BS1377 : Part 7 : Clause 8 : 1990

Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 1 Depth (m): 1.20	Description: Firm orange brown fine sandy CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	176.2
Diameter (mm):	101.1
Moisture Content (%):	28
Bulk Density (Mg/m³):	1.97
Dry Density (Mg/m³):	1.54
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.7
Axial displacement rate (%/min):	2.3
Cell pressure (kPa):	25
Strain at failure (%):	10.2
Maximum Deviator Stress (kPa):	152
Shear Stress Cu (kPa):	76

Orientation and position of sample

Mode of failure:

Checked and Approved

Initials: SB

Date: 16/04/2013

Project Number: GEO / 19502

Project Name: OAK HILL AVENUE

Project Number: J13073

UKAS TESTING 1982

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BS1377 : Part 7 : Clause 8 : 1990

Quick Undrained Triaxial Compression Test

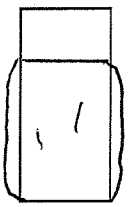
Borehole Number: 4 Sample Number: 2 Depth (m): 3.00	Description: Medium dense orange brown clayey fine SAND

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	167.4
Diameter (mm):	105.1
Moisture Content (%):	19
Bulk Density (Mg/m³):	1.93
Dry Density (Mg/m³):	1.62
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	1.1
Axial displacement rate (%/min):	2.4
Cell pressure (kPa):	60
Strain at failure (%):	20.3
Maximum Deviator Stress (kPa):	131
Shear Stress Cu (kPa):	66

Orientation and position of sample

Mode of failure:



Checked and Approved	Project Number:	
Initials: SB	Project Name:	GEO / 19502 OAK HILL AVENUE Project Number: J13073
Date: 16/04/2013		

UKAS TESTING 1982

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BS1377 : Part 7 : Clause 8 : 1990

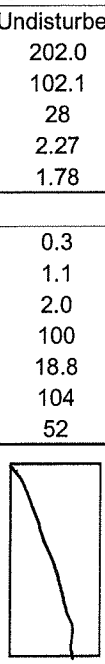
Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 3 Depth (m): 5.00	Description: Firm orange brown fine sandy CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.0
Diameter (mm):	102.1
Moisture Content (%):	28
Bulk Density (Mg/m³):	2.27
Dry Density (Mg/m³):	1.78
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	1.1
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	100
Strain at failure (%):	18.8
Maximum Deviator Stress (kPa):	104
Shear Stress Cu (kPa):	52

Orientation and position of sample



Mode of failure:

Checked and Approved

Initials: SB

Date: 16/04/2013

Project Number: **GEO / 19502**

Project Name: **OAK HILL AVENUE**

Project Number: J13073

UKAS TESTING 1962

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BS1377 : Part 7 : Clause 8 : 1990

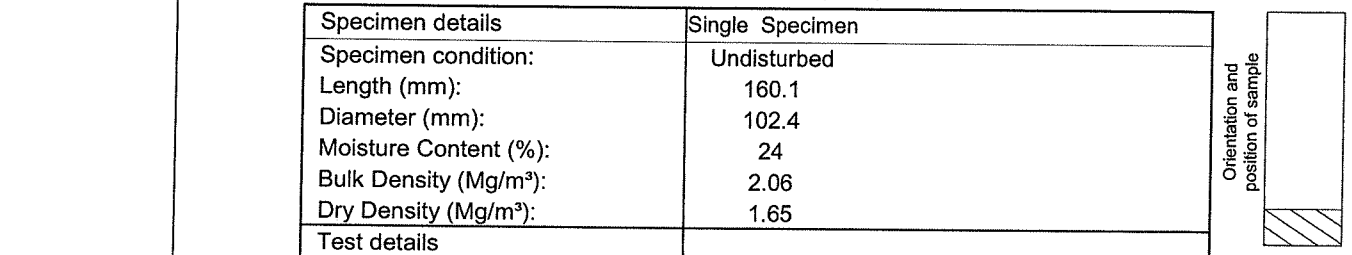
Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 4 Depth (m): 7.50	Description: Stiff grey silty CLAY

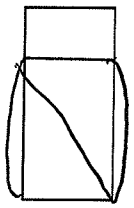
Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	160.1
Diameter (mm):	102.4
Moisture Content (%):	24
Bulk Density (Mg/m³):	2.06
Dry Density (Mg/m³):	1.65
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	1.1
Axial displacement rate (%/min):	2.5
Cell pressure (kPa):	150
Strain at failure (%):	20.0
Maximum Deviator Stress (kPa):	251
Shear Stress Cu (kPa):	126

Orientation and position of sample



Mode of failure:



Checked and Approved

Initials: SB

Date: 16/04/2013

Project Number: GEO / 19502

Project Name: OAK HILL AVENUE

Project Number: J13073

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BS1377 : Part 7 : Clause 8 : 1990

Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 5 Depth (m): 10.50	Description: Stiff dark brown fine sandy CLAY

Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	202.4
Diameter (mm):	102.5
Moisture Content (%):	26
Bulk Density (Mg/m³):	2.06
Dry Density (Mg/m³):	1.64
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.6
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	210
Strain at failure (%):	8.4
Maximum Deviator Stress (kPa):	285
Shear Stress Cu (kPa):	142

Orientation and position of sample

Mode of failure:

Checked and Approved Initials: SB Date: 16/04/2013	Project Number: GEO / 19502 Project Name: OAK HILL AVENUE Project Number: J13073	GEOLABS

BS1377 : Part 7 : Clause 8 : 1990

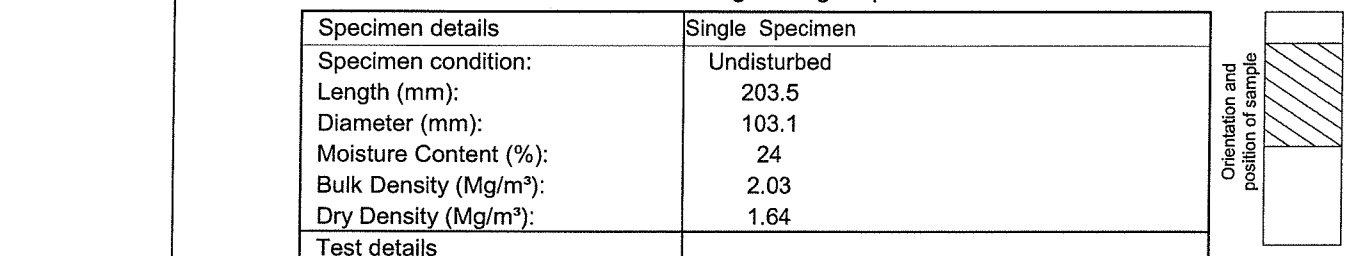
Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 6 Depth (m): 12.00	Description: Stiff dark grey CLAY

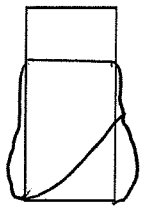
Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	203.5
Diameter (mm):	103.1
Moisture Content (%):	24
Bulk Density (Mg/m³):	2.03
Dry Density (Mg/m³):	1.64
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	1.1
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	240
Strain at failure (%):	19.7
Maximum Deviator Stress (kPa):	262
Shear Stress Cu (kPa):	131

Orientation and position of sample



Mode of failure:



Checked and Approved	Project Number:	
Initials: SB	Project Name:	GEO / 19502 OAK HILL AVENUE Project Number: J13073
Date: 16/04/2013		

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BS1377 : Part 7 : Clause 8 : 1990

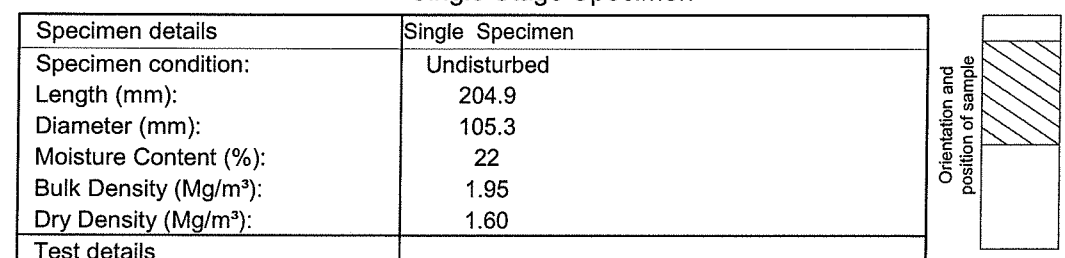
Quick Undrained Triaxial Compression Test

Borehole Number: 4 Sample Number: 7 Depth (m): 13.50	Description: Very stiff fissured dark brown silty CLAY

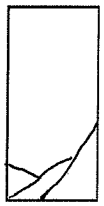
Single Stage Specimen

Specimen details	Single Specimen
Specimen condition:	Undisturbed
Length (mm):	204.9
Diameter (mm):	105.3
Moisture Content (%):	22
Bulk Density (Mg/m³):	1.95
Dry Density (Mg/m³):	1.60
Test details	
Latex membrane thickness (mm):	0.3
Membrane correction (kPa):	0.7
Axial displacement rate (%/min):	2.0
Cell pressure (kPa):	270
Strain at failure (%):	10.2
Maximum Deviator Stress (kPa):	413
Shear Stress Cu (kPa):	206

