

Basement Impact Assessment: Groundwater 63 Goldhurst Terrace, NW6 3HB

Prepared for: Ground and Project Consultants Limited

The Pump House

Coton Hill Shrewsbury SY1 2DP

> Date: 15/09/2016 Status: Draft

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CONTENTS

| 1 | INTRODUCTION | 1 |
|---------------------------|---|----|
| 1.1 | Objective | 1 |
| 1.2 | Scope of works | 1 |
| 2 | BACKGROUND INFORMATION | 2 |
| 3 | SCREENING | 7 |
| 4 | SCOPING | 8 |
| 4.2 | Matters of concern | 8 |
| 5 | IMPACT ASSESSMENT | 10 |
| 6 | CONCLUSIONS | 12 |
| 7 | REFERENCES | 13 |
| FIGURE Figure : | ES 2.1 Site location | 2 |
| TABLES | | |
| | 2.1 Background information | |
| | 2.2 BGS borehole records | |
| | 2.3 Site investigation data | |
| | 2.4 Local groundwater dip data | |
| | 3.1 Screening assessment5.1 Impact assessment | |

APPENDICES

Appendix A
Appendix B Groundsure report Site plans



1 INTRODUCTION

Ground and Project Consultants Limited has instructed H Fraser Consulting Ltd (HFCL) to provide the hydrogeological aspects of a Basement Impact Assessment at the following property:

63 Goldhurst Terrace, NW6 3HB.

The site is in the London Borough of Camden.

1.1 Objective

The objective of this report is to provide the hydrogeological aspects of a Basement Impact Assessment to support a planning application for construction of a basement at 63 Goldhurst Terrace, NW6 3HB.

1.2 Scope of works

The following works have been undertaken:

- Desk study
- Screening assessment with regards to groundwater
- Scoping assessment to identify potential impacts
- Impact assessment with regard to groundwater attributes
- Reporting

The work has been undertaken in accordance with the requirements of London Borough of Camden's Planning Guidance CPG4 'Basements and Lightwells' (referred to as CPG4) and Arup's 'Geological Hydrogeological and Hydrological Study, Guidance for Subterranean Development' (Arup, 2012, referred to throughout this report as the GHHS).

This assessment is limited to an assessment of the hydrogeological aspects of the proposed development and does not purport to make any comment on surface water flooding, hydrology, contamination or pollution, engineering, land stability, design or construction issues.

The work has been undertaken by Hannah Fraser, Director of HFCL, who is a Chartered Geologist with 20 years' experience as a hydrogeologist and consultant.

2 BACKGROUND INFORMATION

Background information has been derived from a Groundsure report for the site (Appendix A); geological information has been derived from on-line BGS sources (Geology of Britain Viewer, Geolndex, Lexicon); on-line mapping and aerial photography have been derived from Streetmap and GoogleEarth. Table 2.1 presents relevant background information for the site. The site location is shown in Figure 2.1.

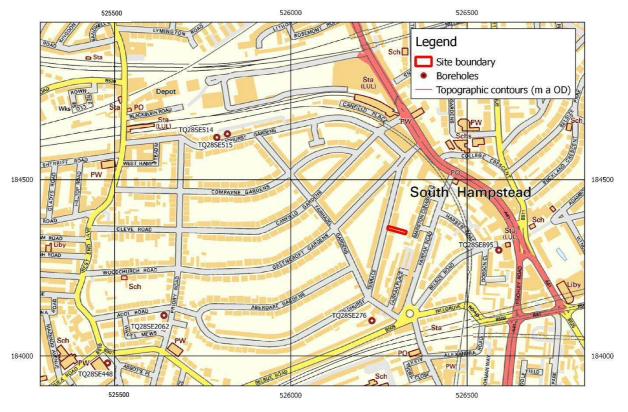


Figure 2.1 Site location
Contains Ordnance Survey data © Crown copyright and database right 2016

Table 2.1 Background information

| Address | 63 Goldhurst Terrace, NW6 3HB |
|-------------|---|
| NGR | 526292, 184356 |
| Description | The existing property is a 3 storey brick built Victorian residence. The site area is estimated at 490m², and the building area is estimated as 160 m². There is an existing small shallow basement at the front of the property, with external access from ground level at the front of the property. The basement does not occupy the full width of the building and comprises a small room at the front of the property and a passageway leading to stairs which provide internal access to the upper floors. The front garden area is paved, and there is a paved area at the rear immediately adjacent to the house. |
| | Both neighbouring properties are understood to have basements, both of which have been recently constructed. |

Ordnance survey topographic data show the site to lie at approximately 40 m OD contour, with ground elevations falling to the southwest, as shown in Figure 2.1.

Proposed development

The proposals are to develop a 3 m deep basement below the footprint of the existing property. The external access at the front of the property will be maintained, but the area of the lightwell extended and the access steps realigned. The proposed basement will extend the full width and depth of the ground floor, with a lightwell to the rear. Both front and rear lightwells will occupy an area currently covered with paving.

Site plans are shown in Appendix B.

Geology

Geological mapping¹ shows the area to be underlain by London Clay. The London Clay is extensive across the area, with the nearest superficial deposits mapped approximately 2.6 km southeast. The geological boundary with the Claygate Member, which overlies the London Clay, lies approximately 690 m north.

The London Clay mainly comprises bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay. It commonly contains thin courses of carbonate concretions ('cementstone nodules') and disseminated pyrite. It also includes a few thin beds of shells and fine sand partings or pockets of sand, which commonly increase towards the base and towards the top of the formation. At the base, and at some other levels, thin beds of black rounded flint gravel occur in places. Glauconite is present in some of the sands and in some clay beds, and white mica occurs at some levels²

Table 2.2 presents geological data from selected BGS borehole records³, and Figure 2.1 shows the location of the boreholes. The local borehole records confirm the presence of Made Ground overlying London Clay.

A site investigation was undertaken by Chelmer Site Investigations in August 2014 comprising the excavation of one 5 m borehole at the front of the property. The borehole log shows Made Ground underlain by Clay. Site investigation data are provided in Table 2.3.

Aquifer status

The London Clay is classified by the Environment Agency as unproductive strata (rock layers with low permeability and negligible significance for water supply or river base flow). The site is not within a source protection zone of a public water supply.

Groundwater was not recorded in any of the BGS borehole logs presented in Table 2.2.

Groundwater was not recorded during drilling at the site, however groundwater monitoring was not undertaken after drilling.

Borehole logs and groundwater observations have been made in association with basement impact assessments at three local properties, one 560 m west

30161R1D1 Page 3

¹ http://mapapps.bgs.ac.uk/geologyofbritain/home.html

² http://www.bgs.ac.uk/lexicon/lexicon.cfm?pub=LC

³ http://mapapps2.bgs.ac.uk/geoindex/home.html

| | on Priory Road, another 190 m west on Greencroft Gardens, and the third 450 m southwest on Goldhurst Terrace. Groundwater data are presented in Table 2.4; groundwater levels ranged between approximately 1 m bgl and approximately 2 m bgl. |
|----------------------|---|
| Watercourses | The Groundsure report ⁴ states there are no surface water abstractions within 2 km of the site, and no rivers or surface water features within 500 m and 250 m of the site respectively. |
| | The old course of the headwaters of the River Kilburn lies approximately 120 m west of the site. It is not known whether this river is now culverted or diverted, but there are no indications that there is a water feature present on current mapping or aerial photography. |
| Spring lines | There are no springs shown on OS mapping, and no known local geological features that might give rise to springs. |
| Wells | The nearest groundwater abstraction licence reported in the Groundsure report is approximately 436 m east of the property, at Swiss Cottage. The site is 269 m west of the outer source protection zone of this abstraction. The BGS geoindex indicates that this well abstracts from the Chalk aquifer underlying the London Clay ⁵ . |
| Groundwater flooding | The area is not considered prone to groundwater flooding, based on rock type. ⁶ |

Groundsure report GS-3300137
 http://mapapps2.bgs.ac.uk/geoindex/home.html
 Groundsure report GS-3300137

