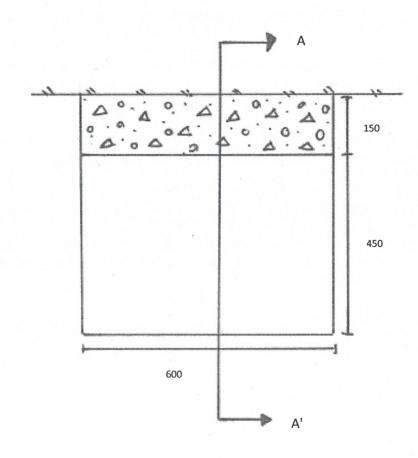
	Geotechnical & Environmenta Associates	St Albans	Site 15 Wedderburn Road, London, NW3 5QS	Trial Pit Number 3
Excavation Method Manual			Ollon	Job Number J13235
		Dates 08/08/2013	Engineer Fluid Structures	Sheet 5/6

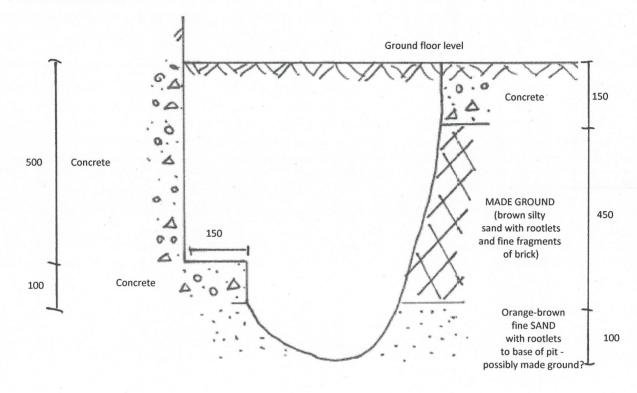
<u>PLAN</u>



Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained relatively stable during excavation, although minor instabilities were noted	Logged by:
Groundwater not encountered	HD

A Envir	echnical & ronmental ciates	Tyttenhanger House Coursers Road St Albans Herts AL4 0PG	Site 15 Wedderburn Road, London, NW3 5QS	Trial Pit Number 3
Excavation Method Manual	Dimensions 600 x 600 x 700	Ground Level (mOD) 79.94	On the	Job Number J13235
	Location	Dates 08/08/2013	Engineer Fluid Structures	Sheet 6/6





Remarks:	Scale:
All dimensions in millimetres	1:10
Sides of trial pit remained relatively stable during excavation, although minor instabilities were noted	Logged by:
Groundwater not encountered	HD

Project Na	Project Name: 15 Wedderburn Road, London, NW3 5QS Samples Received: 14.								/2013	K4 SOILS
						Project Sta		27/08		
Client:		GEA				Testing St		08/09	/2013	SOILS
Project No	o:	J13235	Our job/report no:	15183	3	Date Repo	rted:	10/09	/2013	
Borehole No:	Sample No:	Depth (m)	Description	cc	oisture ontent (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425 mm (%)	Remarks
BH1	D3	1.70	Greyish brown slightly gravelly sandy silty CLAY with occasional roots and rootlets (gravel is fine and angular to rounded)		15	42	19	23	87	
BH1	D5	2.45	Brown and pale grey mottled sandy CLAY		21					
BH1	D6	2.70	Brown and patchy pale grey slightly silty sandy CLAY with occasional selenite crystal		23	60	22	38	100	
<u></u>			Summary of Toot Po		14.0					Checked and

UKAS

Summary of Test Results

BS 1377 : Part 2 : Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method.

BS 1377 : Part 2 : Clause 5 : 1990 Determination of the plastic limit and plasticity index.

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven-drying method.

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Fest Results relate only to the sample numbers shown above. Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

All samples connected with this report ,incl any on 'hold' will be stored and disposed off according to Company policy. Acopy of this policy is available on request.

Checked and Approved

Initials: K.P
Date: 10/09/2013

Client :	Client: GEA				Our Job/repor	rt no:	15183	Samples Rec	: 14/08/20	13 Testing S	Started: 09	9/09/2013
Project r	name:		15 Wedderburn Road, London, NW3 5QS		Project No:	J132	35	Project Starte	d: 27/08/20	13 Date rep	orted: 10)/09/2013
BH / TP No	Sample no / ref	Sample depth (m)	Description	Moisture content (%)	Bulk Density (Mg/m3)	Dry density (Mg/m3)	Cell Pressure (kPa)	Strain at failure (%)	Max Deviator Stress (kPa)	Mode of failure	Shear Strength (kPa)	Phi (deg)
BH1	U4	2.00	Very high strength brown with grey mottling sandy CLAY	21	1.97	1.63	40	2.1	348	Brittle	174	NA
BH1	U9	4.00	High strength brown and blue grey slightly silty slightly sandy CLAY with numerous orange sandy inclusions	27	1.98	1.56	80	18	178	Plastic	89	NA
BH1	U14	6.50	High strength dark grey slightly silty slightly sandy CLAY	24	2.05	1.66	130	16	177	Brittle	88	NA
BH1	U20	9.50	High strength dark grey CLAY	29	2.01	1.56	190	11	213	Brittle	107	NA
BH1	U25	12.50	High strength dark grey CLAY	32	1.96	1.48	250	4.9	222	Brittle	111	NA

K4 SOILS	
	L
SOILS	L

Summary of Undrained Triaxial Compression Testing

BS 1377 : Part 7 : Clause 8 : 1990

Test Results relate only to the sample numbers shown above. All samples connected with this report, incl any on 'hold' will be stored and disposed off according to company policy. A copy of this policy is available on request.

eed with this report, incli any on hold will be stored and disposed off according to company policy. A copy Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr) UKAS TESTING Checked and approved

Initials

kp

2519

Report of Undrained Triaxial Compression Test

BS 1377: Part 7: 1990 Clause 8.0

Project name:	15 Wedderbi	urn Road, London, NW3 5QS		Samples Received:	14/08/2013
				Project Started:	27/08/2013
Client: GEA				Testing Started:	09/09/2013
Project no:	J13235	Our job /report no:	15183	Date Reported:	10/09/2013
BH / TP no:	BH1	Sample no:	U4	Depth (m): 2.00	

Soil Description: Very high strength brown with grey mottling sandy CLAY

Sample Details	Specimen	1
Sample Condition		Undisturbed
Height	mm	191.0
Diameter	mm	105.0
Moisture Content	%	21
Bulk Density	Mg/m³	1.97
Dry Density	Mg/m³	1.63

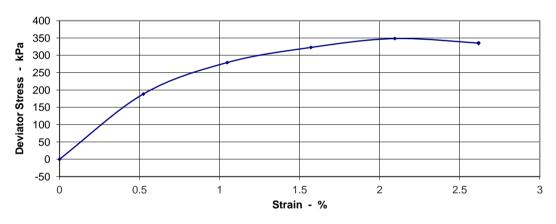
Test Details

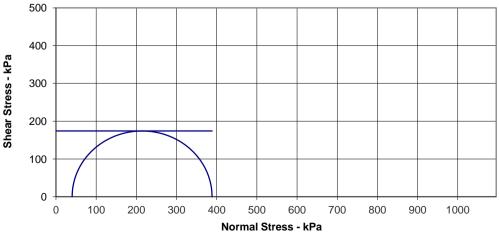
- Tool Botailo		
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.11
Rate of Axial Displacement	%/min	2.09
Cell Pressure	kPa	40
Strain at Failure	%	2.1
Maximum Deviator Stress	kPa	348
Shear Strength	kPa	174
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength Parameters С 174 kPa Phi 0.0 °

Specimen 1





K4 SOILS LABORATORY

Unit 8, Olds Close, Watford, Herts, WD18 9RU. Tel:01923711288 Fax:01923711311

Approved Signatories:	K.Phaure(Tech.Mgr)
J.Phaure(Lab.Mgr)	

Test results relate only to the sample numbers shown above

Checked and Approved Initials: kp 10/09/2013



Report of Undrained Triaxial Compression Test

BS 1377: Part 7: 1990 Clause 8.0

Project name:	15 Wedderbu	ırn Road, London, NW3 5QS		Samples Received:	14/08/2013
				Project Started:	27/08/2013
Client: GEA				Testing Started:	09/09/2013
Project no:	J13235	Our job /report no:	15183	Date Reported:	10/09/2013
BH / TP no:	BH1	Sample no:	U9	Depth (m): 4.00	

Soil Description: High strength brown and blue grey slightly silty slightly sandy CLAY with numerous orange sandy inclusions

Sample Details	Specimen	1
Sample Condition		Undisturbed
Height	mm	205.0
Diameter	mm	105.0
Moisture Content	%	27
Bulk Density	Mg/m³	1.98
Dry Density	Mg/m³	1.56

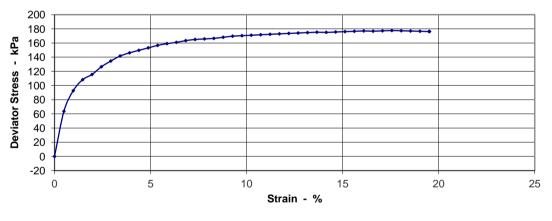
Test Details

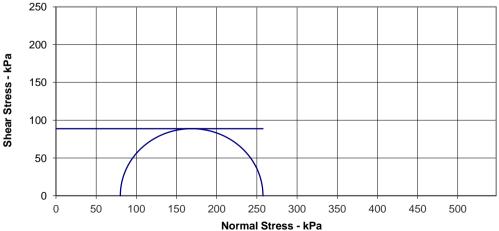
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.66
Rate of Axial Displacement	%/min	1.95
Cell Pressure	kPa	80
Strain at Failure	%	17.6
Maximum Deviator Stress	kPa	178
Shear Strength	kPa	89
Mode of Failure		Plastic

