

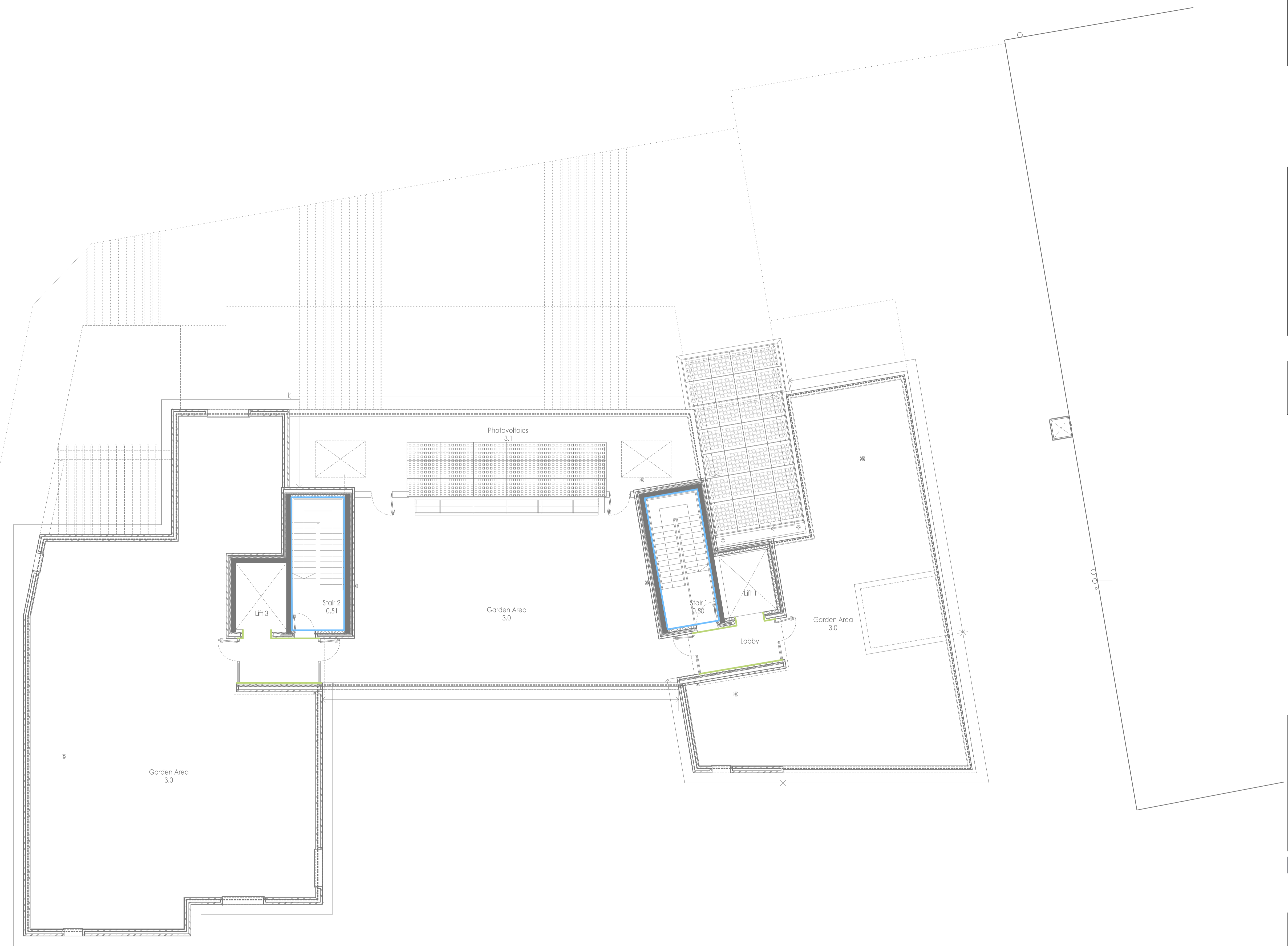
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**SYMBOLS KEY:**

- Dulux Trade Paint
- Altro Whitetock / Dulux Trade Paint (Whitetock 560-1430mm from fill)
- Altro Whitetock (Full height)
- Domus Tiling (Primary tile)
- Domus Tile (Feature Tile)
- Exposed Brickwork
- Existing Brickwork
- Fairfaced Blockwork

**NOTES:**

PAINT COLOURS TO BE UNIFORM FOR EACH FLOOR AS A MEANS OF WAYFINDING.  
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DATE	REV.	DESCRIPTION	BY	CHKD.
21.06.2016		Revise for comment	JF	PH

**PKCO** an HR company  
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 LONDON NW6 - 3BT  
 TEL: 0207 - 372 - 8918  
 www.pkco.co.uk

ARCHITECTS INTERIOR DESIGNERS  
 MASTER PLANNERS URBAN DESIGNERS

CLIENT	Kier Group
PROJECT	Greenwood Centre
DRAWING TITLE	Roof Floor Wall Finishes Layout
STATUS	COMMENT
SCALE	1:100@A1 1:200@A3
DATE	2016.06
DRAWING NO.	1213_WD318
DRAWN BY	JF
CHECKED BY	PH
REVISION	/

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**SYMBOLS KEY:**

- Dulux Trade Paint
- Altro Whiterock / Dulux Trade Paint (Whiterock 560-1430mm from fill)
- Altro Whiterock (Full height)
- Domus Tiling (Primary tile)
- Domus Tile (Feature Tile)
- Exposed Brickwork
- Existing Brickwork
- Fairfaced Blockwork

**NOTES:**

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DATE	REV.	DESCRIPTION	BY	CHECKED
21.06.2016	1	Revise for comment	JF	PH

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ARCHITECTS INTERIOR DESIGNERS  
 MASTER PLANNERS URBAN DESIGNERS

CLIENT	Kier Group
PROJECT	Greenwood Centre
DRAWING TITLE	Basement Floor Wall Finishes Layout
STATUS	COMMENT
SCALE	1:100@A1 1:200@A3
DATE	2016.06
DRAWING NO.	1213_WD449

*Appendix B: DESK STUDY INFORMATION*

# BOREHOLE FROM PREVIOUS GROUND INVESTIGATION

<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-668566 www.groundengineering.co.uk			Site: <b>GREENWOOD PLACE COMMUNITY CENTRE, LONDON SE6</b>				BOREHOLE <b>BH2</b>	
			Date: 01/05/13 to 02/05/13		Hole Size: 200mm dia to 0.42m 150mm dia to 20.00m		528836 mE 185390 mN Ground Level: 36.55m. O.D.	
Samples and in-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Blows	Casing					
					MADE GROUND - ASPHALT. MADE GROUND - GRANITE SETTS in concrete. MADE GROUND - CONCRETE.		0.05 0.25 0.42	36.50 36.30 36.13
0.67	ES1				MADE GROUND - Very soft, brown, slightly sandy, very gravelly CLAY. Gravel consists of angular to sub-rounded brick, concrete, ceramic, shell fragments and ash. MADE GROUND - Very soft, grey, slightly gravelly, sandy, organic CLAY. Gravel consists of angular to sub-rounded brick, flint and ash. Occasional black organic patches.		1.00	35.55
1.20-1.70	B1							
1.20	ES3		1.20					
1.35-1.65	C	N2						
1.50	ES4							
1.70	D1							
1.80-2.30	B2							
1.95-2.25	S	N3	1.50					
2.25	D2							
2.40	ES5							
2.55	D3		2.70					
2.60	D4							
2.70-3.10	U1	25						
3.20-3.70	B3				Medium dense, brown, slightly clayey, very sandy GRAVEL. Gravel consists of sub-angular to rounded flint.		3.10	33.45
3.35-3.65	C	N15	3.00					
3.35	ES6							
3.70	D5				Firm, brown, orange brown and grey mottled, gravelly CLAY. Gravel consists of angular to rounded flint.		3.70	32.85
3.80-4.20	U2	25	3.80					
3.95	ES7							
4.30	D6				Stiff, fissured, brown and grey mottled CLAY with occasional sand size selenite crystals and orange brown silt partings.		4.15	32.40
4.40	ES8							
4.55	D7							
4.95-5.25	S	N11	4.20					
5.25	D8							
5.55	D9							
5.80-5.20	U3	30	4.20					
6.30	D10							
6.80	D11							
7.45-7.75	S	N14	4.20					
7.75	D12							
8.30	D13							
8.80-9.20	U4	35	4.20					
9.30	D14							
9.80	D15							
							10.00	26.55

**REMARKS**

1. Excavating a pit from 0.00m to 1.20m
2. Borehole cased to 4.15m depth
3. Gas monitoring standpipe installed to 4.15m depth
4. ES = Environmental Sample

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12974

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<b>KEY</b> N - SPT Blows for 0.3m D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample S/C - SPT Spoon/Cone Water Strike Water Rise	V - Vane Shear Test Cohesion ( ) kPa Level on completion Level casing withdrawn Standpipe Level	Groundwater Strikes					Groundwater Observations			
		Depth m					Date			
		No	Struck	Rose to	Rate	Cased	Sealed	Hole	Casing	Water
1	3.10	2.70	very slow seepage	4.20	3.70	01/05/13	15.30	4.20	dry	
2	0.00					02/05/13	15.30	4.20	dry	
						02/05/13	20.00	4.20	dry	
						02/05/13	20.00	0.00	dry	
						13/05/13	4.50		-	

# GROUND ENGINEERING

L I M I T E D  
Tel: 01733-568566  
www.groundengineering.co.uk

Site: GREENWOOD PLACE COMMUNITY CENTRE, LONDON SE6

BOREHOLE  
BH2

Date: 01/05/13  
to 02/05/13

Hole Size: 200mm dia to 0.42m  
150mm dia to 20.00m

528836 mE 185390 mN  
Ground Level: 36.55m. O.D.

Samples and in-situ Tests

Depth m	Type	Blows	(Date) Casing	Inst.	Description of Strata	Legend	Depth m	O.D. Level m
10.45-10.75	S	N15	4.20		Stiff, fissured, brown and grey mottled CLAY with occasional sand size selenite crystals and orange brown silt partings.		10.00	26.55
10.75	D16							
11.30	D17		Very stiff, fissured, locally fissured to stiff, brown, grey CLAY with occasional grey silt partings and rare gravel size pyrite nodules.			11.00	25.55	
11.80-12.20	U5	50						4.20
12.30	D18							
12.80	D19							
13.45-13.75	S	N34	4.20					
13.75	D20							
14.30	D21							
14.80-15.20	U6	50	4.20					
15.30	D22							
15.80	D23							
16.45-16.75	S	N36	14.20					
16.65	D24							
17.30	D25							
17.80-18.20	U7	55	4.20					
18.30	D26							
18.65-18.95	S	N38	14.20					
18.95	D27							
19.50-19.90	U8	55	4.20					
19.95	D28							
							20.00	16.55

REMARKS

Borehole completed at 20.00m depth

Project No  
12974

Scale  
1:50

Page  
2/2

- KEY
- D - Disturbed Sample
  - B - Bulk Sample
  - U - Undisturbed Sample
  - W - Water Sample
  - S/C - SPT Spoon/Cone
  - ∇ - Water Strike
  - ∇ - Water Rise
  - N - SPT Blows for 0.3m
  - \* - Blows for quoted penetration
  - V - Vane Shear Test Cohesion ( ) kPa
  - ∇c - Level on completion
  - c∇w - Level casing withdrawn
  - ∇s - Standpipe Level

Groundwater Strikes					Groundwater Observations			
Depth m					Depth m			
No Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
					20/05/13	4.50		-
					29/05/13	4.50		-
					03/06/13	4.50		-
					13/06/13	4.50		1.53

# BOREHOLE FROM PREVIOUS GROUND INVESTIGATION

<b>GROUND ENGINEERING</b> L I M I T E D Tel: 01733-566566 www.groundengineering.co.uk			Site: GREENWOOD PLACE COMMUNITY CENTRE, LONDON SE6				WINDOW SAMPLE <b>DCS4</b>	
			Date: 29/04/13		Hole Size: 87mm dia to 2.00m 77mm dia to 3.00m 57mm dia to 6.00m		528838 mE 185364 mN Ground Level: 36.70m. O.D.	
Samples and In-situ Tests			(Date)	Inst.	Description of Strata	Legend	Depth m	O.D. Level m
Depth m	Type	Result	Water					
0.40	ES1				MADE GROUND - CONCRETE.		0.20	36.50
					MADE GROUND - Brown, slightly silty SAND AND GRAVEL. Gravel consists of angular to sub-rounded brick, flint and concrete.		0.56	36.14
					MADE GROUND - CONCRETE.		0.70	36.00
0.95	ES2				MADE GROUND - Firm, black, brown and dark brown mottled, slightly sandy, gravelly, silty CLAY. Gravel consists of angular to sub-angular brick, concrete, ash and coal.		1.00	35.70
1.20	D1				MADE GROUND - Firm, brown and grey mottled, slightly gravelly CLAY. Gravel consists of angular to sub-angular brick, concrete and ash.		1.50	35.20
1.20-2.00	U1							
1.20	ES3				Firm, brown, grey and orange brown mottled gravelly CLAY. Gravel consists of sub-angular to rounded flint.		2.10	34.60
1.35-1.65	S	N5 (0.75)						
1.50	PP1	(32)			Firm, brown and grey mottled CLAY with abundant calcareous concretions and orange brown silt partings.		4.60	32.10
1.50	V1							
1.75	ES4							
1.90	U1A							
2.00-3.00	U2	(41)						
2.00	V2	(1.00)						
2.15-2.45	C	N7						
2.20	U2A							
2.35	ES5							
2.40	PP3	(1.50)						
2.40	V3	(56)						
2.60-2.80	U2B							
2.90	V4	(79)						
3.00	D2							
3.00-4.00	U3							
3.15-3.45	S	N11						
4.00	D3							
4.00-5.00	U4							
4.15-4.45	S	N10						
5.00	D4							
5.00-6.00	U5							
5.15-5.45	S	N14						
6.00	D5							
6.15-6.45	S	N19						
					Hole completed at 6.00m depth		6.00	30.70

<b>REMARKS</b> 1. Starter pit excavated from GL to 1.20m depth 2. No live roots observed 3. Gas monitoring standpipe installed to 2.00m depth 4. PP = Pocket Penetrometer reading (Kg/cm <sup>2</sup> ) 5. ES = Environmental Sample	Project No 12974	
	Scale 1:50	Page 1/1

<b>KEY</b> D - Disturbed Sample B - Bulk Sample U - Undisturbed Sample W - Water Sample ∇ Water Strike ∇ Depth to Water on completion J - Jar Sample M - Mackintosh Probe V - Vane Shear Test Cohesion ( ) kPa P ( ) - Hand Penetrometer Cohesion ( ) kPa ∇s Standpipe Level	Groundwater Strikes					Groundwater Observations			
	Depth m					Depth m			
	No Struck	Rose to	Rate	Cased	Sealed	Date	Hole	Casing	Water
						29/04/13	6.00		dry
					13/05/13	2.00		dry	
					20/05/13	2.00		dry	
					29/05/13	2.00		dry	
					03/06/13	2.00		dry	



EmapSite  
Masdar House, ,  
Eversley, RG27 0RP

GroundSure Reference:	EMS-184935_271161
Your Reference:	EMS_184935_271161
Report Date:	Nov 8, 2012
Report Delivery Method:	<b>Email - pdf</b>
Client Email:	sales@emapsite.com

## **GroundSure EnviroInsight**

**Address: Greenwood Place Community Centre**

Dear Sir/Madam,

Thank you for placing your order with emapsite. Please find enclosed the GroundSure EnviroInsight as requested

If you would like further assistance regarding this report then please contact the emapsite customer services team on 0118 9736883 quoting the above report reference number.

Yours faithfully,

emapsite customer services team

Enc.  
GroundSure EnviroInsight

# GroundSure EnviroInsight

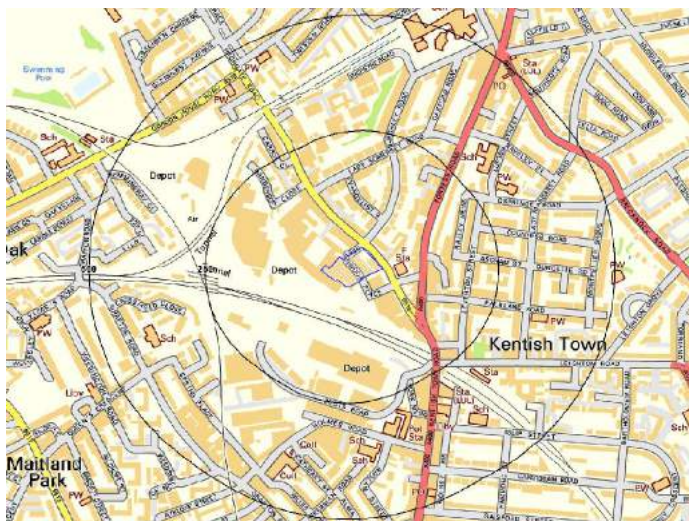
Address: Greenwood Place Community Centre

Date: Nov 8, 2012

GroundSure Reference: EMS-184935\_271161

Your Reference: EMS\_184935\_271161

Client: EmapSite



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# Aerial Photograph of Study Site



Site Name: Greenwood Place Community Centre  
Grid Reference: 528833,185396  
Size of Site: 0.57 ha

Aerial photography supplied by Getmapping PLC.  
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# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary					
	on-site	0-50	51-250	251-500	501-1000	1000-1500
<b>1. Environmental Permits, Incidents and Registers</b>						
<b>1.1 Industrial Sites Holding Environmental Permits and/or Authorisations</b>						
Records of historic IPC Authorisations	0	0	0	0	-	-
Records of Part A(1) and IPPC Authorised Activities	0	0	0	0	-	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of Part A(2) and Part B Activities and Enforcements	0	0	10	8	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	2	-	-
Records of Licensed Discharge Consents	0	0	0	0	-	-
Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0		
<b>1.2 Records of COMAH and NIHHS sites</b>	0	0	0	0	-	-
<b>1.3 Environment Agency Recorded Pollution Incidents</b>						
National Incidents Recording System, List 2	0	0	0	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-
<b>1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990</b>	0	0	1	0	-	-
<b>2. Landfill and Other Waste Sites</b>						
<b>2.1 Landfill Sites</b>						
Environment Agency Registered Landfill Sites	0	0	0	0	0	-
Landfill Data – Operational Landfill Sites	0	0	0	0	0	-
Environment Agency Historic Landfill Sites	0	0	0	0	0	0
Landfill Data – Non-Operational Landfill Sites	0	0	0	0	0	-
BGS/DoE Landfill Site Survey	0	0	0	0	0	0
GroundSure Local Authority Landfill Sites Data	0	0	0	0	0	0
<b>2.2 Landfill and Other Waste Sites Findings</b>						
Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	1	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	1	-	-
Environment Agency Licensed Waste Sites	0	0	2	0	0	2

3. Current Land Uses	on-site	0-50	51-250	251-500	501-1000	1000-1500
3.1 Current Industrial Sites Data	1	6	33	-	-	-
3.2 Records of Petrol and Fuel Sites	0	0	0	1	-	-
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0	-	-

#### 4. Geology Description

4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? \* Yes

4.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site? \* No

4.3 For records of Bedrock and Solid Geology beneath the study site\* see the detailed findings section.

Source: Scale: 1:50,000 BGS Sheet 256

\* This includes an automatically generated 50m buffer zone around the site.