Table 2.2 BGS borehole records

| Reference | Name | Length | Easting | Northing | Description |
|------------|-----------------------------------|--------|---------|----------|--|
| TQ28SE514 | Broadhurst Gardens BH1 | 3.89 | 525790 | 184620 | Made Ground to 0.61 m; London Clay soft to firm red brown mottled clay changing to brown and grey mottled clay. A few gypsum crystals to 3.9 m. Borehole dry. |
| TQ28SE515 | Broadhurst Gardens BH2 | 3.81 | 525820 | 184630 | Made Ground to 0.91 m; firm light brown Clay to 1.22 m; fine medium gravel in matrix of firm brown clay to 1.83 m; firm brown silty clay some gypsum crystals to 3.35 m; firm brown clay with blue streaks to 3.81 m. Borehole dry. |
| TQ28SE448 | Kilburn Vale Est BH4 | 15 | 525480 | 183980 | Made Ground to 0.45 m; firm becoming stiff brown fissured silty clay, occasional patches of fine sand and selenite crystals in fissures to 10.2 m; stiff blue fissured silty clay with some silt in fissures to 15.25 m. Water was not encountered during drilling. |
| TQ28SE2062 | 65 Priory Road Hampstead 1 | 10 | 525640 | 184115 | Made Ground. Soft to firm brown clay with many broken bricks and decomposed mortar to 1.04 m; firm slightly silty brown mottled grey CLAY with extensive close fissuring. Occasional claystones. Becoming very stiff slightly silty dark brown slightly mottled grey clay with some fissures and fine partings of grey silt to 7.75 m; very stiff to hard slightly silty blue grey clay with many large fissures. Some sandy and silty partings to 10 m. Borehole dry. |
| TQ28SE276 | Colridge Gardens Swiss Cottage | 7.62 | 526230 | 184100 | Topsoil to 0.45 m, Loamy Clay to 1.52 m, Brown Clay to 7.62 m, Borehole dry. |
| TQ28SE895 | Swiss Cottage 4 | 12.19 | 526590 | 184300 | Made ground (concrete and bricks) to 0.76 m, Stiff brown clay with occasional sulphate crystals to 6.86 m, stiff to very stiff grey silty clay to 4.57 m. Ground level at 52.21 m, water - none. |

Geological data from site investigations undertaken by Chelmer Site Investigations in August 2014 are presented in Table 2.3.

Table 2.3 Site investigation data

| Strata | | Depth | Thickness |
|--------|---|---------|-----------|
| Suata | | (m bgl) | (m) |
| - | Brick Paving | 0.15 | 0.15 |
| - | MADE GROUND: medium compact dark brown very silty Clay with gravel and brick fragments. | 0.9 | 0.75 |
| - | Firm orange-brown grey veined silty CLAY with partings of orange and brown silt and fine sand, claystone nodules and selenite crystalsbecoming stiff from 1.4 m | 2.3 | 1.4 |
| - | Very stiff orange-brown grey veined silty CLAY with partings of orange and brown silt and fine sand, frequent claystone nodules and selenite crystals | 5.0 | 2.7 |

The borehole is recorded as being dry and open on completion. No further information is available regarding groundwater elevations.

Groundwater elevation data are available from three local properties, one 560 m west on Priory Road, another 190 m west on Greencroft Gardens, and the third 450 m southwest on Goldhurst Terrace. The data are presented in Table 2.4.

Table 2.4 Local groundwater dip data

| Date | Groundwater reading (m bgl) | Location |
|------------|-----------------------------|--------------------|
| 30/05/2014 | 2.11 m bgl | Goldhurst Terrace |
| 07/10/2015 | 1.08 m bgl | Greencroft Gardens |
| 16/10/2015 | 0.95 m bgl | Greencroft Gardens |
| 10/06/2015 | 1.02 m bgl | Priory Road |

3 SCREENING

A screening assessment has been undertaken in accordance with the methodology set out in Section 6.2 and Appendix E2 of the GHHS (Arup, 2012). The results are presented in Table 3.1.

Table 3.1 Screening assessment

| Ref | Question | Answer (yes/no/unknown) | Action |
|-----|--|---|-------------------------------|
| Q1a | Is the site located directly above an aquifer? | No the site is underlain by the London Clay | No further action |
| Q1b | Will the proposed basement extend beneath the water table surface? | Unknown | Take forward to scoping stage |
| Q2 | Is the site within 100m of a watercourse, well (used/disused) or potential spring line? | No | No further action |
| Q3 | Is the site within the catchment of the pond chains on Hampstead Heath? | No | No further action |
| Q4 | Will the proposed basement development result in a change in the proportion of hard surface/paved areas? | No | No further action |
| Q5 | As part of the drainage, will more surface water (e.g. rainfall and run-off) than at present be discharged to the ground (e.g. via soakaways and/or SUDs) | Unknown | Take forward to scoping stage |
| Q6 | Is the lowest point of the proposed excavation (allowing for any drainage and foundation space under the basement floor) close to or lower than the mean water level in any local pond or spring line? | No | No further action |

4 SCOPING

This section of the report summarises the pertinent information as a Conceptual Model, and then describes the matters of concern that need to be considered in the Impact Assessment.

4.1 Conceptual model

The proposed development is to extend an existing small shallow basement to fill the width and depth of the current building footprint, with a lightwell at the rear. An existing lightwell at the front will be extended and the existing external access stairs repositioned. Both lightwells are in areas currently covered by hardstanding.

Local topography falls to the south and southwest, and the site lies at an elevation of approximately 40 m a OD. The basement excavation is likely to be c. 3.0 m bgl.

The underlying geology comprises the London Clay. Site investigation data from the front of the property confirm the presence of Clay below 0.9 m of clayey Made Ground. The London Clay is classified as 'unproductive strata', and has low permeability. Groundwater flow within the London Clay is generally negligible, although some groundwater movement occurs on discrete sand partings or other discontinuities. Groundwater flow directions are likely to be in the direction of topography, to the south and southwest. Geological mapping indicates that there may be Head Deposits in the vicinity.

Groundwater was not observed during drilling at the site, and there are no further groundwater monitoring data on which to ascertain likely groundwater elevations. Due to the very low permeability of the London Clay, it can take several days or weeks for a water table elevation to be established within a water monitoring borehole, and it is therefore inappropriate to assume that there is no groundwater at the site on the basis of observations during drilling. Groundwater readings taken in 2014 and 2015 from boreholes at neighbouring properties (560 m west on Priory Road, 190 m west on Greencroft Gardens, and 450 m southwest on Goldhurst Terrace) were between approximately 1 m bgl and approximately 2 m bgl.

Both neighbouring properties are believed to have constructed basements recently, or be in the process of developing basements. The construction of the neighbouring basements is therefore likely to be modern, with protection against groundwater ingress.

The drainage arrangements for the site are not known.

4.2 Matters of concern

Five attributes are considered as potential matters of concern, as discussed below.

- Groundwater level no groundwater data are available from the site, but local readings indicate that groundwater might be at approximately 1-2 m bgl. This is taken forward for further assessment.
- 2. Range of seasonal fluctuation in groundwater levels the range of fluctuation in groundwater levels is not known. This is taken forward for further assessment.
- 3. Spring/stream hydrographs there is no evidence that local streams or springs are likely to be affected. This is not considered further.
- 4. Soil moisture there is the potential for soil moisture content to affect the development, and this is carried forward for further assessment.

5. Water quality – there is no evidence that the development will affect water quality, provided good practice is followed with regard to pollution management. This is not considered further.

5 IMPACT ASSESSMENT

The impact assessment has been undertaken by considering groundwater attributes, how these are likely to change under the proposed development and the consequence of any predicted changes. The assessment is qualitative at this stage. The results are presented in Table 5.1.

Table 5.1 Impact assessment

| Groundwater Attribute | Predicted Change | Consequence of change and mitigation |
|-----------------------|---|--|
| Groundwater levels | Groundwater has been observed in the locality at between approximately 1 m bgl and 2 m bgl, indicating that the development may extend below the water table. | Measures should be taken to protect the excavation against groundwater ingress during construction. The excavation should be kept dry. |
| | There is the potential for groundwater ingress to the excavation, although volumes are likely to be minimal due to the low permeability of | The basement design should include protection against groundwater ingress to the finished development. |
| | the London Clay. There is also the potential for groundwater ingress to the finished basement development. | Drainage design should comply with the requirements of SUDS. |
| | There is the potential for groundwater to back-up around the proposed basement structure, although the risks are mitigated to an extent by the low permeability of the London Clay. The risks to neighbouring basements are likely to be low as they are believed to be recent developments with modern construction methods that would include protection against groundwater ingress. | |
| | The proposals are unlikely to result in a change to infiltration and recharge to the London Clay, as the development outside the footprint of the existing building is in areas which are currently covered with paving. Additionally, recharge to the London Clay is likely to be low under current conditions due to the low permeability of the London Clay, and it is not anticipated that impacts to groundwater levels will be significant. | |
| | Detailed drainage designs are not known at this stage, however it is not anticipated that significant volumes of water will be discharged to ground due to the low permeability of the London Clay. | |

| Groundwater Attribute | Predicted Change | Consequence of change and mitigation |
|---|---|---|
| Range of seasonal fluctuation in groundwater levels | The range of seasonal groundwater fluctuation is not known. Locally, the groundwater table has been measured at a relatively shallow depth, and seasonal fluctuations in groundwater combined with backing up of groundwater levels around the basement structure have the potential to cause daylighting of groundwater at the surface. The likelihood of this occurring is considered to be relatively low due to the low permeability of the London Clay, but in the absence of site specific groundwater data, mitigation measures should be incorporated to address this risk. | Structural design should allow for seasonal fluctuations in groundwater elevations, which may rise to ground level. The basement design should include groundwater drainage systems to prevent groundwater backing up around the development, and thereby protect neighbouring properties from impact. There are measures widely implemented in such situations and if correctly designed and constructed there should not be any significant groundwater back up around the new basement. |
| Soil moisture | Soil moisture has the potential to permeate the basement structure. | The proposed basement structure should be adequately protected against permeation of soil moisture. |

6 CONCLUSIONS

The proposed development is to extend an existing small shallow basement to fill the width and depth of the current building footprint, with a lightwell at the rear. An existing lightwell at the front will be extended and the existing external access stairs repositioned. Both lightwells are in areas currently covered by hardstanding.