Position and orientation within the original sample

Shear Strength
Parameters
C 89 kPa
Phi 0.0 °

Specimen 1





K4 SOILS LABORATORY

Unit 8, Olds Close, Watford, Herts, WD18 9RU. Tel:01923711288 Fax:01923711311

pproved Signatories:	K.Phaure(Tech.Mgr)
I Phauro(Lah Mar)	

Test results relate only to the sample numbers shown above

Checked and Approved Initials: kp

Initials: kp Date: 10/09/2013



Report of Undrained Triaxial Compression Test

BS 1377: Part 7: 1990 Clause 8.0

Project name:	15 Wedderbu	rn Road, London, NW3 5QS		Samples Received:	14/08/2013
				Project Started:	27/08/2013
Client: GEA				Testing Started:	09/09/2013
Project no:	J13235	Our job /report no:	15183	Date Reported:	10/09/2013
BH / TP no:	BH1	Sample no:	U14	Depth (m): 6.50	

Soil Description: High strength dark grey slightly silty slightly sandy CLAY

Sample Details	Specimen	1
Sample Condition		Undisturbed
Height	mm	205.0
Diameter	mm	105.0
Moisture Content	%	24
Bulk Density	Mg/m³	2.05
Dry Density	Mg/m³	1.66

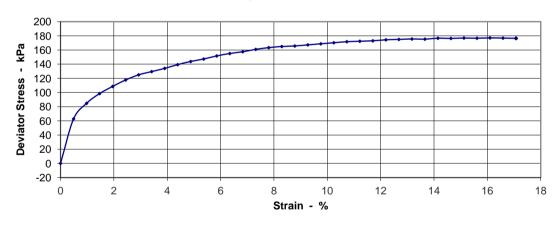
Test Details

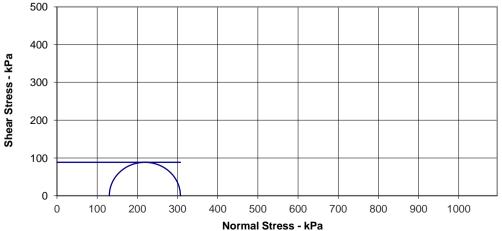
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.62
Rate of Axial Displacement	%/min	1.95
Cell Pressure	kPa	130
Strain at Failure	%	16.1
Maximum Deviator Stress	kPa	177
Shear Strength	kPa	88
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength
Parameters
C 88 kPa
Phi 0.0 °

Specimen 1





K4 SOILS LABORATORY

Unit 8, Olds Close, Watford, Herts, WD18 9RU. Tel:01923711288 Fax:01923711311

Approved Signatories:	K.Phaure(Tech.Mgr)
J.Phaure(Lab.Mgr)	

Test results relate only to the sample numbers shown above

Checked and Approved Initials: kp

Initials: kp Date: 10/09/2013



Report of Undrained Triaxial Compression Test

BS 1377: Part 7: 1990 Clause 8.0

Project name:	15 Wedderbu	rn Road, London, NW3 5QS		Samples Received:	14/08/2013
				Project Started:	27/08/2013
Client: GEA				Testing Started:	09/09/2013
Project no:	J13235	Our job /report no:	15183	Date Reported:	10/09/2013
BH / TP no:	BH1	Sample no:	U20	Depth (m): 9.50	

Soil Description: High strength dark grey CLAY

Sample Details	Specimen	1
Sample Condition		Undisturbed
Height	mm	205.0
Diameter	mm	105.0
Moisture Content	%	29
Bulk Density	Mg/m³	2.01
Dry Density	Mg/m³	1.56

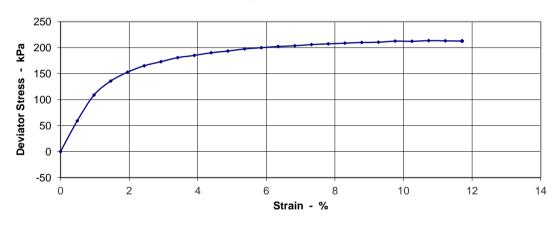
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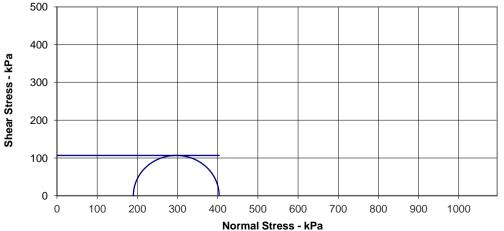
mm	0.2
kPa	0.45
%/min	1.95
kPa	190
%	10.7
kPa	213
kPa	107
	Brittle
	kPa %/min kPa % kPa

Position and orientation within the original sample

Shear Strength Parameters С 107 kPa Phi 0.0 °

Specimen 1





K4 SOILS LABORATORY

Unit 8, Olds Close, Watford, Herts, WD18 9RU. Tel:01923711288 Fax:01923711311

pprov	ed Signatories:	K.Phaure(Tech.Mgr)

J.Phaure(Lab.Mgr) Test results relate only to the sample numbers shown above

Checked and Approved Initials: kp

10/09/2013



Report of Undrained Triaxial Compression Test

BS 1377: Part 7: 1990 Clause 8.0

Project name:	15 Wedderbu	rn Road, London, NW3 5QS		Samples Received:	14/08/2013
				Project Started:	27/08/2013
Client: GEA				Testing Started:	09/09/2013
Project no:	J13235	Our job /report no:	15183	Date Reported:	10/09/2013
BH / TP no:	BH1	Sample no:	U25	Depth (m): 12.50	

Soil Description: High strength dark grey CLAY

Sample Details	Specimen	1
Sample Condition		Undisturbed
Height	mm	205.0
Diameter	mm	105.0
Moisture Content	%	32
Bulk Density	Mg/m³	1.96
Dry Density	Mg/m³	1.48

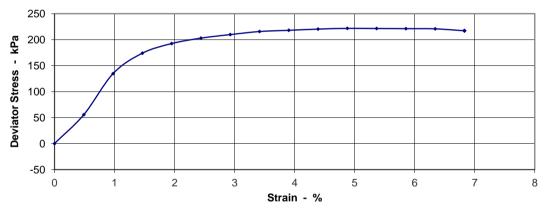
Test Details

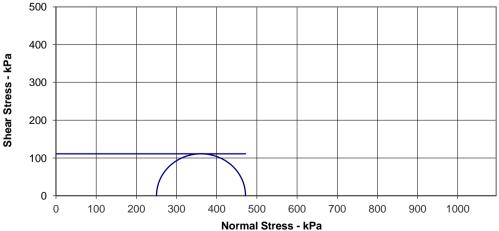
mm	0.2
kPa	0.24
%/min	1.95
kPa	250
%	4.9
kPa	222
kPa	111
	Brittle
	kPa %/min kPa % kPa

Position and orientation within the original sample

Shear Strength Parameters С 111 kPa Phi 0.0 °

Specimen 1





K4 SOILS LABORATORY

Unit 8, Olds Close, Watford, Herts, WD18 9RU. Tel:01923711288 Fax:01923711311

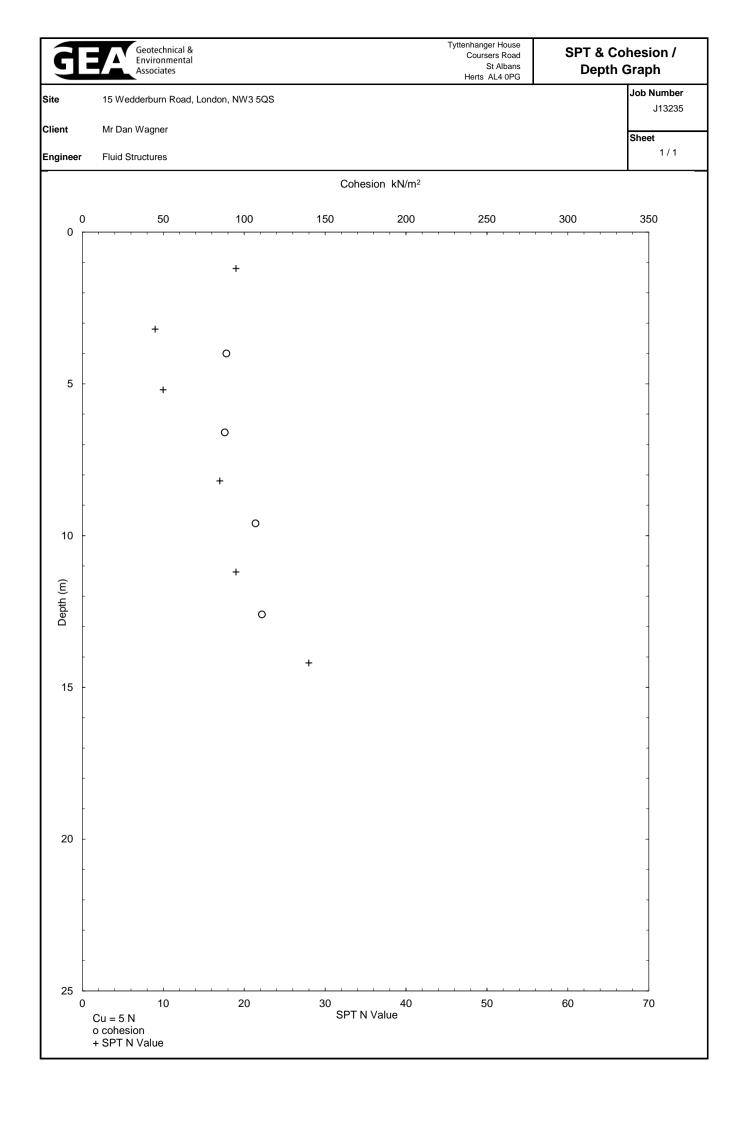
pprov	ed Signatories:	K.Phaure(Tech.Mgr)