#### 5. Hydrogeology and Hydrology on-site 0-50 51-250 251-500 501-1000 1001-2000

5.1 Are there any records of Productive Strata in the Superficial Geology within 500m of the study site? No

5.2 Are there any records of Productive Strata in the Bedrock Geology within 500m of the study site? Yes

5.3 Groundwater Abstraction Licences (within 2000m of the study site). 0 0 0 0 3 2

5.4 Surface Water Abstraction Licences (within 2000m of the study site). 0 0 0 0 0 4

5.5 Potable Water Abstraction Licences (within 2000m of the study site). 0 0 0 0 1 0

5.6 Are there any Source Protection Zones within 500m of the study site? No

##### 5.7 River Quality on-site 0-50 51-250 251-500 501-1000 1001-1500

Is there any Environment Agency information on river quality within 1500m of the study site? No No No No No Yes

5.8 Detailed River Network entries within 500m of the site 0 0 1 0 - -

5.9 Surface water features within 250m of the study site No No No - - -

#### 6. Flooding

6.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site? No

6.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site? No

6.3 Are there any Flood Defences within 250m of the study site? No

6.4 Are there any areas benefiting from Flood Defences within 250m of the study site? No

6.5 Are there any areas used for Flood Storage within 250m of the study site? No

6.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site? Negligible

6.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas? Not Applicable

7. Designated Environmentally Sensitive Sites	on-site	0-50	51-250	251-500	501-1000	1001-2000
7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
7.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
7.3 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
7.4 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
7.5 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
7.6 Records of Ramsar sites	0	0	0	0	0	0
7.7 Records of World Heritage Sites	0	0	0	0	0	0
7.8 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
7.9 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
7.10 Records of National Parks	0	0	0	0	0	0
7.11 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
7.12 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
7.13 Records of Ancient Woodlands	0	0	0	0	0	0

## 8. Natural Hazards

8.1 What is the maximum risk of natural ground subsidence? Moderate

## 9. Mining

- 9.1 Are there any coal mining areas within 75m of the study site? No
- 9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site? Negligible
- 9.3 Are there any brine affected areas within 75m of the study site? No

---

## Using this Report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

### 1. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

### 2. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

### 3. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

### 4. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

### 5. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

### 6. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

### 7. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites. These searches are conducted using radii of up to 500m.

### 8. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence.

### 9. Mining

Provides information on areas of coal and shallow mining.

---

## 10. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

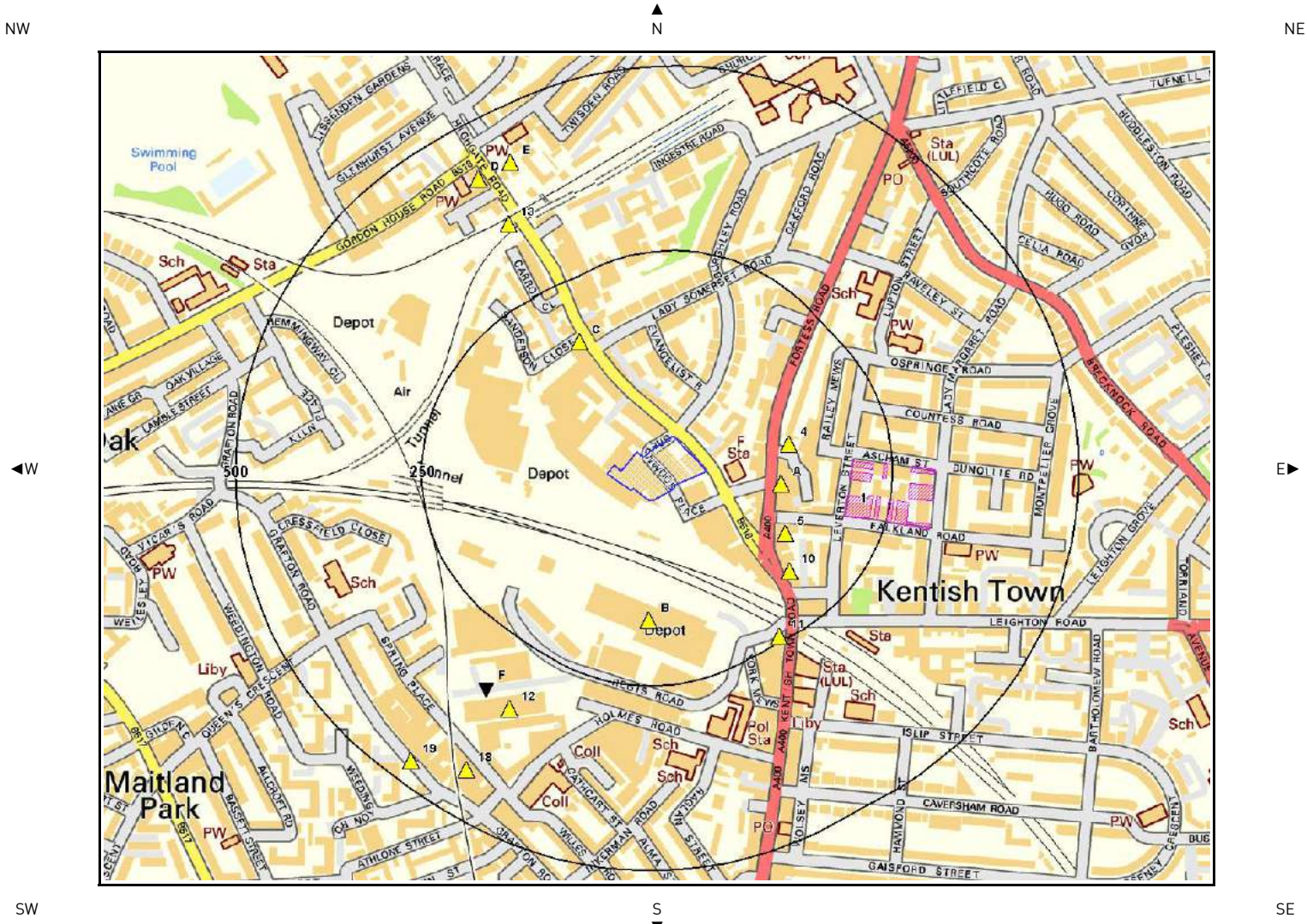
### Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Environmental Permits, Incidents and Registers Map



Authorisations, Incidents and Registers Legend



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- |  |                               |  |  |
|--|-------------------------------|--|--|
|  | Recorded Pollution Incident   |  | RAS 3 & 4 Authorisations                                       |
|  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |
|  | Dangerous Substances (List 2) |  | Part A(2) and Part B Authorised Processes                      |
|  | Site Outline                  |  | COMAH / NIHS Sites   |
|  | Search Buffers (m)            |  | Sites Determined as Contaminated Land                          |
|  | Water Industry Referrals      |  | Hazardous Substance Consents and Enforcements                  |
|  | Licensed Discharge Consents   |  |  |
|  | Red List Discharge Consents   |  |  |

# 1.Environmental Permits, Incidents and Registers

## 1.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

**Records of historic IPC Authorisations within 500m of the study site: 0**

Database searched and no data found.

**Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: 0**

Database searched and no data found.

**Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: 0**

Database searched and no data found.

**Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site: 0**

Database searched and no data found.

**Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: 0**

Database searched and no data found.

**Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: 0**

Database searched and no data found.

**Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: 18**

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details
2A	102.0	E	528997, 185376	Address: Perk Clean , 20 Fortess Road, Kentish Town, NW5 2HB Process: Dry Cleaner Status: Historic Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
3A	102.0	E	528997, 185376	Address: Perk Clean , 20 Fortess Road, Kentish Town, NW5 2HB Process: Dry Cleaner Status: Current Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

Report Reference: EMS-184935\_271161



4	115.0	E	529007, 185429	Address: M & A Coachworks, II 1-36 Fortess Grove, Kentish Town, London, NW5 1LE Process: Vehicle Respraying Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
5	136.0	SE	529002, 185308	Address: Zappeo Dry Cleaners, 310 Kentish Town Road, NW5 2TH Process: Dry Cleaner Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
6B	164.0	S	528819, 185191	Address: Post Office Vehicle Services Unit A Kentish Town Business Park, Regis Road, London, NW5 3RR Process: Vehicle respraying Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
7B	164.0	S	528819, 185191	Address: Post Office Vehicle Services, Unit A, Kentish Town Business Park, Regis Road, London, NW5 3RR Process: Vehicle respraying Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
8C	165.0	NW	528726, 185567	Address: J Murphy & Sons Ltd , 81 Highgate Road, NW5 1TS Process: Vehicle Refinishing Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
9C	165.0	NW	528726, 185567	Address: J Murphy & Sons Ltd , 81 Highgate Road, NW5 1TS Process: Vehicle Refinishing Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
10	177.0	SE	529008, 185257	Address: Zappeo , 310 Kentish Town Road, NW5 1TH Process: Dry Cleaners Status: Revoked Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
11	246.0	SE	528994, 185169	Address: The Kleen Machine , Kentish Town, PO16 8UG Process: Dry Cleaners Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
12	340.0	SW	528632, 185071	Address: Hexagon of Highgate 1 Browns Lane, Regis Road, Kentish Town, London, NW5 3EX Process: Vehicle respraying Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
13	350.0	NW	528631, 185726	Address: M & A Coachworks, 135 Highgate Road, Kentish Town, London, NW5 1LE Process: Vehicle respraying Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
14D	424.0	NW	528590, 185788	Address: Perfect Dry Cleaners , 151 Highgate Road, NW5 1JL Process: Dry Cleaner Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
15D	424.0	NW	528590, 185788	Address: Perfect Dry Cleaners , 151 Highgate Road, NW5 1JL Process: Dry Cleaner Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
16E	425.0	NW	528633, 185810	Address: ASF Garage Ltd, 138 Highgate Road, London, NW5 1PB Process: Petrol Station Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
17E	425.0	NW	528633, 185810	Address: ASF Garage Ltd, 138-140 Highgate Road, London, NW5 1PB Process: Petrol Station Status: Current Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
18	440.0	SW	528574, 184989	Address: Solus London Ltd, 3-6 Spring Place, NW5 4BA Process: Unknown Status: Historic Permit Type: Part B	Enforcement: Enforcement Notified Date of Enforcement: 20070526 Comment: Not given

19	472.0	SW	528500, 185000	Address: Jt Coachwks Spring Pl, Kentish Town, NW5 3BH Process: Vehicle Re-spray Process Status: Historic Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
----	-------	----	-------------------	---	--

**Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site: 2**

The following RAS Licence (3 or 4) records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	Address	Operator	Type	Permission Number	Dates	Status
22F	332.0	SW	Hexagon Of Highgate Ltd, Body Shop Dept,1 Browns Lane, London, NW5 3EX	Hexagon Of Highgate Ltd	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AO2051	Date of Approval:- Effective from:- Last date of update:20 01-06-01	-
23F	332.0	SW	Hexagon B.m.w, 1 Browns Lane,regis Road,kentish Town, London, NW5 3EX	Hexagon B.m.w	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BB8362	Date of Approval:- Effective from:- Last date of update:20 01-06-01	-

**Records of Licensed Discharge Consents within 500m of the study site: 0**

Database searched and no data found.

**Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 0**

Database searched and no data found.

## 1.2 Dangerous or Hazardous Sites

**Records of COMAH & NIHHS sites within 500m of the study site: 0**

Database searched and no data found.

## 1.3 Environment Agency Recorded Pollution Incidents

**Records of National Incidents Recording System, List 2 within 250m of the study site: 0**

Database searched and no data found.

**Records of National Incidents Recording System, List 1 within 250m of the study site: 0**

Database searched and no data found.

## 1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990

**How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?**

**1**

The following records are represented as polygons on the Authorisations, Incidents and Registers Map:

ID	Distance	Direction	NGR	Description	Location	Category	Year Identified
1	191.0	E	529101, 185346	Former metal plating works. Lead and Cadmium potential contaminants. Remediated.	8 Ascham Street, 15-23, 27, 33, 37-41 Falkland Road, 15a, 25-29, 35 Lady Margeret Road, 42, 44, 48 Leverton Street, NW5 2PU.	Contaminated Land	2011

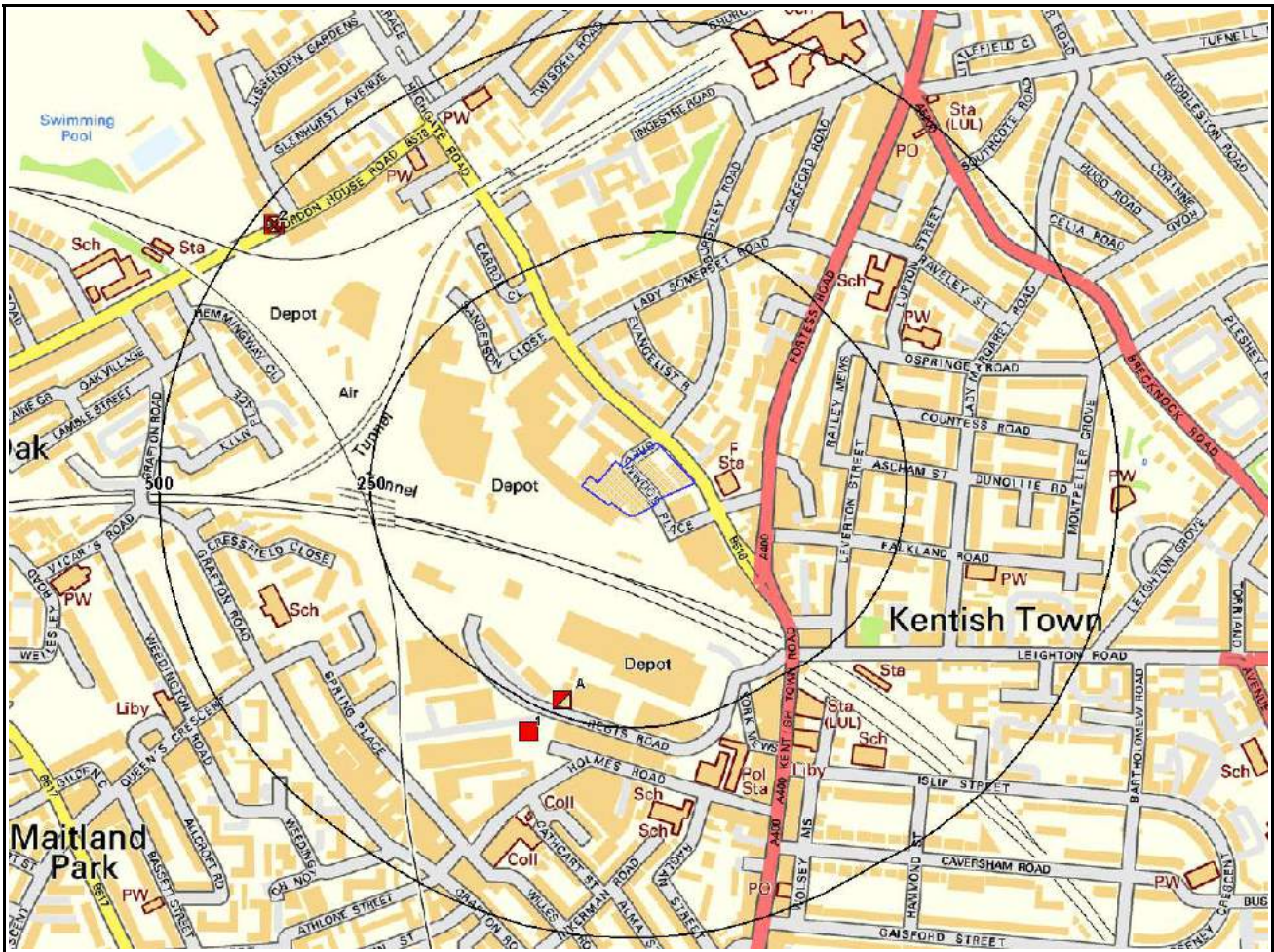
## 2. Landfill and Other Waste Sites Map

NW



NE

W



SW



SE

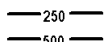
### Landfill & Other Waste Sites Legend



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Site Outline



Search Buffers (m)



E.A. Active Landfill



E.A. Historic Landfill (Area Data)



E.A. Historic Landfill (Point Data)



BGS / DoE Survey Landfill



Local Authority Landfill (Area Data)



Local Authority Landfill (Point Data)



Operational Waste Treatment Licence



Closed Waste Treatment Licence



REGIS Waste Licence



Operational Landfill



Closed Landfill

## 2. Landfill and Other Waste Sites

### 2.1 Landfill Sites

**Records from Environment Agency landfill data within 1000m of the study site: 0**

Database searched and no data found.

