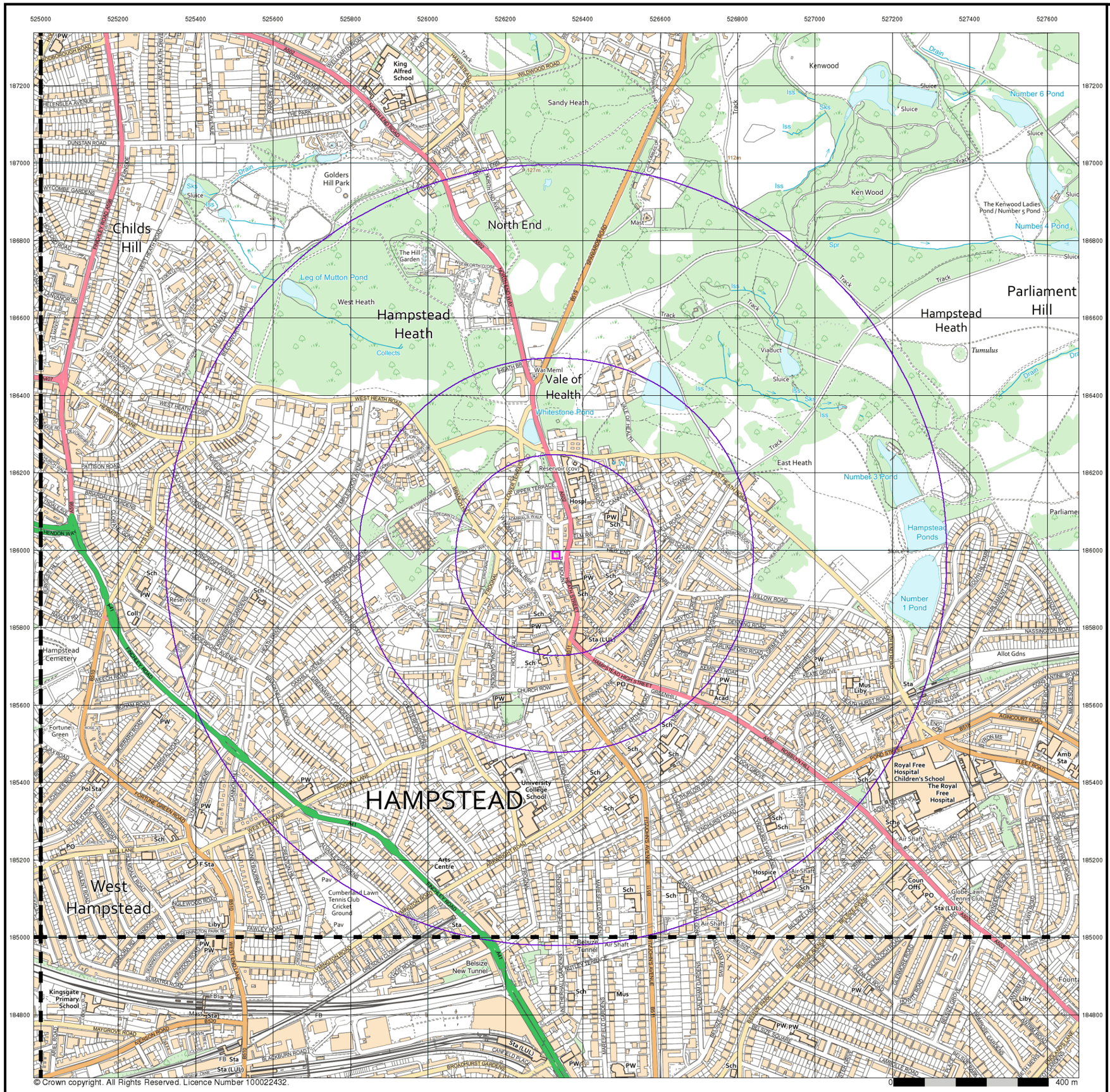


soils LIMITED
Geotechnical & Environmental Consultants

VectorMap Local

Published 2021

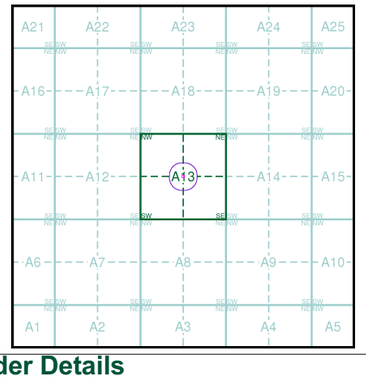
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TQ28NW 2021 Variable	TQ28NE 2021 Variable
TQ28SW 2021 Variable	TQ28SE 2021 Variable

Historical Map - Slice A



Order Details

Order Number:	302163780_1_1
Customer Ref:	20353
National Grid Reference:	526330, 185990
Slice:	A
Site Area (Ha):	0.04
Search Buffer (m):	1000

Site Details

9, The Mount, LONDON, NW3 6SZ

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Appendix C Field Work

Appendix C.1 Engineers Logs

soils LIMITED

Contract Name:		Client:				Hole ID:
9 The Mount, Hampstead, LONDON, NW3 6SZ						**BH1**
Contract Number:	Start and End Date:	Logged By:	Checked By:	Status:		Hole Type:
20353	25/08/22 - 26/08/22	SW		FINAL		**BH**
Easting:	Northing:	Ground Level:	Plant Used:	Print Date:		Scale:
			Cutdown	12/10/2022		1:50

Weather: Fine | Termination: | SPT Hammer: N/R, Energy Ratio: 66% | Sheet 1 of 2

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
0.20	D			(0.40)		Brown sandy SILT. Occasional to frequent fine to medium subrounded to angular flint brick and clinker gravel. Frequent rootlets. MADE GROUND		
0.50	D			0.40		Soft brown sandy CLAY. Occasional fine to medium subrounded to angular flint and brick fragments. Presence of ash. MADE GROUND		
0.50 - 1.00	B							
1.00	D							
1.50	SPT	N=17 (2,2/3,4,5,5)		(2.10)				
	D							
1.50 - 2.00	B							
2.00	D							
2.50	SPT	N=12 (2,2/2,3,3,4)		2.50		Yellowish brown slightly gravelly fine to coarse SAND. Gravel is fine to medium subrounded to subangular flint. BAGSHOT FORMATION		
	D							
2.50 - 3.00	B			(0.50)				
3.00	D			3.00		Fine Brownish yellow SAND. BAGSHOT FORMATION		
3.50	SPT	N=14 (2,2/3,4,4,3)						
	D							
4.00	D							
4.50	SPT	N=14 (2,4/3,4,3,4)						
	D							
5.00	D							
5.50	D			(5.00)				
6.00	SPT	N=16 (2,3/4,3,4,5)						
	D							
6.50	D							
7.00	D							
7.50	SPT	N=20 (3,4/3,5,6,6)						
	D							
8.00	D			8.00		Soft brownish yellow sandy CLAY. BAGSHOT FORMATION		
8.50	D							
9.00	SPT	N=20 (3,3/4,5,5,6)		(4.00)				
	D							
9.50	D							
10.00	D							

Start & End of Shift Observations

Date	Time	Depth (m)	Casing (m)	Water (m)

Borehole Diameter

Depth (m)	Dia (mm)

Casing Diameter

Depth (m)	Dia (mm)
15.00	200

Remarks:

Chiselling

From (m)	To (m)	Duration	Remarks

Installation

Top (m)	Base (m)	Type	Dia (mm)
0.00	1.00	PLAIN	33
1.00	6.00	PLAIN	33

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
			0	0.00	Watter added to aid drilling. Any water strike are likely to have been masked.

Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.

soils LIMITED

Contract Name:		Client:			Hole ID:
9 The Mount, Hampstead, LONDON, NW3 6SZ					**BH1**
Contract Number:	Start and End Date:	Logged By:	Checked By:	Status:	Hole Type:
20353	25/08/22 - 26/08/22	SW		FINAL	**BH**
Easting:	Northing:	Ground Level:	Plant Used:	Print Date:	Scale:
			Cutdown	12/10/2022	1:50

Weather: Fine | Termination: | SPT Hammer: N/R, Energy Ratio: 66% | Sheet 2 of 2

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
						Soft brownish yellow sandy CLAY. BAGSHOT FORMATION		
10.50	SPT D	N=20 (3,4/3,5,6,6)						
11.00	D							
11.50	D							
12.00	SPT D	N=29 (7,7/7,6,8,8)		12.00		Yellowish orange fine to medium SAND. BAGSHOT FORMATION		
12.50	D							
13.00	D							
13.50	SPT D	N=30 (4,6/7,8,7,8)		(3.45)				
14.00	D							
14.50	D							
15.00	SPT D	N=31 (3,5/6,8,8,9)						
				15.45		End of Borehole at 15.45m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)
							15.00	200

Remarks:

Chiselling			
From (m)	To (m)	Duration	Remarks

Installation			
Top (m)	Base (m)	Type	Dia (mm)
0.00	1.00	PLAIN	33
1.00	6.00	PLAIN	33

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
			0	0.00	Watter added to aid drilling. Any water strike are likely to have been masked.

Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.

soils LIMITED

Contract Name:		Client:				Hole ID:
9 The Mount, Hampstead, LONDON, NW3 6SZ						**WS1**
Contract Number:	Start and End Date:	Logged By:	Checked By:	Status:		Hole Type:
20353	31/08/22	GJB		FINAL		**WS**
Easting:	Northing:	Ground Level:	Plant Used:	Print Date:		Scale:
			HHWS	12/10/2022		1:50

Weather: | Termination: | Sheet 1 of 1

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.25		Dark brown clayey fine to medium SAND with frequent rootlets and occasional fine to medium flints. MADE GROUND		
				(0.65)		Dark orange/brown clayey fine to medium SAND with fine to medium flints and fine brick fragments. MADE GROUND		
				0.90				
				1.00		Light brown clayey fine to medium sandy fine to medium angular flint GRAVEL. Fine brick traces. MADE GROUND		
1.20	D ES					Fine to coarse light orangish brown slightly clayey SAND. Rare rootlets. Rare fine sub-rounded flint gravel. BAGSHOT FORMATION		
1.50	D ES			(1.10)				
2.00	D			2.10		Soft dark orange brown sandy becoming very CLAY. Rare occasional intermittent pockets of light grey brown fine to coarse sand. BAGSHOT FORMATION		
2.50	D			(1.20)				
3.00	D			3.30		Fine to coarse medium orangish grey brown slightly clayey SAND. Rare intermittent bands of medium orange brown fine to coarse sand. BAGSHOT FORMATION		
3.50	D			(1.00)				
4.00	D			4.30		Soft medium orangish grey brown slightly sandy CLAY. Rare rootlets. Rare intermittent bands of medium orange brown fine to coarse sand. BAGSHOT FORMATION		
4.50	D			(0.30)				
5.00	D			4.60		Fine to coarse light yellowish grey brown SAND. BAGSHOT FORMATION		
5.50	D			(1.40)				
6.00	D			6.00		End of Borehole at 6.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Remarks:

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.

soils LIMITED

Contract Name:			Client:			Hole ID:
9 The Mount, Hampstead, LONDON, NW3 6SZ						**WS2**
Contract Number:	Start and End Date:	Logged By:	Checked By:	Status:		Hole Type:
20353	31/08/22	GJB		FINAL		**WS**
Easting:	Northing:	Ground Level:	Plant Used:	Print Date:		Scale:
			HHWS	12/10/2022		1:50

Weather: | Termination: | Sheet 1 of 1

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Type	Results	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.00		Dark orange/brown clayey fine to medium SAND with fine to medium flints and fine brick fragments. MADE GROUND		
				(0.70)				
				0.70		Light brown clayey fine to medium sandy fine to medium angular flint GRAVEL. Fine brick traces. MADE GROUND		
				(0.30)				
				1.00		Dark orangish grey brown slightly clayey silty SAND. Rare rootlets. Rare fine ash, brick fragments. Rare fine angular to sub-rounded flint gravel. Occasional rare intermittent bands of light orange brown fine to coarse sand. MADE GROUND.		
1.20	D ES			(0.80)				
1.70	D ES			1.80		Dark orange brown slightly clayey slightly silty fine to coarse SAND. Rare fine brick, ash fragments. Rare fine angular to sub-angular to sub-rounded flint gravel. MADE GROUND		
2.20	D ES			(0.70)				
2.60	D ES			2.50		Soft dark orangish grey brown slightly gravelly sandy CLAY. Rare fine ash fragments. Occasional fine to coarse angular to sub-angular flint gravel. BAGSHOT FORMATION		
				2.70		Dark orangish grey mottled brown clayey fine to coarse SAND. Rare rootlets. Rare intermittent bands of light orange brown fine to coarse sand. BAGSHOT FORMATION		
				(0.50)				
3.10	D ES			3.20		Light yellowish fine to coarse grey SAND. BAGSHOT FORMATION		
3.60	D			(1.10)				
4.10	D			4.30		Dark yellowish grey brown very clayey SAND. BAGSHOT FORMATION		
4.40	D			4.50		Light orange grey mottled brown very clayey SAND. BAGSHOT FORMATION		
4.90	D			(1.20)				
5.40	D			5.70		Light orange grey mottled brown very clayey SAND. BAGSHOT FORMATION		
				(0.30)				
6.00	D			6.00		End of Borehole at 6.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