J.Phaure(Lab.Mgr) Test results relate only to the sample numbers shown above

Checked and Approved Initials:

kp 10/09/2013





GEA
Tyttenhanger House
Coursers Road
St Albans Herts
AL4 0PG

AMENDED LABORATORY TEST REPORT

Chemtest
The right chemistry to deliver results

Results of analysis of 3 samples received 12 August 2013

Report Date 30 August 2013

FAO Hannah Dashfield

J13235 - 15 Wedderburn Rd

Login E	Batch No				236435				
Chemte	est LIMS ID				AJ04534	AJ04535	AJ04536		
Sample	· ID				TP2	TP2	TP1		
Sample	• No								
Sampli	ng Date				8/8/2013	8/8/2013	8/8/2013		
Depth					0.50m	1.60m	0.30m		
Matrix					SOIL	SOIL	SOIL		
SOP↓	Determinand↓	CAS No↓ U	nits↓ *						
2030	Moisture		%	n/a	12.4	26.3	8.58		
	Stones content (>50mm)		%	n/a	<0.02	<0.02	<0.02		
2040	Soil colour			М	brown	brown	brown		
	Soil texture			M	clay	clay	sand		
	Other material			М	stones	stones	stones		
2010	рН			M	8.0	8.1	9.6		
2300	Cyanide (total)	57125	mg kg-1	М	<0.5	<0.5	<0.5		
2325	Sulfide (Easily Liberatable)	18496258	mg kg-1	М	6.9	440	6.3		
2625	Total Organic Carbon		%	M	0.54	0.27	0.34		
2220	Chloride (extractable)	16887006	g l-¹	M	<0.010	<0.010	0.010		
2120	Sulfate (2:1 water soluble) as SO4	14808798	g l-¹	M		0.21			
2430	Sulfate (total) as SO4		mg kg-1	M	500	2700	600		
2450	Arsenic	7440382	mg kg-1	M	9.3	5.5	14		
	Cadmium	7440439	mg kg-1	M	0.12	<0.10	<0.10		
	Chromium	7440473	mg kg-1	M	39	28	37		
	Copper	7440508	mg kg-1	M	22	12	38		
	Mercury	7439976	mg kg-1	M	<0.10	<0.10	0.17		
	Nickel	7440020	mg kg-1	M	33	26	40		
	Lead	7439921	mg kg-1	M	36	8.9	52		
	Selenium	7782492	mg kg-1	M	<0.20	0.34	<0.20		
	Zinc	7440666	mg kg-1	M	85	39	65		
2670	TPH >C5-C6		mg kg-1	U	< 0.1	< 0.1	< 0.1		
	TPH >C6-C7		mg kg-1	U	< 0.1	< 0.1	< 0.1		
	TPH >C7-C8		mg kg-1	M	< 0.1	< 0.1	< 0.1		

All tests undertaken between 08/12/2013 and 08/30/2013

^{*} Accreditation status

GEA Tyttenhanger House Coursers Road St Albans Herts AL4 0PG

FAO Hannah Dashfield

AMENDED LABORATORY TEST REPORT



Report Date 30 August 2013

Results of analysis of 3 samples received 12 August 2013

J13235 - 15 Wedderburn Rd

						236435	
					AJ04534	AJ04535	AJ04536
					TP2	TP2	TP1
					8/8/2013	8/8/2013	8/8/2013
					0.50m	1.60m	0.30m
					SOIL	SOIL	SOIL
2670	TPH >C8-C10		mg kg-1	М	< 0.1	22	< 0.1
	TPH >C10-C12		mg kg-1	М	< 0.1	58	< 0.1
	TPH >C12-C16		mg kg-1	М	< 0.1	440	< 0.1
	TPH >C16-C21		mg kg-1	М	< 0.1	600	< 0.1
	TPH >C21-C35		mg kg-1	М	< 0.1	130	< 0.1
	Total Petroleum Hydrocarbons		mg kg-1	U	< 10	1300	< 10
2675	TPH aliphatic >C5-C6		mg kg-1	N		< 0.1	
	TPH aliphatic >C6-C8		mg kg-1	N		< 0.1	
	TPH aliphatic >C8-C10		mg kg-1	N		3.8	
	TPH aliphatic >C10-C12		mg kg-1	М		38	
	TPH aliphatic >C12-C16		mg kg-1	M		380	
	TPH aliphatic >C16-C21		mg kg-1	М		460	
	TPH aliphatic >C21-C35		mg kg-1	M		100	
	TPH aliphatic >C35-C44		mg kg-1	N		< 1	
	TPH aromatic >C5-C7		mg kg-1	N		< 0.1	
	TPH aromatic >C7-C8		mg kg-1	N		< 0.1	
	TPH aromatic >C8-C10		mg kg-1	N		< 0.1	
	TPH aromatic >C10-C12		mg kg-1	M		2.3	
	TPH aromatic >C12-C16		mg kg-1	M		130	
	TPH aromatic >C16-C21		mg kg-1	M		320	
	TPH aromatic >C21-C35		mg kg-1	M		51	
	TPH aromatic >C35-C44		mg kg-1	N		< 1	
	Total Petroleum Hydrocarbons		mg kg-1	N		1500	
2700	Naphthalene	91203	mg kg-1	M	< 0.1	< 0.1	< 0.1
	Acenaphthylene	208968	mg kg-1	M	< 0.1	< 0.1	< 0.1

All tests undertaken between 08/12/2013 and 08/30/2013

GEA
Tyttenhanger House
Coursers Road
St Albans Herts
AL4 0PG

AMENDED LABORATORY TEST REPORT



Results of analysis of 3 samples received 12 August 2013

Report Date 30 August 2013

FAO Hannah Dashfield

J13235 - 15 Wedderburn Rd

					236435	
				AJ04534	AJ04535	AJ04536
				TP2	TP2	TP1
				8/8/2013	8/8/2013	8/8/2013
				0.50m	1.60m	0.30m
				SOIL	SOIL	SOIL
2700 Acenaphthene	83329	mg kg-1	М	< 0.1	< 0.1	0.49
Fluorene	86737	mg kg-1	М	< 0.1	< 0.1	0.27
Phenanthrene	85018	mg kg-1	M	0.4	< 0.1	2.6
Anthracene	120127	mg kg-1	М	0.25	< 0.1	0.51
Fluoranthene	206440	mg kg-1	М	0.4	< 0.1	2.4
Pyrene	129000	mg kg-1	М	0.42	< 0.1	1.9
Benzo[a]anthracene	56553	mg kg-1	М	0.2	< 0.1	0.98
Chrysene	218019	mg kg-1	М	0.24	< 0.1	1.2
Benzo[b]fluoranthene	205992	mg kg-1	M	0.71	< 0.1	1.5
Benzo[k]fluoranthene	207089	mg kg-1	М	0.57	< 0.1	0.95
Benzo[a]pyrene	50328	mg kg-1	М	0.69	< 0.1	1.1
Dibenzo[a,h]anthracene	53703	mg kg-1	М	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	193395	mg kg-1	M	< 0.1	< 0.1	0.52
Benzo[g,h,i]perylene	191242	mg kg-1	М	< 0.1	< 0.1	0.41
Total (of 16) PAHs		mg kg-1	М	3.9	< 2	15
2920 Phenols (total)		mg kg-1	N	<0.3	< 0.3	< 0.3



Tyttenhanger House Coursers Road St Albans AL4 0PG

Generic Risk-Based Soil Guideline Values

ite 15 Wedderburn Road, London, NW3 5QS

Job Number J13235

Client Mr Dan Wagner

Sheet 1 / 1

Engineer Fluid Structures

Proposed End Use Residential with plant uptake

Soil pH 8

Soil Organic Matter content % 1.0

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	
Ну	drocarbons	
Benzene	0.08	SGV
Toluene	120	SGV
Ethyl Benzene	65	SGV
Xylene	42	SGV
Aliphatic C5-C6	30	LQM/CIEH
Aliphatic C6-C8	73	LQM/CIEH
Aliphatic C8-C10	19	LQM/CIEH
Aliphatic C10-C12	93	LQM/CIEH
Aliphatic C12-C16	740	LQM/CIEH
Aliphatic C16-C35	45,000	LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH
Aromatic C8-C10	27	LQM/CIEH
Aromatic C10-C12	69	LQM/CIEH
Aromatic C12-C16	140	LQM/CIEH
Aromatic C16-C21	250	LQM/CIEH
Aromatic C21-C35	890	LQM/CIEH
PRO (C ₅ –C ₁₀)	269	Calc
DRO (C ₁₂ –C ₂₈)	46,130	Calc
Lube Oil (C ₂₈ –C ₄₄)	45,890	Calc
ТРН	1000	Trigger for speciated testing

Contaminant	Guideline Value mg/kg	Data Source
A	nions	
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	184 PAH	SGV
Neglightheries	•	LOMIOIELL
Naphthalene	1.50	LQM/CIEH
Acenaphthylene	170	LQM/CIEH
Acenaphthene	210	LQM/CIEH
Fluorene	160	LQM/CIEH
Phenanthrene	92	LQM/CIEH
Anthracene	2,300	LQM/CIEH
Fluoranthene	260	LQM/CIEH
Pyrene	560	LQM/CIEH
Benzo(a) Anthracene	3.1	LQM/CIEH
Chrysene	6	LQM/CIEH
Benzo(b) Fluoranthene	5.6	LQM/CIEH
Benzo(k) Fluoranthene	8.5	LQM/CIEH
Benzo(a) pyrene	0.83	LQM/CIEH
Indeno(1 2 3 cd) Pyrene	3.2	LQM/CIEH
Dibenzo(a h) Anthracene	0.76	LQM/CIEH
Benzo (g h i) Perylene	44	LQM/CIEH
Total PAH	5.5	B(a)P / 0.15
Chlorina	ted Solven	ts
1,1,1 trichloroethane (TCA)	6.2	LQM/CIEH
tetrachloroethane (PCA)	0.9	LQM/CIEH
tetrachloroethene (PCE)	0.94	LQM/CIEH
trichloroethene (TCE)	0.11	LQM/CIEH
1,2-dichloroethane (DCA)	0.0054	LQM/CIEH
vinyl chloride (Chloroethene)	0.00047	LQM/CIEH
tetrachloromethane (Carbon tetra	0.018	LQM/CIEH
trichloromethane (Chloroform)	0.75	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 values indicate 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:

48266434_1_1

Customer Reference:

J13235

National Grid Reference:

526720, 185120

Slice:

Α

Site Area (Ha):

80.0

Search Buffer (m):

1000

Site Details:

Flat 1 15 Wedderburn Road LONDON NW3 5QS

Client Details:

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



Order Number: 48266434_1_1





Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	12
Hazardous Substances	-
Geological	13
Industrial Land Use	20
Sensitive Land Use	36
Data Currency	37
Data Suppliers	43
Useful Contacts	44

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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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and the Health Protection Agency.