**Records of operational landfill sites sourced from Landmark within 1000m of the study site: 0**

Database searched and no data found.

**Records of Environment Agency historic landfill sites within 1500m of the study site: 0**

Database searched and no data found.

**Records of non-operational landfill sites sourced from Landmark within 1000m of the study site: 0**

Database searched and no data found.

**Records of BGS/DoE non-operational landfill sites within 1500m of the study site: 0**

Database searched and no data found.

**Records of Local Authority landfill sites within 1500m of the study site: 0**

Database searched and no data found.

### 2.2 Other Waste Sites

**Records of operational waste treatment, transfer or disposal sites within 500m of the study site: 1**

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
1	281.0	SW	528700, 185100	Site Address: Regis Road Recycling Centre, CAMDEN, London, NW5 3EP Landfill Licence: G15AAKAL EA Reference: EAWML80349 Waste Type: Difficult Rating: Difficult Transfer, Difficult Treatment Known Restrictions: No known restriction on source of waste Record Date: 01-Dec-1996 Transfer Date: Modification Date: 01-Aug-1998 Status: Operational as far as is known Category: RECYCLING / RECLAMATION Regulator: EA - Thames Region - North East Area (Isleworth) Size: Very Small (<10,000 tonnes/year)

**Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site: 1**

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
2	477.0	NW	528400, 185700	<p>Site Address: BR Goods Depot, Gordon House Road, CAMDEN, London, NW5</p> <p>Landfill Licence: 176AFXAL</p> <p>EA Reference: -</p> <p>Waste Type: Non-Hazardous</p> <p>Waste Description: Non-Hazardous</p> <p>Known Restrictions: No known restriction on source of waste</p> <p>Record Date: 01-May-1982</p> <p>Transfer Date:</p> <p>Modification Date: 01-Feb-1983</p> <p>Status: Licence</p> <p>lapsed/cancelled/defunct/not applicable/surrendered</p> <p>Category: TRANSFER</p> <p>Regulator: EA - Thames Region - North East Area (Hatfield-London N)</p> <p>Size: Medium (&lt; 75,000 tonnes/year)</p>

**Records of Environment Agency licensed waste sites within 1500m of the study site:**

**4**

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
3A	231.0	S	528740, 185138	<p>Site Address: Camden London Borough Council, Recycling Centre, Regis Road, Kentish Town, London, NW5 3EP</p> <p>Type: Household Waste Amenity Site</p> <p>Size: &lt; 25000 tonnes</p> <p>Regis Licence Number: CAM001</p> <p>EPR reference: EA/EPR/DP3091NK/V003</p> <p>Operator: Camden London Borough Council</p> <p>Waste Management licence No: 80349</p> <p>Annual Tonnage: 7793.0</p> <p>Issue Date: 10/12/1996</p> <p>Effective Date: -</p> <p>Modified: 25/01/2002</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Regis Road Recycling Centre</p> <p>Correspondence Address: -, -</p>
4A	231.0	S	528740, 185138	<p>Site Address: Camden London Borough Council, Recycling Centre, Regis Road, Kentish Town, London, NW5 3EP</p> <p>Type: Household Waste Amenity Site</p> <p>Size: &lt; 25000 tonnes</p> <p>Regis Licence Number: LWL001</p> <p>EPR reference: EA/EPR/GB3230DW/T001</p> <p>Operator: Londonwaste Limited</p> <p>Waste Management licence No: 80349</p> <p>Annual Tonnage: 7793.0</p> <p>Issue Date: 10/12/1996</p> <p>Effective Date: 11/05/2012</p> <p>Modified: 25/01/2002</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Transferred</p> <p>Site Name: Regis Road Recycling Centre</p> <p>Correspondence Address: -, -</p>
Not shown	1329.0	S	528667, 184035	<p>Site Address: -</p> <p>Type: Household Waste Amenity Site</p> <p>Size: Unknown</p> <p>Regis Licence Number: CAM003</p> <p>EPR reference: -</p> <p>Operator: Camden London Borough Council</p> <p>Waste Management licence No: 80482</p> <p>Annual Tonnage: 0.0</p> <p>Issue Date: 15/10/1994</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 25/07/1997</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Jamestown Road Ca Site</p> <p>Correspondence Address: Camden LB Council, Town Hall Extension, Argyle Street, London, WC1H 8EQ</p>
Not shown	1329.0	S	528667, 184035	<p>Site Address: -</p> <p>Type: Household Waste Amenity Site</p> <p>Size: &lt; 25000 tonnes</p> <p>Regis Licence Number: CAM003</p> <p>EPR reference: EA/EPR/UP3697NB/S002</p> <p>Operator: Camden London Borough Council</p> <p>Waste Management licence No: 80482</p> <p>Annual Tonnage: 20000.0</p> <p>Issue Date: 15/10/1994</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 25/07/1997</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Jamestown Road CA Site</p> <p>Correspondence Address: -, -</p>

### 3. Current Land Use Map

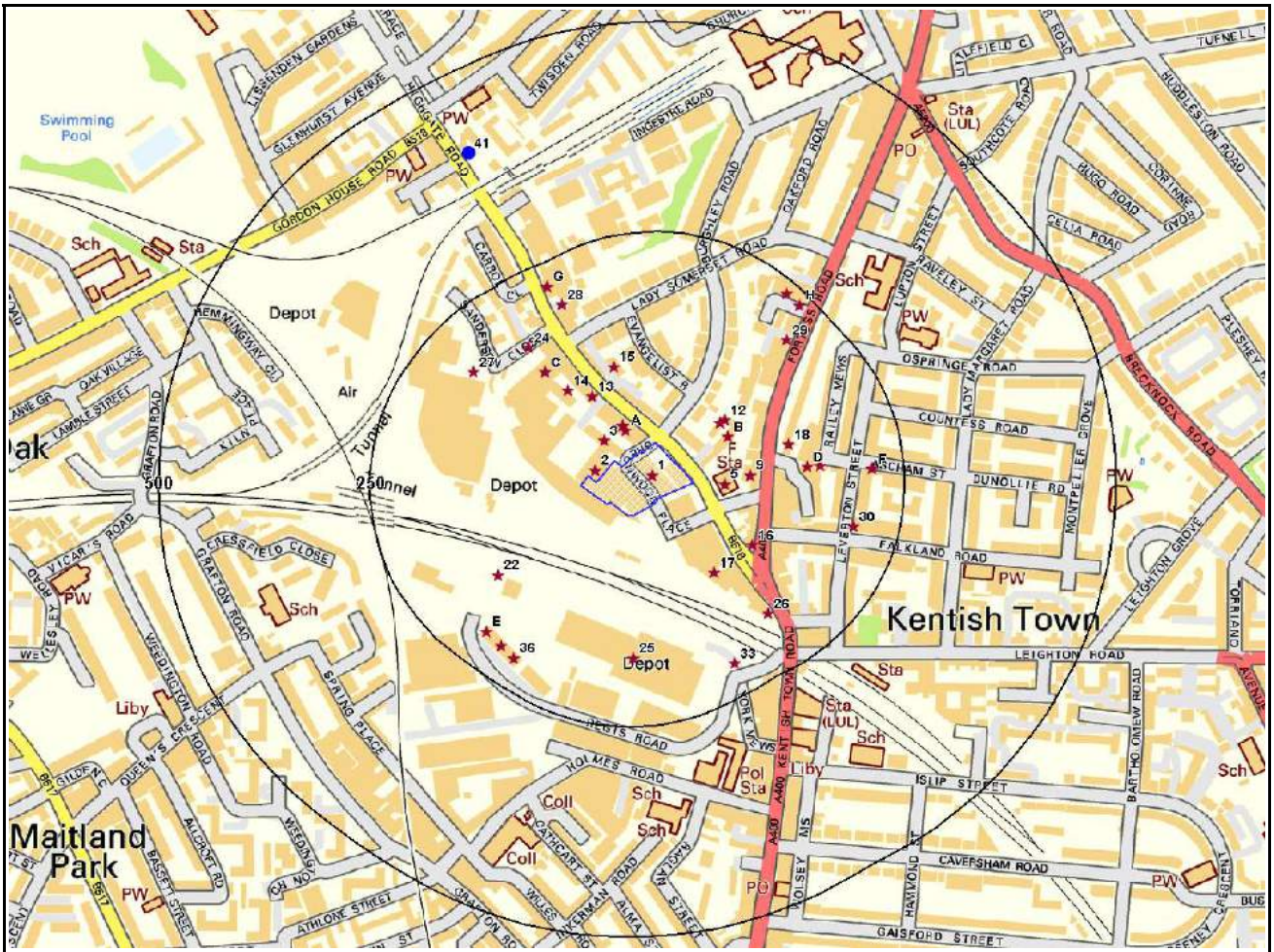
NW



NE

W

E



SW



SE

Current Land Use Legend



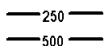
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Site Outline



Current Industrial Sites



Search Buffers (m)



Petrol & Fuel Sites



Underground High Pressure Oil & Fuel Pipelines

## 3. Current Land Uses

### 3.1 Current Industrial Data

**Records of potentially contaminative industrial sites within 250m of the study site:**

**40**

The following records are represented as points on the Current Land Uses map.

ID	Distance	Direction	Company	Address	Activity	Category
1	0.0	On Site	A & A Business Center	19, Greenwood Place, London, NW5 1LB	Container and Storage	Transport, Storage and Delivery
2	9.0	NE	London Undercover	Unit 1-4 Deane House 27, Greenwood Place, London, NW5 1LB	Luggage, Bags, Umbrellas and Travel Accessories	Consumer Products
3	26.0	NW	Alan Pharmaceuticals	33, Greenwood Place, London, NW5 1LB	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
4A	31.0	NW	Works	NW5	Unspecified Works Or Factories	Industrial Features
5	37.0	E	Kentish Town Fire Station	Kentish Town Fire Station 20, Highgate Road, London, NW5 1NS	Fire Brigade Stations	Central and Local Government
6A	38.0	NW	Millenium Designs Ltd	Linton House 39-51, Highgate Road, London, NW5 1RT	Clothing, Components and Accessories	Consumer Products
7A	38.0	NW	Zooid Pictures Ltd	Linton House 39-51, Highgate Road, London, NW5 1RT	Published Goods	Industrial Products
8B	66.0	NE	Works	NW5	Unspecified Works Or Factories	Industrial Features
9	68.0	E	Charles Wilson Engineers Ltd	11-15, Fortess Road, London, NW5 1AD	Construction and Tool Hire	Hire Services
10 B	71.0	NE	Piano Warehouse Ltd	30a, Highgate Road, London, NW5 1NS	Musical Instruments	Consumer Products
11 B	71.0	NE	Court Davis Joinery Ltd	30a, Highgate Road, London, NW5 1NS	General Construction Supplies	Industrial Products
12	78.0	NE	Works	NW5	Unspecified Works Or Factories	Industrial Features
13	80.0	N	Works	NW5	Unspecified Works Or Factories	Industrial Features
14	100.0	NW	Electricity Sub Station	NW5	Electrical Features	Infrastructure and Facilities
15	102.0	NW	Works	NW5	Unspecified Works Or Factories	Industrial Features
16	102.0	SE	S & A Electricals	1a, Fortess Road, London, NW5 1AA	Electrical Equipment Repair and Servicing	Repair and Servicing
17	107.0	SE	Works	NW5	Unspecified Works Or Factories	Industrial Features
18	121.0	E	M & A Coachworks Ltd	36, Fortess Road, London, NW5 2HB	Vehicle Repair, Testing and Servicing	Repair and Servicing
19 C	133.0	NW	Kinnerton Confectionery Co Ltd	Highgate Studios 53-79, Highgate Road, London, NW5 1TL	Baking and Confectionery	Foodstuffs
20 C	133.0	NW	Reproductive Health Matters	Highgate Studios 53-79, Highgate Road, London, NW5 1TL	Published Goods	Industrial Products
21 D	135.0	E	Depot	NW5	Container and Storage	Transport, Storage and Delivery
22	145.0	SW	Tank	NW5	Tanks (Generic)	Industrial Features



23 D	150.0	E	Works		NW5	Unspecified Works Or Factories	Industrial Features
24	168.0	NW	Electricity Sub Station		NW5	Electrical Features	Infrastructure and Facilities
25	169.0	S	Depot		NW5	Container and Storage	Transport, Storage and Delivery
26	179.0	SE	Car Valeting Centre	369-377, Kentish Town Road, London, NW5 2TJ		Vehicle Cleaning Services	Personal, Consumer and Other Services
27	183.0	NW	Depot		NW5	Container and Storage	Transport, Storage and Delivery
28	195.0	N	Electricity Sub Station		NW5	Electrical Features	Infrastructure and Facilities
29	196.0	NE	Lakis Meat Products	61, Fortess Road, London, NW5 1AD		Fish, Meat and Poultry Products	Foodstuffs
30	196.0	E	Fabulously French	15a, Falkland Road, London, NW5 2PU		Baking and Confectionery	Foodstuffs
31E	207.0	SW	E K O Office Systems Ltd	Unit 1-3 Kentish Town Industrial Estate, Regis Road, London, NW5 3EW		Office and Shop Equipment	Industrial Products
32E	210.0	SW	Caraselle Direct Ltd	Unit 4-5 Kentish Town Industrial Estate, Regis Road, London, NW5 3EW		Clothing, Components and Accessories	Consumer Products
33	211.0	SE	Electricity Sub Station		NW5	Electrical Features	Infrastructure and Facilities
34F	212.0	E	Car Care Garages	50, Leverton Street, London, NW5 2PG		Vehicle Repair, Testing and Servicing	Repair and Servicing
35F	212.0	E	Jack Autos	50a, Leverton Street, London, NW5 2PG		Vehicle Repair, Testing and Servicing	Repair and Servicing
36	214.0	SW	City Scaffolding	Kentish Town Industrial Estate, Regis Road, London, NW5 3EW		Construction and Tool Hire	Hire Services
37 G	221.0	N	W A Waugh	94, Highgate Road, London, NW5 1PB		Published Goods	Industrial Products
38 G	221.0	N	Adsal Reprographic	94, Highgate Road, London, NW5 1PB		Published Goods	Industrial Products
39 H	235.0	NE	Kudos Records Ltd	77, Fortess Road, London, NW5 1AG		Distribution and Haulage	Transport, Storage and Delivery
40 H	235.0	NE	T S E Ltd	79, Fortess Road, London, NW5 1AG		Textiles, Fabrics, Silk and Machinery	Industrial Products

## 3.2 Petrol and Fuel Sites

**Records of petrol or fuel sites within 500m of the study site:**

**1**

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance	Direction	NGR	Company	Address	LPG	Status
41	403.0	NW	528631, 185786	Unbranded	Parliament Hill Service Station, 138-140, Highgate Road, Highgate Road, Kentish Town, London, Greater London, NW5 1PB	No	Open

## 3.3 Underground High Pressure Oil and Gas Pipelines

**Records of high pressure underground pipelines within 500m of the study site:**

**0**

Database searched and no data found.

## 4. Geology

### 4.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

### 4.2 Superficial Ground and Drift Geology

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

### 4.3 Bedrock and Solid Geology

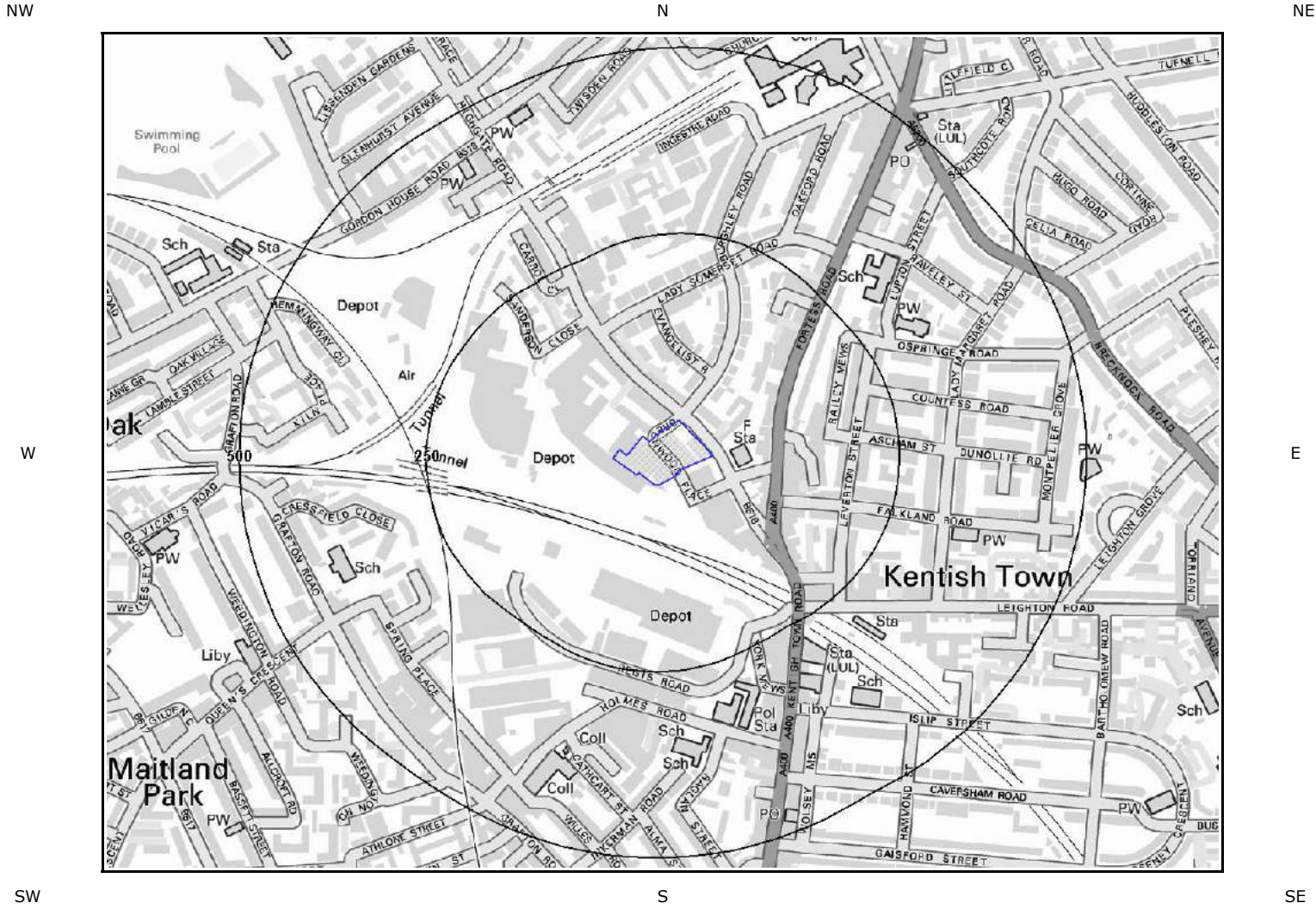
The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
LC-CLSS	LONDON CLAY FORMATION	CLAY, SILT AND SAND

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

For more detailed geological and ground stability data please refer to the "GroundSure GeoInsight". Available from our website.

