

TQ128NR191
R638.8609 **OF.4**

British Geological Survey

British Geological Survey

RECORD OF BOREHOLE No. 04

Location: **HAMPSTEAD SQUARE,
HAMPSTEAD HEATH**
Contract No.: **431**
Type of Boring: **Shell + Auger**
Date (started): **0. 5. 69**

Borehole Dia: **8'**
Casing: **:**
Ground Level: **407.048'**

Sheet 2 of 2

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
		Depth	Type	No.	Legend	Depth		Thickness
						40:0		more sandy.
						41:0		
		42:6	D	17		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	1:0	Golden brown/grey clayey SAND
46:0	DRY	50:0	U	20		48:0	3:0	Firm grey/brown sandy CLAY
48:0	DRY	52:6	D	21		51:0		
		55:0	D	22			11:0	Wet running silty micaceous brown fine compact SAND
		57:6	D	23				
		60:0 (7.64)	D	24				
		62:6	D	25		62:0	1:0	Grey micaceous firm silty CLAY, predom. over brown fine SAND
		65:0	U	26		63:0		
		67:6	D	27			7:0	Dark grey micaceous silty SAND
70:0	15:0	70:0	U	28		70:0		
								Borehole Complete

REMARKS: **Piezometer installed at 55:0**

SCALE 1" = 5'

Foundation Engineering Ltd.

TQ/28NR/91
2638.8607 **OF 4**

RECORD OF BOREHOLE No. 01-4

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

Borehole Dia : 8"
Casing :
Ground Level : 407.048'

Sheet 1 of 2

Length 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		4:0	2:0	Brown firm sandy CLAY matrix + abundant large fragments, pebbles
7:6 DRY		7:0	D	3		6:0	3:6	Abundant rounded hard 1" pebbles predominates over finer sand matrix.
30:0 DRY		10:0	U	4		9:6	1:0	Firm brown sandy CLAY
		12:6	D	5		10:6	1:6	Compact grey SAND
		15:6	U	6		12:0	1:0	Fine silty clayey SAND
		17:6	D	7		13:0		
		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				
		27:6	D	11		27:0	1:0	Stiff/hard grey CLAY + little fine sand.
30:0 DRY		30:0	U	12		28:0	4:0	Firm brown sandy CLAY
		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.

T0/28NE/92
2634.8600. OF.5

British Geological Survey

British Geological Survey

RECORD OF BOREHOLE NO. OF 5

Location: THE MOUNT, HAMPSTEAD HEATH
Contract No.: 431
Type of Boring: Shell + Auger
Date (started): 13. 5. '69

Borehole Dia: 6"
Casing:
Ground Level: 399.935'

Sheet 2 of 2

Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
		Depth	Type	No.	Legend	Depth		Thickness
40.0	3.0					40.0		extremely wet, running brown fine silty SAND
		42.0	D	17			5.0	
		45.0	D	18		45.0	1.0	Firm brown/grey clayey SAND
		47.0	D	19		46.0		
		50.0 (N=33)	D	20			7.0	extremely wet, running brown fine silty SAND
		52.0	D	21		52.0	1.0	Firm/stiff dk. grey micaceous CLAY, predom over brown fine SAND
		55.0	U	22		53.0		
		57.0	D	23			9.0	Dark grey compact fine silty SAND
		60.0	U	24				
30) 60.0	14.0					62.0		
								Borehole complete

REMARKS:

British Geological Survey

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SCALE 1" = 5'

Foundation Engineering Ltd.

TQ/28WR192
2634.800 OF.5

British Geological Survey

British Geological Survey

RECORD OF BOREHOLE No. OF.5

Location: THE MOUNT, HAMPSTEAD HEATH
Contract No.: 431
Boring: Shell's Auger
Started: 13.5.69

Borehole Dia: 8"
Casing:
Ground Level: 350.535

Sheet 1 of 2

Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
		Depth	Type	No.	Legend	Depth	
		2:6	D	1		4:0	MADE GROUND (dark brown/black sand brick red fragments roots // cement fragments Clay.)
		5:0 (N=14)	D	2		4:0 2:0	(as above) much more clayey
		7:6	D	3		7:0	1:0 (Firm clayey)
		10:0	L	4			Firm/stiff brown micaceous CLAY, abundant coarse medium sand fragments
		12:6	D	5		9:0	
		15:0	L	6		16:0	
16:0 DRY		17:6	D	7		17:0	1:0 Firm grey/brown sandy CLAY
		20:0	L	8		21:0	4:0 Soft pale grey CLAY and light brown/orange SAND + brown sandy Clay.
		22:6	D	9		26:0	(as above) but Firm/stiff.
		25:0	L	10			
		27:6	D	11		26:0	Soft becoming firm towards mottled browns + greys. CLAY, and fine SAND (= silty sandy CLAY)
		30:0	L	12		34:0	
		32:0	D	13			
		35:0 (N=44)	D	14		6:0	Rich orange/brown fine compact micaceous SAND
		37:6	D	15			
39:0	40:0 3:0	40:0 (N=24)	D	16		40:6	

REMARKS: Piezometer installed at 41:0"

SCALE 1"=5'

Foundation Engineering Ltd.

