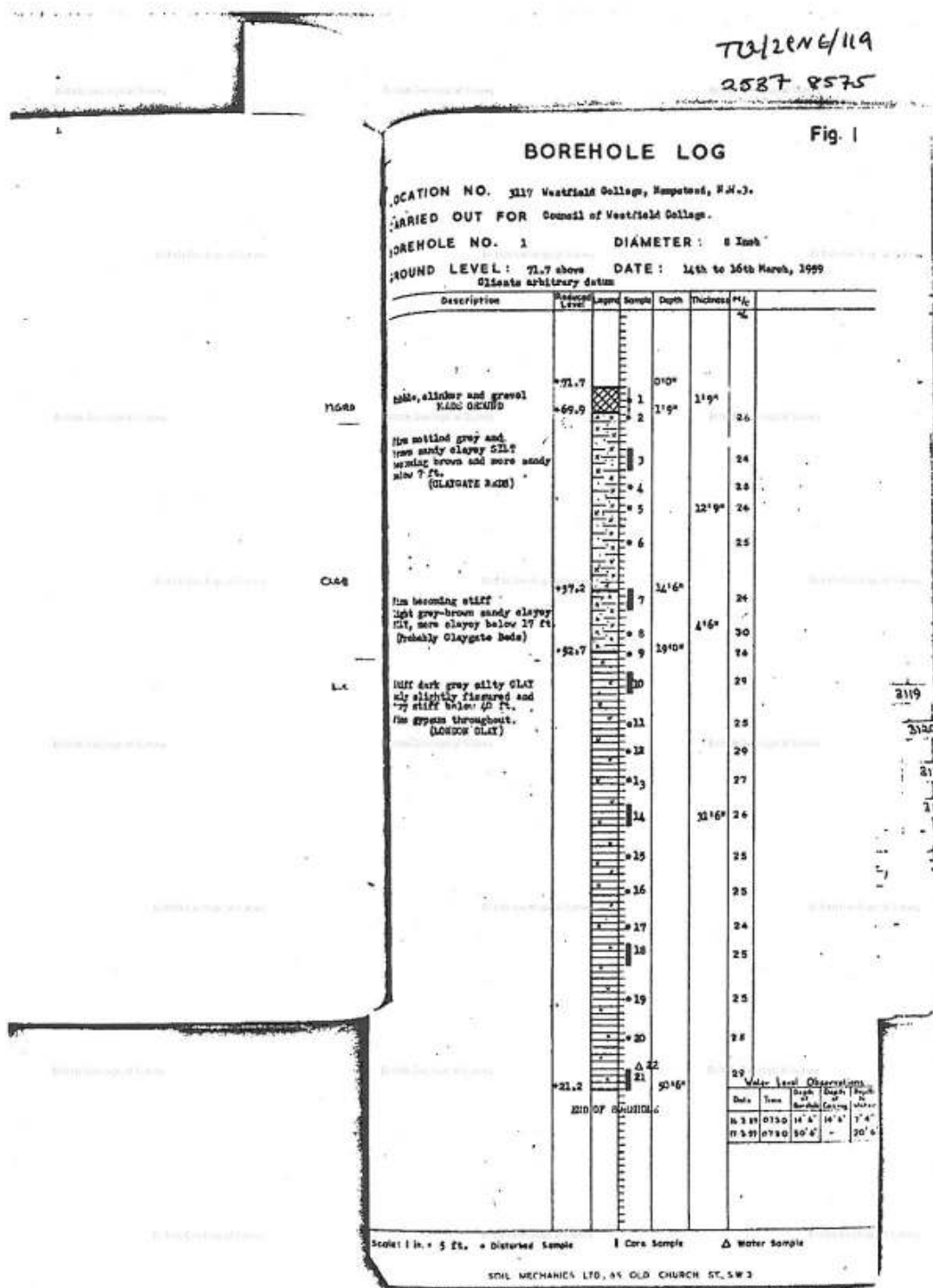


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<< < Prev Page 2 of 5 Next > >>