Report Version v47.0



Summary

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					
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		1	1	13
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3				Yes
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 3				37
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				1 (*3)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 11			1	
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 12				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 12				2
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 13	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 13	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 15		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 18	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 19	Yes	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 19	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19	Yes	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 20		8	12	158
Fuel Station Entries	pg 35			1	1



Summary

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	pg 36				1
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					



Order Number: 48266434_1_1

Agency & Hydrological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Pyramid Cleaners 52 Besize Lane, London, Nw3 5ar London Borough of Camden, Pollution Projects Team PPC/DC8 1st January 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Located by supplier to within 10m	A13SE (SE)	176	1	526872 184985
2	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Uttion Prevention and Controls Belsize Park Service Station 215 Haverstock Hill, LONDON, NW3 4RE London Borough of Camden, Pollution Projects Team PPC21 2nd January 1999 Local Authority Pollution Prevention and Control PG1/14 Petrol filling station Permitted Automatically positioned to the address	A14NW (E)	460	1	527187 185227
3	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Hution Prevention and Controls Hampstead Express Dry Cleaning 279a Finchley Road, London, Nw3 6lt London Borough of Camden, Pollution Projects Team PPC/DC6 12th January 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Located by supplier to within 10m	A12SE (W)	567	1	526178 184902
3	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Janets Hand Laundry Ltd 281a Finchley Road, London, Nw3 6nd London Borough of Camden, Pollution Projects Team PPC/DC14 12th January 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Located by supplier to within 10m	A12SE (W)	570	1	526167 184924
4	Local Authority Poli Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls Perkins Dry Cleaners 171 Haverstock Hill, London, Nw3 4qs London Borough of Camden, Pollution Projects Team PPC/DC7 12th January 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Located by supplier to within 10m	A14SW (E)	601	1	527342 185055
4	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Swan Dry Cleaners 163 Haverstock Hill, London, Nw3 4qt London Borough of Camden, Pollution Projects Team PPC/DC42 24th January 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Located by supplier to within 10m	A14SW (E)	632	1	527371 185032
5	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls B P Harmony 104a Finchley Road, London, NW3 5EY London Borough of Camden, Pollution Projects Team Not Given 1st July 1999 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorised Automatically positioned to the address	A8NW (SW)	603	1	526471 184554

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Agency & Hydrological

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Map ID	Water All of	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	London Borough Of Camden 28/39/39/0219 1 Swiss Cottage Open Space- Borehole Environment Agency, Thames Region Municipal Grounds: Spray Irrigation - Direct Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Swiss Cottage Open Space, Winchester Road, London. 01 January 31 December 1st April 2008 Not Supplied Located by supplier to within 10m	A8SE (S)	823	3	526800 184280
		Thames Water Utilities Ltd Th/039/0039/058 1 Borehole At Barrow Hill Environment Agency, Thames Region Public Water Supply: Potable Water Supply - Direct Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Not Supplied O1 April 31 March 1st April 2013 Not Supplied Located by supplier to within 10m	A4SE (SE)	1668	3	527636 183697
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Thames Water Utilities Ltd 28/39/39/0231 1 Barrow Hill Pumping Station - Borehole Environment Agency, Thames Region Public Water Supply: Potable Water Supply - Direct Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Barrow Hill Pumping Station 01 January 31 December 1st April 2007 Not Supplied Located by supplier to within 10m	A4SE (SE)	1676	3	527640 183690
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Thames Water Utilities Ltd 28/39/39/0202 1 Barrow Hill Pumping Station - Borehole Environment Agency, Thames Region Public Water Supply: Potable Water Supply - Direct Water may be abstracted from a single point Groundwater Not Supplied Not Supplied Barrow Hill Pumping Station 01 January 31 December 26th September 2002 Not Supplied Located by supplier to within 10m	A4SE (SE)	1676	3	527640 183690
	Groundwater Vulne Soil Classification: Map Sheet: Scale:	• • • • • • • • • • • • • • • • • • • •	A13NW (NW)	0	3	526721 185120
	Groundwater Vulne Soil Classification: Map Sheet: Scale:	Prability Not classified Sheet 39 West London 1:100,000	A13SE (N)	0	3	526725 185115



Agency & Hydrological

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits None					
		Designations.				
	Bedrock Aquifer Aquifer Desination	Designations : Secondary Aquifer - A	A13SE (N)	0	4	526725 185115
	Superficial Aquifo No Data Available	_				
	Source Protectio	ource Protection Zones				
16	Name: Source: Reference: Type:	Barrow Hill Environment Agency, Head Office Th405 Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A8NE (S)	493	3	526877 184629
	Extreme Flooding	g from Rivers or Sea without Defences				
	None					
	Flooding from Ri None	vers or Sea without Defences				
	Areas Benefiting	from Flood Defences				
	None					
	Flood Water Stor	age Areas				
	Flood Defences					
	None					



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Order Number: 48266434_1_1

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Historical Landfill S Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:	Not Supplied London NW6 Canfield Place Not Supplied As Supplied	A12SE (SW)	700	3	526072 184813
	Local Authority Lan Name:	ndfill Coverage London Borough of Camden - Has no landfill data to supply		0	7	526725 185115
18	Registered Waste T Licence Holder: Licence Reference: Site Location: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Licence Status: Dated: Preceded By Licence: Superseded By Licence: Positional Accuracy: Boundary Quality: Authorised Waste	P B Donoghue	A12SE (SW)	606	3	526200 184780
18	Registered Waste T Licence Holder: Licence Reference: Site Location: Operator Location: Authority: Site Category: Max Input Rate: Waste Source Restrictions: Licence Status: Dated: Preceded By Licence: Superseded By Licence: Positional Accuracy: Boundary Quality: Authorised Waste	P B Donoghue	A12SE (SW)	606	3	526200 184780



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	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
BGS 1:625,000 Solid	d Geology				
Description:	London Clay	A13SE (N)	0	4	526725 185115
BGS Estimated Soil	Chemistry				
Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium	British Geological Survey, National Geoscience Information Service London no data no data	A13SE (N)	0	5	526725 185115
	no data no data				
	Chemistry				
Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration:	British Geological Survey, National Geoscience Information Service London no data no data no data	A13SE (SE)	45	5	526751 185060
	no data				
	Chemistry				
Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration:	British Geological Survey, National Geoscience Information Service London no data no data	A13SE (S)	100	5	526725 185000
Nickel Concentration:	no data				
Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium	Chemistry British Geological Survey, National Geoscience Information Service London no data no data no data	A13SE (E)	256	5	527000 185115
	no data no data				
BGS Estimated Soil	Chemistry				
Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Chromium Concentration: Lead Concentration: Nickel Concentration:	British Geological Survey, National Geoscience Information Service London no data no data no data no data no data no data	A13SE (SE)	277	5	527000 185000
Source: Soil Sample Type:	British Geological Survey, National Geoscience Information Service London	A13NE (NE)	339	5	527000 185339
Concentration: Cadmium Concentration: Chromium Concentration:	no data				
	BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Lead Concentration: Cadmium Concentration: Lead Concentration: Cadmium Concentration: BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Lead Concentration: Nickel Concentration: Lead Concentration: Lead Concentration: Cadmium Concentration: Lead Concentration: Nickel Concentration: BGS Estimated Soil Source: Soil Sample Type: Arsenic Concentration: Cadmium Concentration: Cadmium Concentration: Cadmium Concentration: Cadmium Concentration: Lead Concentration: Cadmium Concentration: Lead Concentration: Cadmium Concentration: Lead Concentration: Lead Concentration: Lead Concentration: Lead Concentration: Cadmium Concentration: Concentration: Lead Concentration: Cadmium Concentration: Cadmium Concentration: Cadmium Concentration: Lead Concentration:	BGS 1:625,000 Solid Geology Description: London Clay BGS Estimated Soli Chemistry Arsenic no data Concentration: Cadmium no data Concentration: Cadmium no data Concentration: Dead Concentration: Dead Concentration: Cadmium no data Concentration: Dead Concentration:	BGS : tez5,000 Solid Geology Bascription: BGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Concentration: no data Concentration: RGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Soli Sample Type: Andrew Concentration: no data Concentration: RGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Cadmium no data Concentration: RGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Cadmium no data Concentration: RGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Cadmium no data Concentration: RGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Cadmium no data Concentration: No	BGS 1-625,000 Solid Geology Description: London Clay BGS 1-625,000 Solid Geology Description: London Clay BGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Concentration: no data Concentration: no data Concentration: no data BGS Estimated Soli Chemistry Source: British Geological Survey, National Geoscience Information Service Soli Sample Type: London No data Concentration: no data Noted no data Concentration: no data Concentration: no data Noted no data Concentration: no data Concentration: no data Noted no data Concentration: no data Noted no data Concentration: no data Concentration: no data Noted no data Concentration: no data Noted no data Concentration: no data Noted no data Concentration: no data Concentrat	BOS 1-525,000 Solid Geology Description: London Clay London Cl