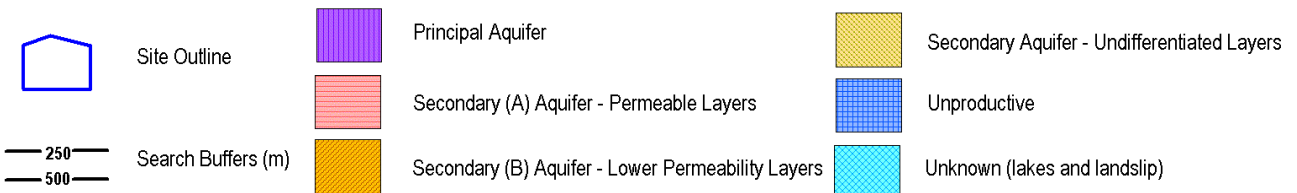
# 5a. Hydrogeology - Aquifer Within Superficial Geology



Aquifer Within Superficial Geology Legend



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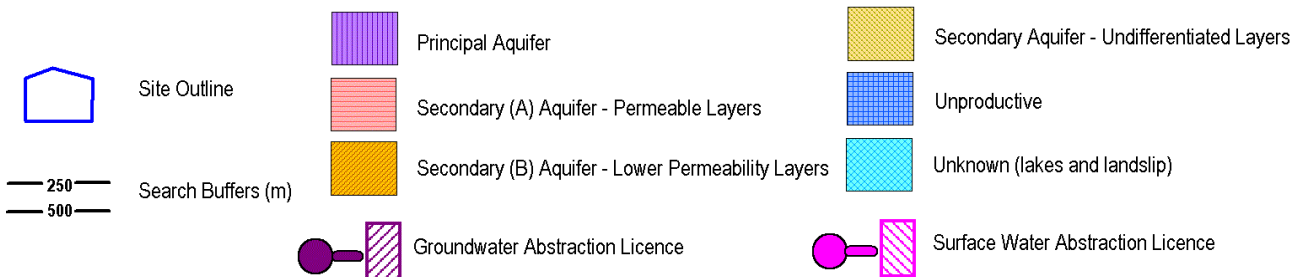
# 5b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses



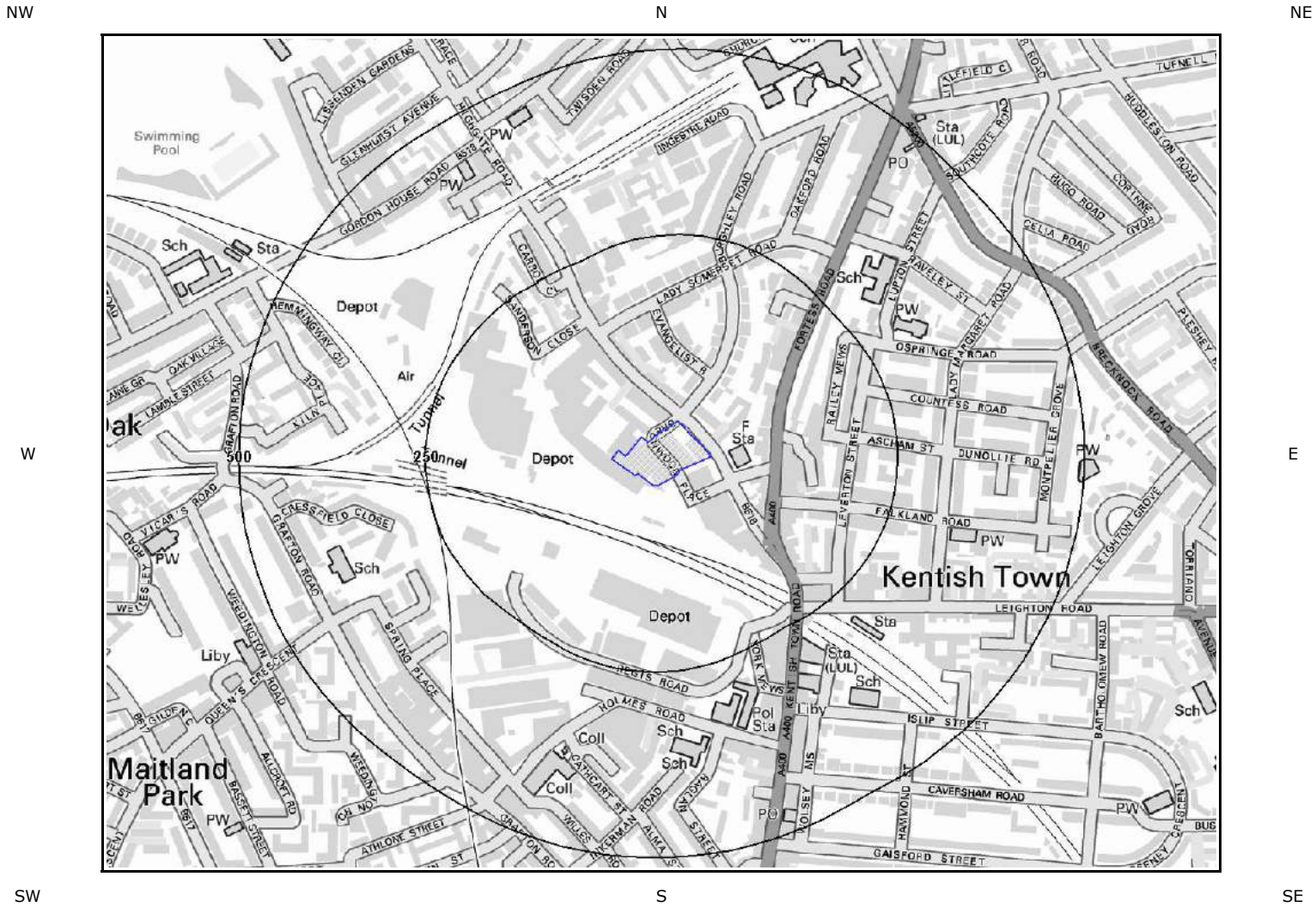
Aquifer Within Bedrock Geology Legend



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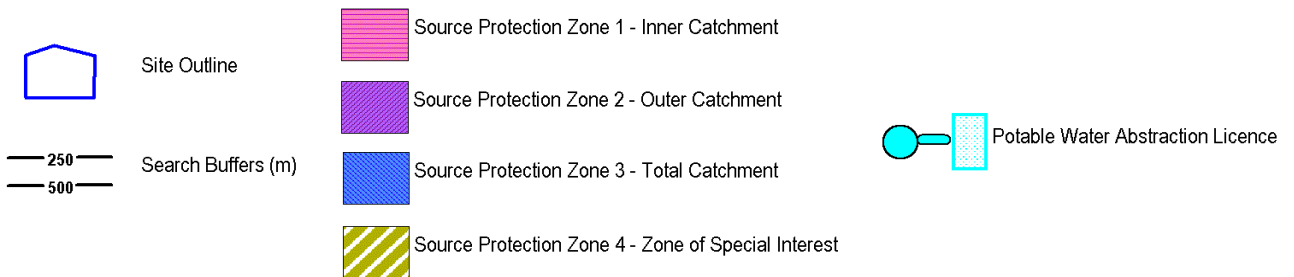
# 5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



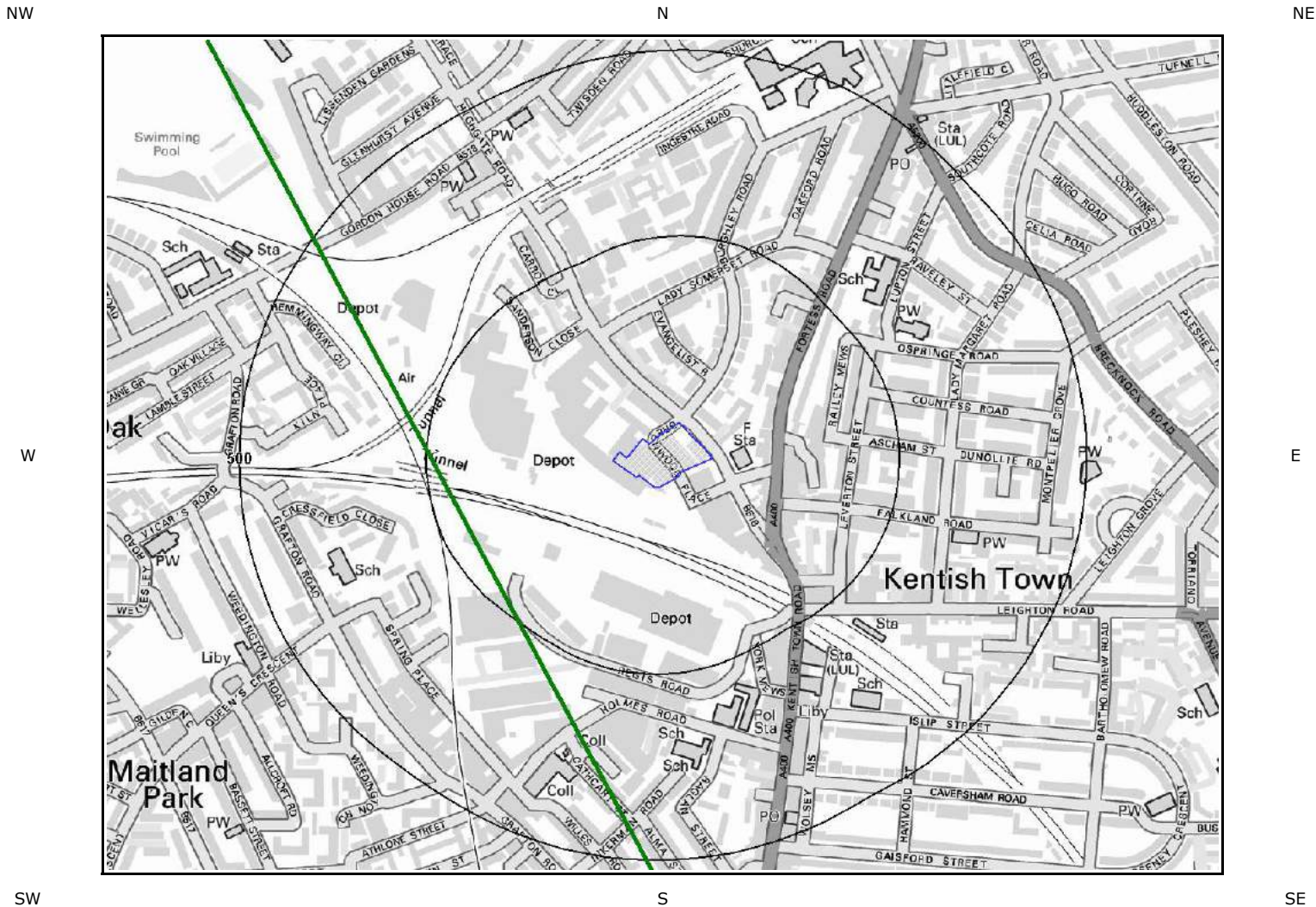
SPZ and Potable Water Abstraction Licenses Legend



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# 5d. Hydrology – Detailed River Network and River Quality



### Hydrology Legend

- |  |                                       |  |                                     |
|--|---------------------------------------|--|-------------------------------------|
|  | Primary River                         |  | Canal                               |
|  | Secondary River                       |  | Canal Tunnel                        |
|  | Tertiary River                        |  | Extended Culvert (greater than 50m) |
|  | Lake/Reservoir                        |  | D/S of High Water Mark              |
|  | Underground River (inferred)          |  | D/S seaward extension               |
|  | General Quality Assessment: Chemistry |  | General Quality Assessment: Biology |



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## 5. Hydrogeology and Hydrology

### 5.1 Aquifer within Superficial Deposits

**Are there records of productive strata within the superficial geology at or in proximity to the property? No**

Database searched and no data found.

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

### 5.2 Aquifer within Bedrock Deposits

**Are there records of productive strata within the bedrock geology at or in proximity to the property? Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance [m]	Direction	Designation	Description
1	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	355.0	S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

### 5.3 Groundwater Abstraction Licences

**Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes**

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details
Not shown	655.0	S	528800, 184700	Licence No: 28/39/39/0091 Details: Process Water Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point Annual Volume (m <sup>3</sup> ): 94506 Max Daily Volume (m <sup>3</sup> ): 1813.8 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:
Not shown	655.0	S	528800, 184700	Licence No: 28/39/39/0091 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point Annual Volume (m <sup>3</sup> ): 94506 Max Daily Volume (m <sup>3</sup> ): 1813.8 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:

Not shown	655.0	S	528800, 184700	Licence No: 28/39/39/0091 Details: Laundry Use Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Annual Volume (m <sup>3</sup> ): 94506 Max Daily Volume (m <sup>3</sup> ): 1813.8 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:
Not shown	1698.0	SE		Licence No: TH/039/0039/027 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant-borehole Data Type: Point	Annual Volume (m <sup>3</sup> ): 33400 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: NPS/WR/003260 Original Start Date: 21/4/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 21/4/2010 Version End Date:
Not shown	1698.0	SE		Licence No: 28/39/39/0222 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant-borehole Data Type: Point	Annual Volume (m <sup>3</sup> ): 55200 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: GEN/39/ Original Start Date: 31/8/2006 Expiry Date: 31/3/2010 Issue No: 1 Version Start Date: 31/8/2006 Version End Date:

## 5.4 Surface Water Abstraction Licences

**Are there any Surface Water Abstraction Licences within 2000m of the study site?**

**Yes**

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details	
Not shown	1373.0	S	528500, 184020	Licence No: 28/39/39/0164 Details: Non-Evaporative Cooling Direct Source: Thames Surface Water - Non Tidal Point: Southampton Bridge, London, Nw8 - Regents Canal Data Type: Point	Annual Volume (m <sup>3</sup> ): 7010000 Max Daily Volume (m <sup>3</sup> ): 19520 Application No: - Original Start Date: 18/7/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date:
Not shown	1375.0	S	528490, 184020	Licence No: 28/39/39/0173 Details: Non-Evaporative Cooling Direct Source: Thames Surface Water - Non Tidal Point: Oval Road, Camden - Grand Union Regents Canal Data Type: Point	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: 8/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 8/12/1994 Version End Date:
Not shown	1984.0	SE	529750, 183600	Licence No: 28/39/39/0172 Details: Make-Up or Top Up Water Direct Source: Thames Surface Water - Non Tidal Point: Camley Street Nature Park, London Data Type: Point	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:
Not shown	1984.0	SE	529750, 183600	Licence No: 28/39/39/0172 Details: Make-Up or Top Up Water Direct Source: Thames Surface Water - Non Tidal Point: Grand Union Canal At Camley Street Nature Park, London Data Type: Point	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: 18/9/1991 Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:

## 5.5 Potable Water Abstraction Licences



**Are there any Potable Water Abstraction Licences within 2000m of the study site?** **Yes**

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (5c):

ID	Distance	Direction	NGR	Details
Not shown	655.0	S	528800, 184700	Licence No: 28/39/39/0091 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point Annual Volume (m <sup>3</sup> ): 94506 Max Daily Volume (m <sup>3</sup> ): 1813.8 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:

## 5.6 Source Protection Zones

**Are there any Source Protection Zones within 500m of the study site?** **No**

Database searched and no data found.

## 5.7 River Quality

**Is there any Environment Agency information on river quality within 1500m of the study site?** **Yes**

### Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (5d):

ID	Distance [m]	Direction	NGR	River Details	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1296.0	S	529150, 184100	River Name: Grand Union Canal (paddington Arm) Reach: Canal Feeder - Camden Road End/Start of Stretch: End of Stretch NGR	F	F	F	F	E

### Chemical Quality:

Database searched and no data found.

## 5.8 Detailed River Network

**Are there any Detailed River Network entries within 500m of the study site?** **Yes**

The following Detailed River Network records are represented on the Hydrology Map (5d):

ID	Distance	Direction	Details
----	----------	-----------	---------

1	213.0	SW	River Name: Regent's Canal Water Course Name: - Welsh River Name: - Alternative Name: -	River Type: Extended Culvert (greater than 50m) Catchment: - Drain: NO Main River Status: Currently Undefined
---	-------	----	--	--

## 5.9 Surface Water Features

**Are there any surface water features within 250m of the study site? No**

Database searched and no data found.