The underlying geology comprises the London Clay. Site investigation data from the front of the property confirm the presence of Clay below 0.9 m of clayey Made Ground. The London Clay is classified as 'unproductive strata', and has low permeability. Groundwater flow within the London Clay is generally negligible, although some groundwater movement occurs on discrete sand partings or other discontinuities.

Groundwater was not observed during drilling at the site, however in the local area groundwater observations have been made between approximately 1 m bgl and approximately 2 m bgl, indicating that the development may extend below the water table.

There is the potential for groundwater ingress to the excavation, although volumes are likely to be minimal due to the low permeability of the London Clay. There is also the potential for groundwater ingress to the finished basement development. Measures should be taken to protect the excavation against groundwater ingress during construction. The excavation should be kept dry. The basement design should include protection against groundwater ingress to the finished development.

There is the potential for groundwater to back-up around the proposed basement structure, although the risks are mitigated to an extent by the low permeability of the London Clay. The risks to neighbouring basements are likely to be low as they are believed to be recent developments with modern construction methods that would include protection against groundwater ingress.

The proposals are unlikely to result in a change to infiltration and recharge to the London Clay, as the development outside the footprint of the existing building is in areas which are currently covered with paving. Additionally, recharge to the London Clay is likely to be low under current conditions due to the low permeability of the London Clay, and it is not anticipated that impacts to groundwater levels will be significant.

Detailed drainage designs are not known at this stage, however it is not anticipated that significant volumes of water will be discharged to ground due to the low permeability of the London Clay. Drainage design should comply with the requirements of SUDS.

Structural design should allow for seasonal fluctuations in groundwater elevations, which may rise to ground level. Given the lack of site specific groundwater elevation data, the basement design should include groundwater drainage systems to prevent groundwater backing up around the development under high water table conditions. There are measures widely implemented in such situations and if correctly designed and constructed there should not be any significant groundwater back up around the new basement.

7 REFERENCES

Arup, 2012. Geological Hydrogeological and Hydrological Study, Guidance for subterranean development

Chelmer Site Investigations, 2014. Factual Report, 63 Goldhurst Terrace, NW6

London Borough of Camden CPG4 'Basements and Lightwells'

APPENDIX A

Groundsure Report



Groundsure Enviro Insight

Address: 63, GOLDHURST TERRACE, LONDON, NW6 3HB

Date: 15 Sep 2016

Reference: GS-3300137

Client: H Fraser Consulting Ltd

NW NE



Aerial Photograph Capture date: 04-May-2014

Grid Reference: 526293,184359

Site Size: 0.03ha

Report Reference: GS-3300137

SW

Client Reference: 30161_65_Goldhurst_Terrace

2



Contents Page

| Contents Page | 3 |
|--|----|
| Overview of Findings | 6 |
| Using this report | 10 |
| 1. Historical Land Use | 11 |
| 1. Historical Industrial Sites | 12 |
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping | |
| 1.2 Additional Information – Historical Tank Database | |
| 1.3 Additional Information – Historical Energy Features Database | |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 15 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 16 |
| 1.6 Potentially Infilled Land | 17 |
| 2. Environmental Permits, Incidents and Registers Map | 19 |
| 2. Environmental Permits, Incidents and Registers | 20 |
| 2.1 Industrial Sites Holding Licences and/or Authorisations | 20 |
| 2.1.1 Records of historic IPC Authorisations within 500m of the study site: | 20 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: | |
| 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m study site: | |
| 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: | |
| 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: | |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: | 21 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations: | |
| 2.1.8 Records of Licensed Discharge Consents within 500m of the study site: | |
| 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m study site: | |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: | |
| 2.2 Dangerous or Hazardous Sites | |
| 2.3 Environment Agency Recorded Pollution Incidents | |
| 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site: | |
| 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: | |
| 3. Landfill and Other Waste Sites Map | 23 |
| 3. Landfill and Other Waste Sites | 25 |
| 3.1 Landfill Sites | |
| 3.1.1 Records from Environment Agency landfill data within 1000m of the study site: | |
| 3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site: | |
| 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site: | |
| 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site: | 25 |
| 3.2 Other Waste Sites | |
| 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site: | |
| 3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site: | |
| 4. Current Land Use Map | 27 |
| 4. Current Land Uses | 28 |
| 4.1 Current Industrial Data | |
| 4.2 Petrol and Fuel Sites | |
| 4.3 National Grid High Voltage Underground Electricity Transmission Cables | |
| 4.4 National Grid High Pressure Gas Transmission Pipelines | |
| 5. Geology | 31 |
| 5.1 Artificial Ground and Made Ground | 31 |

Report Reference: GS-3300137



| | 5.2 Superficial Ground and Drift Geology | 31 |
|-----|---|----|
| | 5.3 Bedrock and Solid Geology | 31 |
| 6 F | lydrogeology and Hydrology | 32 |
| 6a | Aquifer Within Superficial Geology | 32 |
| 6b | Aquifer Within Bedrock Geology and Abstraction Licenses | 33 |
| 6c. | Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses | 34 |
| | Hydrogeology – Source Protection Zones within confined aquifer | 35 |
| | Hydrology – Detailed River Network and River Quality | 36 |
| | Hydrogeology and Hydrology | 37 |
| О.Г | 6.1 Aguifer within Superficial Deposits | |
| | 6.2 Aquifer within Bedrock Deposits | |
| | 6.3 Groundwater Abstraction Licences | |
| | 6.4 Surface Water Abstraction Licences | |
| | 6.5 Potable Water Abstraction Licences | |
| | 6.6 Source Protection Zones | |
| | 6.7 Source Protection Zones within Confined Aquifer | |
| | 6.8 Groundwater Vulnerability and Soil Leaching Potential | |
| | 6.9 River Quality | |
| | 6.9.1 Biological Quality: | |
| | 6.9.2 Chemical Quality: | |
| | 6.10 Detailed River Network | |
| | 6.11 Surface Water Features | 41 |
| 7a | Environment Agency Flood Map for Planning (from rivers and the sea) | 42 |
| 7b | Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map | 43 |
| | looding | 44 |
| | 7.1 River and Coastal Zone 2 Flooding | 44 |
| | 7.2 River and Coastal Zone 3 Flooding | |
| | 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating | |
| | 7.4 Flood Defences | |
| | 7.5 Areas benefiting from Flood Defences | 44 |
| | 7.6 Areas benefiting from Flood Storage | |
| | 7.7 Groundwater Flooding Susceptibility Areas | |
| | 7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundare the study site? No | |
| | 7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geolog | - |
| | conditions? | |
| _ | 7.8 Groundwater Flooding Confidence Areas | |
| | Designated Environmentally Sensitive Sites Map | 46 |
| 8. | Designated Environmentally Sensitive Sites | 47 |
| | 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: | |
| | 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: | |
| | 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: | |
| | 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: | |
| | 8.5 Records of Ramsar sites within 2000m of the study site: | |
| | 8.6 Records of Ancient Woodland within 2000m of the study site: | |
| | 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site: | |
| | 8.8 Records of World Heritage Sites within 2000m of the study site: | |
| | 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: | |
| | 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: | |
| | 8.11 Records of National Parks (NP) within 2000m of the study site: | |
| | 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site: | |
| | 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site: | 49 |

Report Reference: GS-3300137



56

| | LOCATION INTELLIGENCE |
|---|-----------------------|
| 8.14 Records of Green Belt land within 2000m of the study site: | 49 |
| 9. Natural Hazards Findings | 50 |
| 9.1 Detailed BGS GeoSure Data | 50 |
| 9.1.1 Shrink Swell | 50 |
| 9.1.2 Landslides | 50 |
| 9.1.3 Soluble Rocks | 50 |
| 9.1.4 Compressible Ground | 51 |
| 9.1.5 Collapsible Rocks | 51 |
| 9.1.6 Running Sand | 51 |
| 9.2 Radon | 51 |
| 9.2.1 Radon Affected Areas | 51 |
| 9.2.2 Radon Protection | 52 |
| 10. Mining | 53 |
| 10.1 Coal Mining | 53 |
| 10.2 Non-Coal Mining | |
| 10.3 Brine Affected Areas | |
| Contact Details | 54 |

Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace

Standard Terms and Conditions



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.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|--|---------|-------|--------|---------|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 0 | 0 | 4 | 79 |
| 1.2 Additional Information – Historical Tank Database | 0 | 0 | 0 | 6 |
| 1.3 Additional Information – Historical Energy Features Database | 0 | 0 | 5 | 46 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 0 | 13 | 36 |
| 1.6 Potentially Infilled Land | 0 | 0 | 9 | 25 |
| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 0 | 5 | 8 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 0 | 0 |
| 2.2 Records of COMAH and NIHHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 0 | 0 | 0 | 0 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

Report Reference: GS-3300137



| | | | | | LOCATION INTE | ELLIGENCE |
|--|---------|-------|--------|---------|---------------|---------------|
| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000- 1500 |
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency Historic Landfill Sites | 0 | 0 | 0 | 1 | 0 | 0 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 0 | 3 | Not searched | Not searched |
| 3.2.2 Environment Agency Licensed Waste Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| Section 4: Current Land Use | On-site | 9 | 0-50m | 51-25 | 0 2 | 51-500 |
| 4.1 Current Industrial Sites Data | 0 | | 0 | 10 | No | t searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | | 0 | 1 | | 1 |
| 4.3 National Grid Underground Electricity Cables | 0 | | 0 | 0 | | 12 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | | 0 | 0 | | 0 |
| 5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section. | | | No | one | | |
| • | | | 0.5 | 00m | | |
| Section 6: Hydrogeology and Hydrology | | | 0-3 | 00111 | | |
| 6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site? | | | ١ | 10 | | |
| 6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site? | | | Y | es | | |
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000- 2000 |
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 4 | 0 | 4 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 3 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 1 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000- 1500 |



| Section 6: Hydrogeology and Hydrology | 0-500m | | | | | |
|--|---------|-------|--------|--------------|--------------|---------------|
| 6.9 Is there any Environment Agency information on river quality within 1500m of the study site? | No | No | No | No | No | No |
| 6.10 Detailed River Network entries within 500m of the site | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | No | No | No | Not searched | Not searched | Not searched |
| Section 7: Flooding | | | | | | |
| 7.1 Are there any Enviroment Agency Zone 2 floodplains within 250m of the study site? | | | N | lo | | |
| 7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site | | | Ν | lo | | |
| 7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site? | | | Very | Low | | |
| 7.4 Are there any Flood Defences within 250m of the study site? | | | Ν | lo | | |
| 7.5 Are there any areas benefiting from Flood Defences within 250m of the study site? | | | ٨ | lo | | |
| 7.6 Are there any areas used for Flood Storage within 250m of the study site? | | | N | lo | | |
| 7,7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site? | | | Not F | Prone | | |
| 7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas? | | | Not Ap | plicable | | |
| | | | | | | |
| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000- 2000 |
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 | 3 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 |



| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000- 2000 |
|---|---------|-------|--------|---------|----------|---------------|
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 0 |

| Section 9: Natural Hazards | |
|---|---|
| 9.1 What is the maximum risk of natural ground subsidence? | Moderate |
| 9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site? | Moderate |
| 9.1.2 What is the maximum Landslides hazard rating identified on the study site? | Very Low |
| 9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site? | Negligible |
| 9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site? | Negligible |
| 9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site? | Very Low |
| 9.1.6 What is the maximum Running Sand hazard rating identified on the study site? | Negligible |
| 9.2 Radon | |
| 9.2.1 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. |
| 9.2.2 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. |

| Section 10: Mining | |
|---|----|
| 10.1 Are there any coal mining areas within 75m of the study site? | No |
| 10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary? | No |
| 10.3 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. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. 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.

3. 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.

4. 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 gas pipelines and underground electricity transmission lines.

5. Geology

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

6. 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.

7. Flooding

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

8. 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 and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. 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 and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. 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).

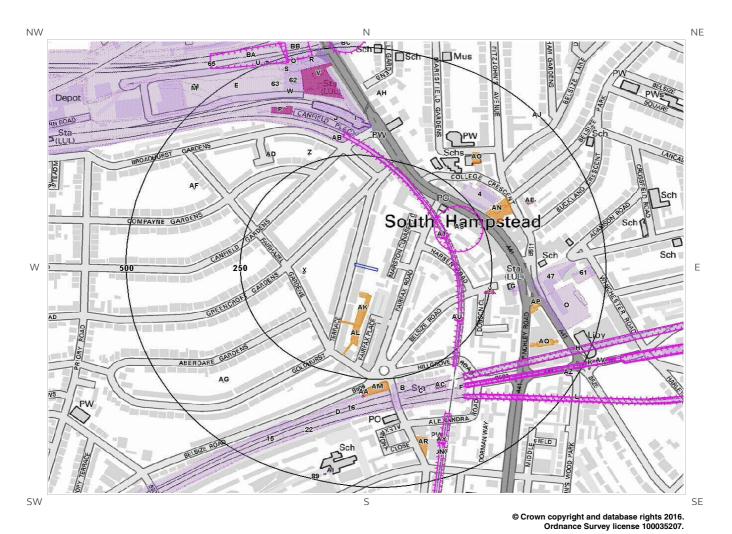
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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.

Report Reference: GS-3300137



1. Historical Land Use





Report Reference: GS-3300137



Date

1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

Distance [m]

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Direction

LISE

Records of sites with a potentially contaminative past land use within 500m of the search boundary:

| ID | Distance [m] | Direction | Use | Date |
|------|--------------|-----------|--------------------------|------|
| 1A | 162 | E | Tunnel | 1973 |
| 2A | 162 | E | Tunnel | 1968 |
| 3A | 162 | E | Tunnel | 1957 |
| 4 | 248 | NE | Hospital | 1948 |
| 5B | 263 | S | Railway Station | 1973 |
| 6B | 263 | S | Railway Station | 1957 |
| 7B | 263 | S | Railway Station | 1948 |
| 8C | 263 | S | Railway Sidings | 1973 |
| 9C | 263 | S | Railway Sidings | 1968 |
| 10B | 263 | S | Railway Station | 1989 |
| 11B | 263 | S | Railway Station | 1968 |
| 12D | 274 | S | Railway Sidings | 1973 |
| 13D | 274 | S | Railway Sidings | 1968 |
| 14D | 274 | S | Railway Sidings | 1989 |
| 15 | 274 | S | Railway Sidings | 1957 |
| 16 | 276 | S | Railway Sidings | 1948 |
| 17M | 280 | N | Railway Sidings | 1920 |
| 18E | 281 | N | Railway Sidings | 1957 |
| 19E | 282 | Ν | Railway Sidings | 1973 |
| 20E | 282 | Ν | Railway Sidings | 1968 |
| 21 | 282 | Ν | Railway Sidings | 1948 |
| 22 | 285 | S | Railway Sidings | 1894 |
| 23C | 285 | S | Railway Station | 1894 |
| 24B | 288 | S | Railway Station | 1920 |
| 25G | 289 | E | London Transport Station | 1989 |
| 26AC | 292 | SE | Railway Building | 1989 |
| 27J | 295 | Ν | Railway Station | 1948 |
| 28F | 295 | SE | Railway Sidings | 1973 |
| 29F | 295 | SE | Railway Sidings | 1968 |
| 30G | 296 | E | Railway Station | 1894 |
| 31G | 297 | E | Unspecified Station | 1920 |
| 321 | 301 | N | Railway Station | 1920 |
| 33H | 302 | SE | Tunnel | 1968 |
| 34H | 302 | SE | Tunnel | 1989 |