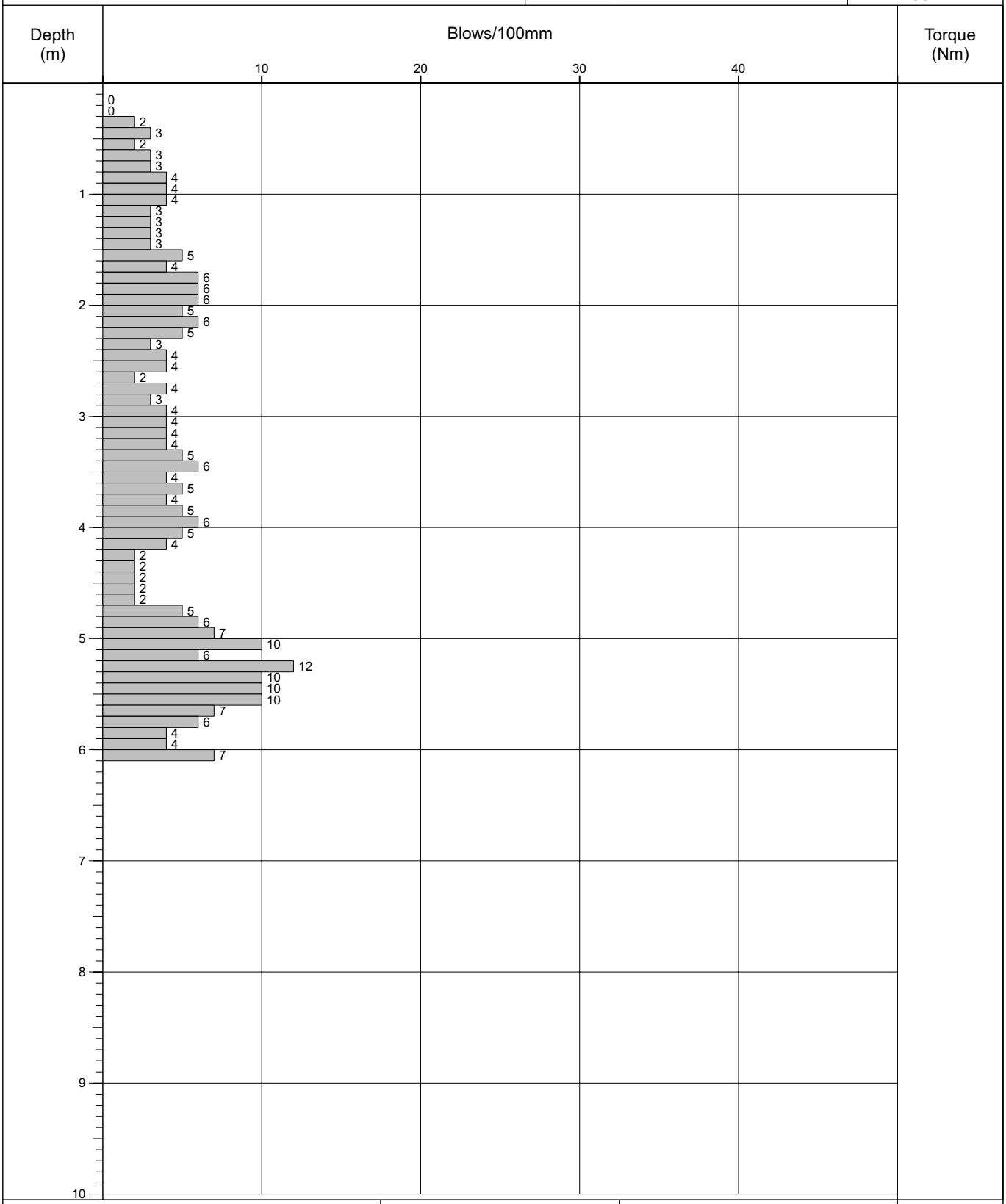
Remarks:

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

Hand vane (HV), Hand penetrometer (HP) reported in kPa. PID reported in ppm.

Soils Limited Newton House, Cross Road, Tadworth KT20 5SR Tel: 01737 814221 Email: admin@soilslimited.co.uk			Probe Log	Probe No. DP1 Sheet 1 of 1
Project Name:	9 The Mount, Hampstead, LONDON, NW3 6SZ	Project No. 20353	Co-ords:	Hole Type DP
Location:	9 The Mount, Hampstead, LONDON, NW3 6SZ		Level: m AOD	Scale 1:50
Client:			Dates: 30/08/2022	Logged By GJB

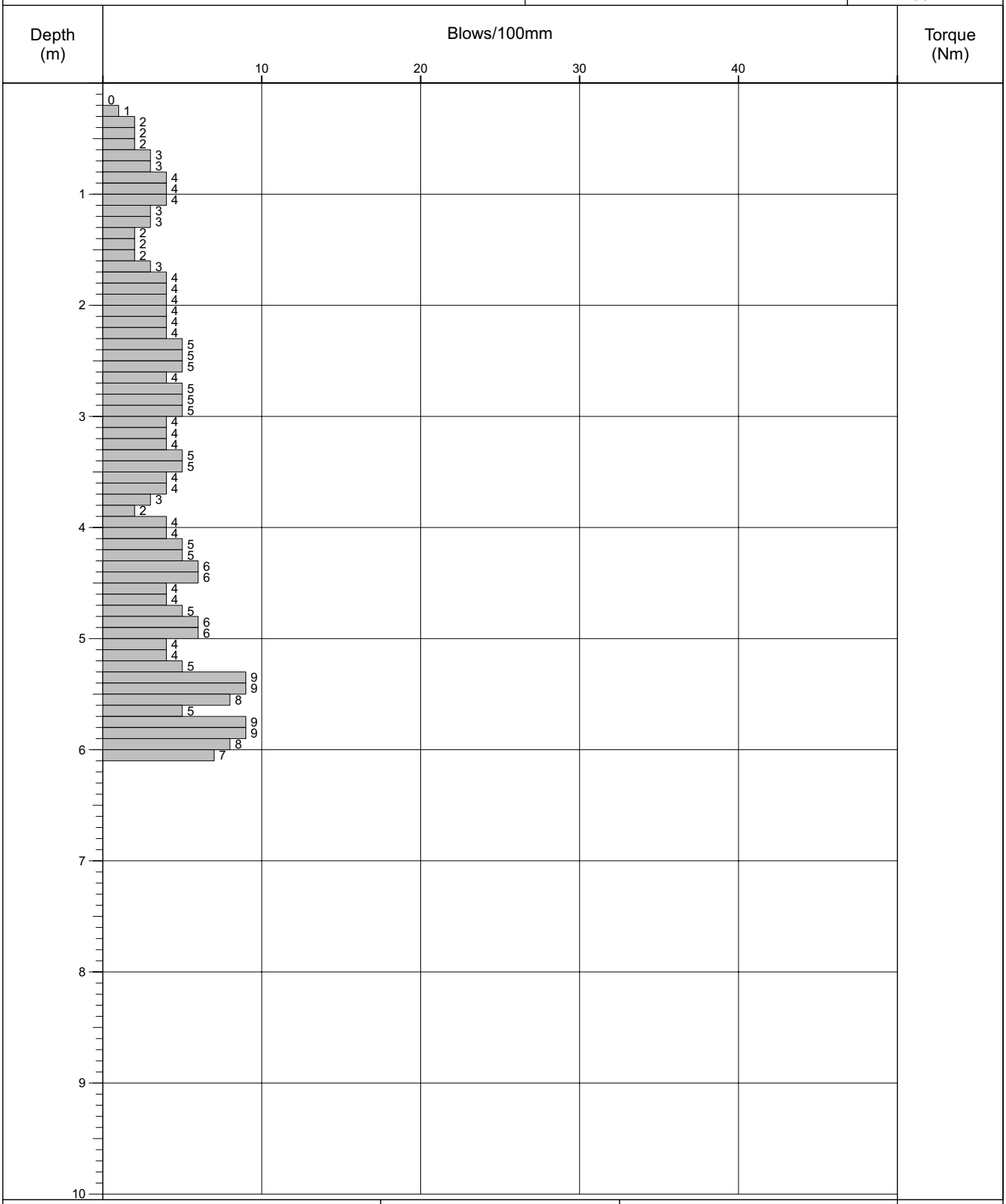


Remarks				
	Fall Height	760mm	Cone Base Diameter	52mm
	Hammer Weight	63.5kg	Final Depth	6m
	Probe Type	DPSH	Energy Ratio (Er)	73.7%

AGS REGISTERED USER 2020

Soils Limited Newton House, Cross Road, Tadworth KT20 5SR Tel: 01737 814221 Email: admin@soilslimited.co.uk	**Probe Log**	Probe No. **DP2** Sheet 1 of 1

Project Name:	9 The Mount, Hampstead, LONDON, NW3 6SZ	Project No. 20353	Co-ords:	Hole Type DP
Location:	9 The Mount, Hampstead, LONDON, NW3 6SZ		Level: m AOD	Scale 1:50
Client:			Dates: 30/08/2022	Logged By GJB



Remarks				
	Fall Height	760mm	Cone Base Diameter	52mm
	Hammer Weight	63.5kg	Final Depth	6m
	Probe Type	DPSH	Energy Ratio (Er)	73.7%

AGS REGISTERED USER 2020

Appendix D Geotechnical In-Situ and Laboratory Testing

Appendix D.1 Classification

Classification based on SPT "N" values:

The inferred undrained strength of the cohesive soils was based on the SPT "N" blow counts, derived from the relationship suggested by Stroud (1974) and classified using Table D.1.1. (Ref: Stroud, M. A. 1974, "The Standard Penetration Test – its application and interpretation", Proc. ICE Conf. on Penetration Testing in the UK, Birmingham. Thomas Telford, London.).

Table D.1.1 SPT "N" Blow Count Cohesive Classification

Classification	Undrained Cohesive Strength C_u (kPa)
Extremely low	<10
Very low	10 – 20
Low	20 – 40
Medium	40 – 75
High	75 – 150
Very high	150 – 300
Extremely high	> 300

Note(s): (Ref: BS EN ISO 14688-2:2004+A1:2013 Clause 5.3.)

The relative density of granular soils was classified based of the relationship given in Table D.1.2.

The *UK National Annex to Eurocode 7: Geotechnical design – Part 2: Ground investigation and testing, NA 3.7 SPT test, BS EN 1997-2:2007, Annex F* states "Relative density descriptions on borehole records should also be based on uncorrected SPT N values, unless significantly disturbed, using the density classification in BS 5930:2015, Table 7.

Table D.1.2 SPT "N" Blow Count Granular Classification

Classification	SPT "N" blow count (blows/300mm)
Very loose	0 to 4
Loose	4 to 10
Medium dense	10 to 30
Dense	30 to 50
Very dense	Greater than 50

Note(s): (Ref: The Standard Penetration Test (SPT): Methods and Use, CIRIA Report 143, 1995)

Appendix D.2 Interpretation

Table D.2.1 Interpretation of SPT Tests

BH	Strata	SPT N60 Blow Counts	Inferred Cohesive Strength
BH1	BGS - Granular 2.50 – 8.00 Clayey SAND	15 – 22	Medium dense
	BGS - Cohesive 8.00 – 12.00 Sandy CLAY	22	High (Cu = 110kPa)
	BGS - Granular 12.00 – 15.00 Clayey SAND	32 – 34	Medium dense to dense

Table D.2.2 Interpretation of DPSH Blow Counts

DP	Strata	Equivalent SPT N60 Blow Counts	Inferred Cohesive Strength/Granular Density
DP1	BGS - Granular 1.00 - 2.10 Clayey SAND	11 – 16	Medium dense
	BGS - Cohesive 2.10 – 3.30 Sandy CLAY	12 – 13	Medium (C_u = 60 – 65kPa)
	BGS - Granular 3.30 – 4.30 Clayey SAND	17	Medium dense
	BGS - Cohesive 4.30 – 4.60 Sandy CLAY	7	Low (C_u = 35kPa)
	BGS - Granular 4.60 – 6.00 Clayey SAND	20 – 34	Medium dense to dense
DP2	BGS - Cohesive 2.50 – 2.70 Sandy CLAY	14	Medium (C_u = 70kPa)
	BGS - Granular 2.70 – 6.00 Very clayey SAND	12 – 27	Medium dense

Table D.2.3 Interpretation of Atterberg Limit Tests

Stratum	Moisture Content (%)	Plasticity Index (%)	Passing 425μm Sieve (%)	Modified Plasticity Index (%)	Soil Classification	Volume Change Potential	
						BRE	NHBC
BGS - Cohesive	23	22	88	19	CI	Low	Low

Stratum	Moisture Content (%)	Plasticity Index (%)	Passing 425μm Sieve (%)	Modified Plasticity Index (%)	Soil Classification	Volume Change Potential	
						BRE	NHBC
BGS – Granular	-	-	100	-	NP	No	No

Note(s): NP = None Plastic. BRE Volume Change Potential refers to BRE Digest 240 (based on Atterberg results)
NHBC Volume Change Potential refers to NHBC Standards Chapter 4.2
Soils Classification based on British Soil Classification System
The most common use of the term clay is to describe a soil that contains enough clay-sized material or clay minerals to exhibit cohesive properties. The fraction of clay-sized material required varies, but can be as low as 15%. Unless stated otherwise, this is the sense used in Digest 240. The term can be used to denote the clay minerals. These are specific, naturally occurring chemical compounds, predominately silicates. The term is often used as a particle size descriptor. Soil particles that have a nominal diameter of less than 2 μm are normally considered to be of clay size, but they are not necessarily clay minerals. Some clay minerals are larger than 2 μm and some particles, 'rock flour' for example, can be finer than 2 μm but are not clay minerals.
(The Atterberg Limit Tests were undertaken in accordance with BS 1377:Part 2:1990 Clauses 3.2, 4.3 and 5)

Table D.2.4 Interpretation of PSD Tests

Location	Depth (m bgl)	Soil Description	Volume Change Potential		Passing 63μm Sieve (%)
			BRE	NHBC	
BH1	2.50	Brown silty/ clayey fine to coarse SAND	Yes	No	28
BH1	4.50	Brown slightly gravelly silty/ clayey fine to coarse SAND	Yes	No	24
BH1	6.50	Brown slightly gravelly silty/ clayey fine to coarse SAND	Yes	No	21
BH1	9.00	Brown slightly gravelly fine to coarse sandy SILT/ CLAY	Yes	Yes	81
BH1	12.00	Brown slightly gravelly fine to coarse sandy SILT/ CLAY	Yes	Yes	57
BH1	14.50	Brown silty/ clayey fine to coarse SAND	Yes	No	22