Orientation and position of sample



Mode of failure:



Checked and Approved	Project Number:	
Initials: SB Date: 16/04/2013	Project Name:	GEO / 19502 OAK HILL AVENUE Project Number: J13073

UKAS TESTING 1982

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GEA Geotechnical & Environmental Associates

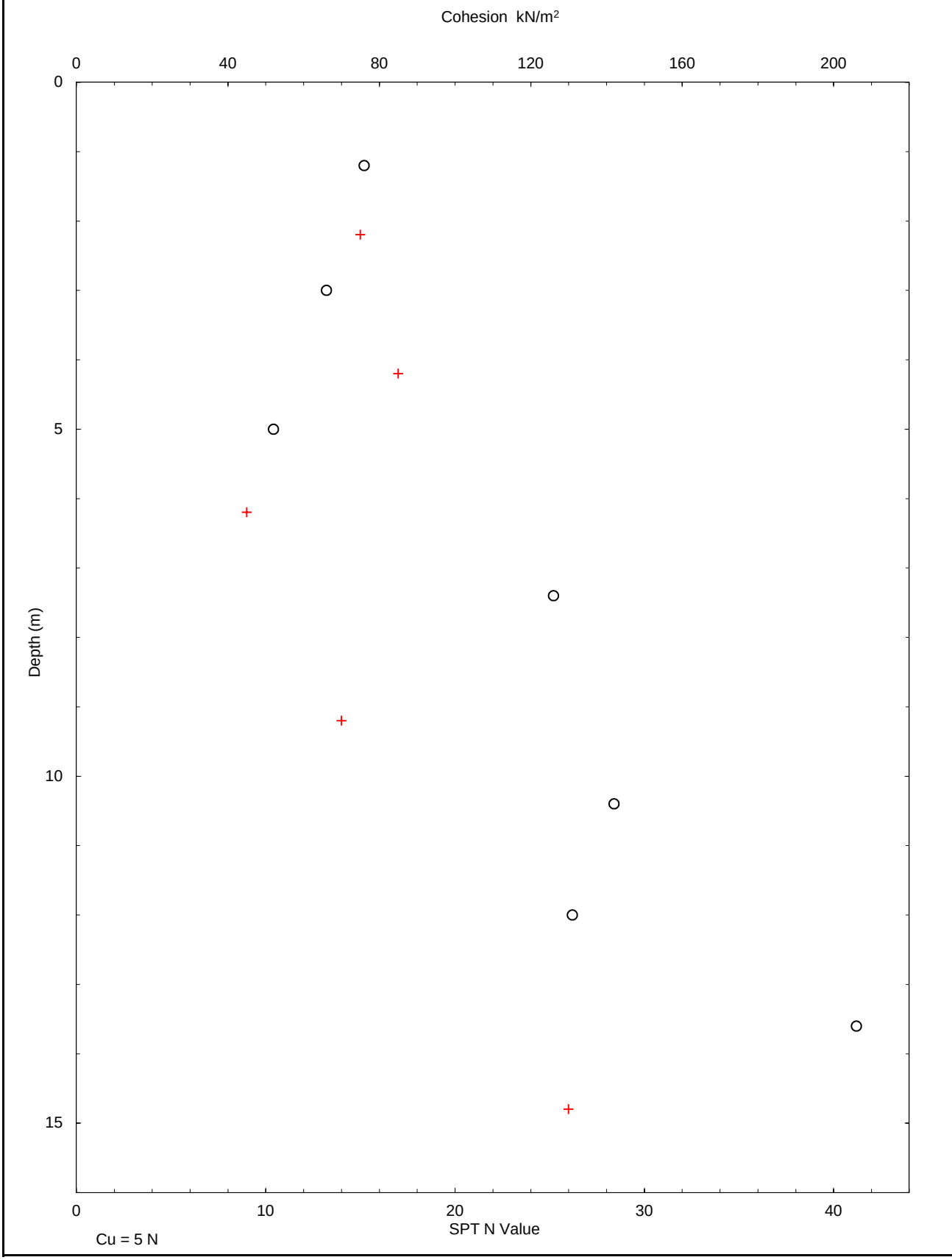
Church Farm
Gotham Road
Kingston on Soar
Notts NG11 0DE

SPT & Cohesion / Depth Graph

Site	2 Oakhill Avenue, London, NW3 7RE
Client	Mr Abhay Ruparell
Engineer	Price and Myers

Job Number J13073

Sheet 1 / 1



GEA
Tyttenhanger House
Coursers Road
St Albans Herts
AL4 0PG

FAO Matthew Elcock

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 4 April 2013

J13073 - 2 Oak Hill Avenue, London

Chemtest
The right chemistry to deliver results

Report Date
12 April 2013

Login Batch No					**227108**		
Chemtest LIMS ID					AI51121	AI51122	AI51123
Sample ID					BH1	BH2	BH3
Sample No							
Sampling Date					25/3/2013	25/3/2013	25/3/2013
Depth					0.30m	0.20m	0.50m
Matrix					*SOIL*	*SOIL*	*SOIL*
SOP↓	Determinand↓	CAS No↓	Units↓	*			
2030	Moisture		%	n/a	33.3	41.6	46.2
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02
2040	Soil colour			M	black	brown	brown
	Soil texture			M	clay	clay	clay
	Other material			M	roots	stones	stones
2010	pH			M	6.6	7.9	7.3
2300	Cyanide (total)	57125	mg kg-¹	M	<0.5	<0.5	<0.5
2325	Sulfide (Easily Liberatable)	18496258	mg kg-¹	M	1.3	0.91	1.4
2625	Total Organic Carbon		%	M	6.9	2.3	4.8
2220	Chloride (extractable)	16887006	g l-¹	M	0.010	<0.010	<0.010
2430	Sulfate (total) as SO4		mg kg-¹	M	1600	1200	1000
2450	Arsenic	7440382	mg kg-¹	M	37	29	19
	Cadmium	7440439	mg kg-¹	M	0.30	0.16	0.33
	Chromium	7440473	mg kg-¹	M	<5.0	8.3	<5.0
	Copper	7440508	mg kg-¹	M	48	48	55
	Mercury	7439976	mg kg-¹	M	0.48	0.48	1.3
	Nickel	7440020	mg kg-¹	M	5.3	<5.0	<5.0
	Lead	7439921	mg kg-¹	M	300	680	500
	Selenium	7782492	mg kg-¹	M	<0.20	<0.20	<0.20
	Zinc	7440666	mg kg-¹	M	160	210	130
2670	TPH >C5-C6		mg kg-¹	U	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹
	TPH >C6-C7		mg kg-¹	U	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹
	TPH >C7-C8		mg kg-¹	M	< 0.1 ¹	< 0.1 ¹	< 0.1 ¹
	TPH >C8-C10		mg kg-¹	M	0.27 ¹	0.38 ¹	0.95 ¹

¹The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 04/04/2013 and 11/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

GEA
Tyttenhanger House
Coursers Road
St Albans Herts
AL4 0PG

FAO Matthew Elcock

LABORATORY TEST REPORT

Results of analysis of 3 samples
received 4 April 2013

J13073 - 2 Oak Hill Avenue, London

Chemtest
The right chemistry to deliver results

Report Date
12 April 2013

					227108		
					AI51121	AI51122	AI51123
					BH1	BH2	BH3
					25/3/2013	25/3/2013	25/3/2013
					0.30m	0.20m	0.50m
					SOIL	*SOIL*	*SOIL*
2670	TPH >C10-C12		mg kg-¹	M	2.2 ¹	1.1 ¹	1.6 ¹
	TPH >C12-C16		mg kg-¹	M	5.1 ¹	3.8 ¹	3.0 ¹
	TPH >C16-C21		mg kg-¹	M	4.6 ¹	12 ¹	6.9 ¹
	TPH >C21-C35		mg kg-¹	M	6.0 ¹	39 ¹	63 ¹
	Total Petroleum Hydrocarbons		mg kg-¹	U	18 ¹	57 ¹	76 ¹
2700	Naphthalene	91203	mg kg-¹	M	0.52	< 0.1	0.48
	Acenaphthylene	208968	mg kg-¹	M	0.23	< 0.1	0.19
	Acenaphthene	83329	mg kg-¹	M	0.41	< 0.1	0.36
	Fluorene	86737	mg kg-¹	M	0.17	0.19	0.18
	Phenanthrene	85018	mg kg-¹	M	0.85	0.71	1.6
	Anthracene	120127	mg kg-¹	M	0.22	0.24	0.4
	Fluoranthene	206440	mg kg-¹	M	1.3	1.3	3.3
	Pyrene	129000	mg kg-¹	M	1.3	1	2.6
	Benzo[a]anthracene	56553	mg kg-¹	M	0.67	0.73	1.7
	Chrysene	218019	mg kg-¹	M	0.89	0.76	2.1
	Benzo[b]fluoranthene	205992	mg kg-¹	M	1.1	0.93	2.4
	Benzo[k]fluoranthene	207089	mg kg-¹	M	0.62	0.43	1.5
	Benzo[a]pyrene	50328	mg kg-¹	M	0.86	0.74	2.2
	Dibenzo[a,h]anthracene	53703	mg kg-¹	M	< 0.1	< 0.1	0.4
	Indeno[1,2,3-cd]pyrene	193395	mg kg-¹	M	< 0.1	0.48	1.8
	Benzo[g,h,i]perylene	191242	mg kg-¹	M	< 0.1	0.46	0.95
	Total (of 16) PAHs		mg kg-¹	M	9.1	8	22
2920	Phenols (total)		mg kg-¹	N	<0.3	<0.3	<0.3

¹The stability time for this analyte has been exceeded - these results may be compromised. The accreditation for these results remains unaffected.