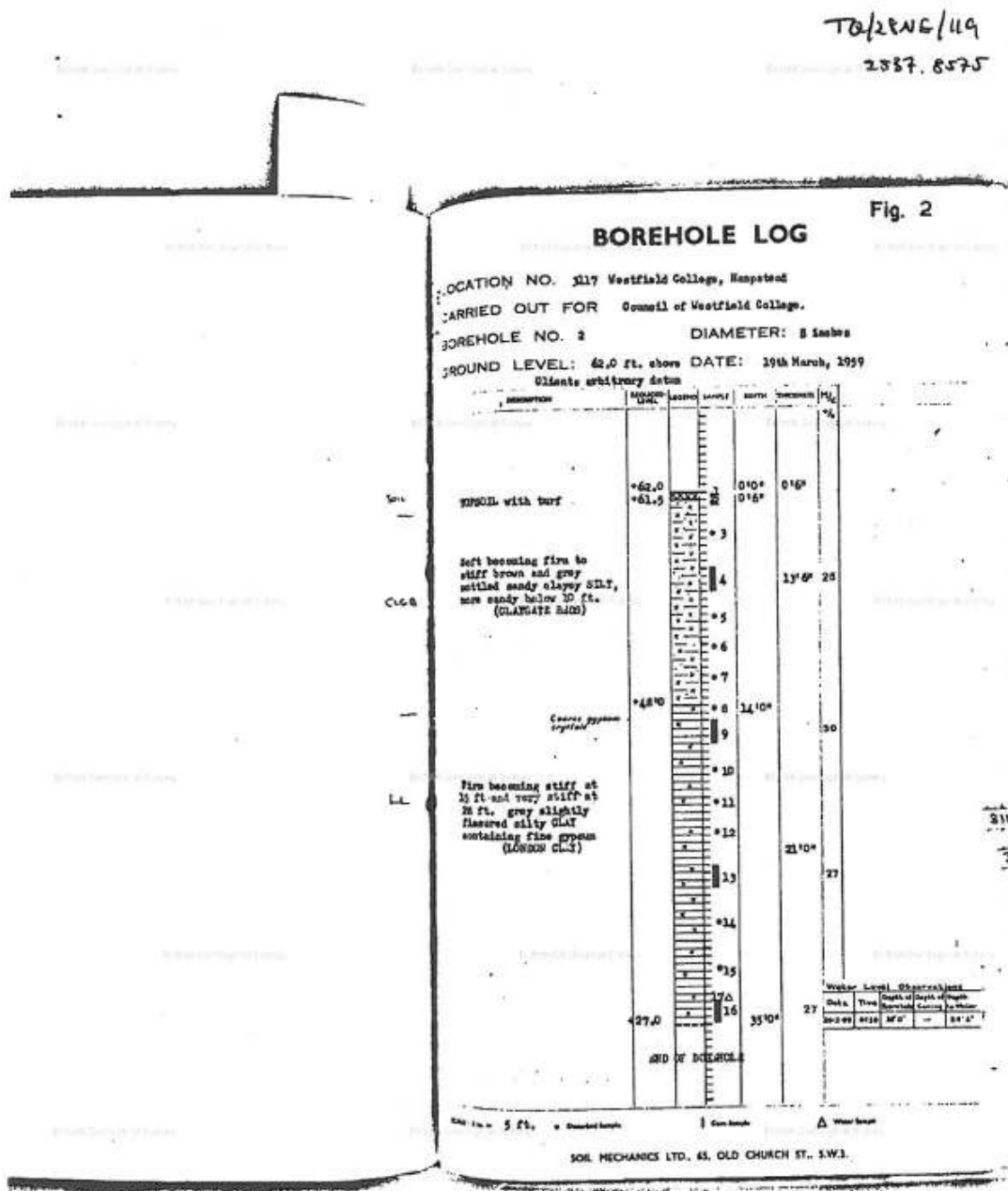


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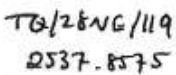
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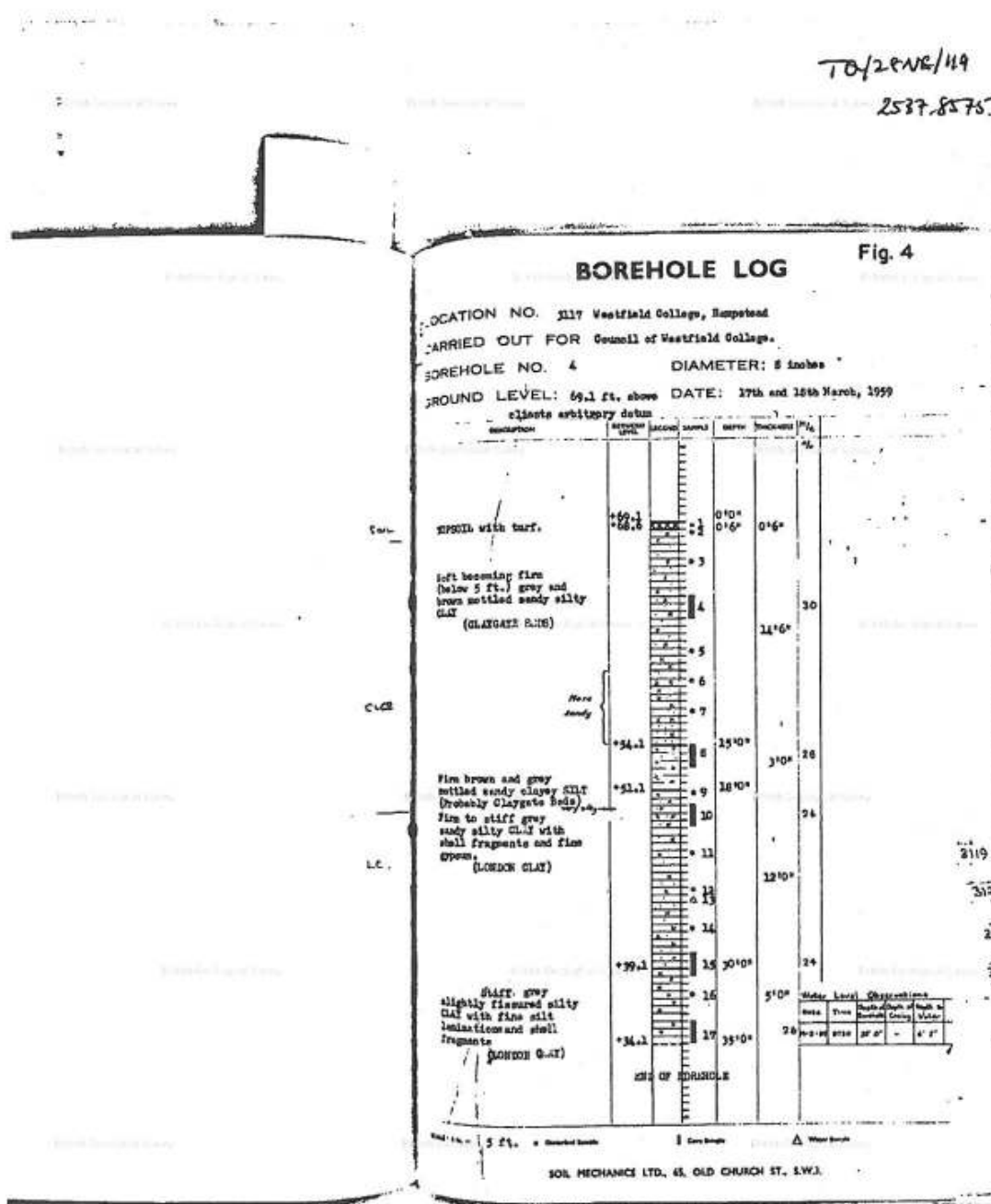


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TQ28NE/88

2624 8635

OF 1

RECORD OF BOREHOLE No. OF 1

Location: WHITESTONE WALK,
HAMPSTEAD HEATH

Contract No.: 431

Type of Boring: Shell & Auger

Date (started): 21.4.69

Borehole Dia: 8"

Casing:

Ground Level: 439.602'

Sheet 1 of 3

Depth of Casing	Water Level	SAMPLES				STRATA		DESCRIPTION OF STRATA
		Depth	Type	No	Legend	Depth	Thickness	
1.5	DRY					1.5	1.5	TOPSOIL
2.0		2.0	D	1		3.3	3.3	Very loose sandy GRAVEL, frequent larger (1/2") rounded fragments local small grey soft clay pockets.