Note(s): BRE 240 states that a soil has a volume change potential when the clay fraction **exceeds 15%**. Only the silt and clay combined fraction are determined by sieving therefore the volume change potential is estimated from the percentage passing the 63μm sieve. NHBC Standards Chapter 4.2 states that a soil is shrinkable if the percentage of silt and clay passing the 63μm sieve is greater than 35% and the Plasticity Index is greater than 10%.
(The Particle Size Distribution Tests were undertaken in accordance with BS 1377: Part 2: 1990 Clause 9)

Appendix D.3 Geotechnical In-Situ and Laboratory Results

Laboratory Report

GSTL
GEOTECHNICAL SITE & TESTING LABORATORIES
A PHENNA GROUP COMPANY

UKAS TESTING 2788

Contract Number: 61387

Client Ref: **20353**
Client PO: **20353**

Date Received: **15-09-2022**
Date Completed: **01-10-2022**
Report Date: **01-10-2022**

Client: **Soils Limited**
Newton House
Cross Road
Tadworth
Surrey
KT20 5SR

This report has been checked and approved by:

[redacted]

Wayne Honey
Human Resources/ Health and Safety Coordinator

Contract Title: **9 The Mount, Hampstead**
For the attention of: **Luke Wilkinson**

Test Description	Qty
Moisture Content of Soil BS1377 : Part 2 : Clause 3.2 : 1990 - * UKAS	2
1 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.4 & 5.3 - * UKAS	2
PSD Wet & Dry Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	6
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**
*** - denotes test included in laboratory scope of accreditation**
 # - denotes test carried out by approved contractor
@ - denotes non accredited tests

Approved Signatories:
Brendan Evans (Office Administrator) - Paul Evans (Director) - Richard John (Quality/Technical Manager)
Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager) - Wayne Honey (Human Resources/ Health and Safety Coordinator)

GEO Site & Testing Services Ltd
Units 3-4, Heol Aur, Dafen, Llanelli, Carmarthenshire, Wales SA14 8QN
Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377:1990 - Part 2 : 4.4 & 5.3)	
Contract Number	61387	
Site Name	9 The Mount, Hampstead	
Date Tested	26/09/2022	
	DESCRIPTIONS	

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
WS2		D	2.60	-		Brown gravelly sandy silty CLAY
WS2		D	4.90	-		Brown SAND
				-		
				-		
				-		
				-		
				-		
				-		
				-		
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				-		

Operators
Clayton Jenkins

NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377:1990 - Part 2 : 4.4 & 5.3)

Contract Number	61387
Project Location	9 The Mount, Hampstead
Date Tested	26/09/2022

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing 0.425mm %	Remarks
WS2		D	2.60	-		23	40	18	22	88	CI Intermediate Plasticity
WS2		D	4.90	-		13		NP		100	
				-							
				-							
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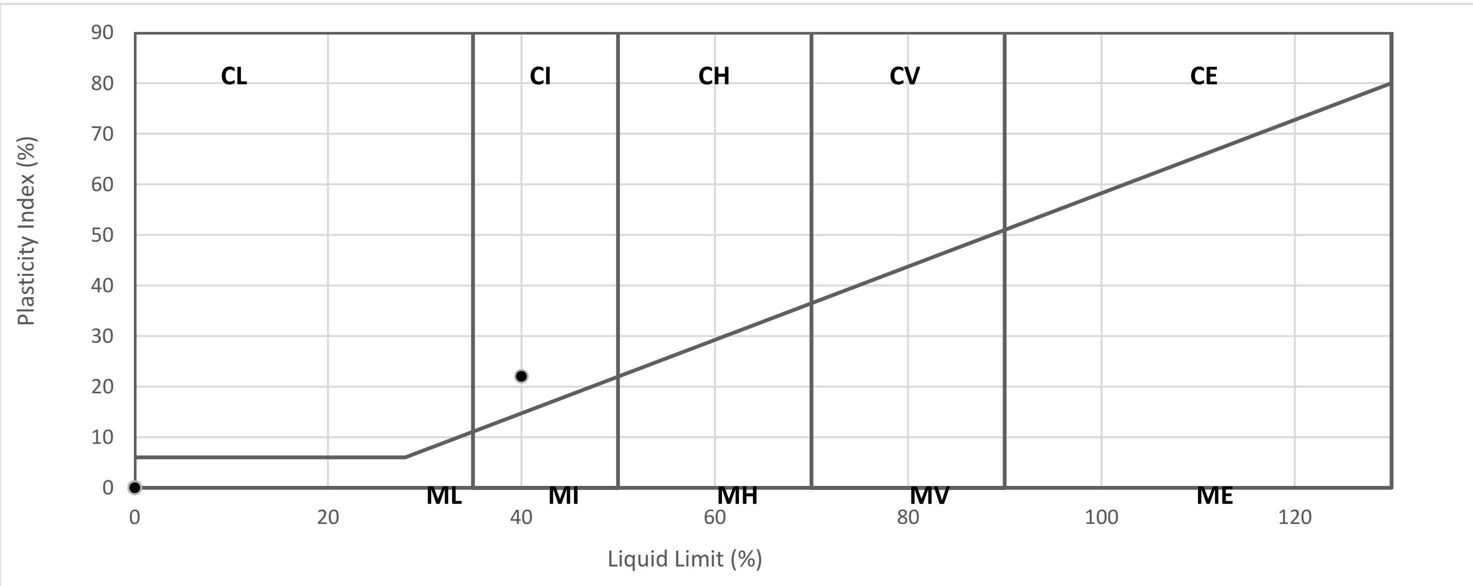
Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

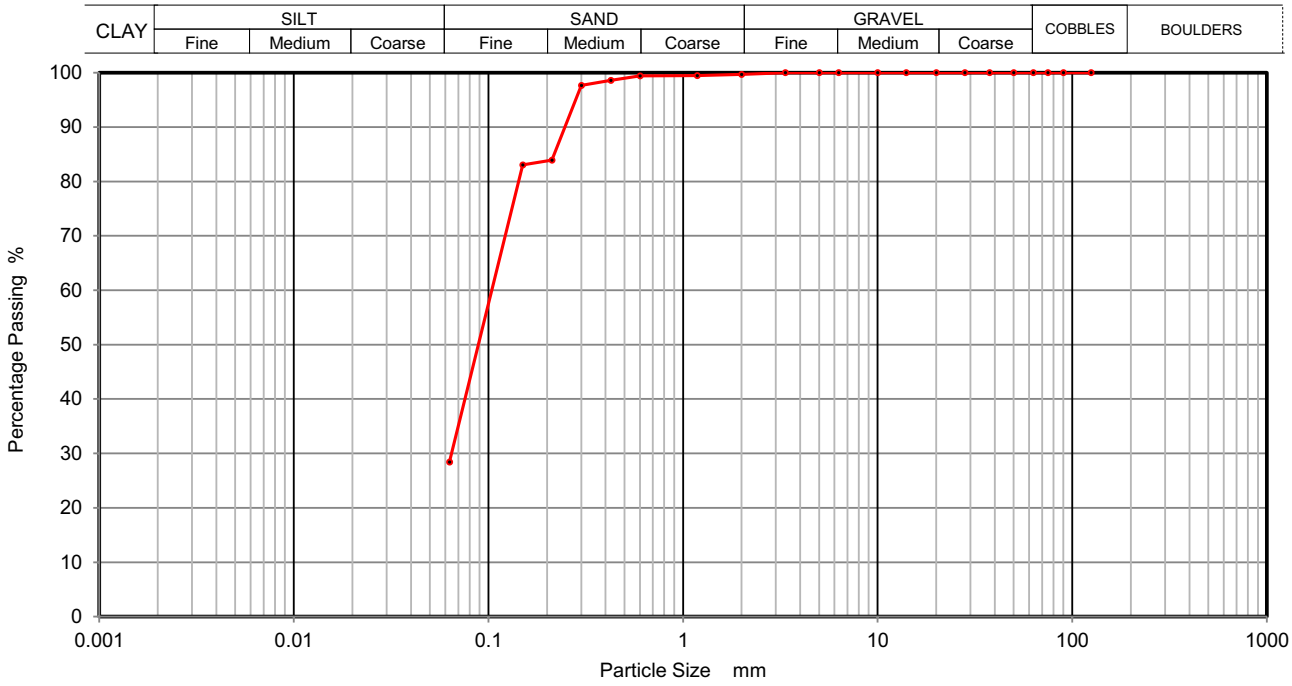
PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Operators
Clayton Jenkins

UKAS TESTING 2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown silty/ clayey fine to coarse SAND	Depth Top	2.50
		Depth Base	3.00
Date Tested	27/09/2022	Sample Type	B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	99		
0.425	99		
0.3	98		
0.212	84		
0.15	83		
0.063	28		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	72
Silt and Clay	28

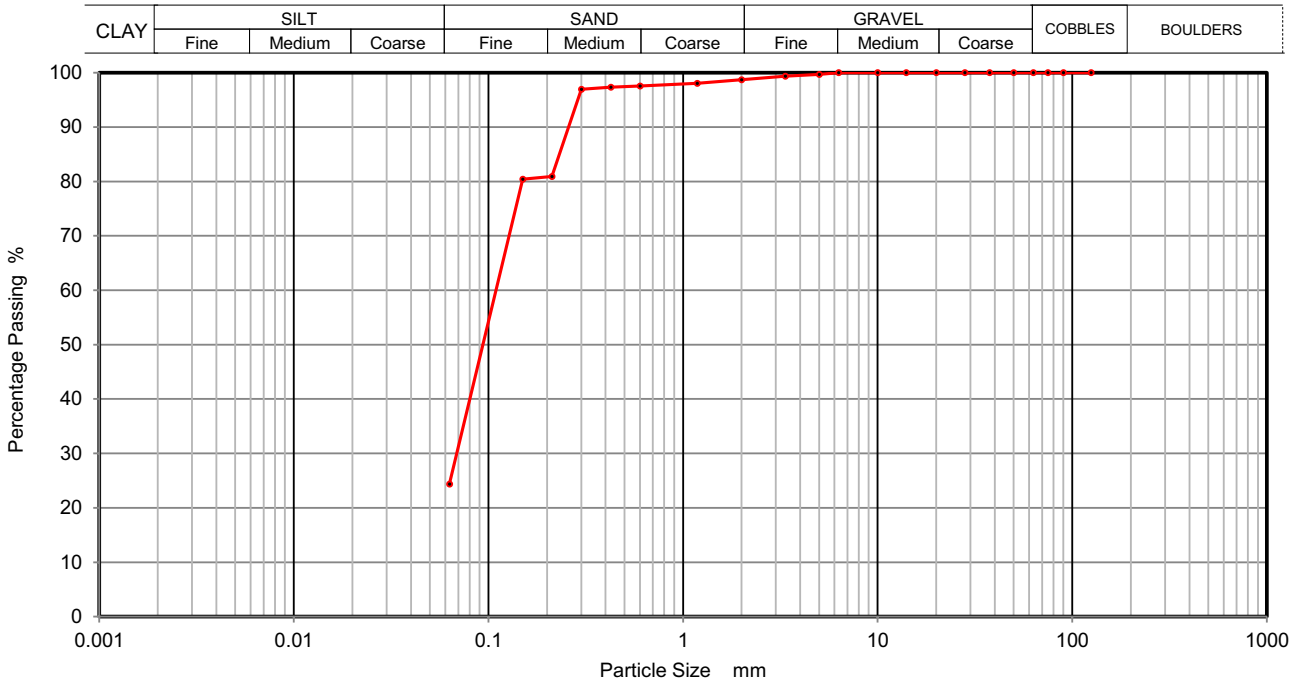
Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown slightly gravelly silty/ clayey fine to coarse SAND	Depth Top	4.50
		Depth Base	
Date Tested	27/09/2022	Sample Type	D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99		
2	99		
1.18	98		
0.6	98		
0.425	97		
0.3	97		
0.212	81		
0.15	80		
0.063	24		

Sample Proportions	% dry mass
Cobbles	0
Gravel	1
Sand	75
Silt and Clay	24

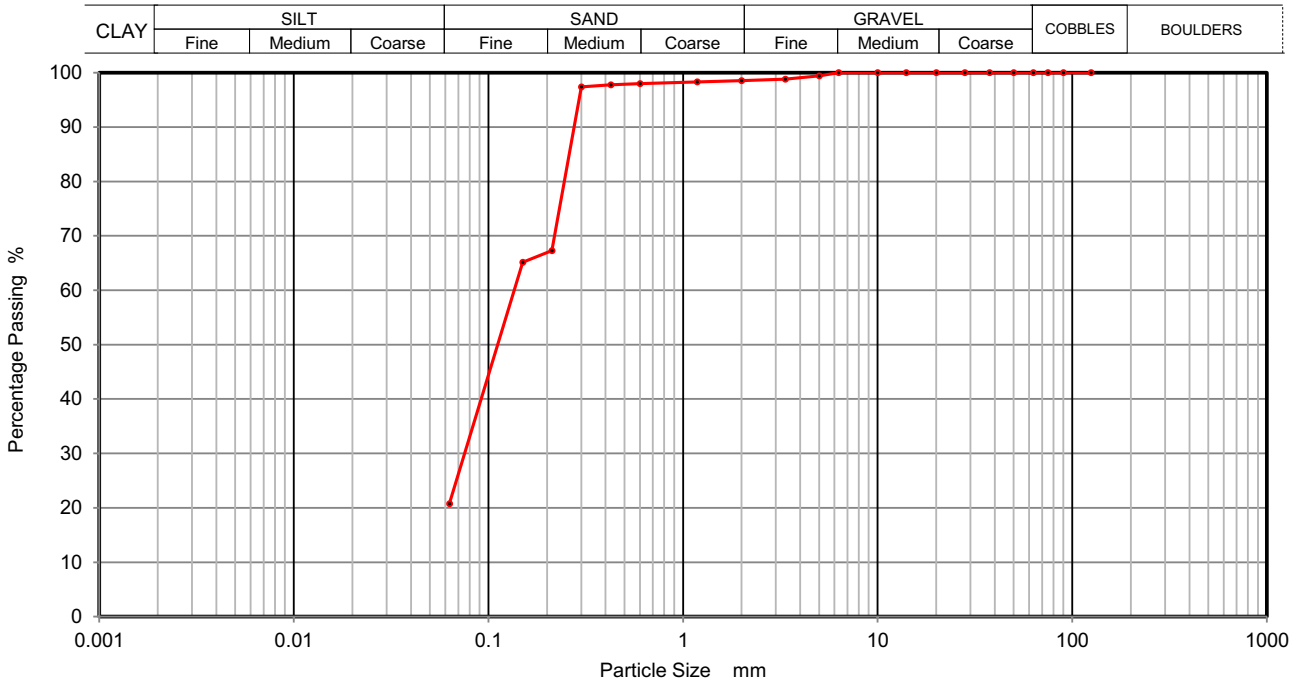
Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown slightly gravelly silty/ clayey fine to coarse SAND	Depth Top	6.50
		Depth Base	
Date Tested	27/09/2022	Sample Type	D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99		
2	99		
1.18	98		
0.6	98		
0.425	98		
0.3	97		
0.212	67		
0.15	65		
0.063	21		