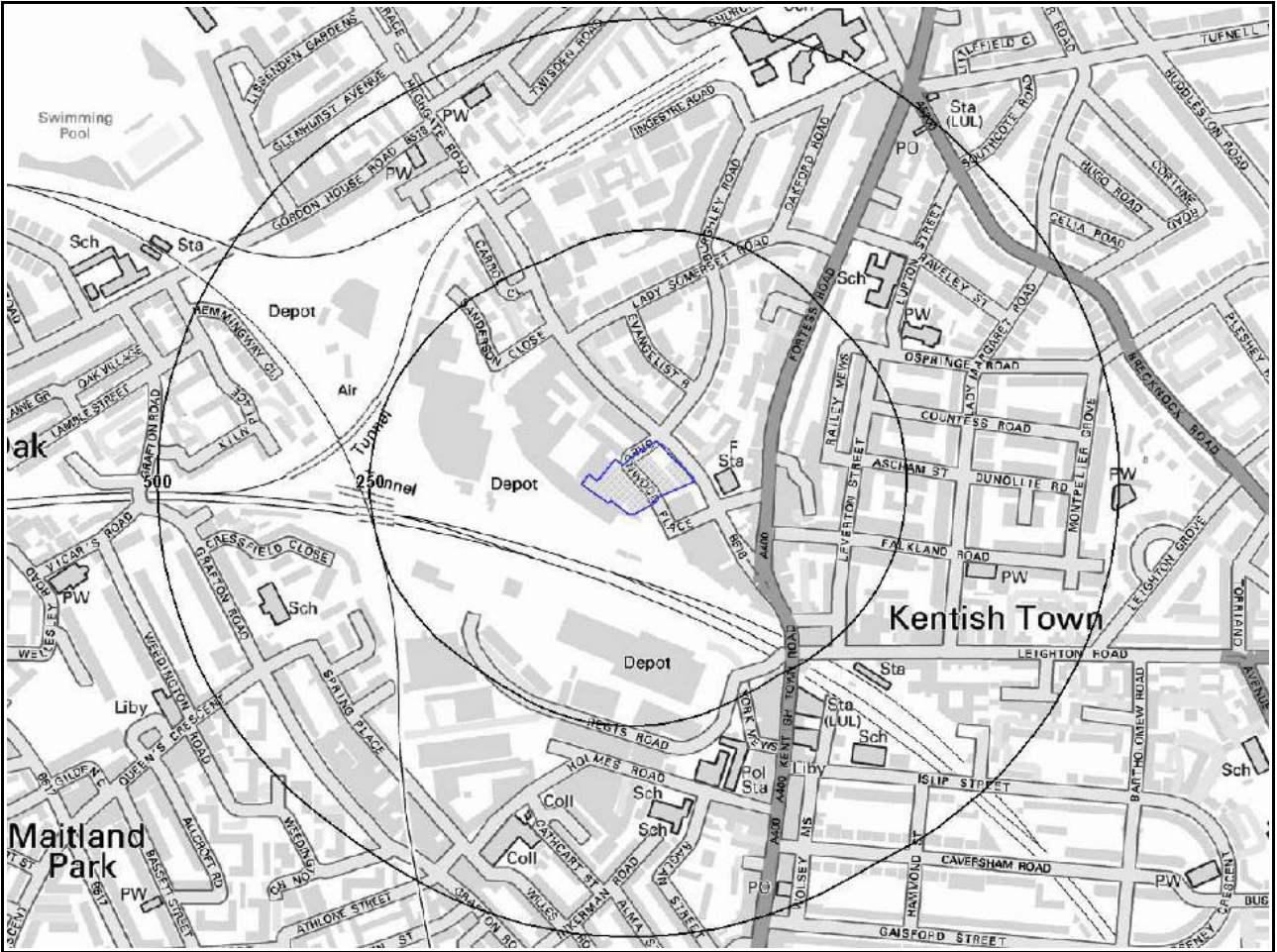
# 6. Environment Agency Flood Map

NW



NE

W



E

SW







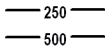


SE

Environment Agency Flood Legend



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-  Site Outline
-  Zone 2 Floodplain
-  Zone 3 Floodplain
-  Flood Storage Area
-  Area Benefiting from Flood Defences
-  Flood Defences
-  Search Buffers (m)

---

## 6. Flooding

### 6.1 Zone 2 Flooding

Zone 2 floodplain estimates the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and the sea but less than 1% from rivers or 0.5% from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 2 floodplain?** **No**

Database searched and no data found.

---

### 6.2 Zone 3 Flooding

Zone 3 estimates the annual probability of flooding as one in one hundred (1%) or greater from rivers and a one in two hundred (0.5%) or greater from the sea. Alternatively, where information is available they may show the highest known flood level.

**Is the site within 250m of an Environment Agency indicative Zone 3 floodplain?** **No**

Database searched and no data found.

---

### 6.3 Flood Defences

**Are there any Flood Defences within 250m of the study site?** **No**

---

### 6.4 Areas benefiting from Flood Defences

**Are there any areas benefiting from Flood Defences within 250m of the study site?** **No**

---

### 6.5 Areas used for Flood Storage

**Are there any areas used for Flood Storage within 250m of the study site?** **No**

---

### 6.6 Groundwater Flooding Susceptibility Areas

**Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?** **No**

---

**What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?** **Negligible**

---

---

## 6.7 Groundwater Flooding Confidence Areas

**What is the British Geological Survey confidence rating in this result?**

**Not Applicable**

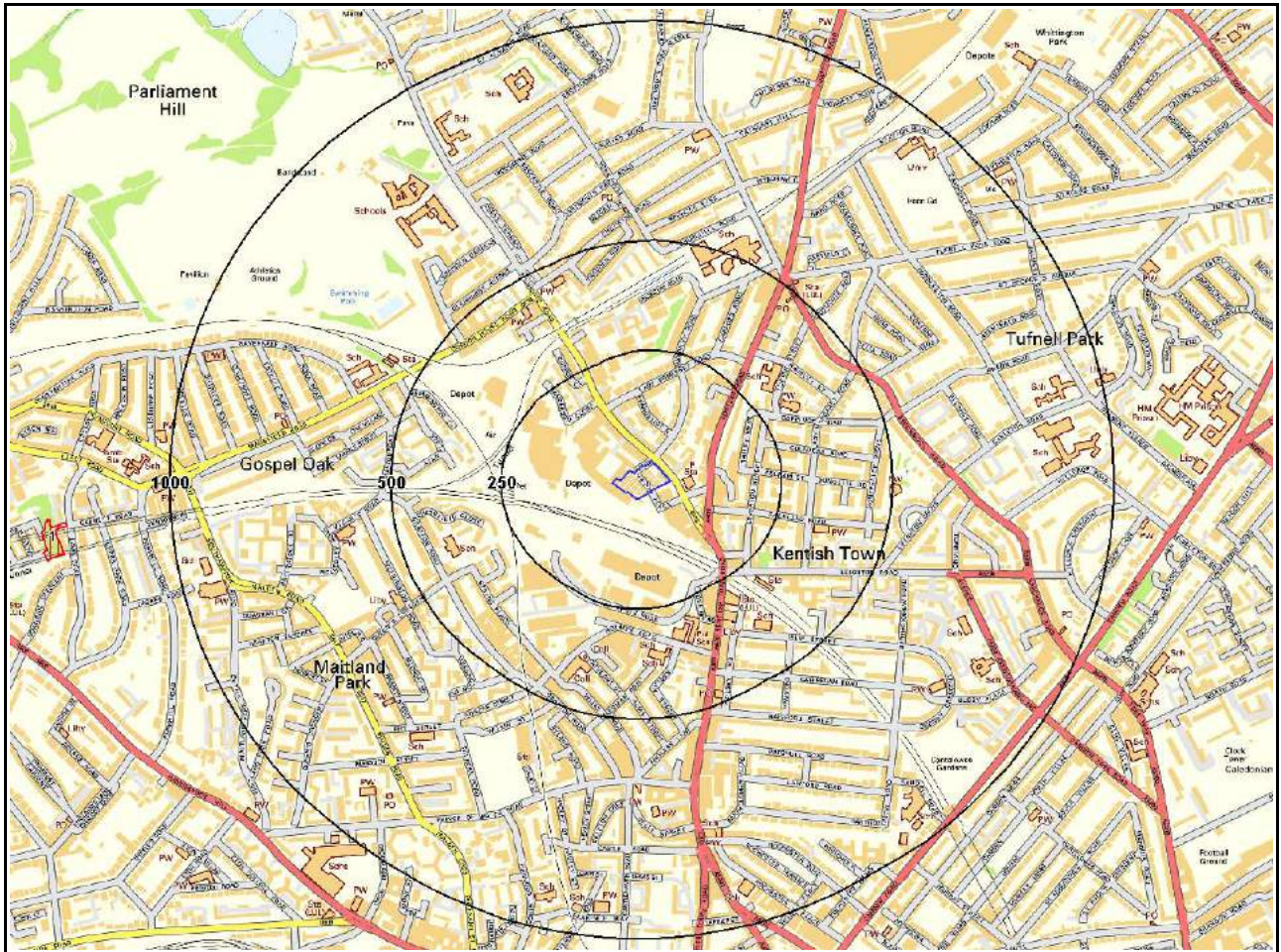
---

**Notes:**

Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The **confidence rating** is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

# 7. Designated Environmentally Sensitive Sites Map



Designated Environmentally Sensitive Sites Legend

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- |                                     |                          |                         |                |                                 |
|-------------------------------------|--------------------------|-------------------------|----------------|---------------------------------|
| Site Outline                        | SAC                      | SSSI                    | NNR            | World Heritage Sites            |
| Areas of Outstanding Natural Beauty | SPA                      | Ramsar                  | LNR            | Environmentally Sensitive Areas |
|                                     | Nitrate Vulnerable Zones | Nitrate Sensitive Areas | National Parks | Ancient Woodlands               |

## 7. Designated Environmentally Sensitive Sites

**Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? No**

**Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 0**

Database searched and no data found.

**Records of National Nature Reserves (NNR) within 2000m of the study site: 0**

Database searched and no data found.

**Records of Special Areas of Conservation (SAC) within 2000m of the study site: 0**

Database searched and no data found.

**Records of Special Protection Areas (SPA) within 2000m of the study site: 0**

Database searched and no data found.

**Records of Ramsar sites within 2000m of the study site: 0**

Database searched and no data found.

**Records of Local Nature Reserves (LNR) within 2000m of the study site: 1**

The following Local Nature Reserve (LNR) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance	Direction	LNR Name	Data Source
1	1235.0	W	Belsize Wood	Natural England

**Records of World Heritage Sites within 2000m of the study site: 0**

Database searched and no data found.

**Records of Environmentally Sensitive Areas within 2000m of the study site: 0**

Database searched and no data found.

**Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of National Parks (NP) within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Nitrate Sensitive Areas within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Nitrate Vulnerable Zones within 2000m of the study site: 0**

Database searched and no data found.

---

**Records of Ancient Woodland within 2000m of the study site: 0**

Database searched and no data found.



## 8. Natural Hazards Findings

### 8.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a GroundSure GeoInsight, available from our website. The following information has been found:

#### 8.1.1 Shrink Swell

**What is the maximum Shrink-Swell\* hazard rating identified on the study site? **Moderate****

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly high plasticity. Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a probable increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a probable increase in insurance risk during droughts or where vegetation with high moisture demands is present.

#### 8.1.2 Landslides

**What is the maximum Landslide\* hazard rating identified on the study site? **Low****

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

#### 8.1.3 Soluble Rocks

**What is the maximum Soluble Rocks\* hazard rating identified on the study site? **Null - Negligible****

Soluble rocks are not present in the search area. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

#### 8.1.4 Compressible Ground

**What is the maximum Compressible Ground\* hazard rating identified on the study site? **Negligible****

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

---

### 8.1.5 Collapsible Rocks

**What is the maximum Collapsible Rocks\* hazard rating identified on the study site?**

**Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

---

Hazard

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

---

### 8.1.6 Running Sand

**What is the maximum Running Sand\* hazard rating identified on the study site?**

**Very Low**

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

---

Hazard

Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

---

\* This indicates an automatically generated 50m buffer and site.

---

## 9. Mining

### 9.1 Coal Mining

**Are there any coal mining areas within 75m of the study site?**

**No**

Database searched and no data found.

---

### 9.2 Shallow Mining

**What is the subsidence hazard relating to shallow mining on-site\*?**

**Negligible**

\*Please note this data is searched with a 150m buffer.

---

### 9.3 Brine Affected Areas

**Are there any brine affected areas within 75m of the study site?**

**No**

Database searched and no data found.

---

## 10. Contacts

### EmapSite

Telephone: 0118 9736883  
sales@emapsite.com



### British Geological Survey (England & Wales)

Kingsley Dunham Centre  
Keyworth, Nottingham NG12 5GG  
Tel: 0115 936 3143. Fax: 0115 936 3276. Email:  
enquiries@bgs.ac.uk  
Web: www.bgs.ac.uk  
BGS Geological Hazards Reports and general geological  
enquiries



### Environment Agency

National Customer Contact Centre  
PO Box 544  
Rotherham  
S60 1BY  
Tel: 08708 506 506  
Web: www.environment-agency.gov.uk  
Email: enquiries@environment-agency.gov.uk



### Health Protection Agency

Chilton, Didcot, Oxon, OX11 0RQ  
Tel: 01235 822622 www.hpa.org.uk/radiation  
Radon measures and general radon information and  
guidance



### The Coal Authority

200 Lichfield Lane, Mansfield, Notts NG18 4RG  
Tel: 0845 762 6848  
DX 716176 Mansfield 5  
Web: [www.groundstability.com](http://www.groundstability.com)



### Ordnance Survey

Romsey Road  
Southampton SO16 4GU  
Tel: 08456 050505



### Local Authority

Authority: Camden London Borough Council  
Phone: 020 7278 4444  
Web: www.camden.gov.uk  
Address: Camden Town Hall, Judd Street, Camden, London,  
WC1H 9JE

### Get Mapping PLC

Virginia Villas, High Street, Hartley Witney, Hampshire RG27  
8NW  
Tel: 01252 845444



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This report has been prepared in accordance with the GroundSure Ltd standard Terms and Conditions of business for work of this nature.

## Standard Terms and Conditions

### 1 Definitions

In these conditions unless the context otherwise requires:

"**Beneficiary**" means the Client or the customer of the Client for whom the Client has procured the Services.

"**Commercial**" means any building which is not Residential.

"**Commission**" means an order for Consultancy Services submitted by a Client.

"**Consultancy Services**" mean consultancy services provided by GroundSure including, without limitation, carrying out interpretation of third party and in-house environmental data, provision of environmental consultancy advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

"**Contract**" means the contract between GroundSure and the Client for the performance of the Services which arises upon GroundSure's acceptance of an Order or Commission and which shall incorporate these conditions, the relevant GroundSure User Guide, proposal by GroundSure and the content of any subsequent report, and any agreed amendments in accordance with clause 11.

"**Client**" means the party that submits an Order or Commission.

"**Data Provider**" means any third party providing Third Party Content to GroundSure.

"**Data Report**" means reports comprising factual data with no professional interpretation in respect of the level of likely risk and/or liability available from GroundSure.

"**GroundSure**" means GroundSure Limited, a company registered in England and Wales under number 03421028 and whose registered office is at Greater London House, Hampstead Road, London NW1 7EJ.

"**GroundSure Materials**" means all materials prepared by GroundSure as a result of the provision of the Services, including but not limited to Data Reports, Mapping and Risk Screening Reports.

"**Intellectual Property**" means any patent, copyright, design rights, service marks, moral rights, data protection rights, know-how, trade mark or any other intellectual property rights.

"**Mapping**" an historical map or a combination of historical maps of various ages, time periods and scales available from GroundSure.

"**Order**" means an order form submitted by the Client requiring Services from GroundSure in respect of a specified Site.

"**Order Website**" means online platform via which Orders may be placed.

"**Report**" means a Risk Screening Report or Data Report for commercial or residential property available from GroundSure relating to the Site prepared in accordance with the specifications set out in the relevant User Guide.

"**Residential**" means any building used as or suitable for use as an individual dwelling.

"**Risk Screening Report**" means one of GroundSure's risk screening reports, comprising factual data with interpretation in respect of the level of likely risk and/or liability, excluding "**Consultancy Services**".

"**Services**" means the provision of any Report, Mapping or Consultancy Services which GroundSure has agreed to carry out for the Client/Beneficiary on these terms and conditions in respect of the Site.

"**Site**" means the landsite in respect of which GroundSure provides the Services.

"**Third Party Content**" means any data, database or other information contained in a Report or Mapping which is provided to GroundSure by a Data Provider.

"**User Guide**" means the relevant current version of the user guide, available upon request from GroundSure.

### 2 Scope of Services

2.1 GroundSure agrees to carry out the Services in accordance with the Contract and to the extent set out therein.

2.2 GroundSure shall exercise all the reasonable skill, care and diligence to be expected of experienced environmental consultants in the performance of the Services.

2.3 The Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in the Contract.

2.4 Terms and conditions appearing on a Client's order form, printed stationery or other communication, including invoices, to GroundSure, its employees, servants, agents or other representatives or any terms implied by custom, practice or course of dealing shall be of no effect and these terms and conditions shall prevail over all others.

2.5 If a Client/Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to procure such insurance, but makes no warranty that such insurance shall be available from insurers or offered on reasonable terms. GroundSure does not endorse or recommend any particular insurance product, policy or insurer. Any insurance purchased shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. The Client/Beneficiary should take independent advice to ensure that the insurance policy requested and/or offered is suitable for its requirements.

2.6 GroundSure's quotations/proposals are valid for a period of 30 days only. GroundSure reserves the right to withdraw any quotation at any time before GroundSure accepts an Order or Commission. GroundSure's acceptance of an Order or Commission shall be effective only where such acceptance is in writing and signed by GroundSure's authorised representative or where accepted via GroundSure's Order Website.

### 3 The Client's obligations

3.1 The Client shall ensure the Beneficiary complies with and is bound by the terms and conditions set out in the Contract and shall provide that GroundSure may in its own right enforce such terms and conditions against the Beneficiary pursuant to the Contracts (Rights of Third Parties) Act 1999. The Client shall be liable for all breaches of the Contract by the Beneficiary as if they were breaches by the Client. The Client shall be solely responsible for ensuring that the Report/Mapping ordered is appropriate and suitable for the Beneficiary's needs.