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/lap ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service London no data	A18SW (NW)	377	5	526528 185453
	Concentration: Cadmium Concentration:	no data				
	Chromium Concentration: Lead Concentration:	no data				
	Nickel Concentration:	no data				
	BGS Estimated Soil	Chemistry				
	Source:	British Geological Survey, National Geoscience Information Service	A12SW	703	5	526000
	Soil Sample Type: Arsenic Concentration:	London no data	(W)			185115
	Cadmium Concentration:	no data				
	Chromium Concentration:	no data				
	Lead Concentration: Nickel Concentration:	no data no data				
	BGS Estimated Soil	Chemistry				
	Source:	British Geological Survey, National Geoscience Information Service	A12SW	713	5	526000
	Soil Sample Type: Arsenic	London no data	(W)			185000
	Concentration:	no data				
	Cadmium	no data				
	Concentration: Chromium Concentration:	no data				
	Lead Concentration: Nickel Concentration:	no data no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type:	British Geological Survey, National Geoscience Information Service London	A12NW (W)	734	5	526000 185329
	Arsenic Concentration: Cadmium	no data				
	Concentration:	no data				
	Concentration:					
	Lead Concentration: Nickel Concentration:	no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service London no data	A18NE (N)	869	5	526725 186000
	Concentration:	no data				
	Concentration: Chromium	no data				
	Concentration: Lead Concentration:					
	Nickel Concentration:	no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type:	British Geological Survey, National Geoscience Information Service London	A18NW (N)	895	5	526517 186000
	Arsenic Concentration:	no data				
	Cadmium Concentration:	no data				
	Chromium Concentration:	no data				
	Lead Concentration: Nickel	no data no data				
	Concentration:					





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration:	British Geological Survey, National Geoscience Information Service London no data	A18NE (N)	901	5	527000 185991
	Cadmium Concentration: Chromium	no data				
	Concentration: Lead Concentration: Nickel					
	Concentration:	no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service London no data	A18NE (N)	909	5	527000 186000
	Concentration: Cadmium Concentration:	no data				
	Chromium Concentration:	no data				
	Lead Concentration: Nickel Concentration:	no data no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic Concentration:	British Geological Survey, National Geoscience Information Service London no data	A18NE (N)	914	5	527016 186000
	Cadmium Concentration:	no data				
	Chromium Concentration: Lead Concentration:	no data				
	Nickel Concentration:	no data				
	BGS Estimated Soil	Chemistry				
	Source: Soil Sample Type: Arsenic	British Geological Survey, National Geoscience Information Service London no data	A17SW (NW)	918	5	526000 185710
	Concentration: Cadmium Concentration:	no data				
	Chromium Concentration:	no data				
	Lead Concentration: Nickel Concentration:	no data no data				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type:	British Geological Survey, National Geoscience Information Service 526763, 185153 Topsoil	A13NE (NE)	38	4	526763 185153
	Sample Area: Arsenic Measured Concentration:	London 18.00 mg/kg				
	Cadmium Measured Concentration:					
	Chromium Measured Concentration: Lead Measured	55.00 mg/kg 618.00 mg/kg				
	Concentration: Nickel Measured	22.00 mg/kg				
	Concentration:	Call Chamistry				
	BGS Measured Urba Source:	an Soil Chemistry British Geological Survey, National Geoscience Information Service	A8NW	400	4	526703
	Grid: Soil Sample Type: Sample Area:	Shirsh Geological Survey, National Geoscience information Service 526703, 184701 Topsoil London	(S)	400	''	184701
	Arsenic Measured Concentration:	33.00 mg/kg				
	Cadmium Measured Concentration:					
	Chromium Measured	79.00 mg/kg				
	Concentration: Lead Measured	770.00 mg/kg				



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Order Number: 48266434_1_1

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urba Source: Grid: Soil Sample Type:	British Geological Survey, National Geoscience Information Service 526278, 185352 Topsoil	A12NE (NW)	485	4	526278 185352
	Sample Area: Arsenic Measured Concentration:	London 25.00 mg/kg				
	Cadmium Measured Concentration: Chromium Measured					
	Concentration: Lead Measured Concentration:	274.00 mg/kg				
	Nickel Measured Concentration:	20.00 mg/kg				
	BGS Measured Urba	-			_	
	Source: Grid: Soil Sample Type: Sample Area:	British Geological Survey, National Geoscience Information Service 527169, 184808 Topsoil London	A14SW (SE)	519	4	527169 184808
	Arsenic Measured Concentration: Cadmium Measured	21.00 mg/kg				
	Concentration: Chromium Measured					
	Concentration: Lead Measured Concentration:	2154.00 mg/kg				
	Nickel Measured Concentration:	35.00 mg/kg				
	BGS Measured Urba	•				
	Source: Grid: Soil Sample Type: Sample Area:	British Geological Survey, National Geoscience Information Service 526732, 185657 Topsoil London	A18SE (N)	526	4	526732 185657
	Arsenic Measured Concentration: Cadmium Measured	40.00 mg/kg 0.30 mg/kg				
	Concentration: Chromium Measured Concentration:	97.00 mg/kg				
	Lead Measured Concentration: Nickel Measured	660.00 mg/kg 34.00 mg/kg				
	Concentration:					
	BGS Measured Urba Source:	an Soil Chemistry British Geological Survey, National Geoscience Information Service	A14NW	534	4	527216
	Grid: Soil Sample Type: Sample Area:	Topsoil London	(NE)	334	4	185357
	Arsenic Measured Concentration: Cadmium Measured	20.00 mg/kg				
	Concentration: Chromium Measured					
	Concentration: Lead Measured Concentration:	626.00 mg/kg				
	Nickel Measured Concentration:	28.00 mg/kg				
	BGS Measured Urba	•				
	Source: Grid: Soil Sample Type: Sample Area:	British Geological Survey, National Geoscience Information Service 526344, 184653 Topsoil London	A7NE (SW)	587	4	526344 184653
	Arsenic Measured Concentration:	47.00 mg/kg				
	Cadmium Measured Concentration: Chromium Measured					
	Concentration: Lead Measured Concentration:	1463.00 mg/kg				
	Nickel Measured Concentration:	71.00 mg/kg				



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration:	British Geological Survey, National Geoscience Information Service 526223, 185630 Topsoil London 20.00 mg/kg	A17SE (NW)	701	4	526223 185630
	Cadmium Measured Concentration: Chromium Measured Concentration: Lead Measured					
	Concentration: Nickel Measured Concentration:	23.00 mg/kg				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration:	British Geological Survey, National Geoscience Information Service 527233, 185694 Topsoil London 32.00 mg/kg	A19SW (NE)	754	4	527233 185694
	Cadmium Measured Concentration: Chromium Measured Concentration: Lead Measured					
	Concentration: Nickel Measured Concentration:	46.00 mg/kg				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration:	British Geological Survey, National Geoscience Information Service 526761, 184231 Topsoil London 7.00 mg/kg	A8SE (S)	869	4	526761 184231
	Cadmium Measured Concentration: Chromium Measured Concentration: Lead Measured Concentration:					
	Nickel Measured Concentration:	7.00 mg/kg				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration:	British Geological Survey, National Geoscience Information Service 526268, 184340 Topsoil London 30.00 mg/kg	A7SE (SW)	889	4	526268 184340
	Cadmium Measured Concentration:					
	Chromium Measured Concentration: Lead Measured	95.00 mg/kg 689.00 mg/kg				
	Concentration: Nickel Measured Concentration:	45.00 mg/kg				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration:	British Geological Survey, National Geoscience Information Service 527669, 185211 Topsoil London 18.00 mg/kg	A14NE (E)	931	4	527669 185211
	Cadmium Measured Concentration:					
	Chromium Measured Concentration:					
	Lead Measured Concentration: Nickel Measured	937.00 mg/kg 26.00 mg/kg				
	Concentration:					





Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured	British Geological Survey, National Geoscience Information Service 525772, 185213 Topsoil London 18.00 mg/kg	A12NW (W)	936	4	525772 185213
	Concentration: Cadmium Measured Concentration: Chromium Measured	0.90 mg/kg				
	Concentration: Lead Measured Concentration:	471.00 mg/kg				
	Nickel Measured Concentration:	26.00 mg/kg				
	BGS Measured Urba	an Soil Chemistry				
	Source: Grid: Soil Sample Type: Sample Area: Arsenic Measured Concentration: Cadmium Measured	British Geological Survey, National Geoscience Information Service 527207, 184291 Topsoil London 13.00 mg/kg 0.70 mg/kg	A9SW (SE)	938	4	527207 184291
	Concentration: Chromium Measured Concentration:					
	Lead Measured Concentration: Nickel Measured	714.00 mg/kg 26.00 mg/kg				
	Concentration:					
	BGS Measured Urba	•				
	Source: Grid: Soil Sample Type:	British Geological Survey, National Geoscience Information Service 527678, 184753 Topsoil	A9NE (E)	999	4	527678 184753
	Sample Area: Arsenic Measured Concentration:	London 19.00 mg/kg				
	Cadmium Measured Concentration: Chromium Measured					
	Concentration: Lead Measured Concentration:	1533.00 mg/kg				
	Nickel Measured Concentration:	31.00 mg/kg				
	BGS Urban Soil Che	emistry Averages				
	Source:	British Geological Survey, National Geoscience Information Service	A13SE	0	4	526725
	Sample Area: Count Id:	London 7189	(N)			185115
	Arsenic Minimum	1.00 mg/kg				
	Concentration:					
	Arsenic Average Concentration:	17.00 mg/kg				
	Arsenic Maximum	161.00 mg/kg				
	Concentration: Cadmium Minimum Concentration:	0.30 mg/kg				
	Cadmium Average	0.90 mg/kg				
	Concentration: Cadmium Maximum Concentration:	165.20 mg/kg				
	Chromium Minimum Concentration:	13.00 mg/kg				
	Chromium Average Concentration:	79.00 mg/kg				
	Chromium Maximum	2094.00 mg/kg				
	Concentration: 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	506.00 mg/kg				1