Sample Proportions	% dry mass
Cobbles	0
Gravel	1
Sand	78
Silt and Clay	21

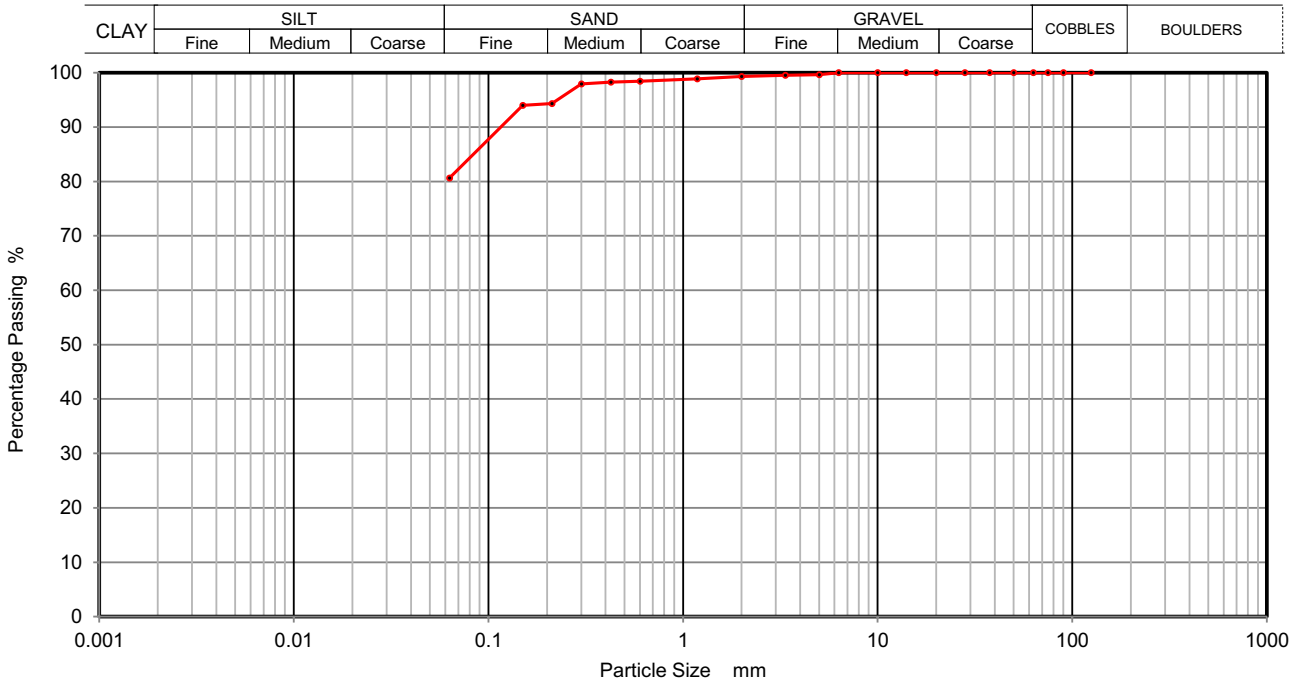
Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown slightly gravelly fine to coarse sandy SILT/ CLAY	Depth Top	9.00
		Depth Base	
Date Tested	27/09/2022	Sample Type	D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	98		
0.425	98		
0.3	98		
0.212	94		
0.15	94		
0.063	81		

Sample Proportions	% dry mass
Cobbles	0
Gravel	1
Sand	18
Silt and Clay	81

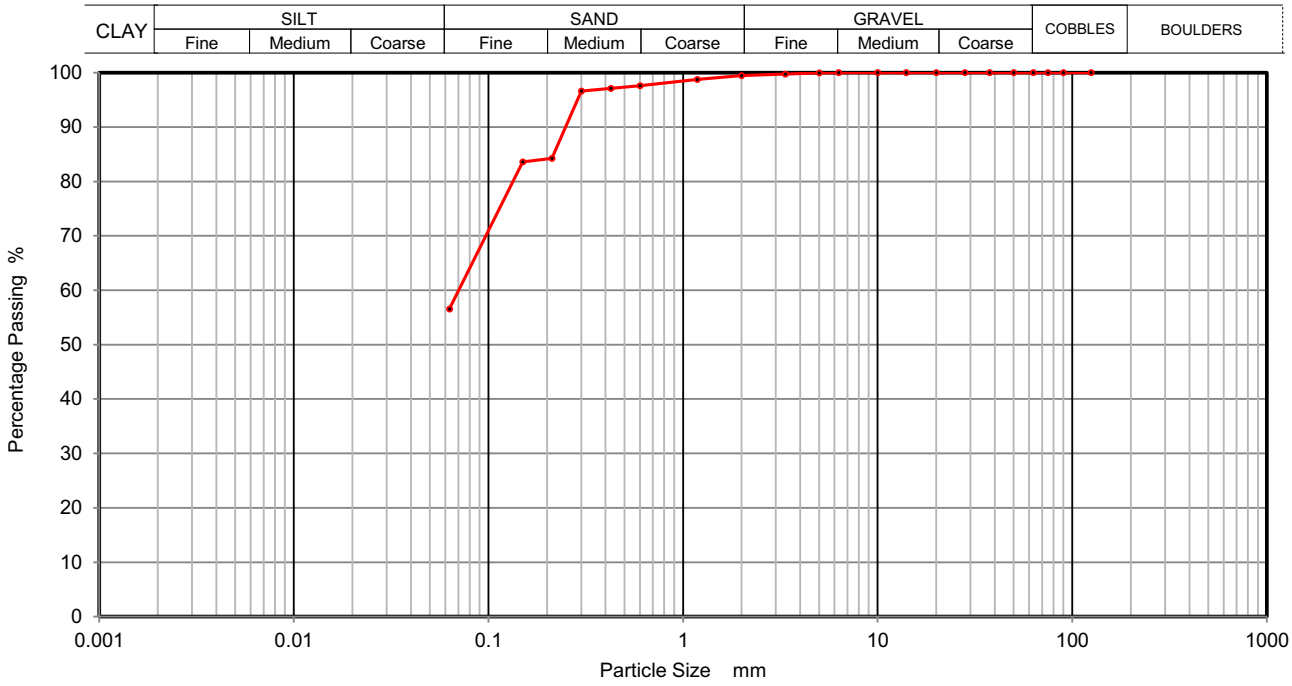
Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown slightly gravelly fine to coarse sandy SILT/ CLAY	Depth Top	12.00
		Depth Base	
Date Tested	27/09/2022	Sample Type	D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	98		
0.425	97		
0.3	97		
0.212	84		
0.15	84		
0.063	57		

Sample Proportions	% dry mass
Cobbles	0
Gravel	1
Sand	42
Silt and Clay	57

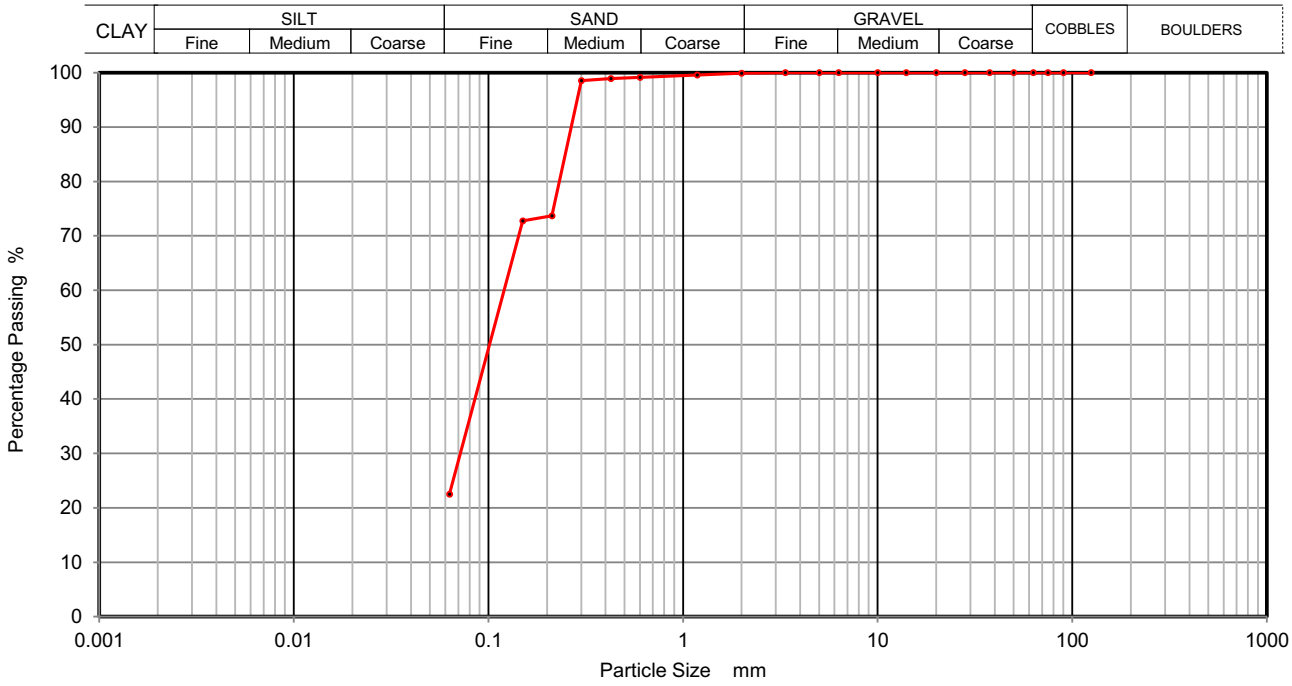
Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

UKAS TESTING
2788

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	**PARTICLE SIZE DISTRIBUTION** **BS 1377 Part 2:1990** **Wet Sieve, Clause 9.2**	Contract Number	61387
		Borehole/Pit No.	BH1
Site Name	9 The Mount, Hampstead	Sample No.	
Soil Description	Brown silty/ clayey fine to coarse SAND	Depth Top	14.50
		Depth Base	
Date Tested	27/09/2022	Sample Type	D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	99		
0.3	99		
0.212	74		
0.15	73		
0.063	22		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	78
Silt and Clay	22

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator
David Edwards

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Luke Wilkinson
Soils Ltd
Newton House
Cross Road
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Surrey
KT20 5SR

Derwentside Environmental Testing Services Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 22-07733

Site Reference:	9 The Mount, Hampstead
Project / Job Ref:	20353
Order No:	20353
Sample Receipt Date:	14/09/2022
Sample Scheduled Date:	14/09/2022
Report Issue Number:	1
Reporting Date:	21/09/2022

Authorised by:

[redacted]
Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 22-07733	**Date Sampled**	30/08/22	30/08/22	30/08/22	30/08/22	30/08/22
Soils Ltd	**Time Sampled**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: 9 The Mount, Hampstead	**TP / BH No**	BH1	BH1	BH1	BH1	BH1
Project / Job Ref: 20353	**Additional Refs**	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: 20353	**Depth (m)**	1.50	3.00	5.00	9.50	12.50
Reporting Date: 21/09/2022	**DETS Sample No**	612709	612710	612711	612712	612713

Determinand	Unit	RL	Accreditation					
pH	pH Units	N/a	MCERTS	7.8	7.6	7.3	5.7	6.2
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	565	< 200	616	257	1281
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.06	< 0.02	0.06	0.03	0.13
W/S Sulphate as SO_4 (2:1)	mg/l	< 10	MCERTS	27	< 10	< 10	28	16
W/S Sulphate as SO_4 (2:1)	g/l	< 0.01	MCERTS	0.03	< 0.01	< 0.01	0.03	0.02
Total Sulphur	%	< 0.02	NONE	0.03	< 0.02	< 0.02	< 0.02	0.05
Ammonium as NH_4	mg/kg	< 0.5	ISO17025	1	1.1	1.2	1.6	1.2
Ammonium as NH_4	mg/l	< 0.05	ISO17025	0.10	0.11	0.12	0.16	0.12
W/S Chloride (2:1)	mg/kg	< 1	MCERTS	12	3	8	12	12
W/S Chloride (2:1)	mg/l	< 0.5	MCERTS	5.9	1.5	4	6.1	6
Water Soluble Nitrate (2:1) as NO_3	mg/kg	< 3	MCERTS	65	7	5	11	6
Water Soluble Nitrate (2:1) as NO_3	mg/l	< 1.5	MCERTS	32.7	3.3	2.3	5.5	3
W/S Magnesium	mg/l	< 0.1	NONE	1	0.5	0.6	1.1	2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