3.2 The Client shall (or shall procure that the Beneficiary shall) supply to GroundSure as soon as practicable and without charge all information necessary and accurate relevant data including any specific and/or unusual environmental information relating to the Site known to the Client/Beneficiary which may pertain to the Services and shall give such assistance as GroundSure shall reasonably require in the performance of the Services (including, without limitation, access to a Site, facilities and equipment as agreed in the Contract).

3.3 Where Client/Beneficiary approval or decision is required, such approval or decision shall be given or procured in reasonable time as not to delay or disrupt the performance of any other part of the Services.

3.4 The Client shall not and shall not knowingly permit the Beneficiary to, save as expressly permitted by these terms and conditions, re-sell, alter, add to, amend or use out of context the content of any Report, Mapping or, in respect of any Services, information given by GroundSure. For the avoidance of doubt, the Client and Beneficiary may make the Report, Mapping or GroundSure's findings available to a third party who is considering acquiring the whole or part of the Site, or providing funding in relation to the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.5 The Client is responsible for maintaining the confidentiality of its user name and password if using GroundSure's internet ordering service and accepts responsibility for all activity that occurs under such account and password.

### 4 Reliance

4.1 Upon full payment of all relevant fees and subject to the provisions of these terms and conditions, the Client and Beneficiary are granted an irrevocable royalty-free licence to access the information contained in a Report, Mapping or in a report prepared by GroundSure in respect of or arising out of Consultancy Services. The Services may only be used for the benefit of the Client and those persons listed in clauses 4.2 and 4.3.

4.2 In relation to Data Reports, Mapping and Risk Screening Reports, the Client shall be entitled to make Reports available to (i) the Beneficiary, (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate), (iv) the first purchaser or first tenant of the Site (v) the professional advisers and lenders of the first purchaser or tenant of the Site. Accordingly GroundSure shall have the same duties and obligations to those persons in respect of the Services as it has to the Client and those persons shall have the benefit of any of the Client's rights under the Contract as if those persons were parties to the Contract. For the avoidance of doubt, the limitations of GroundSure's liability as set out in clauses 7 and 11.6 shall apply.

4.3 In relation to Consultancy Services, reliance shall be limited to the Client, Beneficiary and named parties on the Report.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise agreed in writing with GroundSure, any other party considering the information supplied by GroundSure as part of the Services, including (but not limited to) insurance underwriters, does so at their own risk and GroundSure has no legal obligations to such party unless otherwise agreed in writing.

4.5 The Client shall not and shall not knowingly permit any person (including the Beneficiary) who is provided with a copy of any Report, (except as permitted herein or by separate agreement with GroundSure) to: (a) remove, suppress or modify any trade mark, copyright or other proprietary marking from the Report or Mapping; (b) create any product which is derived directly or indirectly from the data contained in the Report or Mapping; (c) combine the Report or Mapping with, or incorporate the Report or Mapping into any other information data or service; or (d) re-format or otherwise change (whether by modification, addition or enhancement) data or images contained in the Report or Mapping.

4.6 Notwithstanding clause 4.5, if the Client acts in a professional capacity, it may make reasonable use of a Report and/or findings made as a result of Consultancy Services to advise Beneficiaries. However, GroundSure shall have no liability in respect of any opinion or report given to such Beneficiaries by the Client or a third party.

### 5 Fees and Disbursements

5.1 GroundSure shall charge the Client fees at the rate and frequency specified in the Contract together, in the case of Consultancy Services, with all proper disbursements incurred by GroundSure in performing the Services. For the avoidance of doubt, the fees payable for the Services are as set out in GroundSure's written proposal, Order Website or Order acknowledgement form. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services.

5.2 Unless GroundSure requires prepayment, the Client shall promptly pay all fees disbursements and other monies due to GroundSure in full without deduction, counterclaim or set off together with such value added tax or other tax as may be required within 30 days from the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("**Payment Date**"). GroundSure reserves the right to charge interest which shall accrue on a daily basis from 30 days after the date of Payment Date until the date of payment (whether before or after judgment) at the rate of five per cent per annum above the Bank of England base rate from time to time.

5.3 In the event that the Client disputes the amount payable in respect of GroundSure's invoice it shall notify GroundSure no later than 28 days after the date thereof that it is in dispute. In default of such notification the Client shall be deemed to have agreed the amount thereof. As soon as reasonably practicable following receipt of a notification in respect of any disputed invoice, a member of the management team at GroundSure shall contact the Client and the parties shall use all reasonable endeavours to resolve the dispute.

### 6 Intellectual Property and Confidentiality

6.1 Subject to the provisions of clause 4.1, the Client and the Beneficiary hereby acknowledge that all Intellectual Property in the Services and Content are and shall remain owned by either GroundSure or the Data Providers and nothing in these terms purports to transfer or assign any rights to the Client or the Beneficiary in respect of the Intellectual Property.

6.2 The Client shall acknowledge the ownership of the **Third Party Content** where such **Third Party Content** is incorporated or used in the Client's own documents, reports, systems or services whether or not these are supplied to a third party.

6.3 Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client acknowledges that the proprietary rights subsisting in copyright, database rights and any other intellectual property rights in respect of any data and information contained in any Report are and shall remain (subject to clause 11.1) the property of GroundSure and/or any third party that has supplied data or information used to create a Report, and that these conditions do not purport to grant, assign or transfer any such rights in respect thereof to a Client and/or a Beneficiary.

6.5 The Client shall (and shall procure that any recipients of the Report as permitted under clause 4.2 shall):

(i) not remove, suppress or modify any trademark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

Report Reference: EMS-184935\_271161

- (iii) not create any product or report which is derived directly or indirectly from the data contained in the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
  - (iv) not combine the Services with or incorporate such Services into any other information data or service; and
  - (v) not reformat or otherwise change (whether by modification, addition or enhancement), data contained in the Services (save that those acting in a professional capacity to the Beneficiary shall not be in breach of this clause 6.5(v) where such reformatting is in the normal course of providing advice based upon the Services), in each case of parts (iii) to (v) inclusive, whether or not such product or report is produced for commercial profit or not.
- 6.6 The Client and/or Beneficiary shall and shall procure that any party to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.
- 6.8 Save as otherwise set out in these terms and conditions, any information provided by one party ("**Disclosing Party**") to the other party ("**Receiving Party**") shall be treated as confidential and only used for the purposes of these terms and conditions, except in so far as the Receiving Party is authorised by the Disclosing Party to provide such information in whole or in part to a third party.

## 7 Liability

### THE CLIENT'S ATTENTION IS DRAWN TO THIS PROVISION

- 7.1 Subject to the provisions of this clause 7, GroundSure shall be liable to the Beneficiary only in relation to any direct losses or damages caused by any negligent act or omission of GroundSure in preparing the GroundSure Materials and provided that the Beneficiary has used all reasonable endeavours to mitigate any such losses.
- 7.2 GroundSure shall not be liable for any other losses or damages incurred by the Beneficiary, including but not limited to:
- (i) loss of profit, revenue, business or goodwill, losses relating to business interruption, loss of anticipated savings, loss of or corruption to data or for any special, indirect or consequential loss or damage which arise out of or in connection with the GroundSure Materials or otherwise in relation to a Contract;
  - (ii) any losses or damages that arise as a result of the use of all or part of the GroundSure Materials in breach of these terms and conditions or contrary to the terms of the relevant User Guide;
  - (iii) any losses or damages that arise as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such part is based on any Third Party Content or any reasonable interpretation of Third Party Content. The Client accepts, and shall procure that any other Beneficiary shall accept, that it has no claim or recourse to any Data Provider in relation to Third Party Content; and/or
  - (iv) any loss or damage to a Client's computer, software, modem, telephone or other property caused by a delay or loss of use of GroundSure's internet ordering service.
- 7.3 GroundSure's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the GroundSure Materials or otherwise in relation to the Contract shall be limited to £10 million in total (i) for any one claim or (ii) for a series of connected claims brought by one or more parties.
- 7.4 For the duration of the liability periods set out in clauses 7.5 and 7.6 below, GroundSure shall maintain professional indemnity insurance in respect of its liability under these terms and conditions provided such insurance is readily available at commercially viable rates. GroundSure shall produce evidence of such insurance if reasonably requested by the Client. A level of cover greater than GroundSure's current level of cover may be available upon request and agreement with the Client.
- 7.5 Any claim under the Contract in relation to Data Reports, Mapping and Risk Screening Reports, must be brought within six years from the date when the Beneficiary became aware that it may have a claim and in no event may a claim be brought twelve years or more after completion of such a Contract. For the avoidance of doubt, any claim in respect of which proceedings are notified to GroundSure in writing prior to the expiry of the time periods referred to in this clause 7.5 shall survive the expiry of those time periods provided the claim is actually commenced within six months of notification.
- 7.6 Any claim under the Contract in relation to Consultancy Services, must be brought within six years from the date the Consultancy Services were completed.
- 7.7 The Client accepts and shall procure that any other Beneficiary shall accept that it has no claim or recourse to any Data Provider or to GroundSure in respect of the acts or omissions of any Data Provider and/or any Third Party Content provided by a Data Provider.
- 7.8 Nothing in these terms and conditions:
- (i) excludes or limits the liability of GroundSure for death or personal injury caused by GroundSure's negligence, or for fraudulent misrepresentation; or
  - (ii) shall affect the statutory rights of a consumer under the applicable legislation.

## 8 GroundSure right to suspend or terminate

- 8.1 In the event that GroundSure reasonably believes that the Client or Beneficiary as applicable has not provided the information or assistance required to enable the proper performance of the Services, GroundSure shall be entitled on fourteen days written notice to suspend all further performance of the Services until such time as any such deficiency has been made good.
- 8.2 GroundSure may additionally terminate the Contract immediately on written notice in the event that:
- (i) the Client shall fail to pay any sum due to GroundSure within 28 days of the Payment Date; or
  - (ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an Administration Order made against it or if a Receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or
  - (iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or
  - (iv) the Client or the Beneficiary breaches any material term of the Contract (including, but not limited to, the obligations in clause 4) incapable of remedy or if remediable, is not remedied within 14 days of notice of the breach.

## 9 Client's Right to Terminate and Suspend

- 9.1 Subject to clause 10.2, the Client may at any time after commencement of the Services by notice in writing to GroundSure require GroundSure to terminate or suspend immediately performance of all or any of the Services.
- 9.2 The Client waives all and any right of cancellation it may have under the Consumer Protection (Distance Selling) Regulations 2000 (as amended) in respect of the Order of a Report/Mapping. This does not affect the Beneficiary's statutory rights.

## 10 Consequences of Withdrawal, Termination or Suspension

- 10.1 Upon termination or any suspension of the Services, GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client/Beneficiary any property of the Client/ Beneficiary in GroundSure's possession or control.
- 10.2 In the event of termination/suspension of the Contract under clauses 8 or 9, the Client shall pay to GroundSure all and any fees payable in respect of the performance of the Services up to the date of termination/suspension. In respect of any Consultancy Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination/suspension of the Contract.

## 11 General

- 11.1 The mapping contained in the Services is protected by Crown copyright and must not be used for any purpose outside the context of the Services or as specifically provided in these terms.
- 11.2 GroundSure reserves the right to amend these terms and conditions. No variation to these terms shall be valid unless signed by an authorised representative of GroundSure.
- 11.3 No failure on the part of GroundSure to exercise and no delay in exercising, any right, power or provision under these terms and conditions shall operate as a waiver thereof.
- 11.4 Save as expressly provided in clauses 4.2, 4.3, 6.3 and 11.5, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.
- 11.5 The Secretary of State for Communities and Local Government acting through Ordnance Survey may enforce breach of clause 6.1 of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.
- 11.6 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:
- (i) the Client or Beneficiary's failure to provide facilities, access or information;
  - (ii) fire, storm, flood, tempest or epidemic;
  - (iii) Acts of God or the public enemy;
  - (iv) riot, civil commotion or war;
  - (v) strikes, labour disputes or industrial action;
  - (vi) acts or regulations of any governmental or other agency;
  - (vii) suspension or delay of services at public registries by Data Providers; or
  - (viii) changes in law.
- 11.7 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.
- 11.8 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email and on the second working day after the day of posting if sent by first class post.
- 11.9 The Contract constitutes the entire contract between the parties and shall supersede all previous arrangements between the parties.
- 11.10 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.
- 11.11 These terms and conditions shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with these terms and conditions shall be subject to the exclusive jurisdiction of the English courts.
- 11.12 If the Client or Beneficiary has a complaint about the Services, notice can be given in any format eg writing, phone, email to the Compliance Officer at GroundSure who will respond in a timely manner.

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EmapSite  
Masdar House,  
Eversley, RG27 0RP

Report Reference:	EMS- 184935_271160
Your Reference:	EMS_184935_271 160
Report Date	Nov 8, 2012
Report Delivery Method:	Email - pdf

## **GroundSure GeoInsight**

**Address: Greenwood Place Community Centre**

Dear Sir/Madam,

Thank you for placing your order with GroundSure. Please find enclosed the **GroundSure GeoInsight** as requested.

If you would like further assistance regarding this report then please contact the emapsite customer services team on 0118 9736883 quoting the above report reference number.

Yours faithfully,

emapsite customer services team

Enc.  
GroundSure GeoInsight

# GroundSure GeoInsight

Address: Greenwood Place Community Centre

Date: Nov 8, 2012

Report Reference: EMS-184935\_271160

Your Reference: EMS\_184935\_271160



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## Aerial Photograph of Study Site



Site Name: Greenwood Place Community Centre  
Grid Reference: 528833,185396  
Size of Site: 0.57 ha

Aerial photography supplied by Getmapping PLC.  
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# Overview of Findings

The GroundSure GeoInsight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and GroundSure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary
<b>1. Geology</b>	Description
<b>1.1 Artificial Ground,</b>	
1.1.1 Is there any Artificial Ground /Made Ground present beneath the study site?*	Yes
1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary?	No
<b>1.2 Superficial Geology &amp; Landslips</b>	
1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	No
1.2.2 Are there any records relating to permeability of superficial geology within the study site* boundary?	No
1.2.3 Are there any records of landslip within 500m of the study site boundary?	No
1.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No
<b>1.3 Bedrock, Solid Geology &amp; Faults</b>	
1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
1.3.2 Are there any records relating to permeability of bedrock within the study site* boundary?	Yes
1.3.3 Are there any records of faults within 500m of the study site boundary?	No
1.3.4 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level
1.3.5 Is the property in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary

\* This includes an automatically generated 50m buffer zone around the site

Source:Scale 1:50,000 BGS Sheet No:256

2. Ground Workings	on-site	0-50	51-250	251-500	501-1000
2.1 Historical Surface Ground Working Features from Small Scale Mapping	0	2	8	-	-
2.2 Historical Underground Workings Features from Small Scale Mapping	0	0	8	13	16
2.3 Current Ground Workings	0	0	0	0	0

3. Mining, Extraction & Natural Cavities	on-site	0-50	51-250	251-500	501-1000
3.1 Historical Mining	0	0	0	3	0
3.2 Coal Mining	0	0	0	0	0
3.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
3.4 Non-Coal Mining*	0	0	0	0	0
3.5 Non-Coal Mining Cavities	0	0	0	0	0
3.6 Natural Cavities	0	0	0	0	0
3.7 Brine Extraction	0	0	0	0	0
3.8 Gypsum Extraction	0	0	0	0	0
3.9 Tin Mining	0	0	0	0	0
3.10 Clay Mining	0	0	0	0	0

\*This includes an automatically generated 50m buffer zone around the site

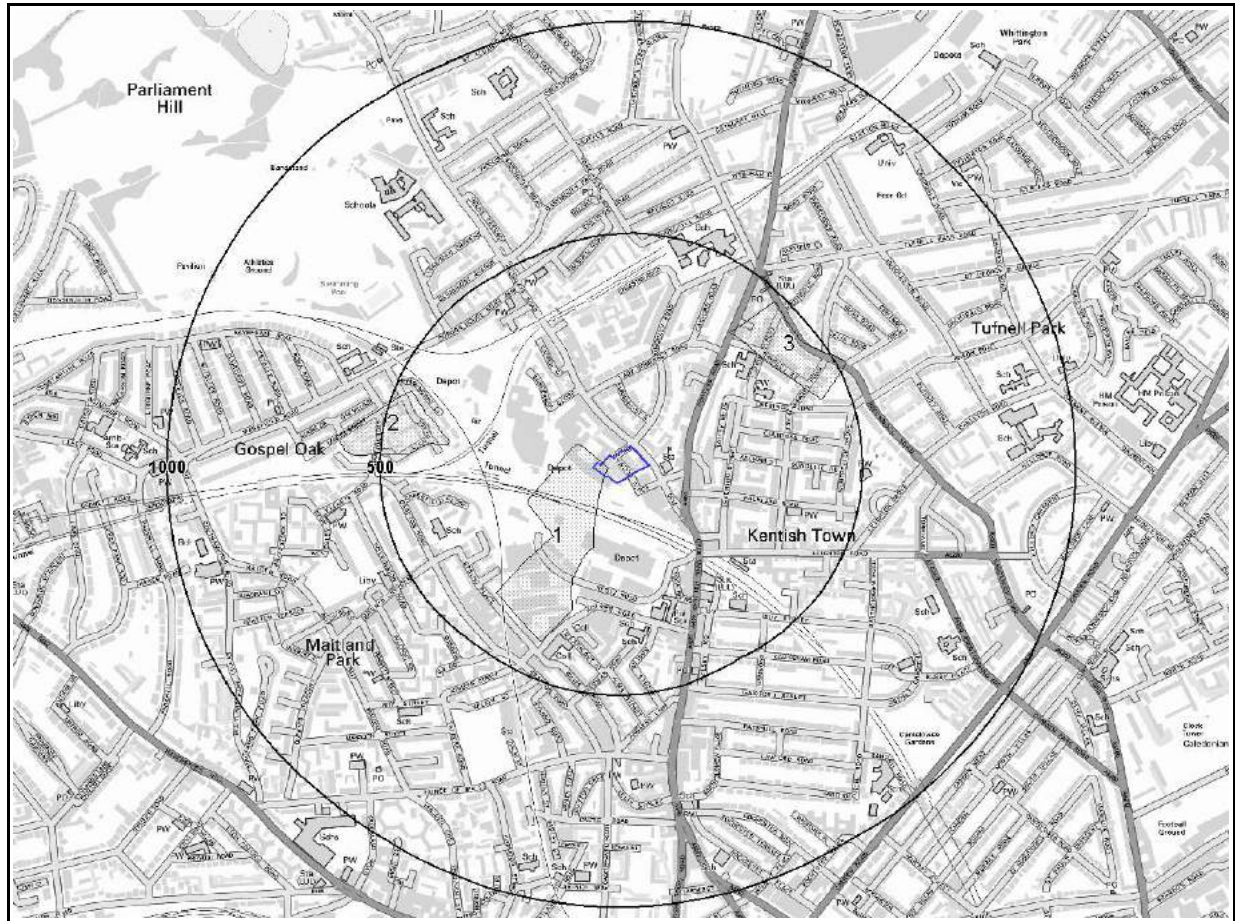
4. Natural Ground Subsidence	on-site*	0-50	51-250	251-500	501-1000
4.1 Shrink-Swell Clay	Moderate	-	-	-	-
4.2 Landslides	Low	-	-	-	-
4.3 Ground Dissolution of Soluble Rocks	Null	-	-	-	-
4.4 Compressible Deposits	Negligible	-	-	-	-
4.5 Collapsible Deposits	Very Low	-	-	-	-
4.6 Running Sand	Very Low	-	-	-	-