All tests undertaken between 04/04/2013 and 11/04/2013

* Accreditation status

This report should be interpreted in conjuction with the notes on the accompanying cover page.

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Generic Risk-Based Soil Guideline Values

Site	2 Oakhill Avenue, London, NW3 7RE	**Job Number** J13073
Client	Mr Abhay Ruparell	**Sheet** 1 / 1
Engineer	Price and Myers	

Proposed End Use Residential with plant uptake

Soil pH 7

Soil Organic Matter content % 6.0

Contaminant	Guideline Value mg/kg	Data Source
Metals		
Arsenic	32	SGV
Cadmium	10	SGV
Chromium (III)	3000	LQM/CIEH
Chromium (VI)	4.3	LQM/CIEH
Copper	2,330	LQM/CIEH
Lead	450	withdrawn SGV
Elemental Mercury	1	SGV
Inorganic Mercury	170	SGV
Nickel	130	LQM/CIEH
Selenium	350	SGV
Zinc	3,750	LQM/CIEH
Hydrocarbons		
Benzene	0.33	SGV
Toluene	610	SGV
Ethyl Benzene	350	SGV
Xylene	230	SGV
Aliphatic C5-C6	110	LQM/CIEH
Aliphatic C6-C8	370	LQM/CIEH
Aliphatic C8-C10	110	LQM/CIEH
Aliphatic C10-C12	540	LQM/CIEH
Aliphatic C12-C16	3000	LQM/CIEH
Aliphatic C16-C35	76,000	LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH
Aromatic C8-C10	151	LQM/CIEH
Aromatic C10-C12	346	LQM/CIEH
Aromatic C12-C16	593	LQM/CIEH
Aromatic C16-C21	770	LQM/CIEH
Aromatic C21-C35	1230	LQM/CIEH
PRO (C_5 –C_{10})	1351	Calc
DRO (C_{12} –C_{28})	80,363	Calc
Lube Oil (C_{28} –C_{44})	77,230	Calc
TPH	**500**	Trigger for speciated testing

Contaminant	Guideline Value mg/kg	Data Source
Anions		
Soluble Sulphate	0.5 g/l	Structures
Sulphide	50	Structures
Chloride	400	Structures
Others		
Organic Carbon (%)	6	Methanogenic potential
Total Cyanide	140	WRAS
Total Mono Phenols	420	SGV
PAH		
Naphthalene	8.70	LQM/CIEH
Acenaphthylene	850	LQM/CIEH
Acenaphthene	1,000	LQM/CIEH
Fluorene	780	LQM/CIEH
Phenanthrene	380	LQM/CIEH
Anthracene	9,200	LQM/CIEH
Fluoranthene	670	LQM/CIEH
Pyrene	1,600	LQM/CIEH
Benzo(a) Anthracene	5.9	LQM/CIEH
Chrysene	9	LQM/CIEH
Benzo(b) Fluoranthene	7.0	LQM/CIEH
Benzo(k) Fluoranthene	10.0	LQM/CIEH
Benzo(a) pyrene	1.00	LQM/CIEH
Indeno(1 2 3 cd) Pyrene	4.2	LQM/CIEH
Dibenzo(a h) Anthracene	0.90	LQM/CIEH
Benzo (g h i) Perylene	47	LQM/CIEH
Total PAH	**6.7**	B(a)P / 0.15
Chlorinated Solvents		
1,1,1 trichloroethane (TCA)	28	LQM/CIEH
tetrachloroethane (PCA)	4.8	LQM/CIEH
tetrachloroethene (PCE)	4.8	LQM/CIEH
trichloroethene (TCE)	0.49	LQM/CIEH
1,2-dichloroethane (DCA)	0.014	LQM/CIEH
vinyl chloride (Chloroethene)	0.00099	LQM/CIEH
tetrachloromethane (Carbon tetra	0.089	LQM/CIEH
trichloromethane (Chloroform)	2.7	LQM/CIEH

Notes

Concentrations measured below the above values may be considered to represent 'uncontaminated conditions' which do not pose a risk to human health. Concentrations measured in excess of these valuesindicate a potential risk, and thus require further, site specific risk assessment.

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009

withdrawn SGV - Former SGV, derived from the CLEA 2000 model and published by DEFRA pending confirmation of new approach to modeling lead

LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009)derived using CLEA 1.04 model 2009

Calc - sum of nearest available carbon range specified including BTEX for PRO fraction

B(a)P / 0.15 - GEA experince indicates that Benzo(a) pyrene (one of the most common and most carcenogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
44858907_1_1

Customer Reference:
E12441

National Grid Reference:
525730, 185770

Slice:
A

Site Area (Ha):
0.11

Search Buffer (m):
1000

Site Details:

2 Oakhill Avenue
LONDON
NW3 7RE

Client Details:

Mr S Branch
GEA Ltd
Tyttenhanger House
Coursers Road
St Albans
Herts
AL4 0PG

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1			3	15
Local Authority Pollution Prevention and Control Enforcements	pg 4				1
Nearest Surface Water Feature	pg 4				Yes
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 4				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 4	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 5				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 5				1
Registered Waste Treatment or Disposal Sites					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 6	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 8		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 11	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 13		1	n/a	n/a
Fuel Station Entries	pg 13				4