DETS Ltd
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Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 22-07733	
Soils Ltd	
Site Reference: 9 The Mount, Hampstead	
Project / Job Ref: 20353	
Order No: 20353	
Reporting Date: 21/09/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
$ 612709	BH1	None Supplied	1.50	12.4	Brown sandy clay with stones and concrete
$ 612710	BH1	None Supplied	3.00	10.4	Brown sandy clay
$ 612711	BH1	None Supplied	5.00	19.7	Brown sandy clay
$ 612712	BH1	None Supplied	9.50	17.2	Light brown sandy clay
$ 612713	BH1	None Supplied	12.50	37.9	Light brown sandy clay

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S

$ samples exceeded recommended holding times

DETS Ltd
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Rose Lane
Lenham Heath
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Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 22-07733
Soils Ltd
Site Reference: 9 The Mount, Hampstead
Project / Job Ref: 20353
Order No: 20353
Reporting Date: 21/09/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

DETS Ltd
Unit 1, Rose Lane Industrial Estate
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List of HWOL Acronyms and Operators
DETS Report No: 22-07733
Soils Ltd
Site Reference: 9 The Mount, Hampstead
Project / Job Ref: 20353
Order No: 20353
Reporting Date: 21/09/2022

Acronym	**Description**
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym

Appendix E Foundation Design

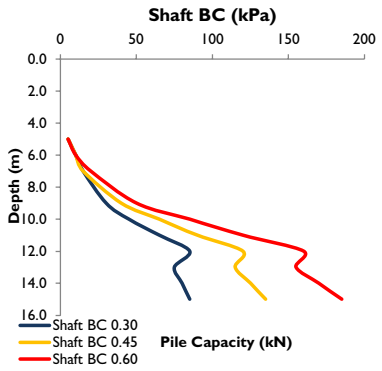
Appendix E.1 Preliminary Pile Design

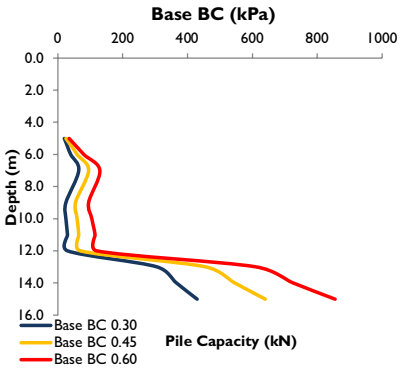
Preliminary Pile Working Loads

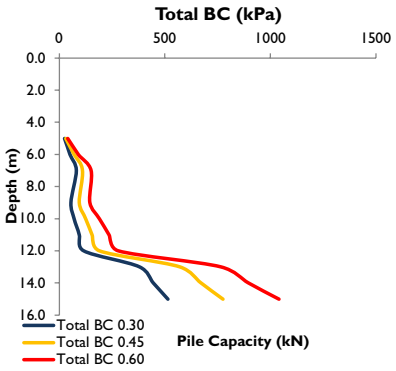
Single Vertically Loaded Pile (kN)

Parameters:		FOS:	Shaft	Base		Alpha Value (α):	0.45	Maximum no. of layers	3
Name:	LW	Clay:	3	3		NC Value:	9		
Job No:	20353								
Date:	12.10.22	Gravel:	3	3		Depth to top of strata:	4		

Notes:







		Pile Diameter (m):									
Pile Depths		0.3			0.45			0.6			
Material	(m bgl)	Shaft	Base	Total	Shaft	Base	Total	Shaft	Base	Total	Layer
Gravel	5.0	5	20	25	5	25	30	5	35	40	1
Gravel	6.0	10	40	50	10	60	70	10	80	90	1
Gravel	7.0	15	65	80	15	95	110	20	130	150	1
Clay	9.0	30	25	55	40	55	95	50	95	145	2
Clay	10.0	45	25	70	65	60	125	85	105	190	2
Clay	11.0	65	30	95	90	65	155	120	115	235	2
Clay	12.0	85	30	115	120	70	190	160	120	280	2
Gravel	13.0	75	305	380	115	455	570	155	610	765	3
Gravel	14.0	80	365	445	125	545	670	170	725	895	3
Gravel	15.0	85	430	515	135	640	775	185	855	1040	3

Appendix F Chemical Laboratory Analyses

Luke Wilkinson
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Tadworth
Surrey
KT20 5SR

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DETS Report No: 22-07734

Site Reference:	9 The Mount, Hampstead
Project / Job Ref:	20353
Order No:	20353
Sample Receipt Date:	14/09/2022
Sample Scheduled Date:	14/09/2022
Report Issue Number:	1
Reporting Date:	21/09/2022

Authorised by:

[redacted]

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.

DETS Ltd
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Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 22-07734	**Date Sampled**	31/08/22				
Soils Ltd	**Time Sampled**	None Supplied				
Site Reference: 9 The Mount, Hampstead	**TP / BH No**	WS2				
Project / Job Ref: 20353	**Additional Refs**	None Supplied				
Order No: 20353	**Depth (m)**	1.20 - 1.70				
Reporting Date: 21/09/2022	**DETS Sample No**	612714				

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected				
pH	pH Units	N/a	MCERTS	7.5				
Organic Matter (SOM)	%	< 0.1	MCERTS	1.7				
Arsenic (As)	mg/kg	< 2	MCERTS	11				
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2				
Chromium (Cr)	mg/kg	< 2	MCERTS	15				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	MCERTS	23				
Lead (Pb)	mg/kg	< 3	MCERTS	186				
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1				
Nickel (Ni)	mg/kg	< 3	MCERTS	9				
Selenium (Se)	mg/kg	< 2	MCERTS	< 3				
Vanadium (V)	mg/kg	< 1	MCERTS	29				
Zinc (Zn)	mg/kg	< 3	MCERTS	48				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)

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Soil Analysis Certificate - Speciated PAHs							
DETS Report No: 22-07734	**Date Sampled**	31/08/22					
Soils Ltd	**Time Sampled**	None Supplied					
Site Reference: 9 The Mount, Hampstead	**TP / BH No**	WS2					
Project / Job Ref: 20353	**Additional Refs**	None Supplied					
Order No: 20353	**Depth (m)**	1.20 - 1.70					
Reporting Date: 21/09/2022	**DETS Sample No**	612714					

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1				
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1				
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1				
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1				
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1				
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1				
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1				
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1				
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6				

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 22-07734	**Date Sampled**	31/08/22				
Soils Ltd	**Time Sampled**	None Supplied				
Site Reference: 9 The Mount, Hampstead	**TP / BH No**	WS2				
Project / Job Ref: 20353	**Additional Refs**	None Supplied				
Order No: 20353	**Depth (m)**	1.20 - 1.70				
Reporting Date: 21/09/2022	**DETS Sample No**	612714				

Determinand	Unit	RL	Accreditation					
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05				
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1				
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1				
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1				
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1				
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	7				
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	7				

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Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2

DETS Report No: 22-07734		**Date Sampled**	31/08/22					**Landfill Waste Acceptance Criteria Limits**		
Soils Ltd		**Time Sampled**	None Supplied					**Inert Waste Landfill**	**Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Site Reference: 9 The Mount, Hampstead		**TP / BH No**	WS2							
Project / Job Ref: 20353		**Additional Refs**	None Supplied							
Order No: 20353		**Depth (m)**	1.20 - 1.70							
Reporting Date: 21/09/2022		**DETS Sample No**	612714							
Determinand	**Unit**	**MDL**								
TOC[MU]	%	< 0.1	1					3%	5%	6%
Loss on Ignition	%	< 0.01	5.10					--	--	10%
BTEX[MU]	mg/kg	< 0.05	< 0.05					6	--	--
Sum of PCBs	mg/kg	< 0.1	< 0.1					1	--	--
Mineral Oil[MU]	mg/kg	< 10	< 10					500	--	--
Total PAH[MU]	mg/kg	< 1.7	< 1.7					100	--	--
pH[MU]	pH Units	N/a	7.5					--	>6	--
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	< 1					--	To be evaluated	To be evaluated
Eluate Analysis			**10:1 mg/l**			**Cumulative 10:1 mg/kg**		**Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)**		
Arsenic[U]			< 0.01			< 0.1		0.5	2	25
Barium[U]			< 0.02			< 0.2		20	100	300
Cadmium[U]			< 0.0005			< 0.005		0.04	1	5
Chromium[U]			< 0.005			< 0.05		0.5	10	70
Copper[U]			< 0.01			< 0.1		2	50	100
Mercury[U]			< 0.0005			< 0.005		0.01	0.2	2
Molybdenum[U]			0.003			0.03		0.5	10	30
Nickel[U]			< 0.007			< 0.07		0.4	10	40
Lead[U]			< 0.005			< 0.05		0.5	10	50
Antimony[U]			< 0.005			< 0.05		0.06	0.7	5
Selenium[U]			< 0.005			< 0.05		0.1	0.5	7
Zinc[U]			0.007			0.07		4	50	200
Chloride[U]			< 1.0			< 10		800	15000	25000
Fluoride[U]			< 0.5			< 5		10	150	500
Sulphate[U]			< 1.0			< 10		1000	20000	50000
TDS			41			410		4000	60000	100000
Phenol Index			< 0.01			< 0.1		1	-	-
DOC			15.4			154		500	800	1000
Leach Test Information										
Sample Mass (kg)			0.10							
Dry Matter (%)			89.3							
Moisture (%)			12							
Stage 1										
Volume Eluate L10 (litres)			0.89							

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion
Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepencies with current legislation
M Denotes MCERTS accredited test
U Denotes ISO17025 accredited test

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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 22-07734	
Soils Ltd	
Site Reference: 9 The Mount, Hampstead	
Project / Job Ref: 20353	
Order No: 20353	
Reporting Date: 21/09/2022	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
$ 612714	WS2	None Supplied	1.20 - 1.70	10.8	Brown sandy clay

Moisture content is part of procedure E003 & is not an accredited test
Insufficient Sample I/S
Unsuitable Sample U/S

$ samples exceeded recommended holding times

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Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 22-07734
Soils Ltd
Site Reference: 9 The Mount, Hampstead
Project / Job Ref: 20353
Order No: 20353
Reporting Date: 21/09/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

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UKAS TESTING 4480

Water Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 22-07734
Soils Ltd
Site Reference: 9 The Mount, Hampstead
Project / Job Ref: 20353
Order No: 20353
Reporting Date: 21/09/2022

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 – C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichlorometha	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	TPH CWG (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered

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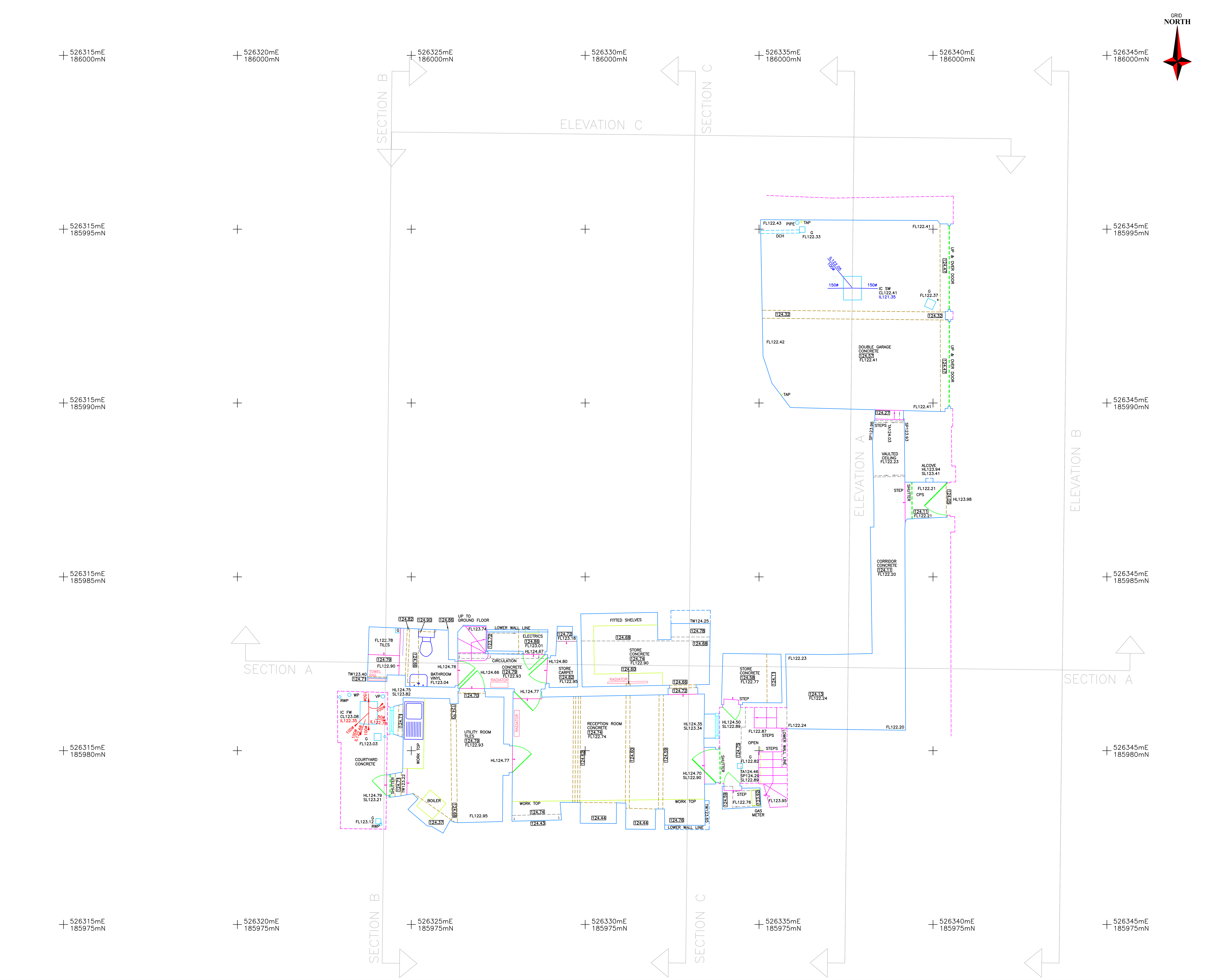
List of HWOL Acronyms and Operators
DETS Report No: 22-07734
Soils Ltd
Site Reference: 9 The Mount, Hampstead
Project / Job Ref: 20353
Order No: 20353
Reporting Date: 21/09/2022