TA/28NE/98
2656.8600.

OF 11

WELL ROAD
HAMPSTEAD HEATH

RECORD OF BOREHOLE No: 0711

No. : 431

Borehole Dia : 6"

Spring : Shell + Auger

Casing : 6" to 35'0"

(Reported) : 22.5.69

Ground Level : 354.09'

Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA	
	Depth	Type	No.	Legend	Depth		Thickness
					1:0	1:0	MADE GROUND Asphalt + brick rubble
	2:6	D	1			5:0	Dark orange/brown grey loose micaceous silty SANDY CLAY
	5:0	U	2		6:0		(mixture firm clay + loose sand)
	7:6	D	3			6:0	Cream/light grey firm micaceous silty CLAY, predominates over orange/brown fine sand
	10:0	U	4				
	12:6 (N=19)	D	5		12:0		extremely wet deep orange/brown fine micaceous silty SAND
	15:0	D	6			5:0	
	17:6	D	7		17:0		Mottled grey + brick red firm micaceous silty CLAY and light brown fine sand.
	20:0	U	8			5:0	
	22:6	D	9		22:0		Dark grey micaceous silty sandy CLAY
	25:0	D	10		25:0		
	27:6	D	11			10:0	Dark grey + brown mixture of silty SAND + CLAY
	30:0	U	12				
	32:6	D	13				
	35:0	U	14		35:0		Dark grey firm/stiff micaceous silty CLAY
	37:6	D	15			5:0	
0 DRY	40:0	U	16		40:0		

Borehole Complete

Water first met at 17:0
Piezometer installed at 30:0

Foundation Engineering Ltd.

APPENDIX D

Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	-285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Bracken
	Heath		Rough Grassland
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

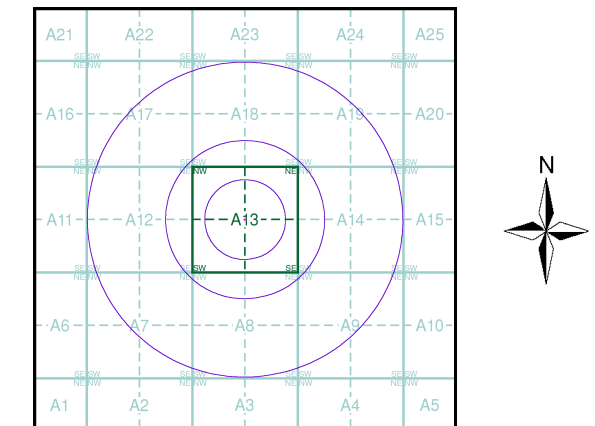
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:10,560	1873 - 1882	3
Middlesex	1:10,560	1879	4
London	1:10,560	1896	5
Essex	1:10,560	1920	6
London	1:10,560	1920	7
Essex	1:10,560	1938	8
London	1:10,560	1938	9
Historical Aerial Photography	1:10,560	1950	10
Ordnance Survey Plan	1:10,000	1951	11
Ordnance Survey Plan	1:10,000	1957 - 1958	12
Ordnance Survey Plan	1:10,000	1968	13
Ordnance Survey Plan	1:10,000	1974 - 1976	14
London	1:25,000	1985	15
Ordnance Survey Plan	1:10,000	1991 - 1996	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
10K Raster Mapping	1:10,000	2011	19

Historical Map - Slice A



Order Details

Order Number: 37704991_1_1
 Customer Ref: CG5919
 National Grid Reference: 526410, 186070
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

Site Details

4 Hampstead Square, LONDON, NW3 1AB



Tel: 0844 844 9952
 Fax: 0844 844 9951
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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Fireproof Building		Prominent Fireproof Building
	Non-fireproof Building		Non-fireproof Building (non-dwelling)
	Factory, mill, and flour mill, with chimneys		Factory, mill, and flour mill, without chimneys
	Power Station, drawn to scale		Hydroelectric Power Station
	Radio Station, drawn to scale		Telephone Station, drawn to scale
	Abandoned Open-pit Mine or Quarry		Open-pit Salt Mine
	Pit		Oil Deposit or Well
	Oil Seepage		Natural Gas Tank
	Tailings Pile		Fuel Storage Tanks
	Bench Mark		Drill Hole
	Burial Mound		Triangulation Point on Burial Mound
	Single-track Railroad		Double-track Railroad
	Railroad and Station Building		Small Bridge
	Tunnel		Pipe (Culvert)
	Coniferous Forest		Deciduous Forest
	Mixed Forest		Lawns
	Citrus Orchard		Wet Ground
	Scattered Vegetation		