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

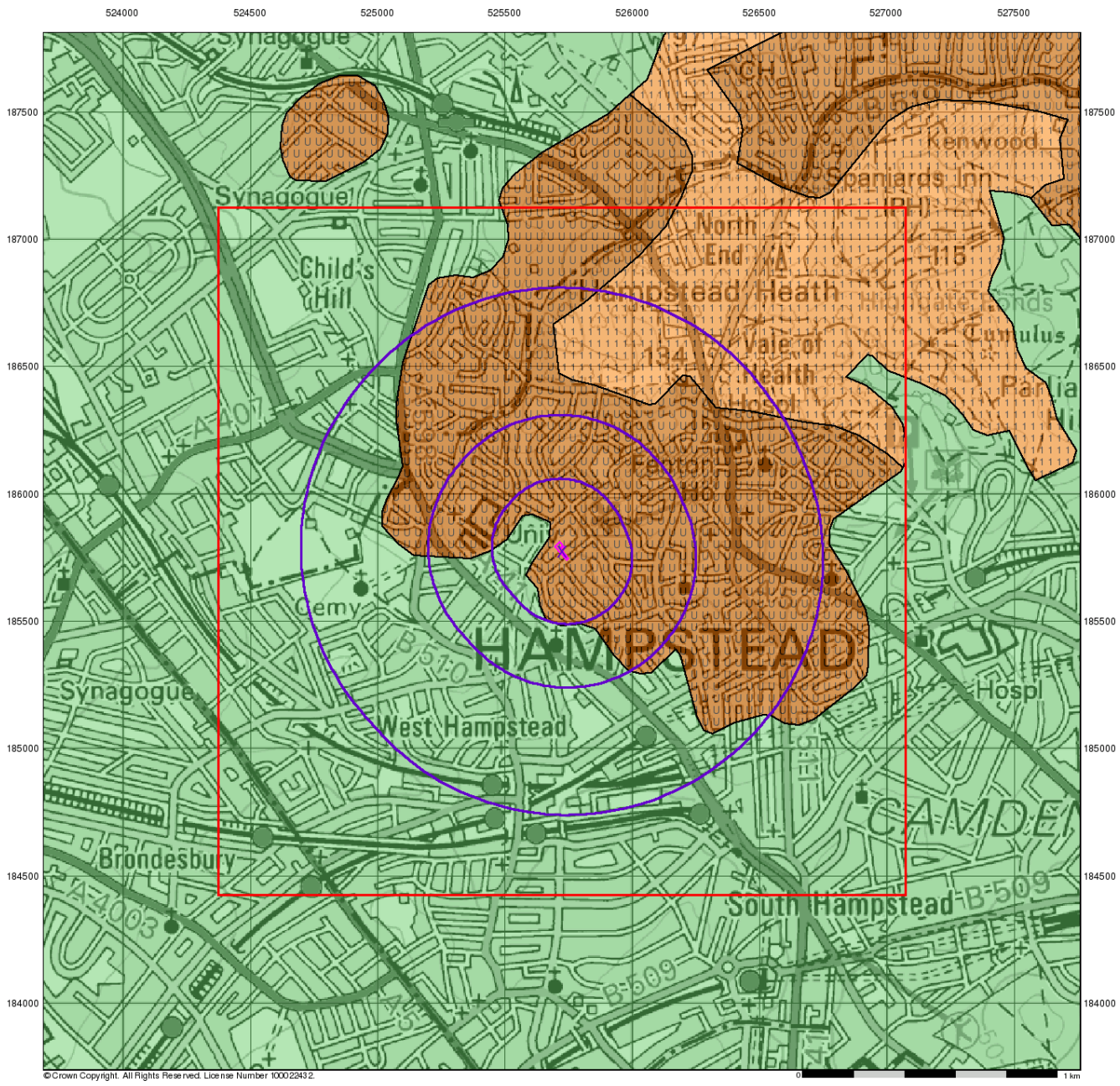
Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Local Authority Pollution Prevention and Controls** Name: Hampstead Express Dry Cleaning Location: 279a Finchley Road, London, Nw3 6lt Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC6 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	944	2	526178 184902
16	**Local Authority Pollution Prevention and Controls** Name: Castle Service Station Location: 713 Finchley Road, LONDON, NW11 8DH Authority: London Borough of Barnet, Environmental Health Department Permit Reference: PPC31 Dated: 13th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A17NW (NW)	948	3	525037 186471
17	**Local Authority Pollution Prevention and Control Enforcements** Location: 394 Finchley Road, Hampstead, London, Nw2 2hr Type: Air Pollution Control Enforcement Notice Reference: PPCDC031 Date Issued: 7th November 2008 Enforcement Date: Not Supplied Details: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	765	3	525083 186245
	Nearest Surface Water Feature	A18NE (N)	739	-	525889 186528
	Water Abstractions Operator: London Borough Of Camden Licence Number: 28/39/39/0219 Permit Version: 1 Location: Swiss Cottage Open Space- Borehole Authority: Environment Agency, Thames Region Abstraction: Municipal Grounds: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swiss Cottage Open Space, Winchester Road, London. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A5SW (SE)	1802	1	526800 184280
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000	A13SE (W)	0	1	525726 185774
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SE (W)	0	4	525726 185774
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Historical Landfill Sites** Licence Holder: Not Supplied Location: London NW6 Name: Canfield Place Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD12043 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: DON009	A8SE (S)	972	1	526029 184811
	Local Authority Landfill Coverage Name: London Borough of Camden - Has no landfill data to supply		0	7	525726 185774
	Local Authority Landfill Coverage Name: London Borough of Barnet - Has supplied landfill data		546	8	525473 186298
19	**Registered Waste Transfer Sites** Licence Holder: L.B. of Camden Licence Reference: DL137 Site Location: 152 West End Lane, CAMDEN, London, NW6 Operator Location: Old Town Hall, Haverstock Hill, CAMDEN, London, NW3 4QP Authority: Environment Agency - Thames Region, North East Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Elect.Capacitors Cont'G Pcb Fluid Prohibited Waste: Biodegradable/Putrescible Waste Clinical Wastes Notifiable Wastes Special Wastes	A8SW (S)	974	1	525530 184790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Barton, Bracklesham and Bagshot Beds	A13SE (W)	0	4	525726 185774
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SE (W)	0	5	525726 185774
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13NW (NW)	58	5	525655 185829
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13NE (NE)	92	5	525818 185818
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13NE (N)	191	5	525726 186000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SE (E)	251	5	526000 185774
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: London Arsenic Concentration: no data Cadmium Concentration: no data Chromium Concentration: no data Lead Concentration: no data Nickel Concentration: no data	A13SE (E)	254	5	526000 185710

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7189 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13SE (W)	0	4	525726 185774
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	224	4	525475 185780
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	57	4	525656 185828
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	94	4	525819 185818
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	239	4	525643 185523
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	94	4	525819 185818

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	4	525726 185774



Groundwater Vulnerability

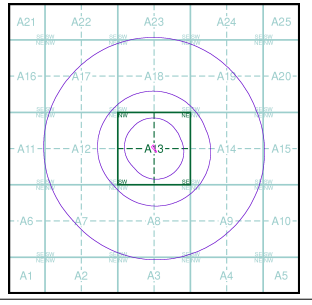
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



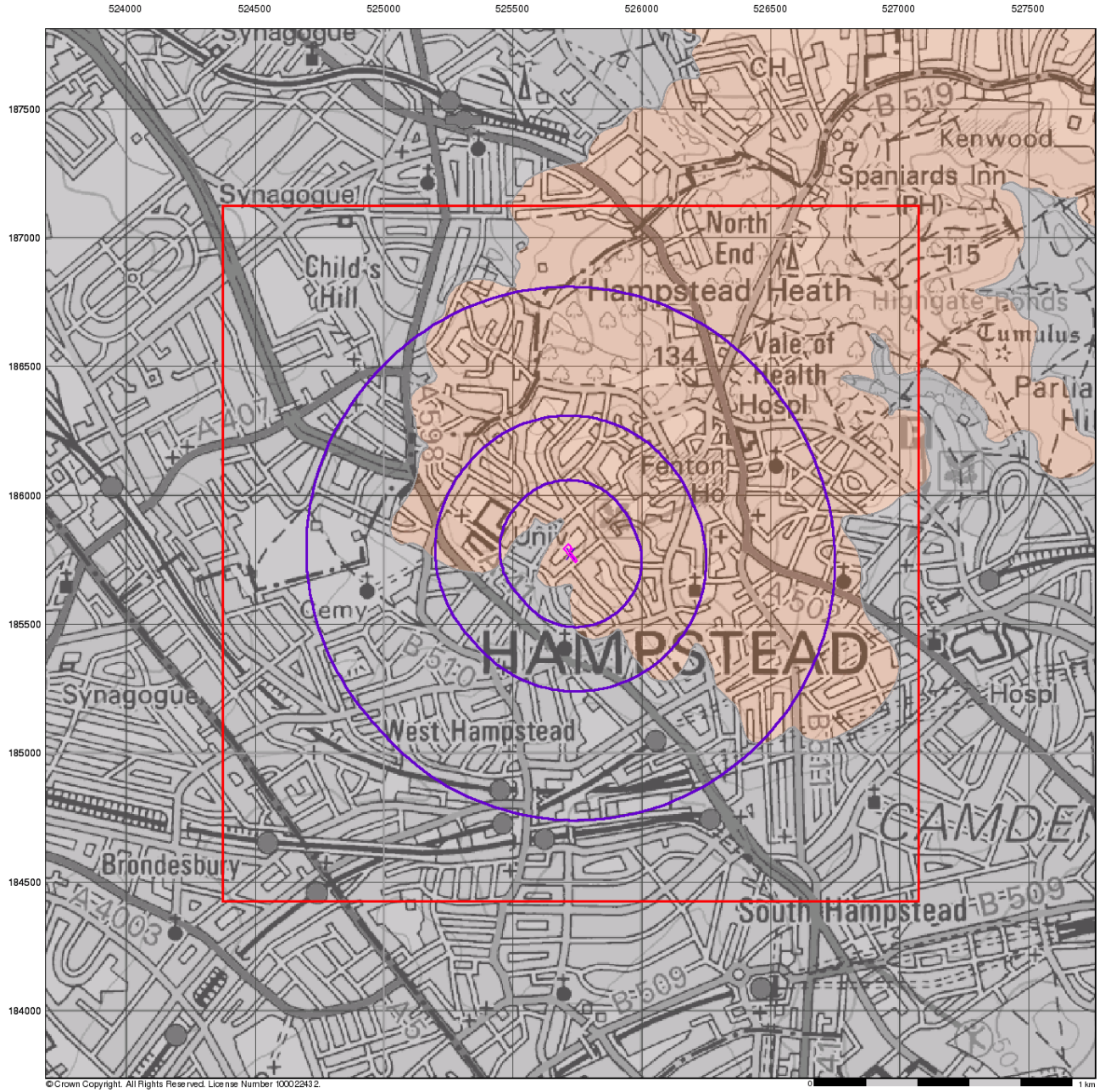
Order Details

Order Number:	44858907_1_1
Customer Ref:	E12441
National Grid Reference:	525730, 185770
Slice:	A
Site Area (Ha):	0.11
Search Buffer (m):	1000

Site Details

2 Oakhill Avenue, LONDON, NW3 7RE

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Bedrock Aquifer Designation

General

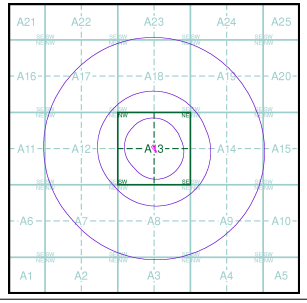
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