Report Reference: GS-3300137



| | | | LOCA | TION INTELLIGENCE |
|------|-----|----|--------------------------|-------------------|
| 35H | 302 | SE | Tunnel | 1957 |
| 36H | 302 | SE | Tunnel | 1973 |
| 371 | 305 | N | Railway Station | 1894 |
| 38J | 312 | N | London Transport Station | 1957 |
| 39J | 312 | N | London Transport Station | 1968 |
| 40J | 312 | N | London Transport Station | 1973 |
| 41J | 312 | N | Railway Station | 1989 |
| 42AV | 321 | SE | Tunnels | 1957 |
| 43K | 323 | SE | Tunnel | 1973 |
| 44K | 323 | SE | Tunnel | 1968 |
| 45K | 323 | SE | Tunnel | 1989 |
| 46F | 323 | SE | Railway Building | 1989 |
| 47 | 336 | E | Unspecified Station | 1948 |
| 48L | 342 | SE | Tunnels | 1957 |
| 49L | 345 | SE | Tunnel | 1973 |
| 50L | 345 | SE | Tunnel | 1968 |
| 51L | 345 | SE | Tunnel | 1989 |
| 52M | 346 | N | Railway Sidings | 1894 |
| 53N | 361 | SE | Tunnel | 1973 |
| 54AX | 361 | SE | Tunnel | 1957 |
| 55AW | 361 | SE | Tunnel | 1968 |
| 56N | 361 | SE | Tunnel | 1989 |
| 570 | 363 | E | Hospital | 1957 |
| 580 | 363 | E | Hospital | 1948 |
| 59P | 373 | NW | Railway Building | 1948 |
| 60P | 374 | NW | Railway Building | 1920 |
| 61 | 425 | E | London Transport Station | 1968 |
| 62 | 434 | N | Railway Building | 1920 |
| 63 | 436 | NW | Railway Building | 1968 |
| 64V | 437 | N | Railway Building | 1920 |
| 65 | 456 | N | Railway Sidings | 1866 |
| 66Q | 462 | N | Coal Depot | 1968 |
| 67Q | 462 | N | Coal Depot | 1957 |
| 685 | 465 | N | Railway Building | 1894 |
| 69Q | 466 | N | Railway Buildings | 1948 |
| 70Q | 467 | N | Railway Building | 1920 |
| 71R | 471 | N | Railway Buildings | 1894 |
| 72R | 475 | N | Railway Building | 1920 |
| 73Q | 476 | N | Railway Building | 1920 |
| 74R | 476 | N | Railway Building | 1920 |
| 75Q | 479 | N | Railway Building | 1920 |
| 76S | 480 | N | Railway Building | 1866 |
| 77BA | 485 | N | Cuttings | 1866 |
| 78BB | 486 | N | Cuttings | 1957 |
| 79BC | 487 | N | Cuttings | 1866 |
| 80T | 491 | N | Railway Building | 1894 |
| | | | | |



| | | | | LOCATION INTELLIGENCE |
|-----|-----|----|------------------|-----------------------|
| 81T | 496 | NW | Railway Building | 1920 |
| 82U | 499 | NW | Railway Building | 1973 |
| 83U | 499 | NW | Railway Building | 1968 |

1.2 Additional Information - Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary:

6

| ID | Distance (m) | Direction | Use | Date |
|------|--------------|-----------|------------------|------|
| 84V | 381 | N | Gas Board Depot | 1953 |
| 85V | 406 | N | Gas Board Depot | 1955 |
| 86W | 416 | N | Unspecified Tank | 1955 |
| 87W | 417 | N | Unspecified Tank | 1953 |
| 88AI | 475 | S | Unspecified Tank | 1871 |
| 89 | 496 | S | Unspecified Tank | 1871 |

1.3 Additional Information - Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

51

| ID | Distance (m) | Direction | Use | Date |
|-------|--------------|-----------|------------------------|------|
| 90X | 108 | W | Electricity Substation | 1991 |
| 91X | 108 | W | Electricity Substation | 1983 |
| 92X | 109 | W | Electricity Substation | 1999 |
| 93Y | 238 | Е | Electricity Substation | 1991 |
| 94Y | 238 | E | Electricity Substation | 1984 |
| 95Y | 259 | E | Electricity Substation | 1995 |
| 96Z | 268 | N | Electricity Substation | 1971 |
| 97Z | 269 | N | Electricity Substation | 1994 |
| 98Z | 269 | N | Electricity Substation | 1991 |
| 99Z | 269 | N | Electricity Substation | 1986 |
| 100AA | 277 | S | Electricity Substation | 1991 |
| 101AA | 277 | S | Electricity Substation | 1983 |
| 102AB | 285 | N | Electricity Substation | 1955 |
| 103AB | 285 | N | Electricity Substation | 1991 |
| 104AB | 285 | N | Electricity Substation | 1986 |

Report Reference: GS-3300137



| | | | LOC | CATION INTELLIGENCE |
|-------|-----|----|------------------------|---------------------|
| 105AB | 285 | N | Electricity Substation | 1953 |
| 106AB | 285 | N | Electricity Substation | 1971 |
| 107AB | 285 | N | Electricity Substation | 1994 |
| 108AA | 290 | S | Electricity Substation | 1999 |
| 109AC | 295 | SE | Electricity Substation | 1953 |
| 110AC | 295 | SE | Electricity Substation | 1955 |
| 111AD | 306 | NW | Electricity Substation | 1971 |
| 112AD | 306 | NW | Electricity Substation | 1986 |
| 113AD | 306 | NW | Electricity Substation | 1991 |
| 114AD | 306 | NW | Electricity Substation | 1994 |
| 115AE | 359 | NE | Electricity Substation | 1994 |
| 116P | 371 | N | Electricity Substation | 1955 |
| 117P | 371 | N | Electricity Substation | 1953 |
| 118AE | 373 | NE | Electricity Substation | 1985 |
| 119AE | 373 | NE | Electricity Substation | 1991 |
| 120AE | 378 | NE | Electricity Substation | 1953 |
| 121V | 381 | N | Gas Board Depot | 1974 |
| 122AF | 389 | NW | Electricity Substation | 1970 |
| 123AG | 389 | SW | Electricity Substation | 1994 |
| 124AF | 389 | NW | Electricity Substation | 1990 |
| 125AG | 390 | SW | Electricity Substation | 1990 |
| 126AG | 390 | SW | Electricity Substation | 1991 |
| 127AG | 390 | SW | Electricity Substation | 1991 |
| 128AH | 390 | N | Electricity Substation | 1986 |
| 129AH | 390 | N | Electricity Substation | 1984 |
| 130AF | 390 | NW | Electricity Substation | 1992 |
| 131AF | 390 | NW | Electricity Substation | 1991 |
| 132AF | 390 | NW | Electricity Substation | 1971 |
| 133AH | 390 | N | Electricity Substation | 1994 |
| 134AH | 390 | N | Electricity Substation | 1955 |
| 135V | 406 | N | Gas Board Depot | 1955 |
| 136AI | 480 | S | Electricity Substation | 1953 |
| 137AI | 480 | S | Electricity Substation | 1994 |
| 138AJ | 492 | NE | Electricity Substation | 1991 |
| 139AJ | 493 | NE | Electricity Substation | 1985 |
| 140AJ | 493 | NE | Electricity Substation | |
| | | | | |

1.4 Additional Information - Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary:

0

Database searched and no data found.

Report Reference: GS-3300137



1.5 Additional Information - Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary:

49

| ID | Distance (m) | Direction | Use | Date |
|-------|--------------|-----------|--------|------|
| 141AK | 55 | S | Garage | 1999 |
| 142AK | 58 | S | Garage | 1991 |
| 143AK | 58 | S | Garage | 1967 |
| 144AK | 84 | S | Garage | 1955 |
| 145AK | 84 | S | Garage | 1953 |
| 146AK | 84 | S | Garage | 1962 |
| 147AL | 132 | S | Garage | 1955 |
| 148AL | 132 | S | Garage | 1967 |
| 149AL | 132 | S | Garage | 1962 |
| 150AL | 132 | S | Garage | 1953 |
| 151AL | 143 | S | Garage | 1991 |
| 152AL | 143 | S | Garage | 1983 |
| 153AL | 146 | S | Garage | 1999 |
| 154AM | 253 | S | Garage | 1991 |
| 155AM | 253 | S | Garage | 1983 |
| 156AM | 253 | S | Garage | 1967 |
| 157AM | 253 | S | Garage | 1962 |
| 158AM | 253 | S | Garage | 1953 |
| 159AM | 254 | S | Garage | 1999 |
| 160AM | 258 | S | Garage | 1955 |
| 161AN | 268 | NE | Garage | 1973 |
| 162AN | 268 | NE | Garage | 1967 |
| 163AN | 268 | NE | Garage | 1962 |
| 164AN | 269 | NE | Garage | 1995 |
| 165AN | 269 | NE | Garage | 1991 |
| 166AN | 269 | NE | Garage | 1978 |
| 167AN | 269 | NE | Garage | 1984 |
| 168AN | 269 | NE | Garage | 1979 |
| 169AN | 297 | NE | Garage | 1967 |
| 170AN | 297 | NE | Garage | 1994 |
| 171AN | 297 | NE | Garage | 1985 |
| 172AN | 297 | NE | Garage | 1991 |
| 173AN | 297 | NE | Garage | 1991 |
| 174AO | 316 | NE | Garage | 1985 |
| 175AO | 316 | NE | Garage | 1967 |