\* This includes an automatically generated 50m buffer zone around the site

5. Borehole Records	on-site	0-50	51-250	251-500	501-1000
5.1 BGS Recorded Boreholes	0	0	2	-	-

6. Estimated Background Soil Chemistry	on-site	0-50	51-250	251-500	501-1000
6.1 Records of Background Soil Chemistry	1	0	0	-	-

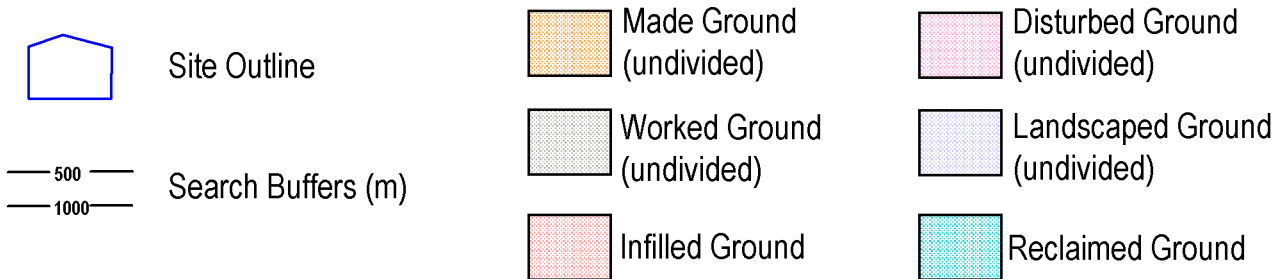
# 1.1 Artificial Ground Map



Artificial Ground Legend



Crown Copyright. All Rights Reserved  
Licence Number: 100035207



Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

# 1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

## 1.1.1 Artificial/Made Ground

**Are there any records of Artificial/Made Ground within 500m of the study site boundary? Yes**

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
2	345.0	W	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID
3	354.0	NE	WGR-OPEN	WORKED GROUND (UNDIVIDED)	VOID

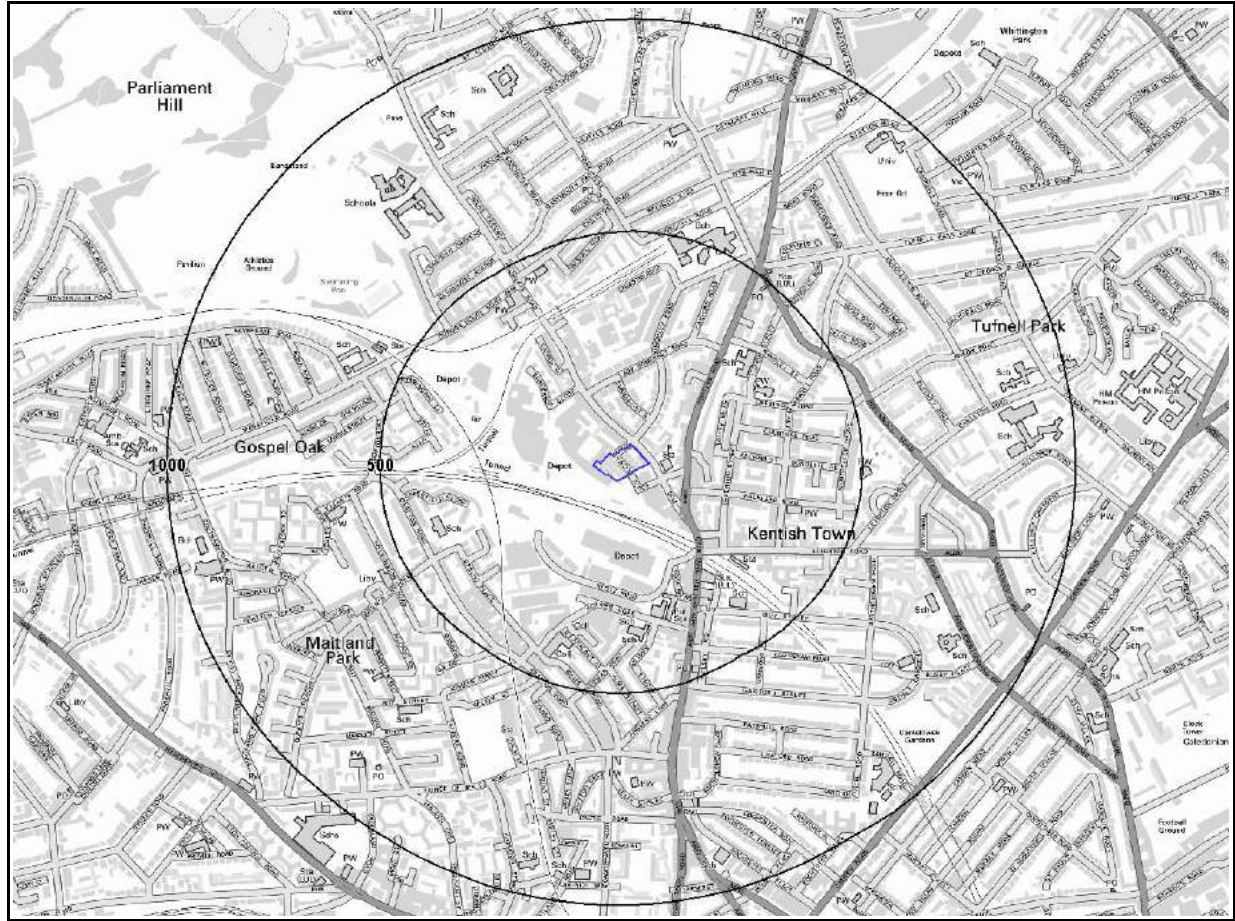
## 1.1.2 Permeability of Artificial Ground

**Are there any records relating to permeability of artificial ground within the study site\* boundary? No**

Database searched and no data found.

\* This includes an automatically generated 50m buffer zone around the site.

# 1.2 Superficial Deposits and Landslips Map



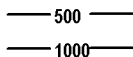
Superficial and Landslips Legend



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Licence Number: 100035207



Site Outline



Search Buffers (m)

Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

---

## 1.2 Superficial Deposits and Landslips

### 1.2.1 Superficial Deposits/Drift Geology

**Are there any records of Superficial Deposits/Drift Geology within 500m of the study site boundary? No**

Database searched and no data found.

---

### 1.2.2 Permeability of Superficial Ground

**Are there any records relating to permeability of superficial ground within the study site\* boundary? No**

Database searched and no data found.

---

### 1.2.3 Landslip

**Are there any records of Landslip within 500m of the study site boundary? No**

Database searched and no data found.

---

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

---

### 1.2.4 Landslip Permeability

**Are there any records relating to permeability of landslips within the study site\* boundary? No**

Database searched and no data found.

---

\*This includes an automatically generated 50m buffer zone around the site.

# 1.3 Bedrock and Faults Map



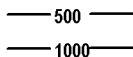
Bedrock & Faults Deposits Legend



Crown Copyright. All Rights Reserved  
Licence Number: 100035207



Site Outline



Search Buffers (m)

Geological information represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.



## 1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:256

### 1.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance (m)	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	LC-CLSS	London Clay Formation - Clay, Silt And Sand	Eocene

### 1.3.2 Permeability of Bedrock Ground

**Are there any records relating to permeability of bedrock ground within the study site\* boundary? Yes**

Distance (m)	Direction	Flow type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Moderate	Very Low

### 1.3.3 Faults

**Are there any records of Faults within 500m of the study site boundary? No**

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

### 1.3.4 Radon Affected Areas

**Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?**

**The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level**

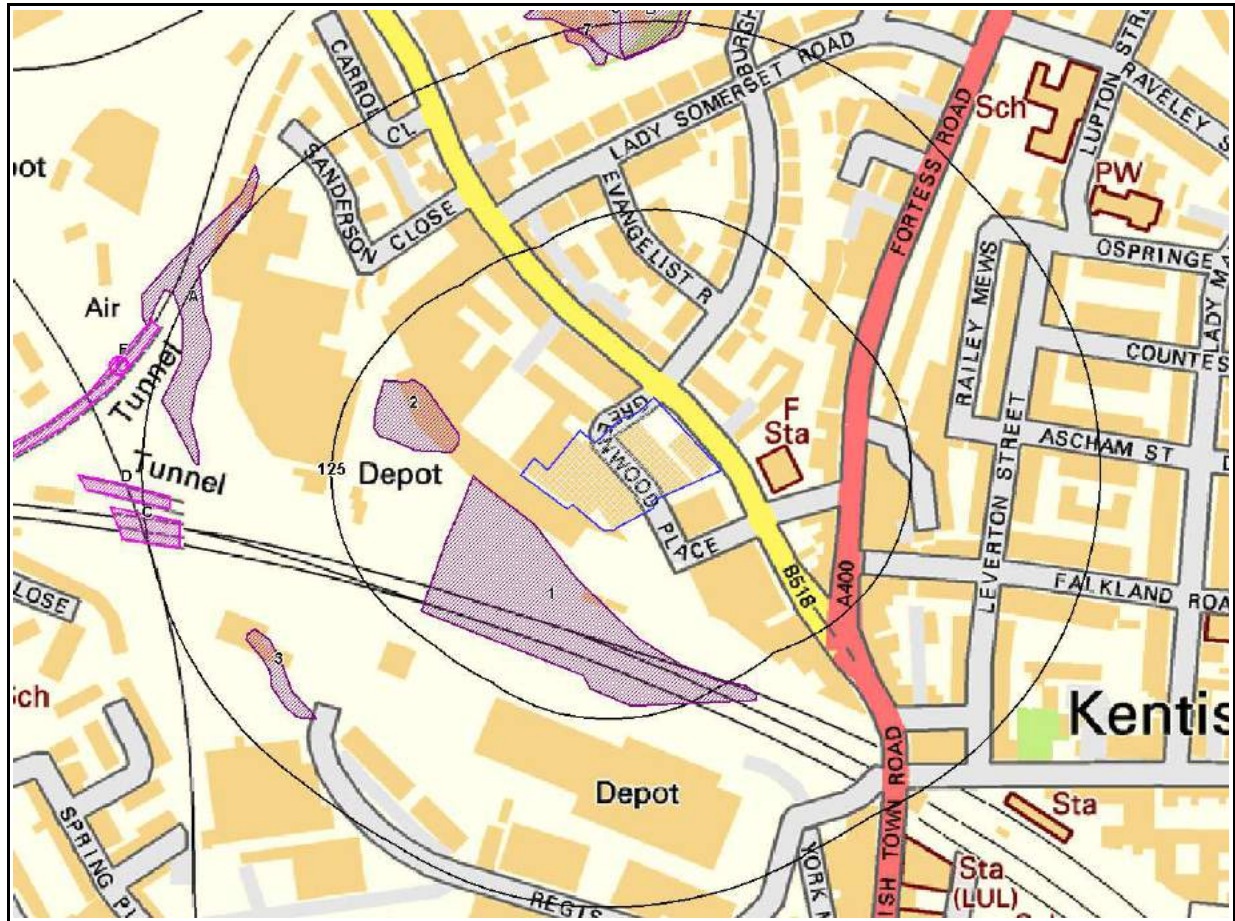
### 1.3.5 Radon Protection

**Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?**

**No radon protective measures are necessary**

\* This includes an automatically generated 50m buffer zone around the site.





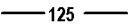

## 2. Ground Workings Map



Ground Workings Legend



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Licence Number: 100035207

-  Site Outline
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground Workings
-  125 Search Buffers (m)
-  250 Search Buffers (m)

## 2. Ground Workings

### 2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on GroundSure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

**Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes**

The following Historical Surface Ground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
1	21.0	SW	528809,185315	Cuttings	1869
2	46.0	NW	528695,185431	Unspecified Heap	1894
3	199.0	SW	528606,185260	Unspecified Ground Workings	1913
4A	213.0	W	528552,185498	Unspecified Ground Workings	1869
5A	213.0	W	528552,185498	Unspecified Ground Workings	1879
6A	213.0	W	528552,185498	Unspecified Ground Workings	1879
7	224.0	N	528807,185675	Unspecified Ground Workings	1913
8	225.0	N	528850,185755	Unspecified Heap	1938
9B	227.0	N	528878,185753	Unspecified Heap	1965
10 B	227.0	N	528878,185753	Unspecified Heap	1958

### 2.2 Historical Underground Workings Features derived from Historical Mapping

This data is derived from the GroundSure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

**Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes**

The following Historical Underground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
11C	227.0	W	528516,185357	Tunnel	1995
12C	227.0	W	528516,185357	Tunnel	1958
13C	227.0	W	528516,185357	Tunnel	1974
14C	227.0	W	528516,185357	Tunnel	1965
15D	232.0	W	528502,185380	Tunnel	1995
16D	232.0	W	528502,185380	Tunnel	1958
17D	232.0	W	528502,185380	Tunnel	1974
18D	232.0	W	528502,185380	Tunnel	1965
19E	258.0	W	528484,185446	Tunnel	1995
20E	258.0	W	528484,185446	Tunnel	1958
21E	258.0	W	528484,185446	Tunnel	1974
22E	258.0	W	528484,185446	Tunnel	1965
23F	269.0	W	528501,185465	Unspecified Shaft	1995
24F	269.0	W	528501,185465	Unspecified Shaft	1974
25F	270.0	W	528498,185464	Unspecified Shaft	1965
Not shown	345.0	NW	528691,185756	Tunnel	1958
Not shown	345.0	NW	528691,185756	Tunnel	1974
Not shown	345.0	NW	528691,185756	Tunnel	1965

Not shown	353.0	N	528750,185788	Tunnel	1958
Not shown	353.0	N	528750,185788	Tunnel	1974
Not shown	353.0	N	528750,185788	Tunnel	1965
Not shown	688.0	W	528025,185363	Tunnel	1995
Not shown	688.0	W	528025,185363	Tunnel	1974
Not shown	688.0	W	528025,185363	Tunnel	1965
Not shown	929.0	W	527029,185170	Tunnel	1995
Not shown	929.0	W	527029,185170	Tunnel	1974
Not shown	932.0	W	527029,185170	Tunnel	1958
Not shown	932.0	W	527029,185170	Tunnel	1965
Not shown	960.0	SE	529576,184558	Tunnel	1914
Not shown	960.0	SE	529576,184558	Tunnel	1938
Not shown	964.0	SE	529574,184527	Tunnel	1873
Not shown	964.0	SE	529574,184527	Tunnel	1873
Not shown	970.0	SE	529582,184534	Tunnel	1957
Not shown	970.0	SE	529582,184534	Tunnel	1940
Not shown	970.0	SE	529602,184492	Tunnel	1973
Not shown	970.0	SE	529602,184492	Tunnel	1968
Not shown	970.0	SE	529602,184492	Tunnel	1989

## 2.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

**Are there any BGS Current Ground Workings within 1000m of the study site boundary?** **No**

Database searched and no data found.

### 3. Mining, Extraction & Natural Cavities Map



Mining, Extraction & Natural Cavities Legend



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## 3. Mining, Extraction & Natural Cavities

### 3.1 Historical Mining

This dataset is derived from GroundSure unique Historical Land-use Database that are indicative of mining or extraction activities.

**Are there any Historical Mining areas within 1000m of the study site boundary?** **Yes**

The following Historical Mining information is provided by Groundsure :

ID	Distance (m)	Direction	NGR	Details	Date
1A	269.0	W	528501,185 465	Unspecified Shaft	1995
2A	269.0	W	528501,185 465	Unspecified Shaft	1974
3A	270.0	W	528498,185 464	Unspecified Shaft	1965

### 3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

**Are there any Coal Mining areas within 1000m of the study site boundary?** **No**

Database searched and no data found.

### 3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

**Are there any JPB Mining areas within 1000m of the study site boundary?** **No**

The following information provided by JPB is not represented on Mapping:

Database searched. No results found.

### 3.4 Non – Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

**Are there any Non-Coal Mining areas within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.5 Non – Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

**Are there any Non-Coal Mining cavities within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

**Are there any Natural Cavities within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.7 Brine Extraction

This dataset provides information from the Brine Compensation Board which has been discontinued and is now covered by the Coal Authority.

**Are there any Brine Extraction areas within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

**Are there any Gypsum Extraction areas within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level. More detailed information on potential Tin Mining may be found in Section 3.4 – Non-Coal Mining Hazards.

**Are there any Tin Mining areas within 1000m of the study site boundary?** **No**

Database searched and no data found.