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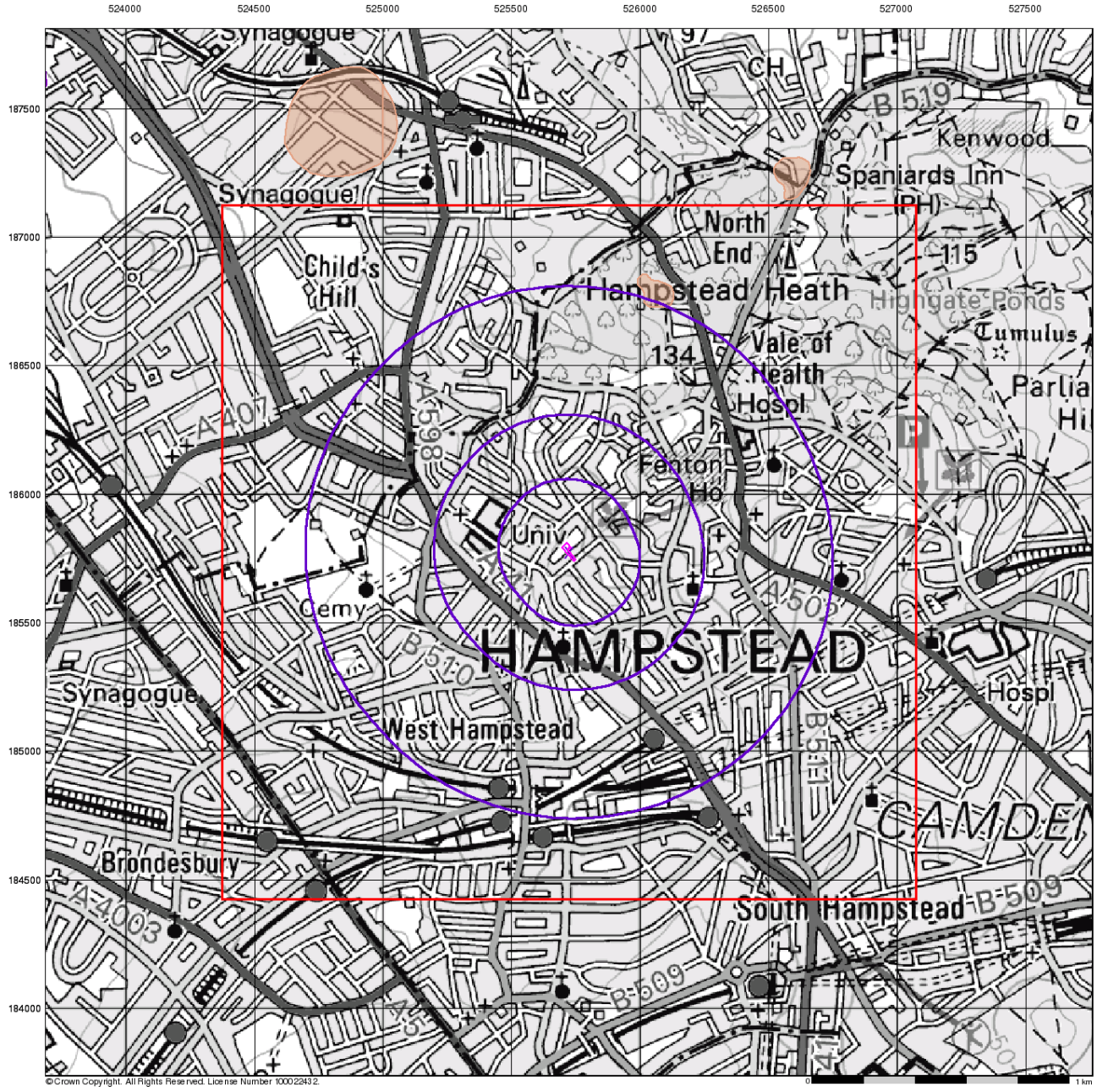


GEA Geotechnical & Environmental Associates

Superficial Aquifer Designation

General

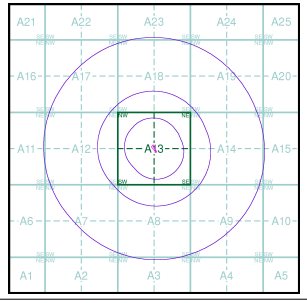
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



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Search Buffer (m):	1000

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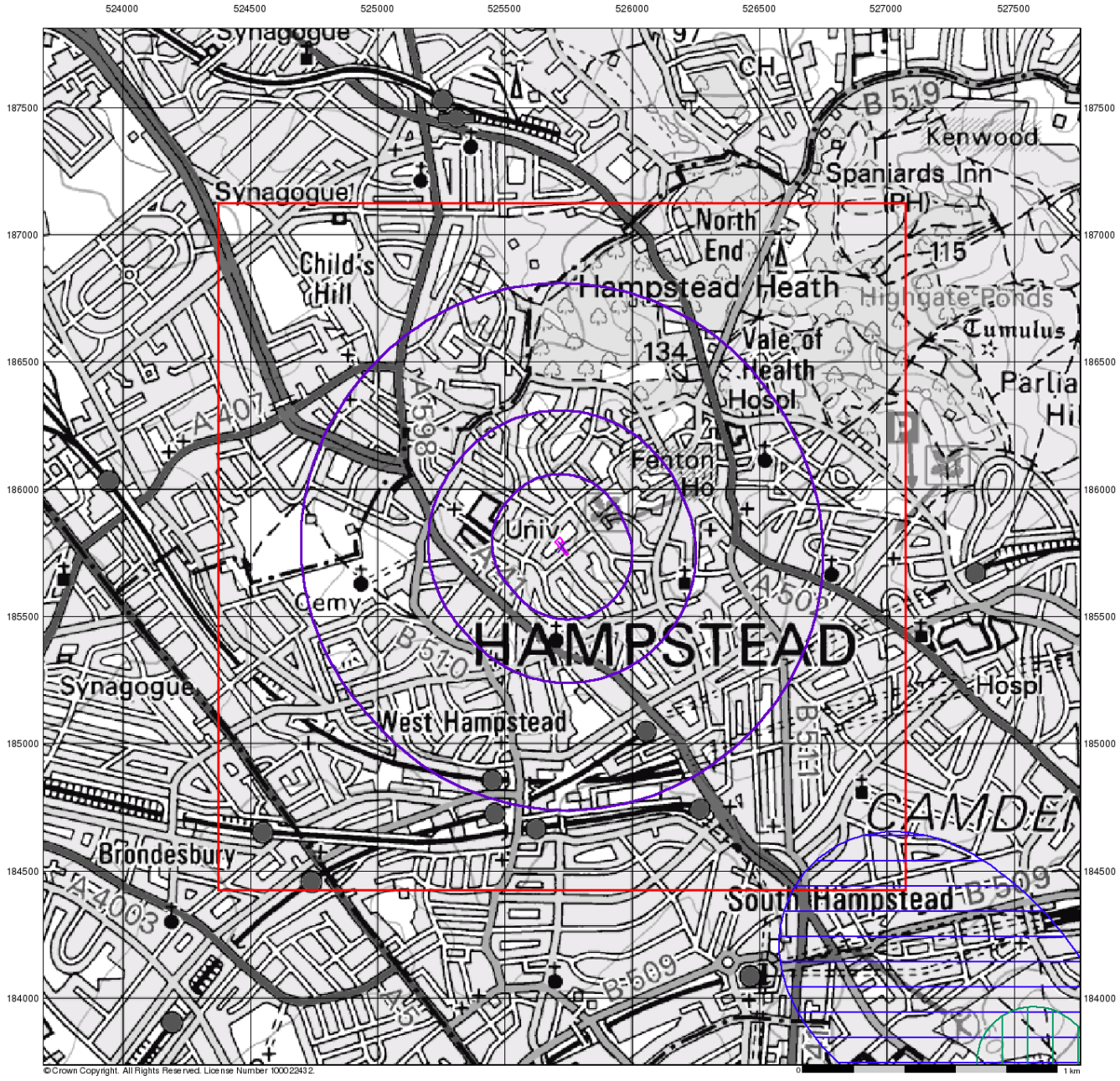


GEA Geotechnical & Environmental Associates

Source Protection Zones

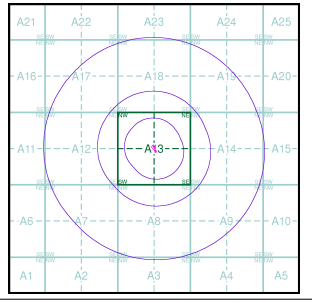
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Source Protection Zone I
Source Protection Zone II
Source Protection Zone III
Zone of Special Interest
Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