5.0	DRY	5.0 (N=120)	D	2		5.0	5.0	Wet orange/brown compact fine SAND, local larger (1/8") angular frag. Local soft pale grey clay pockets.
7.0		7.0	D	3		7.6	7.6	
10.0		10.0 (96 for 1/3)	D	4				
12.0		12.0	D	5				Compact drier fine brown SAND, slightly micaceous.
15.0		15.0 (108 for 1/3)	D	6				Local soft pale grey/cream silty clay pockets.
17.0		17.0	D	7				Local iron stained patches.
20.0		20.0 (N=96)	D	8				
22.0		22.0	D	9				
23.0	DRY	23.0	D	10		23.6	23.6	Fine dry brown SAND, local small grey soft clay pockets. Local iron staining.
25.0	DRY	25.0 (N=76)	D	11		27.6	27.6	
27.0		27.0	D	12				Fine dry brown SAND abundant small laminated zones soft/firm pale grey clays.
30.0		30.0 (N=100)	D	13				Local orange/brown iron staining.
32.0		32.0	D	14				
35.0		35.0	D	15				
37.0		37.0	D	16		37.6	37.6	Wet compact brown fine micaceous SAND, local brown iron staining.
40.0	DRY	40.0 (N=88)	D	17		40.0	40.0	