---

### 3.10 Clay Mining

---

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

**Are there any Clay Mining areas within 1000m of the study site boundary?**

**No**

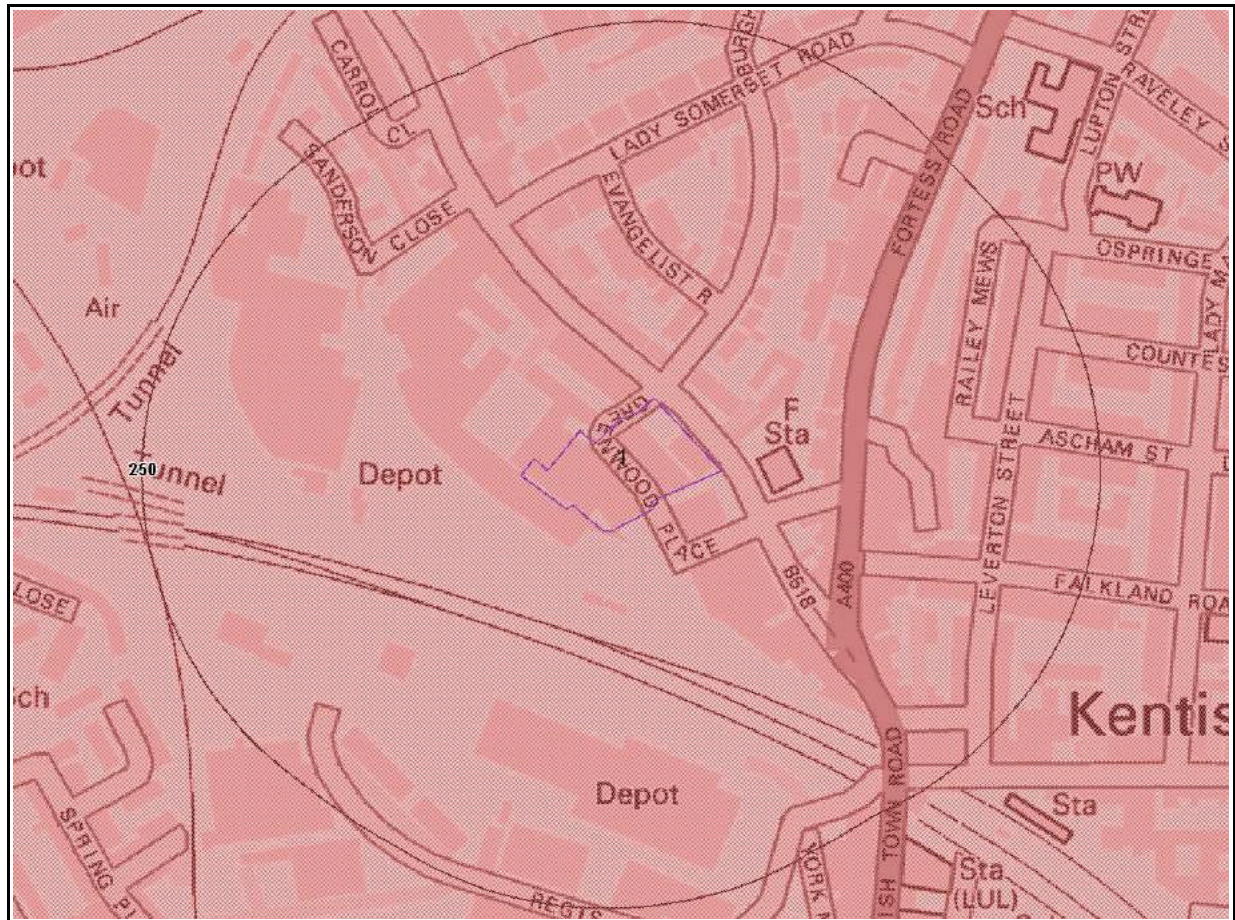
Database searched and no data found.

---



# 4. Natural Ground Subsidence

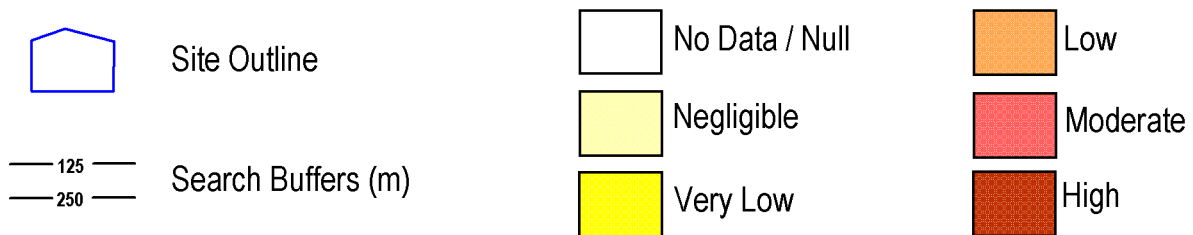
## 4.1 Shrink-Swell Clay Map



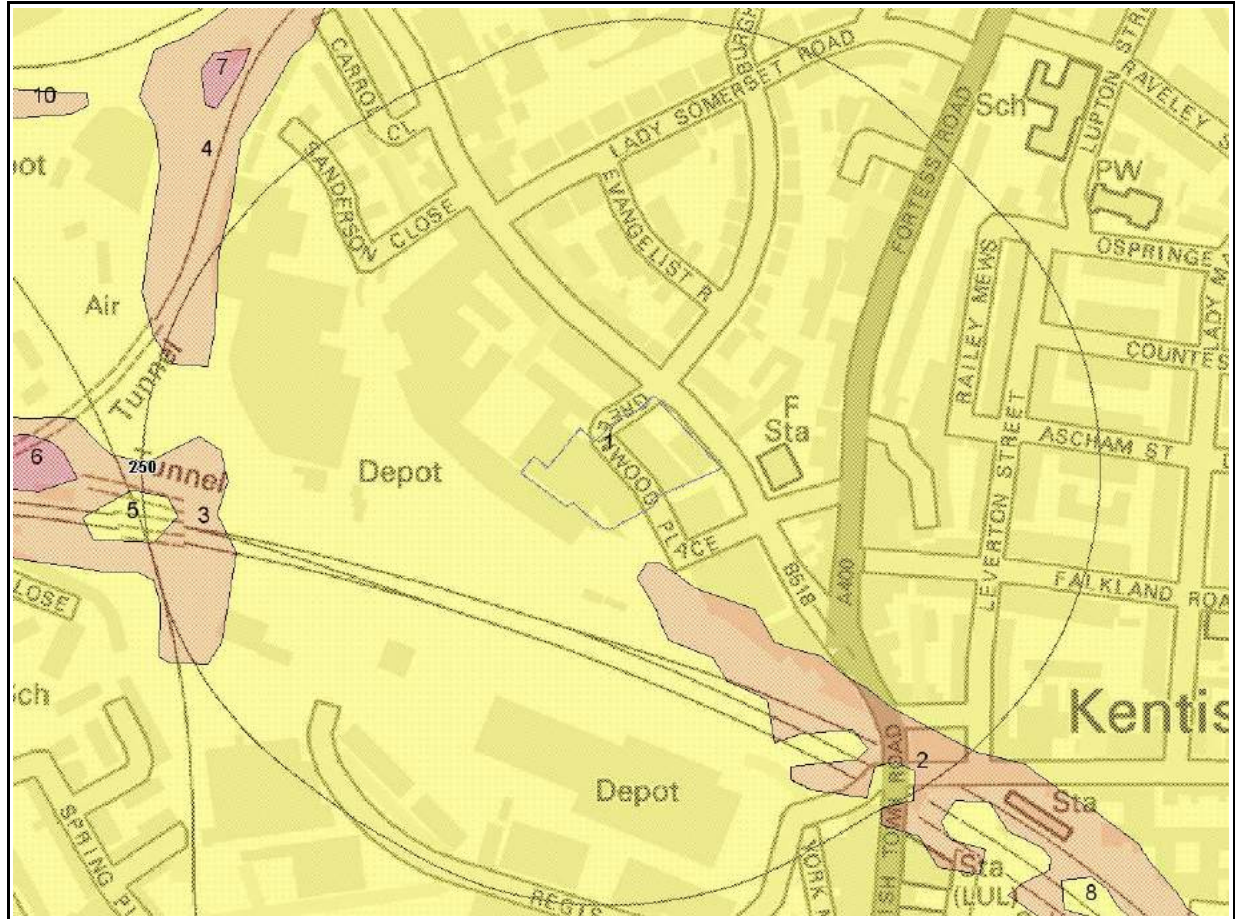
Shrink-Swell Clay Legend



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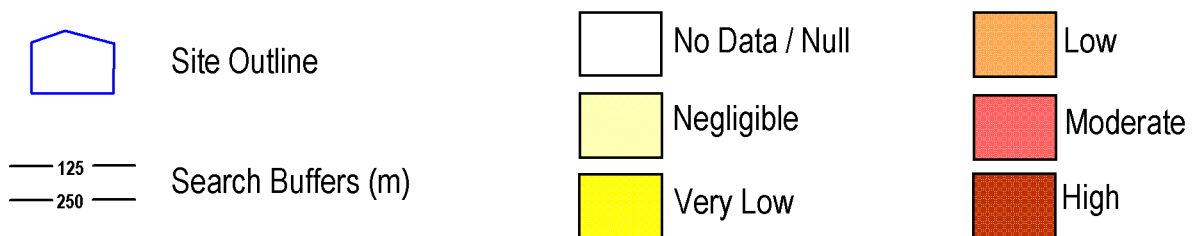
## 4.2 Landslides Map



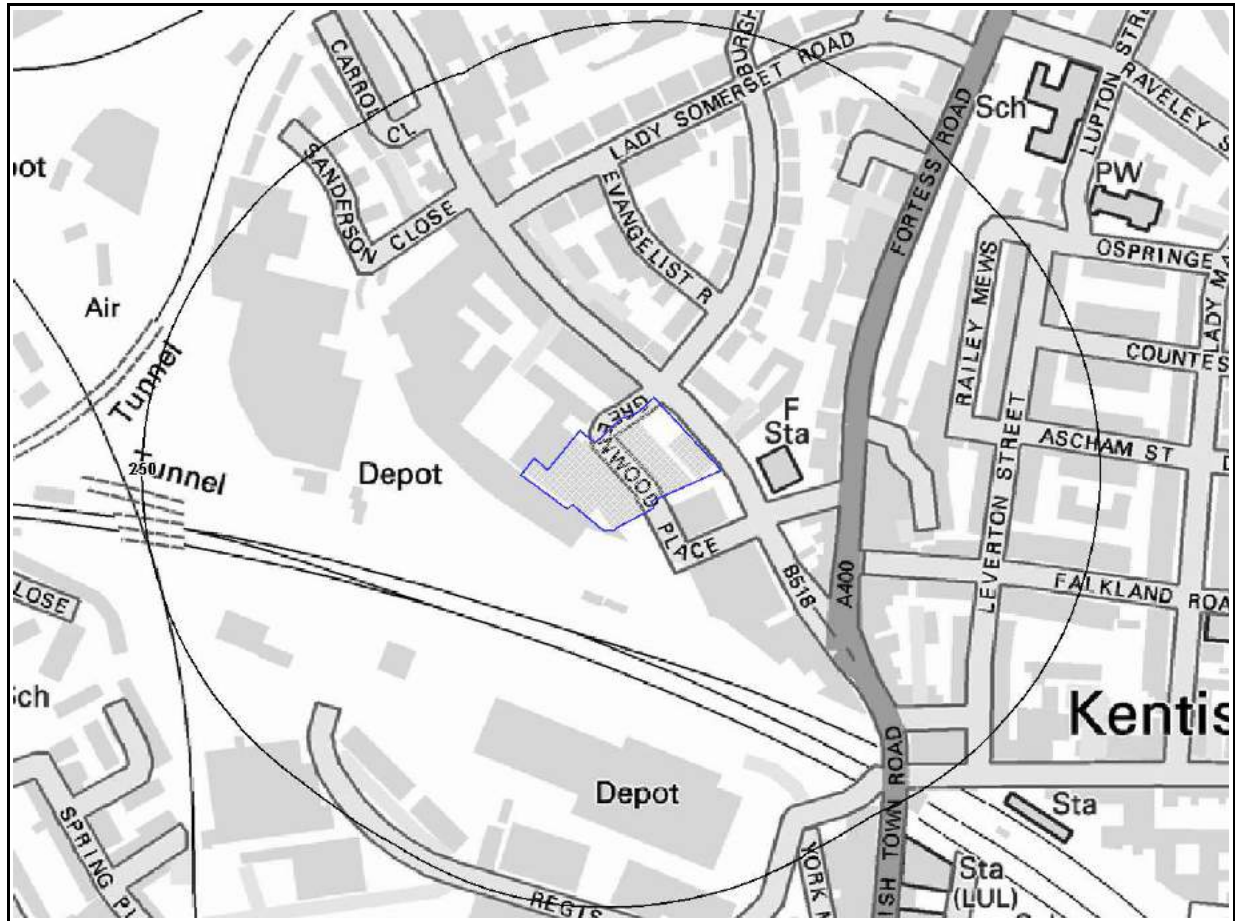
Landslides Legend



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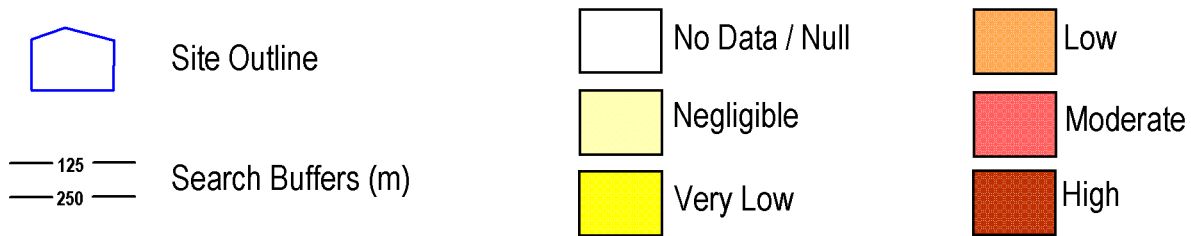
## 4.3 Ground Dissolution Soluble Rocks Map



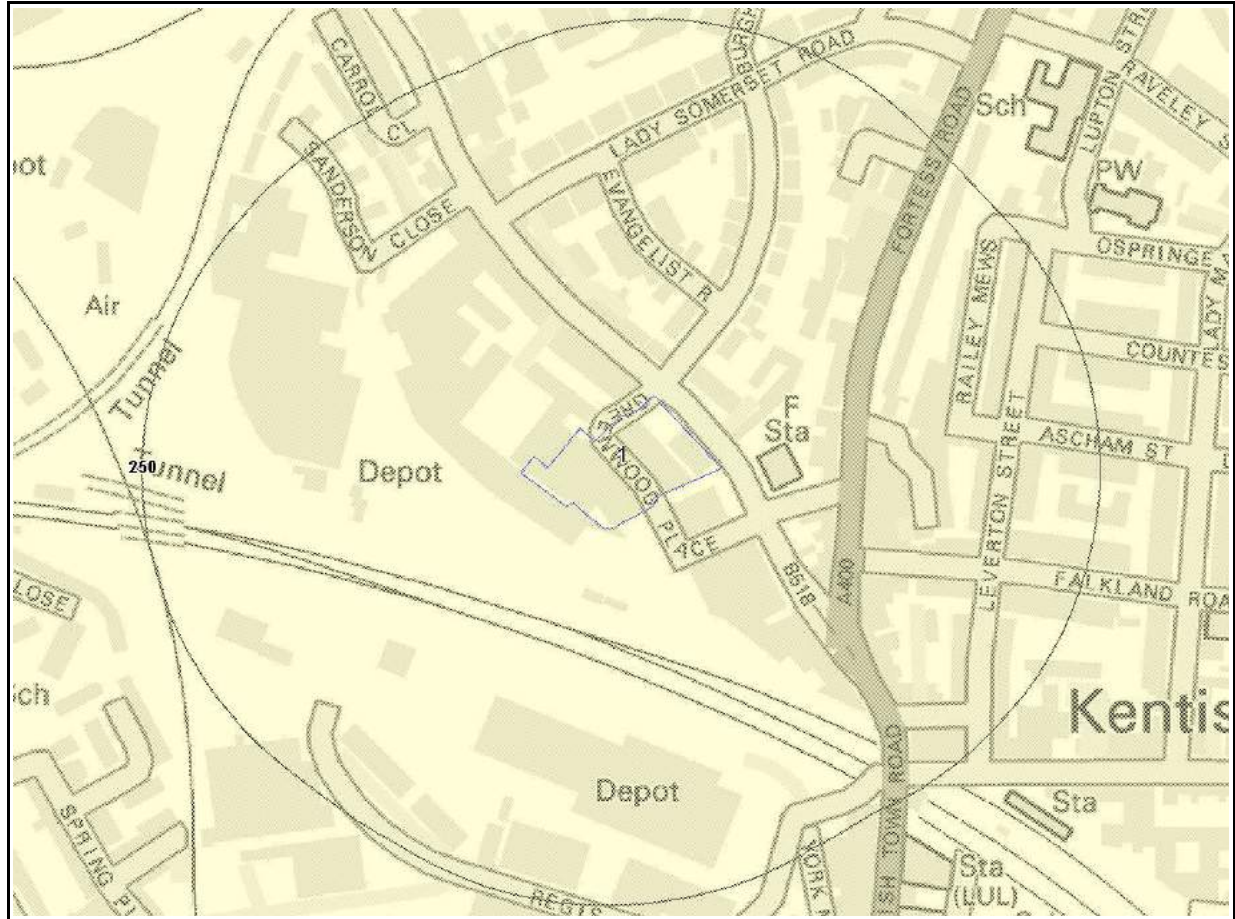
Ground Dissolution Soluble Rocks  
Legend



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# 4.4 Compressible Deposits Map



Compressible Deposits Legend



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