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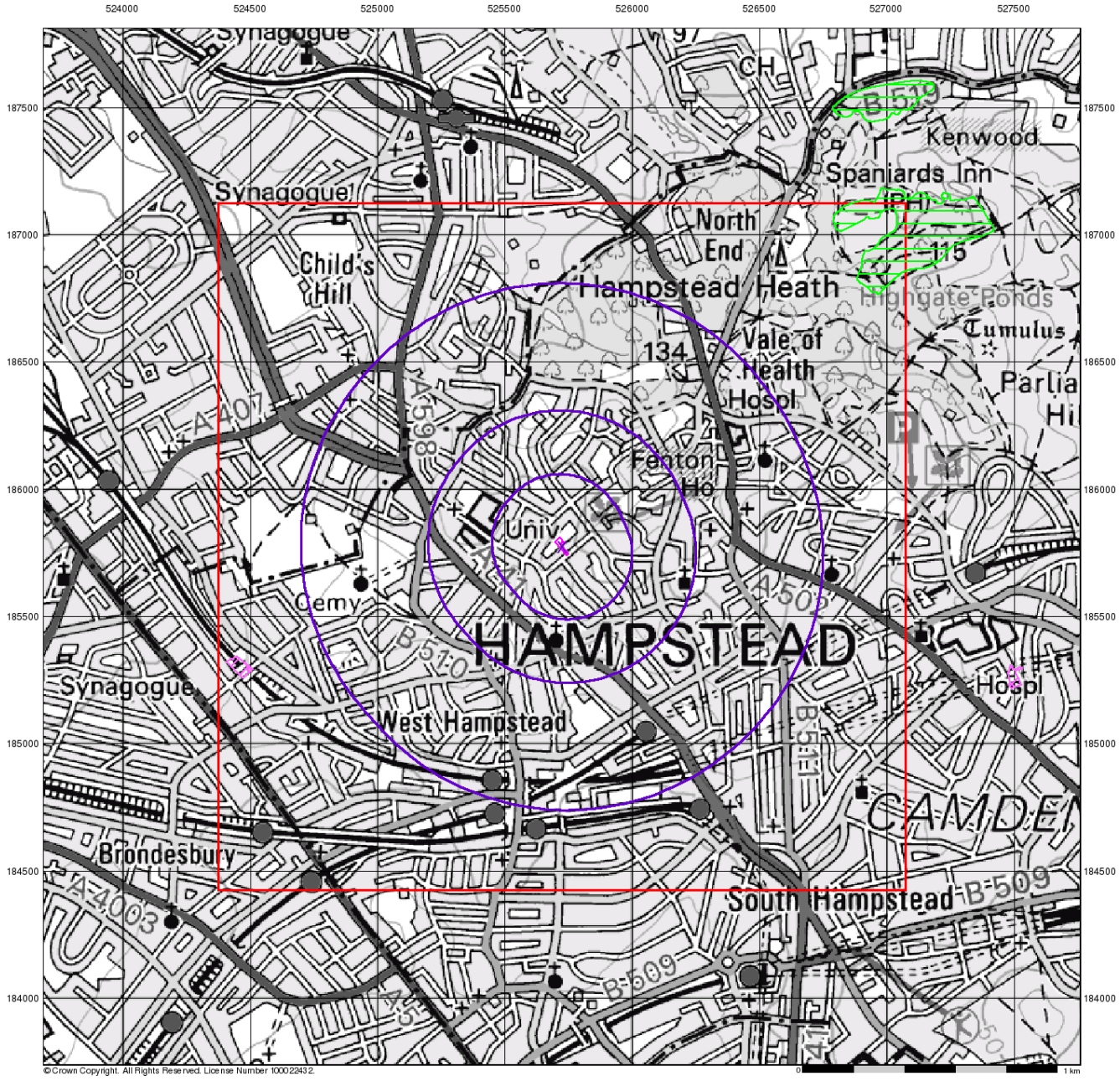

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Sensitive Land Uses

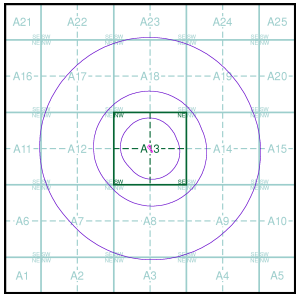
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



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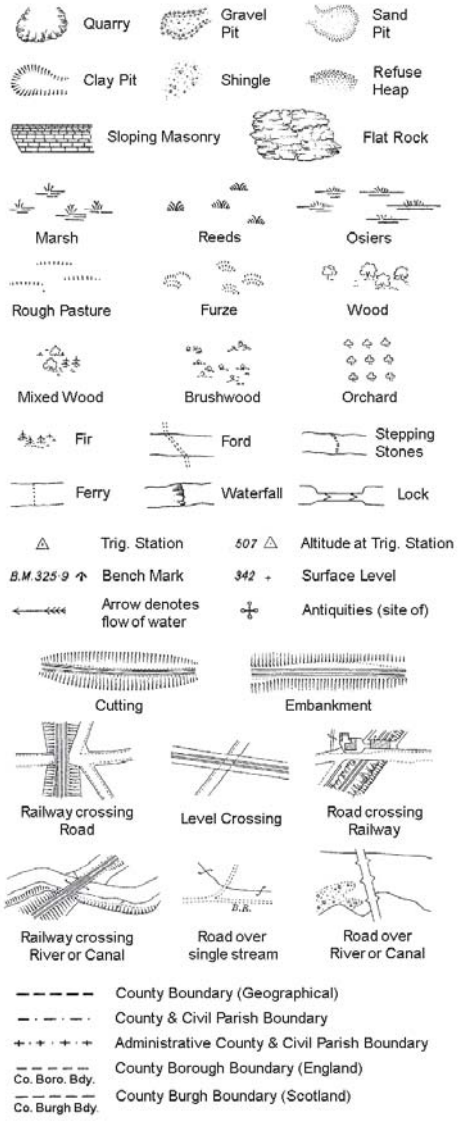
Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

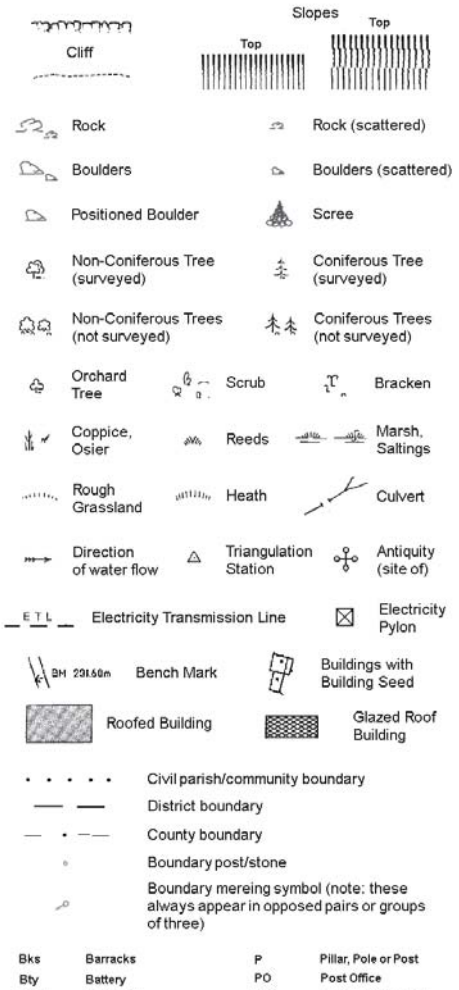


B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250



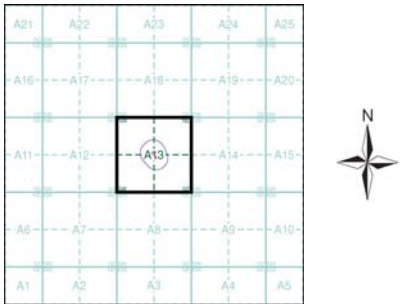
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

GEA Geotechnical & Environmental Associates

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
London	1:2,500	1879	2
Middlesex	1:2,500	1894	3
London	1:2,500	1896	4
London	1:2,500	1915	5
London	1:2,500	1934	6
Historical Aerial Photography	1:1,250	1946 - 1949	7
Ordnance Survey Plan	1:1,250	1954	8
Ordnance Survey Plan	1:2,500	1954 - 1955	9
Additional SIMs	1:2,500	1954 - 1955	10
Additional SIMs	1:1,250	1954 - 1966	11
Ordnance Survey Plan	1:1,250	1962 - 1973	12
Ordnance Survey Plan	1:2,500	1969 - 1970	13
Ordnance Survey Plan	1:1,250	1971 - 1981	14
Supply of Unpublished Survey Information	1:1,250	1974	15
Ordnance Survey Plan	1:1,250	1981	16
Additional SIMs	1:1,250	1986	17
Large-Scale National Grid Data	1:1,250	1991	18
Large-Scale National Grid Data	1:1,250	1991 - 1995	19
Large-Scale National Grid Data	1:1,250	1994 - 1995	20

Historical Map - Segment A13



Order Details

Order Number: 44858907_1_1
Customer Ref: E12441
National Grid Reference: 525730, 185770
Slice: A
Site Area (Ha): 0.11
Search Buffer (m): 100