Report Reference: GS-3300137



| | | | | LOCATION INTELLIGENCE |
|-------|-----|----|--------|-----------------------|
| 176AO | 322 | NE | Garage | 1955 |
| 177AO | 323 | NE | Garage | 1953 |
| 178AP | 345 | E | Garage | 1967 |
| 179AP | 345 | E | Garage | 1962 |
| 180AQ | 374 | SE | Garage | 1973 |
| 181AQ | 374 | SE | Garage | 1995 |
| 182AQ | 374 | SE | Garage | 1991 |
| 183AQ | 385 | SE | Garage | 1979 |
| 184AQ | 387 | SE | Garage | 1984 |
| 185AQ | 387 | SE | Garage | 1978 |
| 186AQ | 387 | SE | Garage | 1983 |
| 187AQ | 387 | SE | Garage | 1991 |
| 188AR | 391 | S | Garage | |
| 189AR | 391 | S | Garage | |
| | | | | |

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site:

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

| ID | Distance(m) | Direction | Use | Date |
|-------|-------------|-----------|-----------|------|
| 190AS | 146 | NE | Air Shaft | 1920 |
| 191AT | 152 | NE | Air Shaft | 1948 |
| 192AS | 158 | NE | Air Shaft | 1957 |
| 193AT | 162 | Е | Tunnel | 1968 |
| 194A | 162 | Е | Tunnel | 1973 |
| 195A | 162 | Е | Tunnel | 1957 |
| 196AU | 201 | SE | Air Shaft | 1948 |
| 197AU | 203 | SE | Air Shaft | 1920 |
| 198AU | 204 | SE | Air Shaft | 1957 |
| 199H | 302 | SE | Tunnel | 1973 |
| 200H | 302 | SE | Tunnel | 1968 |
| 201H | 302 | SE | Tunnel | 1989 |
| 202H | 302 | SE | Tunnel | 1957 |
| 203AV | 321 | SE | Tunnels | 1957 |
| 204K | 323 | SE | Tunnel | 1973 |
| 205K | 323 | SE | Tunnel | 1968 |
| 206K | 323 | SE | Tunnel | 1989 |
| 207L | 342 | SE | Tunnels | 1957 |
| 208L | 345 | SE | Tunnel | 1973 |
| 209L | 345 | SE | Tunnel | 1968 |
| 210L | 345 | SE | Tunnel | 1989 |
| 211AW | 361 | SE | Tunnel | 1968 |
| 212N | 361 | SE | Tunnel | 1989 |
| 213N | 361 | SE | Tunnel | 1973 |

Report Reference: GS-3300137

Client Reference: 30161_65_Goldhurst_Terrace

17

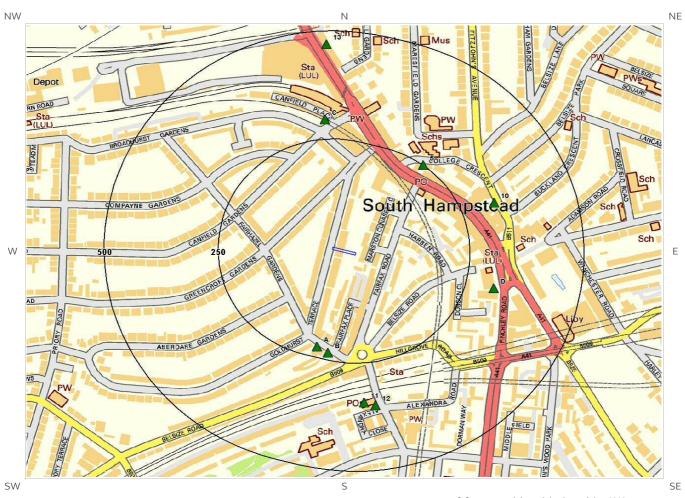
34



| 214AX | 361 | SE | Tunnel | 1957 |
|-------|-----|----|-----------|------|
| 215AY | 412 | S | Air Shaft | 1968 |
| 216AY | 412 | S | Air Shaft | 1948 |
| 217AY | 412 | S | Air Shaft | 1957 |
| 218AY | 415 | S | Air Shaft | 1920 |
| 219AZ | 475 | SE | Air Shaft | 1973 |
| 220AZ | 475 | SE | Air Shaft | 1968 |
| 221BA | 485 | N | Cuttings | 1866 |
| 222BB | 486 | N | Cuttings | 1957 |
| 223BC | 487 | N | Cuttings | 1866 |
| | | | | |



2. Environmental Permits, Incidents and Registers Map



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Report Reference: GS-3300137



2. Environmental Permits, **Incidents and Registers**

2.1 Industrial Sites Holding Licences and/or Authorisations

| Searches of information provided by the Environment Agency and Local Authorities reveal the formation: | ollowing |
|---|----------|
| 2.1.1 Records of historic IPC Authorisations within 500m of the study site: | |
| Database searched and no data found. | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site: | |
| | 0 |
| Database searched and no data found. | |
| 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters 500m of the study site: |) within |
| | 0 |
| Database searched and no data found. | |
| 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: | |
| | 0 |
| Database searched and no data found. | |
| 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: | 0 |
| Database searched and no data found. | Č |
| | |

Report Reference: GS-3300137



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

13

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

| ID | Distance (m) | Direction | NGR | Def | tails |
|----|-----------------|-----------|------------------|---|---|
| 1A | 227 | S | 526238 184135 | Address: Sqweaky Clean Professional Dry Cleaners, 13 Fairhazel Gardens, NW6 3QE Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 2A | 227 | S | 526238 184135 | Address: Swiss Dry Cleaners, 13 Fairhazel Gardens, NW6 3QE Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 3B | 236 | S | 526262 184120 | Address: Connoisseur Dry Cleaners, 3-5 Fairhazel Gardens Swiss Cottage, NW6 3QE Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 4B | 236 | S | 526262 184120 | Address: Connoisseur Dry Cleaners, 3-5 Fairhazel Gardens, Swiss Cottage, NW6 3QE Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 5 | 248 | NE | 526471 184554 | Address: BP Hampsted Connect, 104a Finchley Road, London, NW3 5EY Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 6C | 293 | N | 526256 184660 | Address: I.S. Dry Cleaners, 6 Canfield Gardens, London, NW6 3BS Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 7C | 293 | N | 526256 184660 | Address: I.S.Dry Cleaners, 6 Canfield Gardens, NW6 3BS Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 8D | 312 | E | 526625 184269 | Address: Swiss Cottage Dry Cleaners, 121 Finchley Road, NW3 6HY Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 9D | 312 | E | 526625 184269 | Address: Swiss Cottage Dry Cleaners, 121 Finchley Road, NW3 6HY Process: Dry Cleaning Status: Historical Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |

Report Reference: GS-3300137



| | | | | | EOCATION INTELLIGENCE |
|----|-----------------|-----------|------------------|---|---|
| ID | Distance (m) | Direction | NGR | De | tails |
| 10 | 323 | E | 526627 184467 | Address: Red Spot Dry Cleaners, 26 Northways Parade, College Crescent, N1 1ED Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 11 | 344 | S | 526342 184005 | Address: Masterclean , 6 Langtry Walk, London, NW8 0DU Process: Dry Cleaning Status: Revoked Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 12 | 352 | S | 526367 183999 | Address: Masterclean, 2 Langtry Walk, South Hampstead, NW8 0DU Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |
| 13 | 467 | N | 526259 184834 | Address: Executive Clean Dry Cleaners, 148 Finchley Road, NW3 5HS Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |

| 12 | 352 | S | 183999 | Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Notified Comment: No Enforcement No | |
|---------|-------------|------------------|------------------|--|--|-------|
| 13 | 467 | Ν | 526259 184834 | Address: Executive Clean Dry Cleaners, 148 Finchley Road, NW3 5HS Process: Dry Cleaning Status: Current Permit Permit Type: Part B | Enforcement: No Enforcement No Enforcement: No Enforcement: No Enforcement: No Enforcement No En | cemen |
| 2.1.7 R | ecords of (| Category : | 3 or 4 Radioac | tive Substances Authorisations: | | |
| | | | | | | 0 |
| | | | Databa | ase searched and no data found. | | |
| 2.1.8 R | ecords of I | _icensed [| Discharge Con | sents within 500m of the study site | : | |
| | | | | | | 0 |
| | | | | ase searched and no data found. | | |
| 2.1.9 R | ecords of \ | Nater Ind | ustry Referral | s (potentially harmful discharges to | o the public sewer) within | |

500m of the study site:

Database searched and no data found.

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

Database searched and no data found.