Order Number: 48266434_1_1



Geological

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affecte					
		not be affected by coal mining				
	Non Coal Mining Ar No Hazard	eas of Great Britain				
	Potential for Collaps	sible Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115
	Potential for Collap	sible Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (S)	100	4	526725 185000
	Potential for Compr	essible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115
		essible Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (S)	100	4	526725 185000
	Potential for Ground	d Dissolution Stability Hazards				
	No Hazard					
		ide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115
	Potential for Landsl	ide Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (S)	100	4	526725 185000
	Potential for Runnir	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115
	Potential for Runnir	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (S)	46	4	526741 185055
	Potential for Runnin	ng Sand Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	A13SE (S)	100	4	526725 185000
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115
	Potential for Shrink	ing or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	Moderate British Geological Survey, National Geoscience Information Service	A13SE (S)	100	4	526725 185000
	Radon Potential - R	adon Protection Measures				
		No radon protective measures are necessary in the construction of new dwellings or extensions	A13SE (N)	0	4	526725 185115
	Source:	British Geological Survey, National Geoscience Information Service				
		adon Affected Areas				
	Affected Area: Source:	The property is in a lower probability radon area, as less than 1% of homes are above the action level British Geological Survey, National Geoscience Information Service	A13SE (N)	0	4	526725 185115



Order Number: 48266434_1_1

Industrial Land Use

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Pyramid 52, Belsize Lane, London, NW3 5AR Dry Cleaners Active Automatically positioned to the address	A13SE (SE)	179	-	526874 184984
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Continental Autos 10, Daleham Mews, London, NW3 5DB Garage Services Inactive Automatically positioned to the address	A13SE (S)	184	-	526749 184917
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Comac Motors 19, Daleham Mews, London, NW3 5DB Garage Services Inactive Automatically positioned to the address	A13SE (S)	193	-	526770 184911
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	Directory Entries Daleham Garage 14, Daleham Mews, London, NW3 5DB Garage Services Active Automatically positioned to the address	A13SE (S)	206	-	526749 184894
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Auto Reliant Suspension Co 25, Daleham Mews, London, NW3 5DB Garage Services Inactive Automatically positioned to the address	A13SE (S)	219	-	526768 184884
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Smoother You Ltd 1, McCrone Mews, Belsize Lane, London, NW3 5BG Electrolysis Active Automatically positioned to the address	A13SE (S)	221	-	526777 184884
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Gems Dry Cleaning Co Ltd 90, Belsize Lane, London, NW3 5BE Dry Cleaners Active Automatically positioned to the address	A13SE (S)	236	-	526784 184870
20	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Mr Lewis Cohens Fry Cleaning Co 90, Belsize Lane, London, NW3 5BE Dry Cleaners Inactive Automatically positioned to the address	A13SE (S)	236	-	526784 184870
21	Contemporary Trade Name: Location: Classification: Status:		A13SW (SW)	355	-	526425 184896
22	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Tenancy Cleaners London 4, Shepherds Walk, London, NW3 5UE Cleaning Services - Domestic Active Automatically positioned to the address	A18SE (N)	382	-	526744 185512
23	Contemporary Trade Name: Location: Classification: Status: Positional Accuracy:	E Directory Entries Hampstead Waste Flat 68, Henderson Court, 102, Fitzjohns Avenue, London, NW3 6NR Medical Waste Disposal Inactive Automatically positioned to the address	A18SW (NW)	434	-	526493 185498
24	Contemporary Trade Name: Location: Classification: Status:	• • • • • • • • • • • • • • • • • • • •	A18SW (N)	440	-	526714 185571



Industrial Land Use

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Contemporary Trad Name: Location: Classification: Status:	Bp Belzier Park Service Station, 215, Haverstock Hill, London, NW3 4QE Petrol Filling Stations - 24 Hour Active	A14NW (E)	460	-	527188 185227
26	Contemporary Trad Name: Location: Classification: Status:	Automatically positioned to the address e Directory Entries Bang & Olufsen 44, Rosslyn Hill, London, NW3 1NH Electrical Goods Sales, Manufacturers & Wholesalers Active Automatically positioned to the address	A18SE (N)	468	-	526764 185598
26	Contemporary Trad Name: Location: Classification: Status:		A18SE (N)	482	-	526769 185611
26	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries Farrow & Ball 58, Rosslyn Hill, London, NW3 1ND Wallpapers & Wall Coverings Active Automatically positioned to the address	A18SE (N)	483	-	526723 185614
27	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	le Directory Entries S E Ltd 8, Frognal, London, NW3 6AJ Textile Manufacturing Inactive Automatically positioned to the address	A12SE (W)	469	-	526253 184987
28	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Pearl & Black Interchange Studios, Hampstead Town Hall Centre, 321 Haverstoc, London, NW3 4QP Greeting Card Publishers & Wholesalers Inactive Manually positioned within the geographical locality	A14NW (E)	476	-	527216 185161
29	Contemporary Trad Name: Location: Classification: Status:		A14SW (E)	477	-	527191 184943
30	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Snappy Snaps 80, Rosslyn Hill, London, NW3 1ND Photographic Processors Inactive Automatically positioned to the address	A18SW (N)	497	-	526685 185626
31	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Oven Cleaning Belsize Park 250 Haverstock Hill, London, NW3 2AE Oven cleaning Inactive Manually positioned within the geographical locality	A14NW (E)	521	-	527249 185230
32	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Bromine & Chemicals Ltd Second Floor, 201, Haverstock Hill, London, NW3 4QG Chemicals - Distributors & Wholesalers Inactive Automatically positioned to the address	A14NW (E)	524	-	527267 185121
32	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Pest Control Hempstead Haverstock Hill, London, NW3 4QG Pest & Vermin Control Active Manually positioned within the geographical locality	A14NW (E)	541	-	527284 185120



Industrial Land Use

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	Fuel Station Entries Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Belsize Park Service Station Belzier Park Service Station, 215, Haverstock Hill, London, NW3 4QE BP Petrol Station Open Automatically positioned to the address	A14NW (E)	460	-	527187 185227
98	Fuel Station Entries Name: Location: Brand: Premises Type: Status: Positional Accuracy:	Hampstead Connect 104a, Finchley Road, London, NW3 5EY BP Petrol Station Open Automatically positioned to the address	A8NW (SW)	603	-	526471 184554

Order Number: 48266434_1_1 Date: 09-Aug-2013 rpr_ec_datasheet v47.0 A Landmark Information Group Service Page 35 of 44



Sensitive Land Use

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Nature Rese	rves				
99	Name: Multiple Area: Area (m2): Source: Designation Date:	Belsize Wood N 2722.98 Natural England 1st October 2004	A14NE (E)	747	6	527479 185232

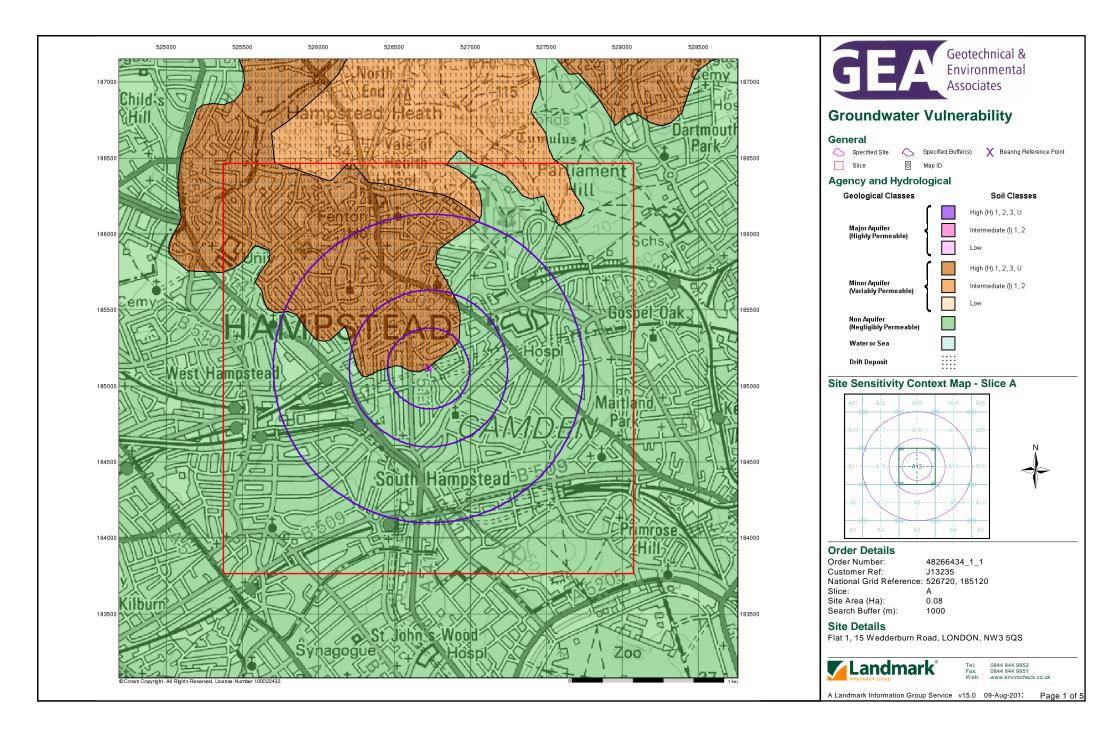
Order Number: 48266434_1_1 Date: 09-Aug-2013 rpr_ec_datasheet v47.0 A Landmark Information Group Service Page 36 of 44