Site Details

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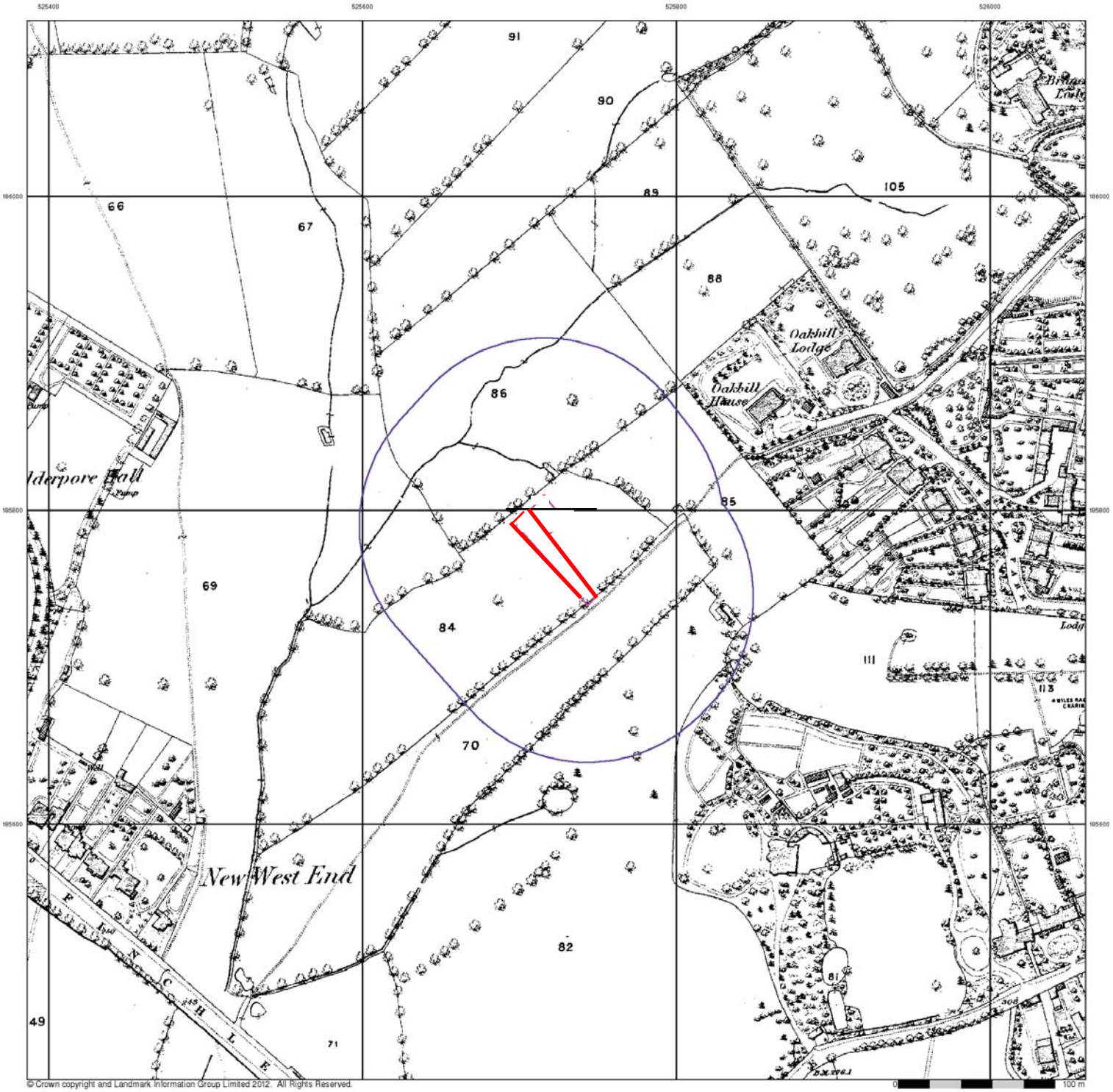


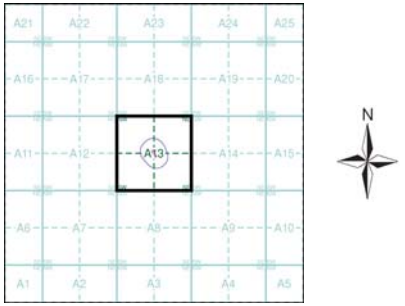
GEA Geotechnical & Environmental Associates

London
Published 1879
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

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Customer Ref:	E12441
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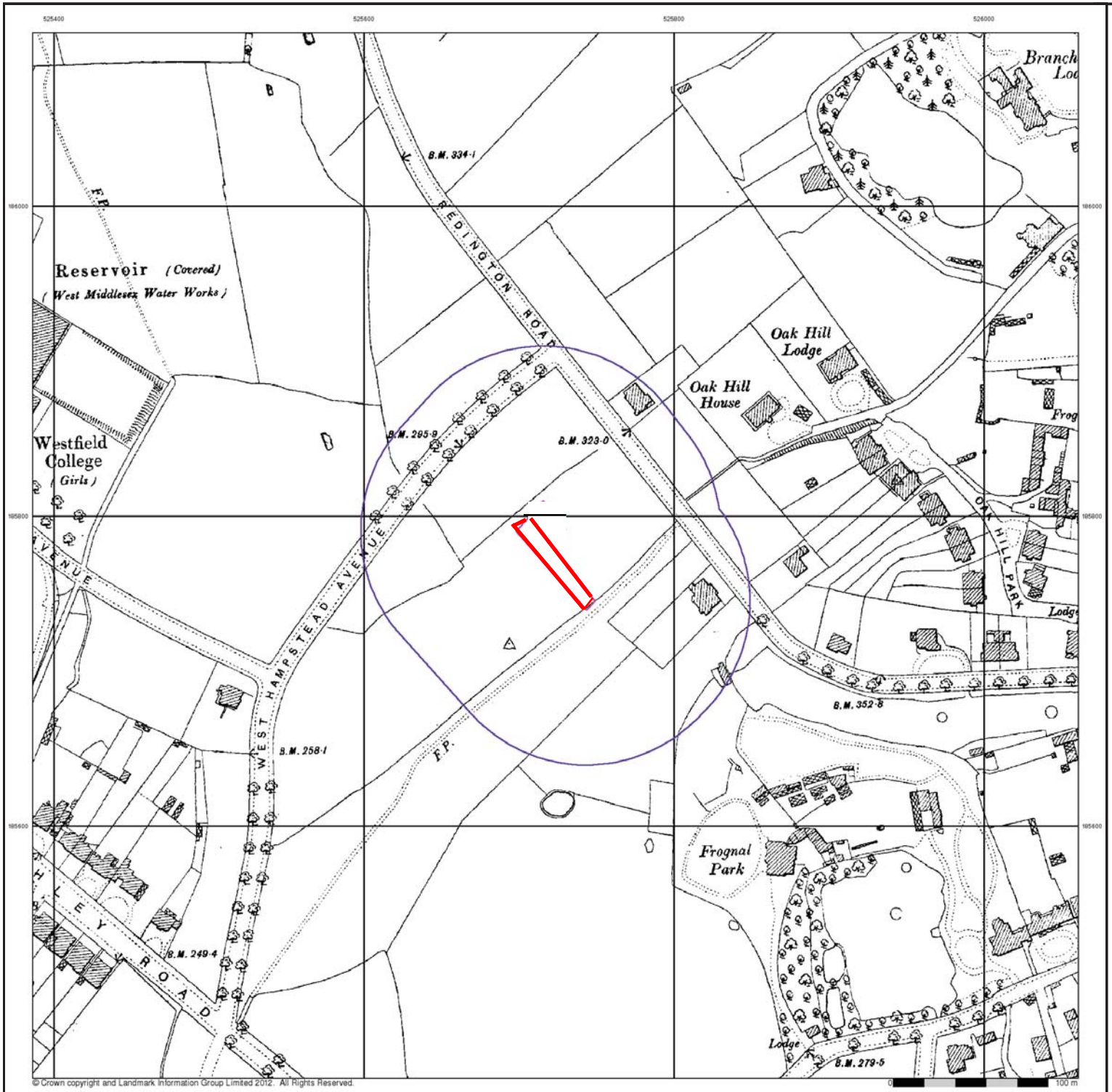


GEA Geotechnical & Environmental Associates

London

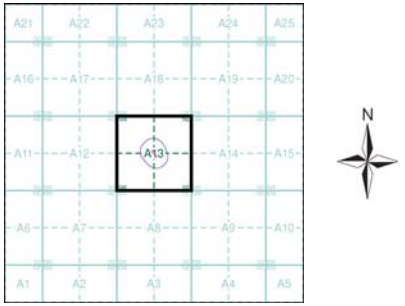
Published 1896

Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)