Report Reference: GS-3300137

Client Reference: 30161_65_Goldhurst_Terrace

0

0



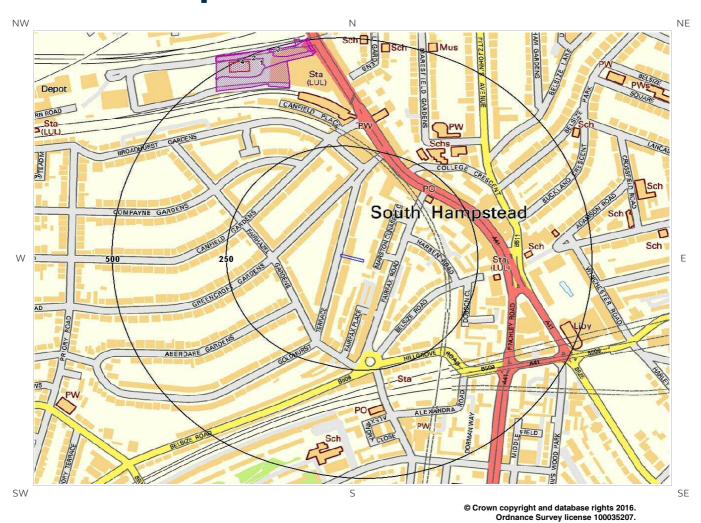
2.2 Dangerous or Hazardous Sites

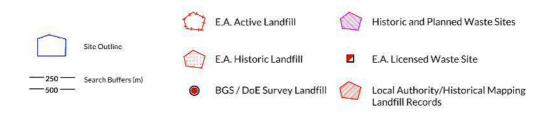
| Records of COMAH & NIHHS sites within 500m of the study site: | (|
|---|---|
| Database searched and no data found. | |
| 2.3 Environment Agency Recorded Pollution Incidents | |
| 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site: | |
| Database searched and no data found. | (|
| 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: | |
| Database searched and no data found. | (|
| 2.4 Sites Determined as Contaminated Land under Part 2A 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? | (|
| Database searched and no data found. | |
| | |

Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



3. Landfill and Other Waste Sites Map





Report Reference: GS-3300137



3. Landfill and Other Waste Sites

| | | | | | | _ |
|-----|--------|--------|----|----|-----|-----|
| 2 1 | 2 | \sim | -1 | | C i | tes |
| | .a | | | ш. | | |

| 3.1.1 Records from Environment Agency landfill data | within 1000m of the study | site: |
|---|---------------------------|-------|
|---|---------------------------|-------|

0

Database searched and no data found.

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

1

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|----|-----------------|-----------|------------------|--|--|
| 4 | 468 | NW | 526000 184800 | Site Address: Canfield Place, London NW6 Waste Licence: - Site Reference: DON009 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: - |

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

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

Report Reference: GS-3300137



3.2 Other Waste Sites

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

3

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

| ID | Distance (m) | Direction | NGR | | Details | |
|----|-----------------|-----------|------------------|--|--|---|
| 1 | 401 | N | 526109 184803 | Type of Site: Waste Transfer Station Site Address: N/A | Planning Application Reference: N/A Date: 1994 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 2 | 451 | NW | 526076 184811 | Type of Site: Refuse Transfer Depot Site Address: N/A | Planning Application Reference: N/A Date: 1986 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 3 | 461 | N | 526109 184831 | Type of Site: Refuse Transfer Depot Site Address: N/A | Planning Application Reference: N/A Date: 1970 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |

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

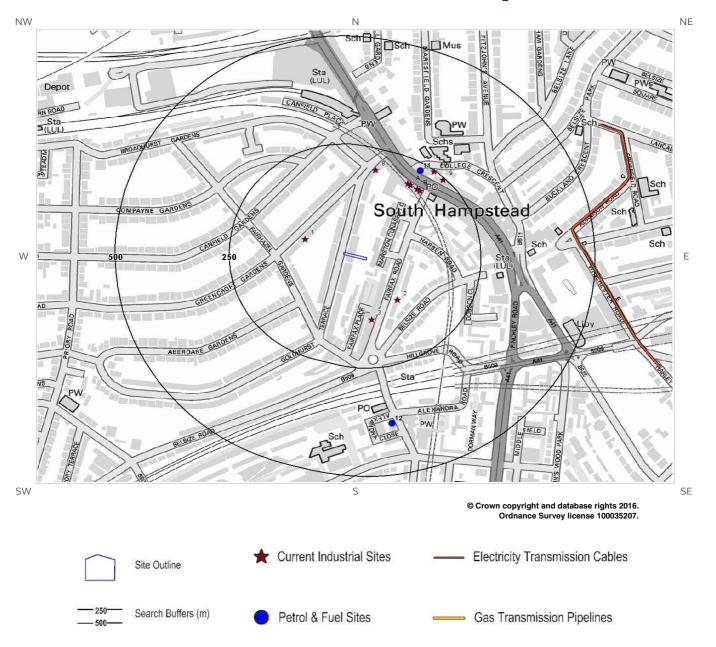
0

Database searched and no data found.

Report Reference: GS-3300137



4. Current Land Use Map



Report Reference: GS-3300137



4. Current Land Uses

4.1 Current Industrial Data

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

10

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

| ID | Distance (m) | Directio n | Company | NGR | Address | Activity | Category |
|----|-----------------|---------------|------------------------|------------------|---|--|-----------------------|
| 1 | 90 | W | Easaphone Services | 526188 184397 | 29a, Greencroft Gardens, London, NW6 3LN | Radar and Telecommunications Equipment | Industrial Products |
| 2 | 114 | SE | Anthony Rau | 526391 184256 | 38, Fairfax Road, London, NW6 4HA | Furniture | Consumer Products |
| 3 | 137 | S | Wooden Floors | 526334 184211 | 71-73, Fairfax Road, London, NW6 4EE | Construction Completion Services | Construction Services |
| 4A | 193 | NE | Specsavers Hearcare | 526418 184522 | 171, Finchley Road, London, NW3 6LB | Disability and Mobility Equipment | Consumer Products |
| 5B | 193 | NE | Taurus Beds | 526433 184513 | 167a, Finchley Road, London, NW3 6LB | Beds and Bedding | Consumer Products |
| 6A | 194 | NE | Specsavers Hearcare | 526413 184525 | 171a, Finchley Road, London, NW3 6LB | Disability and Mobility Equipment | Consumer Products |
| 7B | 194 | NE | Taurus Beds | 526439 184509 | 167, Finchley Road, London, NW3 6LB | Beds and Bedding | Consumer Products |
| 8 | 201 | N | Lanka | 526342 184556 | 9, Goldhurst Terrace, London, NW6 3HX | Baking and Confectionery | Foodstuffs |
| 9 | 246 | NE | Chimney Cake Bakers | 526490 184534 | 16, New College Parade, London, NW3 5EP | Baking and Confectionery | Foodstuffs |
| 10 | 249 | NE | Hampstead Connect | 526471 184554 | 104a, Finchley Road, London, NW3 5EY | Petrol and Fuel Stations | Road and Rail |

4.2 Petrol and Fuel Sites

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

2

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

| ID | Distance (m) | Directio n | NGR | Company | Address | LPG | Status |
|----|-----------------|---------------|------------------|---------|--|-----|--------|
| 11 | 233 | NE | 526441 184555 | ВР | Hampstead Service Station, 104A, Finchley Road, Finchley Road, Hampstead, London, Greater London, NW3 5EY | No | Open |

Report Reference: GS-3300137



| ID | Distance (m) | Directio n | NGR | Company | Address | LPG | Status |
|----|-----------------|---------------|------------------|---------|---|----------------|----------|
| 12 | 381 | S | 526379 183971 | Total | Boundary Road Service Station, 150, Loudon Road, Loudon Road, St Johns Wood, London, Greater London, NW8 0DH | Not Applicable | Obsolete |

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

12

The following Underground Electricity Transmission Cable records are represented as linear features on the Current Land Use map:

| ID | Distanc e (m) | Direction | 1 | Details |
|-----|------------------|-----------|---|--|
| 13C | 454 | Е | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |
| 14C | 454 | E | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD 2 Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 15C | 455 | E | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD 1 Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 16D | 455 | Е | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |
| 17C | 455 | Е | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |
| 18D | 456 | Е | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 19D | 457 | E | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD 1 Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 20D | 458 | E | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |

Report Reference: GS-3300137



| ID | Distanc e (m) | Direction | Detail | s |
|-----|------------------|-----------|---|--|
| 21E | 476 | E | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |
| 22E | 477 | Е | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD 2 Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 23E | 477 | E | Cable Set: - Cable Route: MILL HILL - ST JOHNS WOOD 1 Cable Make: - | Cable Type: DECOMMISSIONED Operating Voltage (kV): 275 Year of installation: - Cable in tunnel: - |
| 24E | 479 | Е | Cable Set: - Cable Route: - Cable Make: - | Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: - |

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site:

Database searched and no data found.

Report Reference: GS-3300137

Client Reference: 30161_65_Goldhurst_Terrace

0



5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

Database searched and no data found.