MARKS:

Test Pit down to 3.6'

Foundation Engineering Ltd.



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NATURAL ENVIRONMENT RESEARCH COUNCIL

Report an issue with this borehole

<< < Prev Page 8 of 9 Next > >>

TQ/28NE/88
2624.8630 DE.1

RECORD OF BOREHOLE No. CF-1

Location: WHITESTONE WALK,
HAMPSTEAD HEATH

Contract No.: 431

Type of Boring: Shell Auger

Date (started):

Borehole Dia: 8"

Casing:

Ground Level: 439.602'

Sheet 2 of 3

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
		Depth	Type	No.	Depth	Thickness	
30.0	DRY				40.0		Wet compact brown fine micaceous SAND
		42.6	D	17	42.6	1.6	Firm grey homogenous CLAY
		45.0	D	18	43.6		Wet fine brown micaceous SAND, v. slightly clayey
		47.6	D	19	47.6	4.0	local soft grey/cream clays, abundant orange/brown iron staining
50.0	DRY	50.0	D	20	51.0	5.6	Richer brown fine SAND abundant small lenses, pockets pale grey/cream soft/firm silty clays.
50.0	DRY	52.6	D	21			Wetish compact fine brown micaceous SAND
55.0	DRY	55.0	D	22		6.0	
		57.6	D	23	57.0	0.6	Soft clay predominant over loose fine SAND
55.0	54.0	60.0	D	24	57.6		
		62.6	D	25			
		65.0	D	26			Mixture of softish pale grey/cream CLAY, and fine orange/brown SAND micaceous.
		67.6	D	27		22.6	Overall is soft silty clayey SAND
		70.0	D	28			
		72.6	D	29			
70.0	DRY	75.0	D	30			
		77.6	D	31			
		80.0	D	32	80.0		

MARKS: Test Pit down to 3.6'

1" = 5'

Foundation Engineering Ltd.



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

Report an issue with this borehole

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TQ/28NE/98
2124.8115 **OF 1**

RECORD OF BOREHOLE No. 01

Location: WHITESTONE WALK,
HAMPSTEAD HEATH

Contract No.: 431

Type of Boring: Shell Auger

Date (started):

Borehole Dia: 8"

Casing:

Ground Level: 439.602'

Sheet 3 of 3

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
		Depth	Type	No.	Legend	Depth		Thickness
		82.6	D	33		80.0	2.6	Brown firm micaceous silty CLAY, orange/brown iron staining.
		85.0	D	34		82.6	5.0	Very soft wet fine brown micaceous homogenous SAND
		87.6	D	35		87.6	4.6	Dark grey/blue and brown firm micaceous silty CLAY, orange/brown iron staining.
		90.0 (N=48)	D	36		92.0	3.0	Firm/stiff grey micaceous CLAY, predominants over brown soft micaceous clayey SILT.
	95.0	92.6	D	37		95.0		
		95.0	D	38				
		97.6	D	39				
		100.0	U	40				
		102.6	D	41				Dark grey + brown soft CLAY, and fine sand interlaminated
4.0	95.0	105.0	D	42		25.0		Overall is a dark grey + brown soft/firm micaceous clayey SILT, with some sand.
3.0	95.0	107.6	D	43				
4.0	95.0	110.0 (N=47)	D	44				
9.0		112.6	D	45				
		115.0	D	46				
		117.6	D	47				
30.0	110.0	120.0 (N=60)	D	48		120.0		

MARKS: Test Pit down to 3.6'

Borehole Complete

440
27
353

SCALE 1"=5'

Foundation Engineering Ltd.