Acronym	**Description**
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total

Det - Acronym
EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS _Total
EPH Texas (C8 - C10) - EH_1D_Total
Mineral Oil (C10 - C40) (BS EN 12457-2) - EH_CU_1D_AL
Total BTEX (BS EN 12457-2) - HS_1D_MS_Total

Parameter	Matrix Type	Suite Reference	Expanded Uncertainity Measurement	Unit
TOC	Soil	BS EN 12457	20.0	%
Loss on Ignition	Soil	BS EN 12457	35.0	%
BTEX	Soil	BS EN 12457	14.0	%
Sum of PCBs	Soil	BS EN 12457	23.0	%
Mineral Oil	Soil	BS EN 12457	9.0	%
Total PAH	Soil	BS EN 12457	11.6	%
pH	Soil	BS EN 12457	0.28	Units
Acid Neutralisation Capacity	Soil	BS EN 12457	18.0	%
Arsenic	Leachate	BS EN 12457	18.7	%
Barium	Leachate	BS EN 12457	11.6	%
Cadmium	Leachate	BS EN 12457	20.3	%
Chromium	Leachate	BS EN 12457	18.3	%
Copper	Leachate	BS EN 12457	24.3	%
Mercury	Leachate	BS EN 12457	23.7	%
Molybdenum	Leachate	BS EN 12457	14.7	%
Nickel	Leachate	BS EN 12457	16.1	%
Lead	Leachate	BS EN 12457	15.7	%
Antimony	Leachate	BS EN 12457	17.9	%
Selenium	Leachate	BS EN 12457	22.0	%
Zinc	Leachate	BS EN 12457	17.4	%
Chloride	Leachate	BS EN 12457	15.3	%
Fluoride	Leachate	BS EN 12457	16.4	%
Sulphate	Leachate	BS EN 12457	20.6	%
TDS	Leachate	BS EN 12457	12.0	%
Phenol Index	Leachate	BS EN 12457	14.0	%
DOC	Leachate	BS EN 12457	10.0	%
Clay Content	Soil	BS 3882: 2015	15.0	%
Silt Content	Soil	BS 3882: 2015	14.0	%
Sand Content	Soil	BS 3882: 2015	13.0	%
Loss on Ignition	Soil	BS 3882: 2015	35.0	%
pH	Soil	BS 3882: 2015	0.14	Units
Carbonate	Soil	BS 3882: 2015	16.0	%
Total Nitrogen	Soil	BS 3882: 2015	12.0	%
Phosphorus (Extractable)	Soil	BS 3882: 2015	24.0	%
Potassium (Extractable)	Soil	BS 3882: 2015	20.0	%
Magnesium (Extractable)	Soil	BS 3882: 2015	26.0	%
Zinc	Soil	BS 3882: 2015	14.9	%
Copper	Soil	BS 3882: 2015	16.0	%
Nickel	Soil	BS 3882: 2015	17.7	%
Available Sodium	Soil	BS 3882: 2015	23.0	%
Available Calcium	Soil	BS 3882: 2015	23.0	%
Electrical Conductivity	Soil	BS 3882: 2015	10.0	%

Appendix G Information Provided by the Client



Original Drawing Size: A1

NOTES:–

The accuracy and content of this drawing are dependent on the original specification and EDI should be consulted before use at other scales.

Where underground services are shown, all reasonable care has been taken within the spirit of the original specification and requirement. Before use of this information the user should consult EDI and satisfy themselves of the completeness and accuracy of such detail before undertaking any works. Due to the nature of this work and limitations imposed by ground conditions and the detection equipment no guarantee can be given that all services have been recorded. Trial holes should be dug at critical locations.

All reasonable care has been taken in the survey detail represented on this drawing but any discrepancies must be reported to EDI immediately.

Our aim is to produce the best possible results within the specification and cost constraints of our clients. Any comments are most welcome.

Levels shown at kerbs are channel level unless stated.

LEGEND

Features:

AV Air Valve
AB Air Brick
BD Bollard
BH Borehole
BM Benchmark
BP Boundary Post
BS Bus Stop
BT British Telecom
CL Cover Level
COL Column
CTV Cable TV Cover
DCH Drainage Channel
DF Drinking Fountain
DIS Disused
DK Drop Kerb
DPC Damp proof Course
EIC Electricity IC
EJ Expansion Joint
ER Earth Rod
FH Fire Hydrant
FHR Fire Hose Reel
FS Flagstaff
G Gully
GV Gas Valve
IC Inspection Cover
IL Invert Level
JBX Junction Box
KO Kerb Outlet
LB Letter Box
LBN Litter Bin
LLP Low Level LP
LP Lamp Post
MP Marker Post
MS Mile Stone
MT Mercury Telecom
OHL Overhead Line

OP Overflow Pipe
PM Parking Meter
PP Power Pole
RAD Radiator
RE Rodding Eye
RNP Road Name Plate
RS Road Sign
RSD Roller Shutter Door
RWP Rain Water Pipe
SD Service Duct
SV Stop Valve
TCB Telephone Call Box
TP Telegraph Pole
TS Traffic Signal
UB Universal Beam
UNK Unknown
UR Urinal
UTL Unable to lift
V Vent
VP Vent Pipe
WM Water Meter
WO Wash Out
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Building Level Details:

D Door
EL Eave Level
FFL Floor Level
FRL Flat Roof Level
HL Head Level
PPL Parapet Level
RL Ridge Level
SL Sill Level
SP Springer of Arch
TA Top of Arch
W Window
12.34 Ceiling/Beam Soffit

Boundary Types:

BW Barbed Wire
CB Close Boarded
CH Chainlink
CI Corrugated Iron
CP Chestnut Paling
IR Iron Railing
IW Interwoven
LL Larch Lap
PAL Palisade
PR Post & Rail
PW Post & Wire
TNR Timber Knee Rail
RTW Retaining Wall
VSF Vehicle Safety Fence
WMF Wire Mesh Fence

Surfaces & Finishes:

B Brickwork
BB Breeze Block
C Concrete
CLT Ceiling Tiles
CP Carpet
CPS Concrete Paving Slabs
CPT Carpet Tiles
CR Concrete Render
CT Ceramic Tiles
FT Floor Tiles
HBD Hardboard
L Linoleum
P Plaster
PAV Brick Paviors
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T Tarmac
TSP Textured Safety Paving
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Services:

C CATV cables
CCTV cables
D Data cables
E Electric cables
Foul water
G Gas pipes
Heating duct
SD Service ducts
Storm water
T Telecom cab.
U Unidentified
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Survey Station
Fence
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Edge of Vegetation
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Rev.	Job No.	Date	Revision Detail	Surveyor	Chkd
A	20057	12.21	Step up to bathroom added.	T Hart	TA

CLIENT

Charlton Brown Architects
The Belvedere
2 Back Lane
Hampstead, London
NW3 1HL

PROJECT

Basement Plan
9 The Mount
Hampstead
London
NW3 6SZ

Job No.	Surveyor	Checked	Date	Scale
20057	T Hart	RJA	Nov. 2021	1:50

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163–165 Ranelagh Road, Ipswich, Suffolk IP2 0AH
Telephone | 01473 211222 Fax | 01473 221660
Email | enquiries@edisurveys.co.uk

DRAWING No. 20057/B/01–01 REV. A

DATUM 120.00m

ELEVATION A

Original Drawing Size: A1

NOTES:–

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LEGEND

Features:

AV	Air Valve
AB	Air Brick
BD	Bollard
BH	Borehole
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BP	Boundary Post
BS	Bus Stop
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LB	Letter Box
LBN	Litter Bin
LLP	Low Level LP
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MP	Marker Post
MS	Mile Stone
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PP	Power Pole
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RE	Rodding Eye
RNP	Road Name Plate
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RSD	Roller Shutter Door
RWP	Rain Water Pipe
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Building Level Details:

D	Door
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Boundary Types:

BW	Barbed Wire
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Surfaces & Finishes:

B	Brickwork
BB	Breeze Block
C	Concrete
CLT	Ceiling Tiles
CT	Carpet
CPS	Concrete Paving Slabs
CPT	Carpet Tiles
CR	Concrete Render
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HBD	Hardboard
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Services:

CATV cables
CCTV cables
Data cables
Electric cables
Foul water
Gas pipes
Heating duct
Service ducts
Storm water
Telecom cab.
Unidentified
Water pipes
150ø Pipe Diameter/Flow
Overhead Lines

Survey Station
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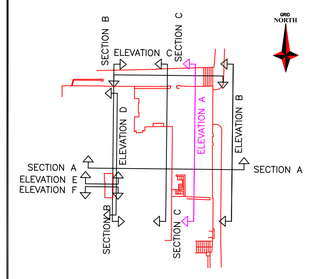
ELEVATION & SECTION LOCATION PLAN



(NOT TO SCALE)

Rev.	Job No.	Date	Revision Detail	Surveyor	Chkd
A	20057	12.21	Elevation C bay window added and extended,	T Hart	TA
			Section B–B corrected, Elevations D,E,F added		

CLIENT

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The Belvedere
2 Back Lane
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NW3 1HL

PROJECT

Elevations & Sections
9 The Mount
Hampstead
London
NW3 6SZ

Job No.	Surveyor	Checked	Date	Scale
20057	T Hart	RJA	Dec. 2021	1:50

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constructionline
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ISO 9001 REGISTERED FIRM

DRAWING No. 20057/ES/01–08

REV. A

Original Drawing Size: A1

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DATUM 120.00m

ELEVATION B

LEGEND

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BM	Benchmark
BP	Boundary Post
BS	Bus Stop
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Services:

- CATV cables
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- Foul water
- Gas pipes
- Heating duct
- Service ducts
- Storm water
- Telecom cab.
- Unidentified
- Water pipes
- Pipe Diameter/Flow
- Overhead Lines

- Survey Station
- Fence
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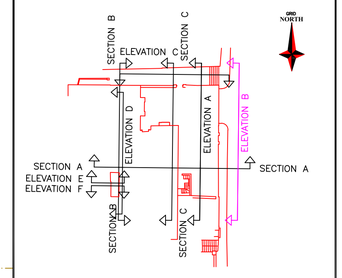

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A	20057	12.21	Elevation C bay window added and extended,	T Hart	TA
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CLIENT

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PROJECT

Elevations & Sections
9 The Mount
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London
NW3 6SZ

Job No.	Surveyor	Checked	Date	Scale
20057	T Hart	RJA	Dec. 2021	1:50

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constructionline
THE SURVEY ASSOCIATION
ISO 9001 REGISTERED FIRM

DRAWING No. 20057/ES/02-08

REV. A

DATUM 120.00m

ELEVATION C

Original Drawing Size: A1

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LEGEND

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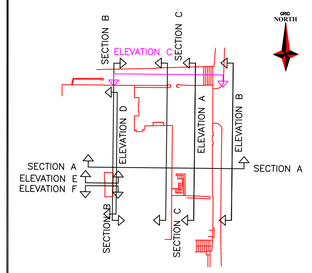

(NOT TO SCALE)

Rev.	Job No.	Date	Revision Detail	Surveyor	Chkd
A	20057	12.21	Elevation C bay window added and extended, Section B-B corrected, Elevations D,E,F added	T Hart	TA

CLIENT

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PROJECT

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9 The Mount
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DRAWING No. 20057/ES/03-08

REV. A

DATUM 120.00m

SECTION A – A

Original Drawing Size: A1

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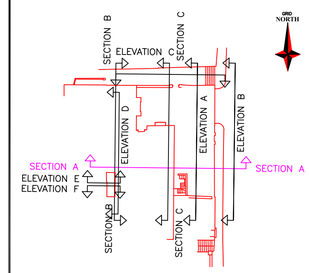

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DRAWING No. 20057/ES/04–08

REV. A

DATUM 120.00m

SECTION B – B

Original Drawing Size: A1

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Survey Station
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Painted Road Markings
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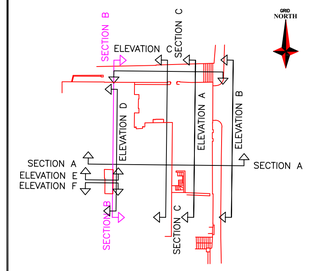

(NOT TO SCALE)