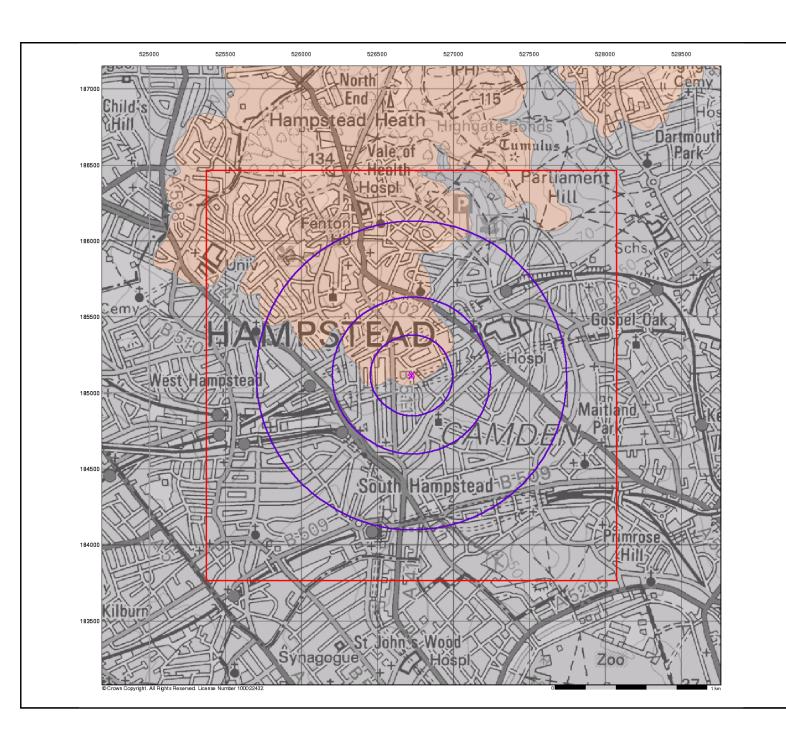


Useful Contacts

Contact	Name and Address	Contact Details
1	London Borough of Camden - Pollution Projects Team Seventh Floor, Town Hall Extension, Argyle Street, London, WC1H 8EQ	Telephone: 020 7278 4444 Fax: 020 7860 5713 Website: www.camden.gov.uk
2	London Borough of Waltham Forest - Environmental Health Department 154 Blackhorse Road, Walthamstow, London, E17 6NW	Telephone: 020 8496 3000 Fax: 0181 524 8960 Website: www.lbwf.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
6	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	London Borough of Camden Town Hall, Judd Street, London, WC1H 9JE	Telephone: 020 7974 4444 Fax: 020 7974 6866 Email: info@camden.gov.uk Website: www.camden.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.







Bedrock Aquifer Designation

General

Specified Site Specified Buffer(s) X Bearing Reference Point

8 Map ID

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

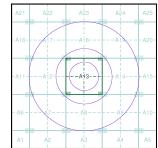
Secondary B Aquifer

Secondary Undifferentiated

Unproductive Strata

Unknown

Site Sensitivity Context Map - Slice A





Order Details

Order Number: 48266434_1_1 Customer Ref: J13235 National Grid Reference: 526720, 185120

Slice: Site Area (Ha): 0.08 Search Buffer (m): 1000

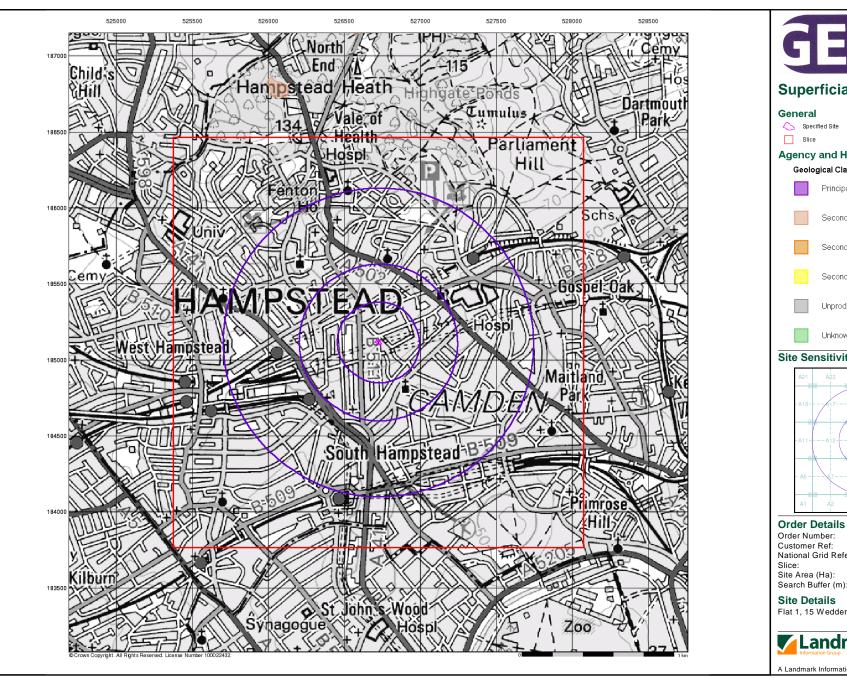
Site Details

Flat 1, 15 Wedderburn Road, LONDON, NW3 5QS



0844 844 9952 0844 844 9951

A Landmark Information Group Service v15.0 09-Aug-201: Page 2 of 5





Superficial Aquifer Designation

Specified Site
Specified Buffer(s)
X Bearing Reference Point 8 Map ID

Agency and Hydrological

Geological Classes

Principal Aquifer

Secondary A Aquifer

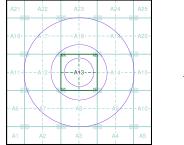
Secondary B Aquifer

Secondary Undifferentiated

Unproductive Strata

Unknown

Site Sensitivity Context Map - Slice A



48266434_1_1 Customer Ref: J13235 National Grid Reference: 526720, 185120

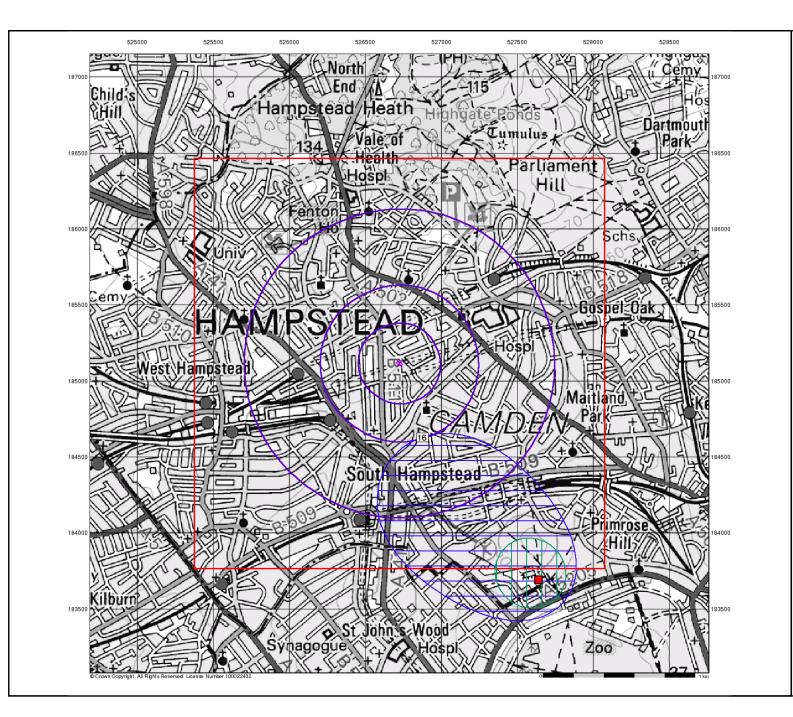
Site Area (Ha): 0.08 Search Buffer (m): 1000

Flat 1, 15 Wedderburn Road, LONDON, NW3 5QS



0844 844 9952 0844 844 9951

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Source Protection Zones

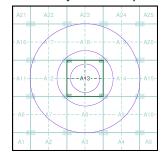
General

♦ Specified Site
♦ Specified Buffer(s)
X Bearing Reference Point
Slice
8 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





Order Details

Order Number: 48266434_1_1
Customer Ref: J13235
National Grid Reference: 526720, 185120
Slice: A

Site Area (Ha): 0.08
Search Buffer (m): 1000

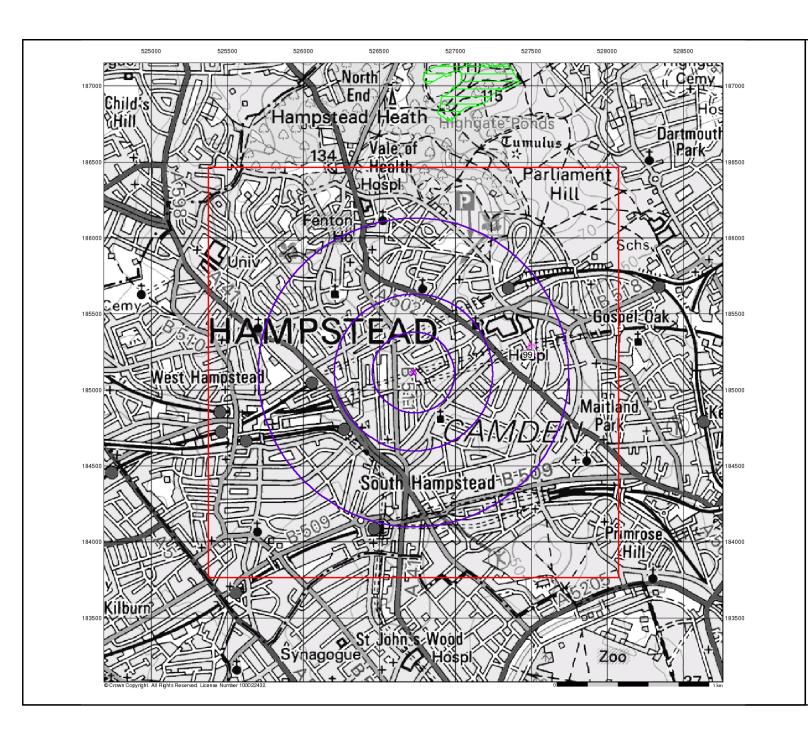
Site Details

Flat 1, 15 Wedderburn Road, LONDON, NW3 5QS



el: 0844 844 9952 ax: 0844 844 9951 eb: www.envirocheck.c

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Sensitive Land Uses

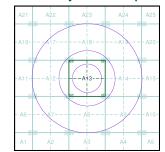
General

♦ Specified Site
♦ Specified Buffer(s)
X Bearing Reference Point
Slice
8 Map ID

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A





Order Details

Order Number: 48266434_1_1
Customer Ref: J13235
National Grid Reference: 526720, 185120

Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

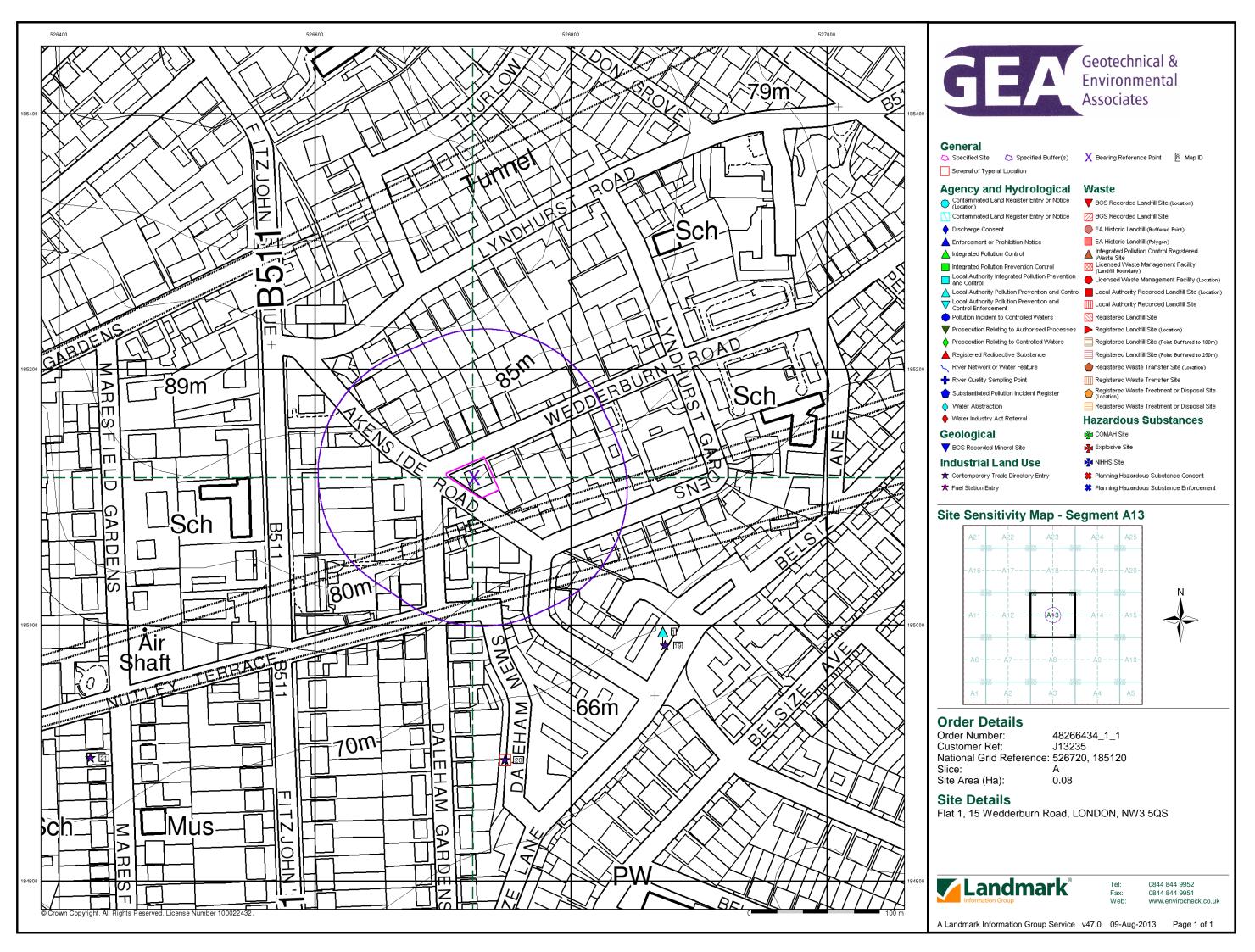
Site Details

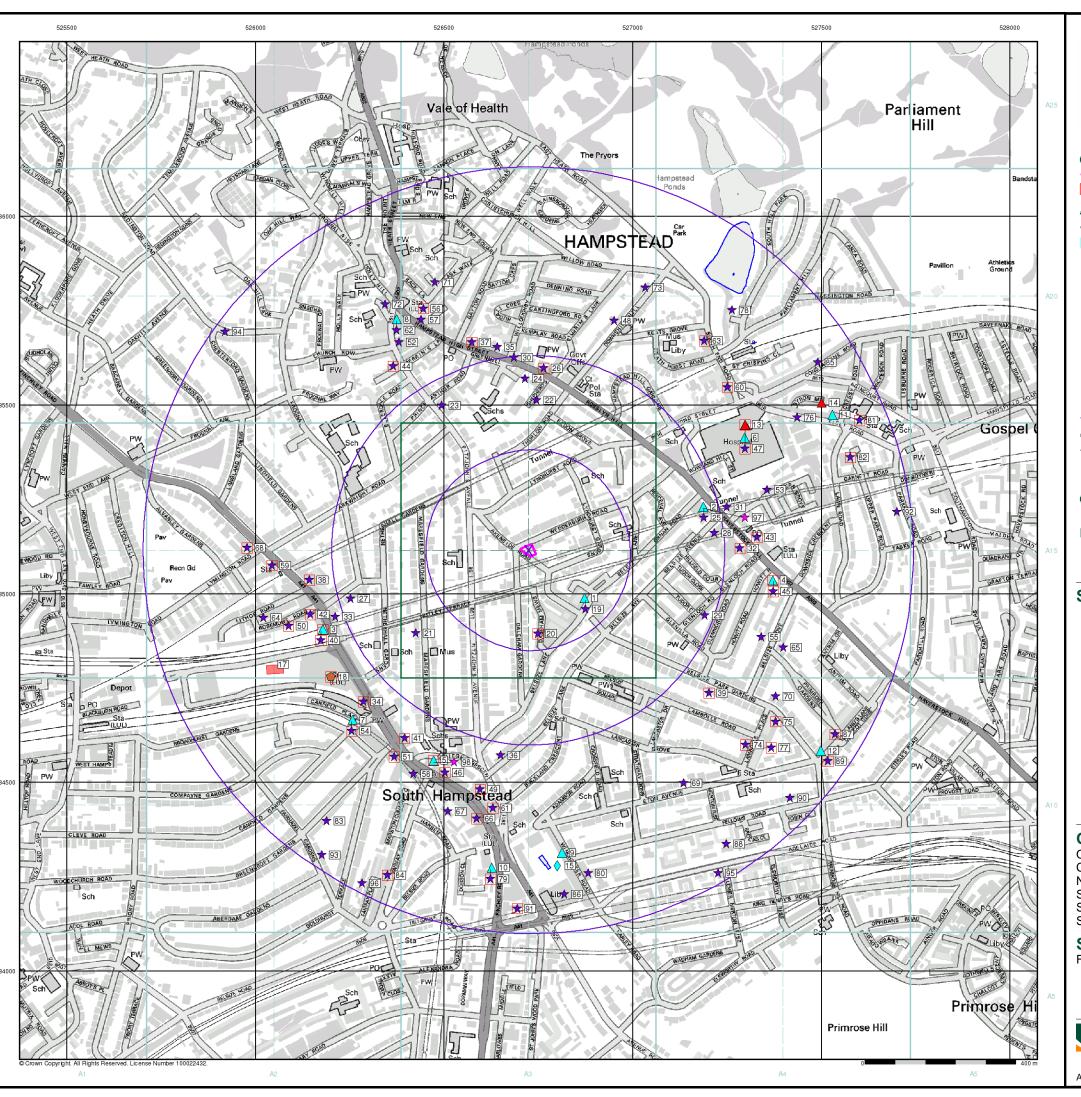
Flat 1, 15 Wedderburn Road, LONDON, NW3 5QS



el: 0844 844 9952 ax: 0844 844 9951 eb: www.envirocheck.c

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General

- Specified Site Specified Buffer(s) X Bearing Reference Point 8 Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- A Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- 🖶 River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

BGS Recorded Mineral Site

Industrial Land Use

- ** Contemporary Trade Directory Entry
- ★ Fuel Station Entry

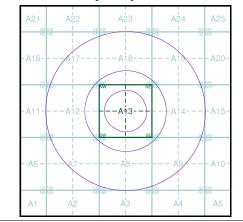
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point) A Enforcement or Prohibition Notice
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
- 🛕 Local Authority Pollution Prevention and Control 🧧 Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Registered Landfill Site Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
 - **Hazardous Substances**

COMAH Site

- Kara Explosive Site
- NIHHS Site
- 🗱 Planning Hazardous Substance Consent
- 🗱 Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice A





Order Details

Order Number: 48266434_1_1 Customer Ref: J13235

National Grid Reference: 526720, 185120 Slice:

Site Area (Ha): 0.08 Search Buffer (m): 1000

Site Details

Flat 1, 15 Wedderburn Road, LONDON, NW3 5QS



0844 844 9952 0844 844 9951

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