Historical Map - Segment A13



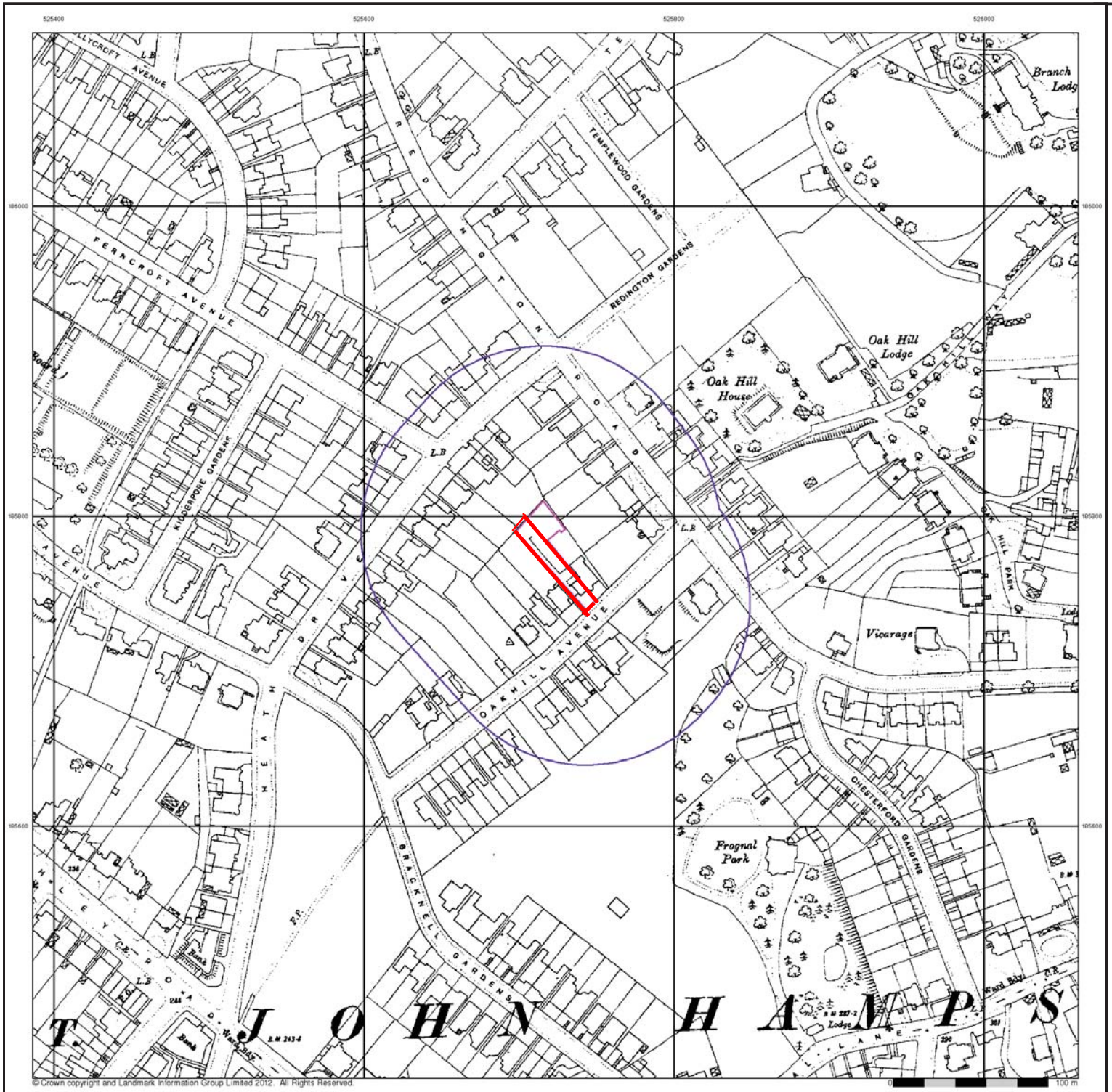
Order Details

Order Number:	44858907_1_1
Customer Ref:	E12441
National Grid Reference:	525730, 185770
Slice:	A
Site Area (Ha):	0.11
Search Buffer (m):	100

Site Details

2 Oakhill Avenue, LONDON, NW3 7RE

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



GEA Geotechnical & Environmental Associates

London

Published 1915

Source map scale - 1:2,500

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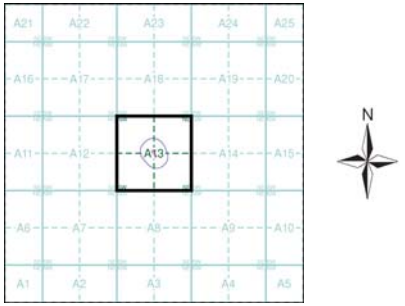
Map Name(s) and Date(s)

Historical Map - Segment A13



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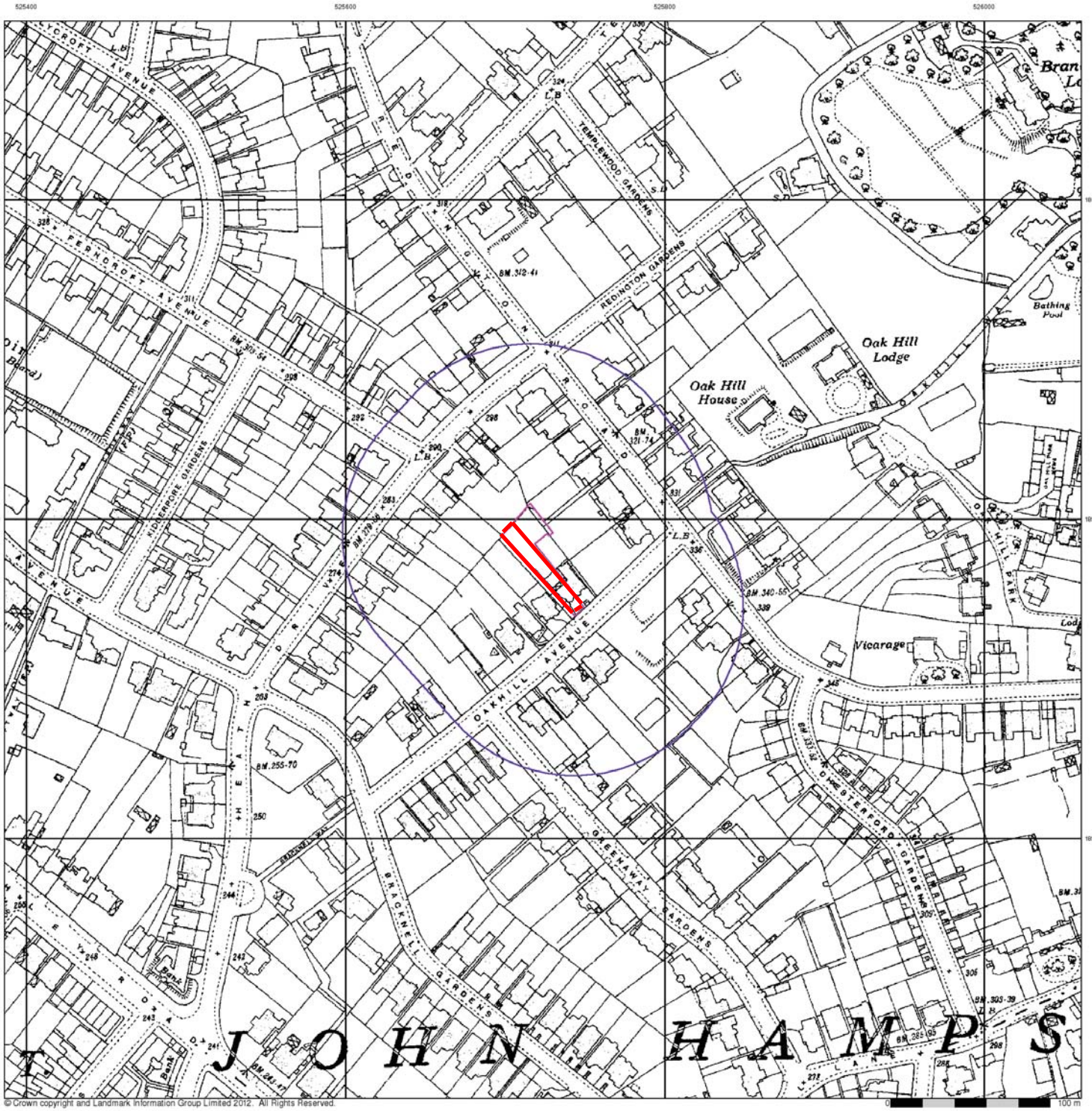


GEA Geotechnical & Environmental Associates

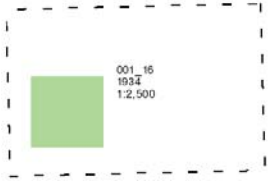
London

Published 1934

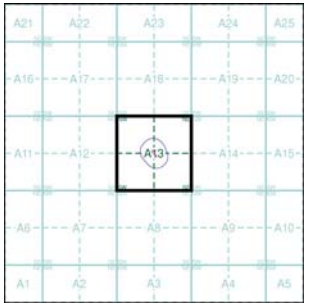
Source map scale - 1:2,500

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 and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below 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.

Map Name(s) and Date(s)



Historical Map - Segment A13



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