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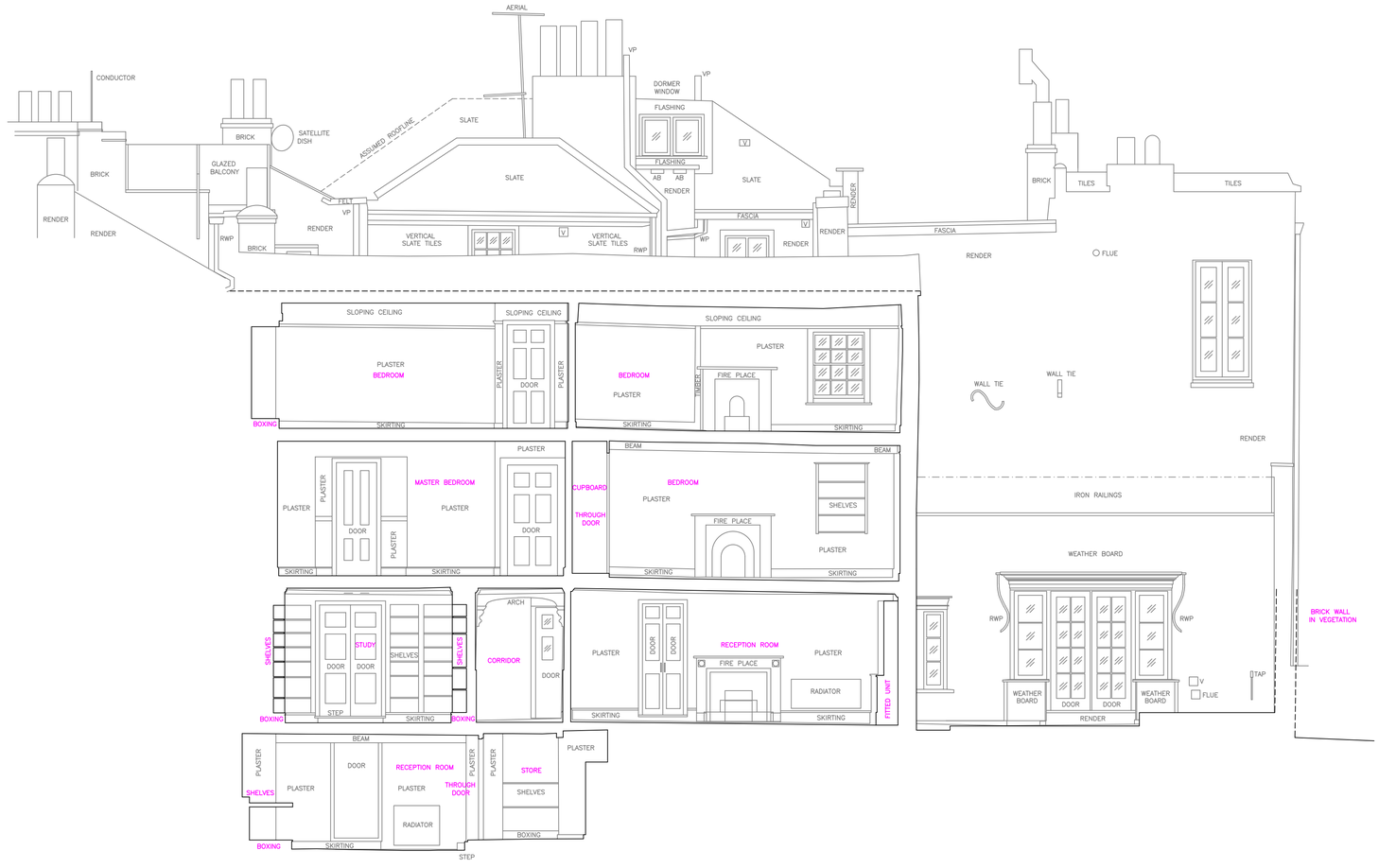
DRAWING No. 20057/ES/05–08

REV. A



DATUM 120.00m

SECTION C – C

Original Drawing Size: A1

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UB Universal Beam
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Building Level Details:

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Boundary Types:

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Electric cables
Foul water
Gas pipes
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Telecom cab.
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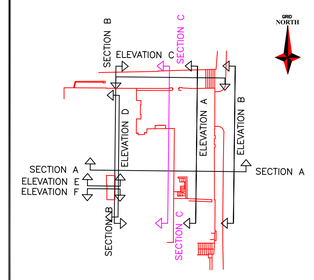

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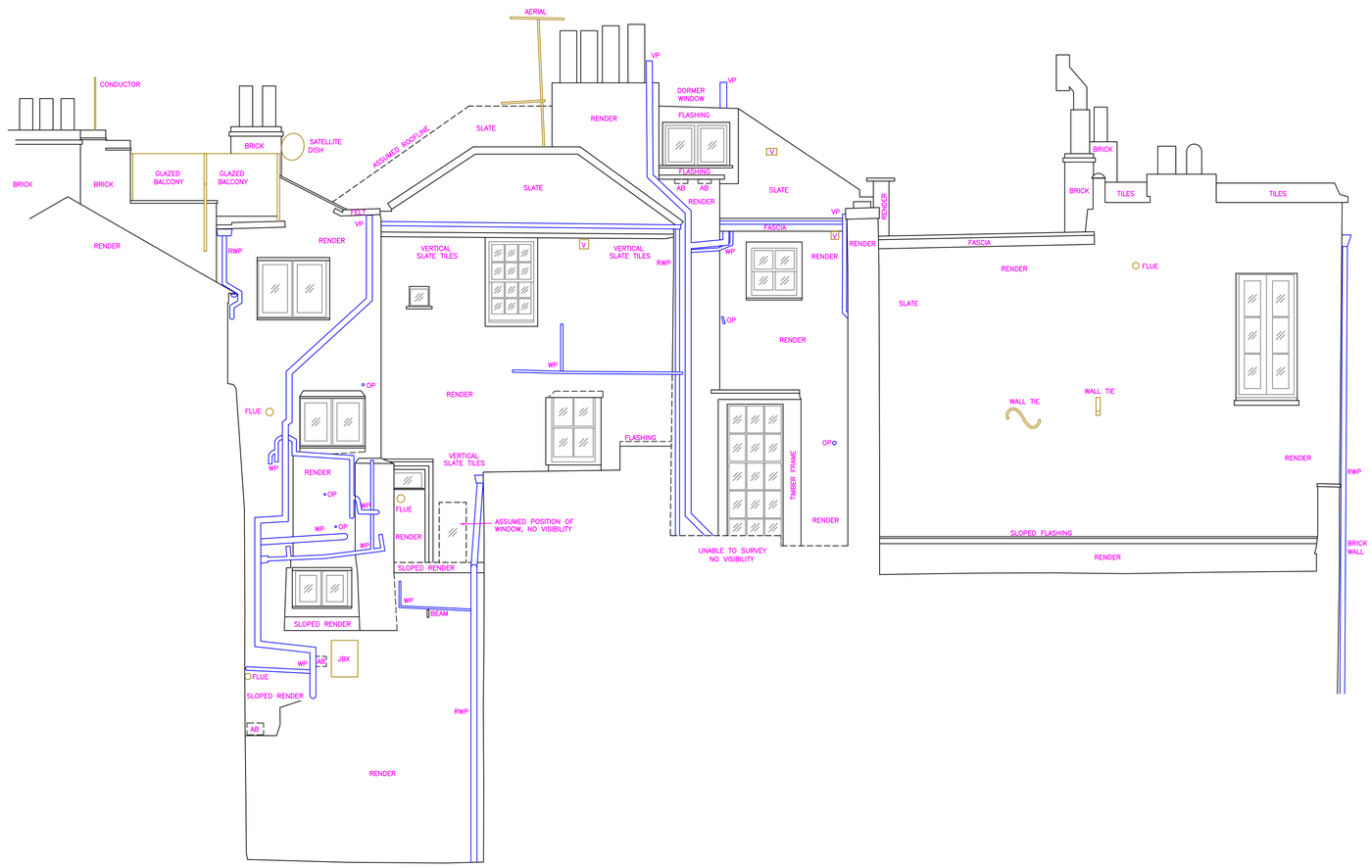
DRAWING No. 20057/ES/06–08 REV. A



DATUM 120.00m

ELEVATION D

Original Drawing Size: A1

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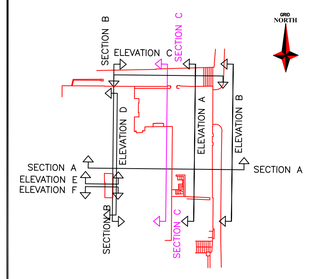

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Elevations & Sections
9 The Mount
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Job No.	Surveyor	Checked	Date	Scale
20057	T Hart	RJA	Dec. 2021	1:50

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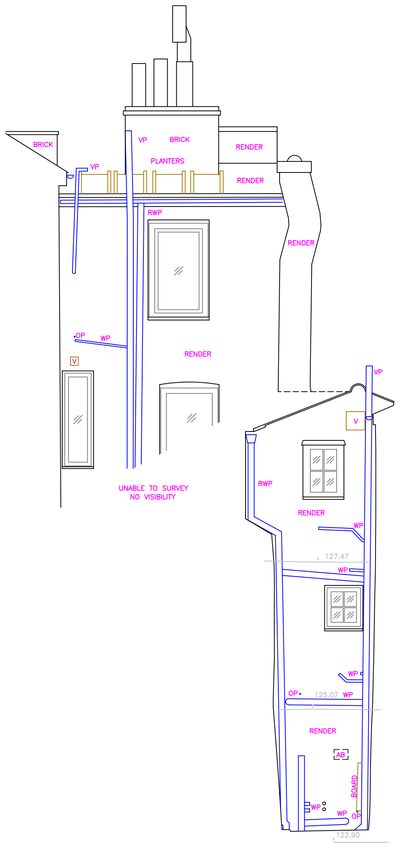
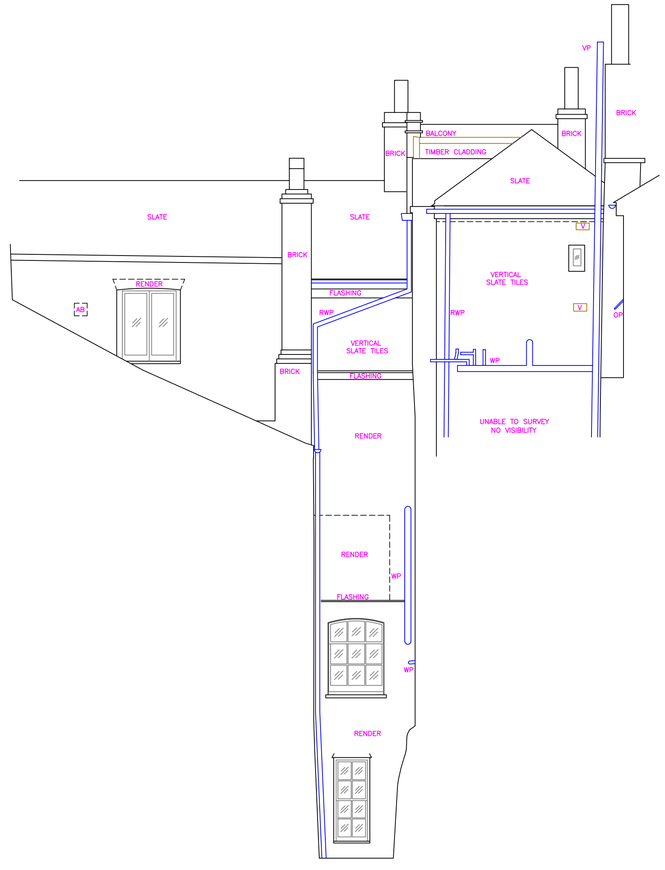
DRAWING No. 20057/ES/07-08

REV. A



DATUM 120.00m

ELEVATION E



DATUM 120.00m

ELEVATION F

Original Drawing Size: A1

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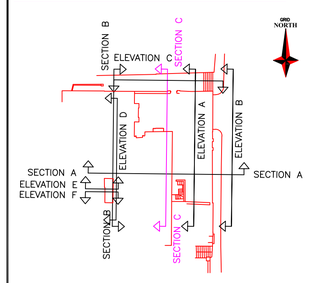

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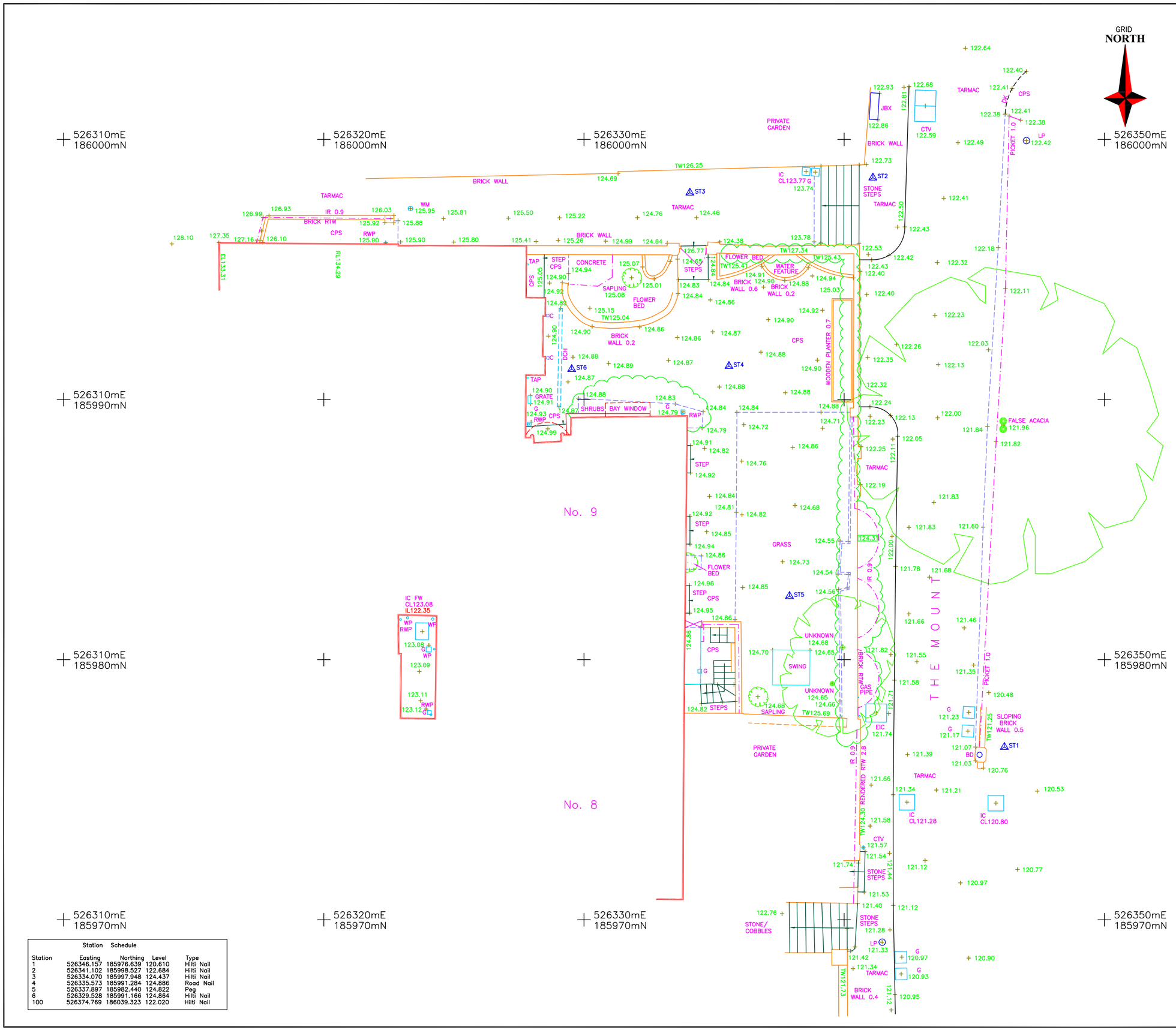
DRAWING No. 20057/ES/08–08