243,8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0,2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Partly Demolished Buildings		Demolished Buildings
	Built-Up Area with Fireproof Buildings Predominant		Built-Up Area with Non-Fireproof Buildings Predominant
	Individual Fireproof Building		Prominent Industrial Building
	Individual Dwelling, Fireproof		Ruins of an Individual Dwelling
	Factory or Mill Chimney		Factory or Mill with Chimney
	Factory or Mill without Chimney		Mine or Open Pit Mine
	Operating Shaft or Mine		Non-Operating Shaft or Mine
	Salt Mine		Tailings Pile
	Pit		Stone Quarry
	Gas Pump or Service Station		Fuel Storage or Natural Gas Tank
	Oil or Natural Gas Derrick		Small Hydroelectric Power Station
	Power Station		Transformer Station
	Cemetery		Burial Mound (height in metres)
	Triangulation Point on Burial Mound		Triangulation Point
	Bench Mark		Telegraph Office
	Telephone Station		Radio Station
	Radio Tower		Airfield or Seaplane Base
	Landing Strip		Cut
	Fill		Km Post
	Plantings		Width of Road
	Steep Grade		Highway under Construction
	Improved Dirt Road (former truck road)		Small Bridge
	Pipe (Culvert)		Tunnel
	Dismantled Railroad		Double-track Railroad with First Class Station
	Railroad Under Construction		Shore Embankment
	River or Ditch with Embankment		Water Gauge
	Direction and velocity of current		Water Level Mark
	Well		Spring
	Water Reservoir or Rain Water Pit		Isobath with value
	Heavy (Index) Contour Line		Half Contour Line
	Contour Line and Value		Spot Elevation Value
	Coniferous		Deciduous
	Mixed		Scrub

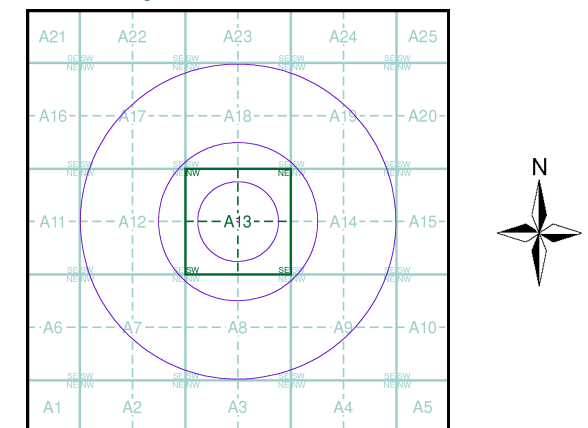
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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10K Raster Mapping	1:10,000	2011	19

Russian Map - Slice A



Order Details

Order Number: 37704991_1_1
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 National Grid Reference: 526410, 186070
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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Middlesex

Published 1873 - 1882

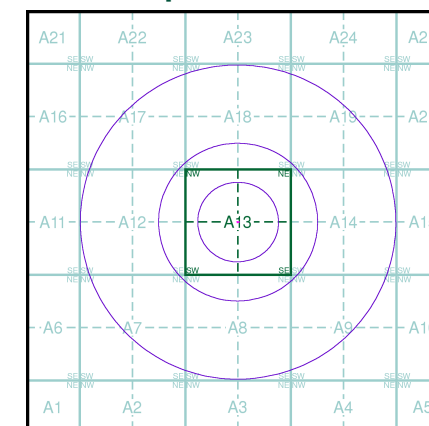
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

01100 1873 1:10,560	01200 1873 1:10,560
01600 1874 1:10,560	01700 1882 1:10,560

Historical Map - Slice A



Order Details

Order Number: 37704991_1_1
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 National Grid Reference: 526410, 186070
 Slice: A
 Site Area (Ha): 0.01
 Search Buffer (m): 1000

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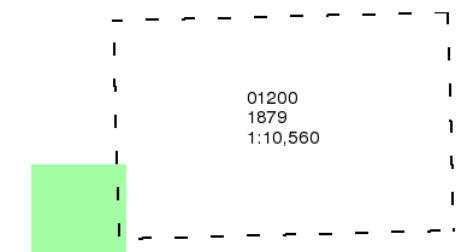
Middlesex

Published 1879

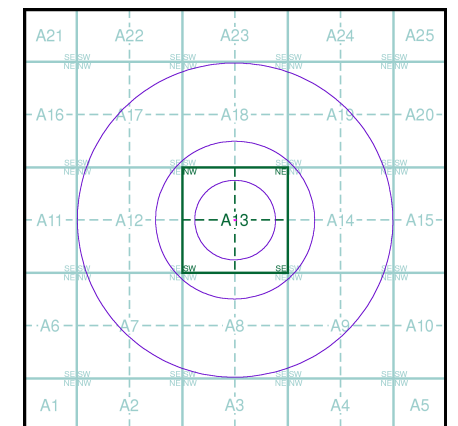
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Map Name(s) and Date(s)



Historical Map - Slice A



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