REV. A



Station Schedule

Station	Easting	Northing	Level	Type
1	526346.157	185976.639	120.610	Hilti Nail
2	526341.102	185998.527	122.684	Hilti Nail
3	526334.070	185997.948	124.437	Hilti Nail
4	526335.573	185991.284	124.886	Road Nail
5	526337.897	185982.440	124.822	Peg
6	526329.528	185991.166	124.864	Hilti Nail
100	526374.769	186039.323	122.020	Hilti Nail

Original Drawing Size: A2

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FRL Flat Roof Level
HL Head Level
PPL Parapet Level
RL Ridge Level
SL Sill Level
SP Springer of Arch
TA Top of Arch
W Window
12.34 Ceiling/Beam Soffit

Boundary Types:

BW Barbed Wire
CB Close Boarded
CH Chainlink
CI Corrugated Iron
CP Chestnut Paling
IR Iron Railing
IW Interwoven
LL Larch Lap
PAL Palisade
PR Post & Rail
PW Post & Wire
TNR Timber Knee Rail
RTW Retaining Wall
VSF Vehicle Safety Fence
WMF Wire Mesh Fence

Surfaces & Finishes:

B Brickwork
BB Breeze Block
C Concrete
CLT Ceiling Tiles
CP Carpet
CPS Concrete Paving Slabs
CPT Carpet Tiles
CR Concrete Render
CT Ceramic Tiles
FT Floor Tiles
HBD Hardboard
L Linoleum
P Plaster
PAV Brick Paviors
S Steel work
T Tarmac
TSP Textured Safety Paving
VT Vinyl Tiles

Services:

C CATV cables
CCTV cables
D Data cables
E Electric cables
Foul water
G Gas pipes
Heating duct
SD Service ducts
Storm water
T Telecom cab.
U Unidentified
W Water pipes
150ø Pipe Diameter/Flow
Overhead Lines

Survey Station
Fence
Gate
Painted Road Markings
Edge of Vegetation
Kerb/Drop Kerb
Tree
Top / Bottom Banks
Building
Overhead Building Detail
Wall

Control: All levels and co–ordinates are related to the datums described.

The horizontal control of this survey is based on Ordnance Survey grid as translated from GPS coordinates using Leica's SmartNet service. We have applied a reverse scale factor to maintain true ground distances, based on station ST1. The vertical control of this survey is based on OS datum as translated from GPS coordinates using the OSGM15 transformation as supplied by the OS. This may differ from the existing OS benchmarks in the area which should be disregarded; all levels should be taken from EDI survey stations.

Rev.	Job No.	Date	Revision Detail	Surveyor	Chkd

CLIENT

Charlton Brown Architects
The Belvedere
2 Back Lane
Hampstead, London
NW3 1HL

PROJECT

Topographic Survey
9 The Mount
Hampstead
London
NW3 6SZ

Job No.	Surveyor	Checked	Date	Scale
20057	T Hart	RJA	Nov. 2021	1:100

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Our Services:– Topographic Surveys, Measured Building Surveys, GPS Surveying and Control, 3D laser Scanning, Utility Surveying and Drainage Investigation.
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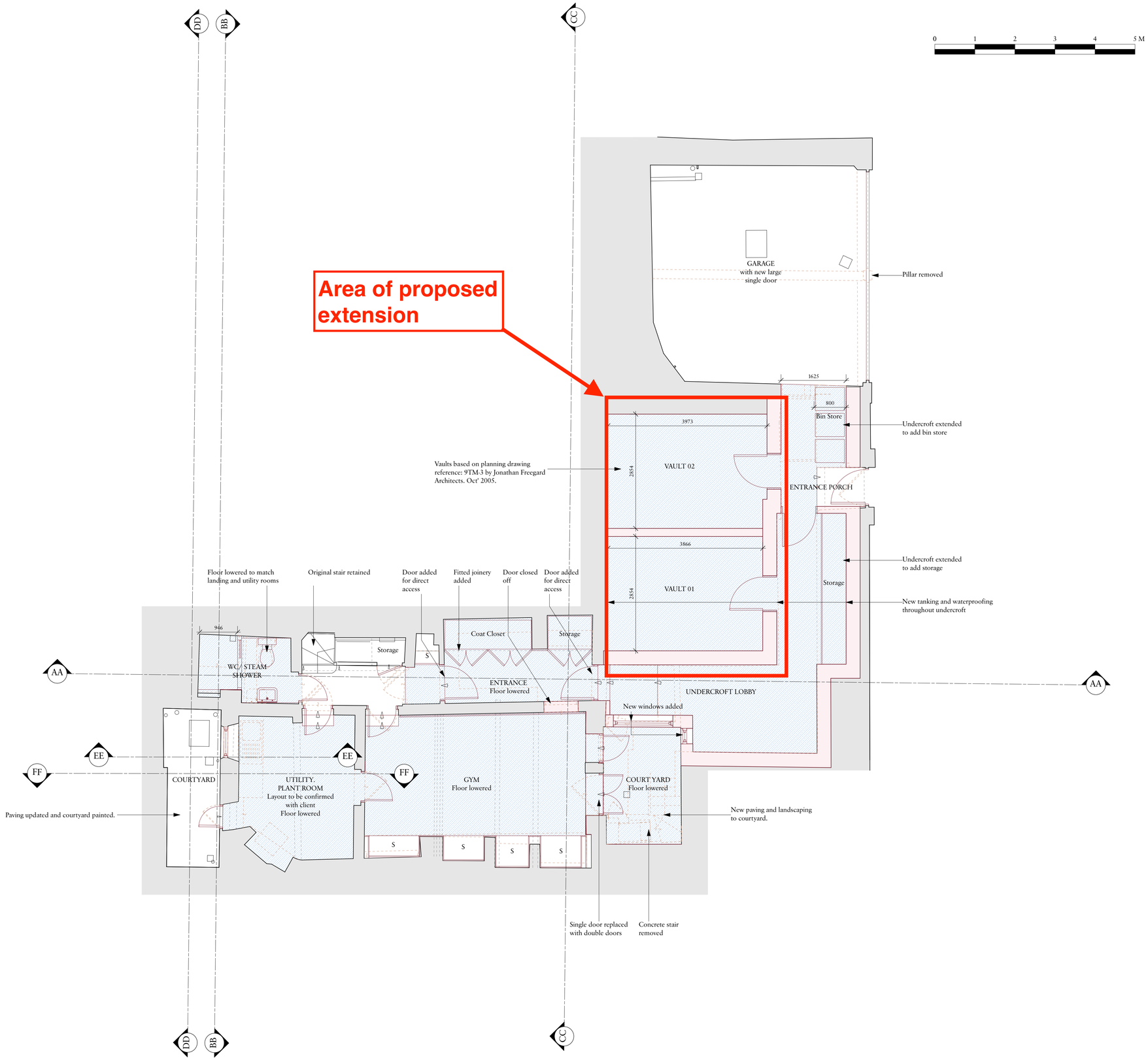
ISO 9001 REGISTERED FIRM

DRAWING No. 20057/T/01–01

REV. –



Important note

All dimensions in millimetres. Where dimensions are not given, drawings must not be scaled and the matter referred back to Charlton Brown Architects.

All dimensions and conditions are to be checked on site by the contractor prior to preparing drawings or commencing any work. The contractor is responsible for checking that there is no conflict between site dimensions and drawn dimensions.

In the event of any detail or dimensional conflict between Charlton Brown Architects drawings, the matter must be referred back to Charlton Brown Architects for clarification

N

Notes

-Existing doors replaced throughout the property except where new doors are added.
-Existing windows replaced throughout the property except where new windows are added.

-All fitted units to be confirmed by clients and Heritage Architects.

Key:

- Step Up
- S Storage
- Demolish
- New
- Floor lowered
- Floor levelled

Rev	Date	Details	By

Charlton Brown
Architecture & Interiors

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Client
Alex and Emma Barnett

Project
9 The Mount

Drawing Title
Lower Ground Floor Plan

Date	Drawn	Checked
04/02/2022	JLB	LS

Scale
1:50 @ A1

Issue Status
DRAFT

Project Number	Drawing Number	Revision
21041	PL-00-100	

constructure

Structural Designers

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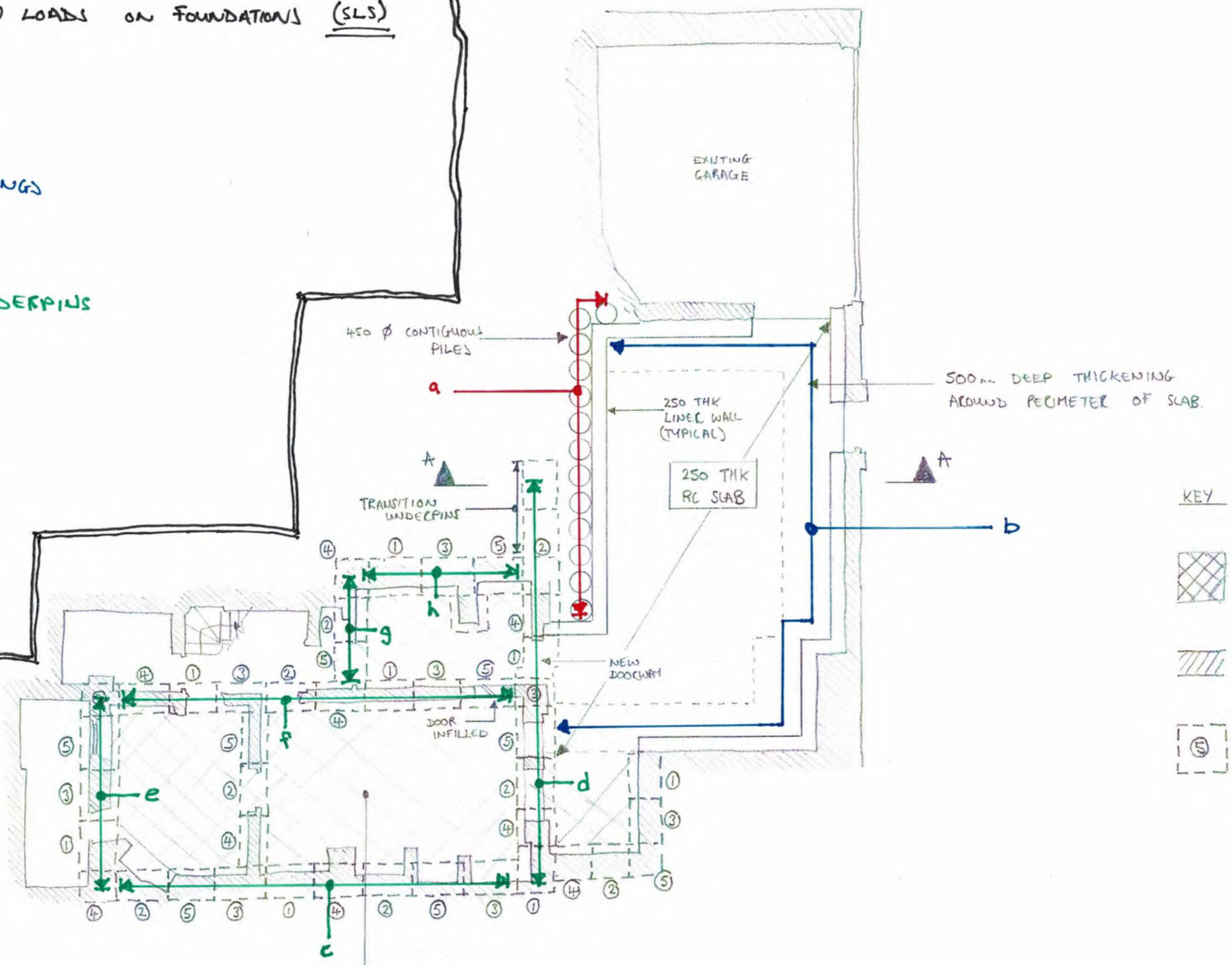
MARK-UP TO SHOW LOADS ON FOUNDATIONS (SLS)

CONTIG. PILES
a = 150 kN/m

NEW SPREAD FOOTINGS
b = 150 kN/m

MASS CONCRETE UNDERPINS
c = 135 kN/m
d = 100 kN/m
e = 90 kN/m
f = 85 kN/m
g = 75 kN/m
h = 75 kN/m



KEY

- DENOTES AREA OF FLOOR UNDER MAIN BUILDING TO BE LOWERED.
- DENOTES EXISTING MASONRY
- (5) DENOTES AREA OF UNDERPINNING CARRIED OUT IN 5 BAY SEQUENCE AS SHOWN

PROPOSED BASEMENT FLOOR PLAN

CONSTRUCTURE
MARK-UP
T.G.
15.8.22

Project No. 2230	Sheet Sk-100	Revision	
Date	Engineer T.G	Checked	Project 9 THE MOUNT

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