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

5.3 Bedrock and Solid Geology

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

| Lex Code | Description | Rock Type |
|-----------|-----------------------|---------------------|
| LC-CLSISA | LONDON CLAY FORMATION | CLAY, SILT AND SAND |

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

Report Reference: GS-3300137



6 Hydrogeology and Hydrology 6a. Aquifer Within Superficial Geology

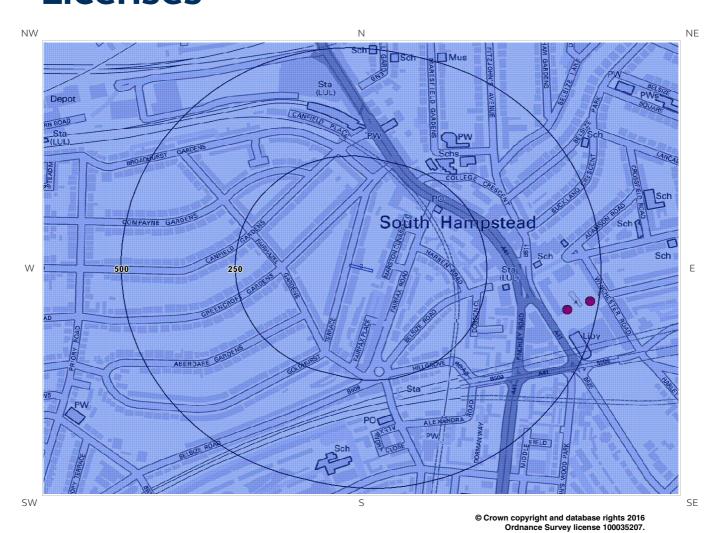




Report Reference: GS-3300137



6b. Aquifer Within Bedrock Geology and Abstraction Licenses

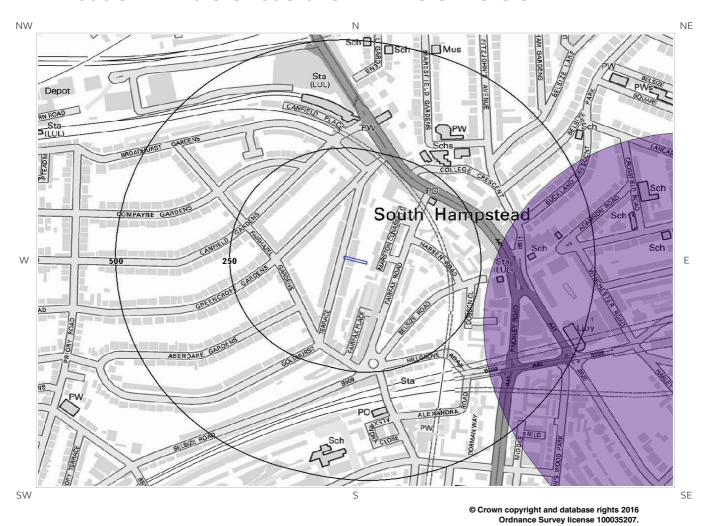


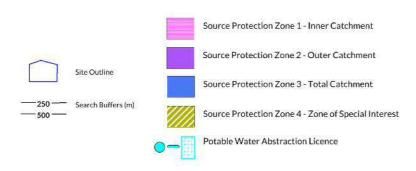


Report Reference: GS-3300137



6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



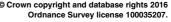


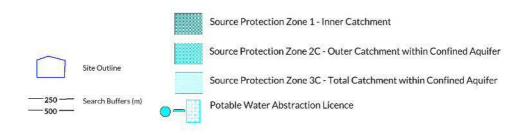
Report Reference: GS-3300137



6d. Hydrogeology – Source Protection Zones within confined aquifer



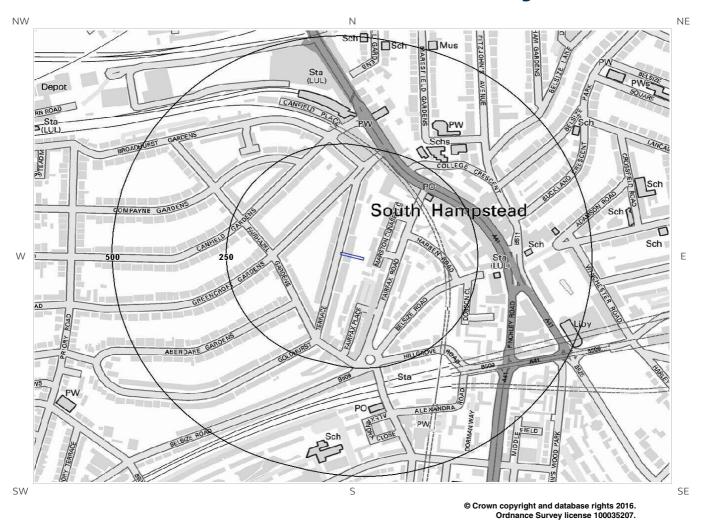


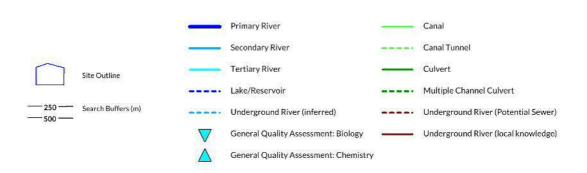


Report Reference: GS-3300137



6e. Hydrology – Detailed River Network and River Quality





Report Reference: GS-3300137



6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property?

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 Enviro Insight User Guide.

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification 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 Enviro Insight User Guide.

The following aguifer records are shown on the Aguifer within Bedrock Geology Map (6b):

| ID | Distanc e (m) | Direction | Designation | Description |
|----|------------------|-----------|--------------|---|
| 2 | 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 |

6.3 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 (6b):

| ID | Distanc e (m) | Direction | NGR | Det | ails |
|----|------------------|-----------|------------------|---|--|
| 4A | 436 | E | 526750 184261 | Status: Historical Licence No: TH/039/0039/087 Details: General Washing/Process Washing Direct Source: Thames Groundwater Point: Swiss Cottage Open Space- Borehole Data Type: Point Name: LONDON BOROUGH OF CAMDEN | Annual Volume (m³): 10512 Max Daily Volume (m³): 28.8 Original Application No: NPS/WR/014567 Original Start Date: 5/12/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 5/12/2013 Version End Date: |

Report Reference: GS-3300137



| | | | | | LOCATION INTELLIGENCE |
|--------------|------------------|-----------|------------------|--|--|
| ID | Distanc e (m) | Direction | NGR | Deta | ails |
| 5A | 436 | E | 526750 184261 | Status: Historical Licence No: TH/039/0039/087 Details: Spray Irrigation - Direct Direct Source: Thames Groundwater Point: Swiss Cottage Open Space- Borehole Data Type: Point Name: LONDON BOROUGH OF CAMDEN | Annual Volume (m³): 10512 Max Daily Volume (m³): 28.8 Original Application No: NPS/WR/014567 Original Start Date: 5/12/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 5/12/2013 Version End Date: |
| 6A | 436 | E | 526750 184261 | Status: Historical Licence No: TH/039/0039/087 Details: Lake & Pond Throughflow Direct Source: Thames Groundwater Point: Swiss Cottage Open Space- Borehole Data Type: Point Name: LONDON BOROUGH OF CAMDEN | Annual Volume (m³): 10512 Max Daily Volume (m³): 28.8 Original Application No: NPS/WR/014567 Original Start Date: 5/12/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 5/12/2013 Version End Date: |
| 7 | 482 | E | 526800 184280 | Status: Historical Licence No: 28/39/39/0219 Details: Spray Irrigation - Direct Direct Source: Thames Groundwater Point: Swiss Cottage Open Space- Borehole Data Type: Point Name: LONDON BOROUGH OF CAMDEN | Annual Volume (m³): 10512 Max Daily Volume (m³): 28.8 Original Application No: WRA/N/1407 Original Start Date: 12/8/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 1/4/2008 Version End Date: |
| Not shown | 1466 | SE | 527636 183697 | Status: Historical Licence No: TH/039/0039/058 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Barrow Hill Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: NPS/WR/009229 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 1/4/2013 Version End Date: |
| Not shown | 1472 | SE | 527640 183690 | Status: Historical Licence No: 28/39/39/0231 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barrow Hill Pumping Station - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: WRA/R/1026 Original Start Date: 1/4/2007 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 1/4/2007 Version End Date: |
| Not shown | 1472 | SE | 527640 183690 | Status: Historical Licence No: 28/39/39/0202 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barrow Hill Pumping Station - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: WRA/2/2(24) Original Start Date: 26/9/2002 Expiry Date: 31/3/2007 Issue No: 1 Version Start Date: 26/9/2002 Version End Date: |
| Not shown | 1926 | SE | 528000 183400 | Status: Historical Licence No: 28/39/39/0035 Details: Animal Watering & General Use in non Farming situations Direct Source: Thames Groundwater Point: Borehole At Regent's Park, London Nw1 Data Type: Point Name: ZOOLOGICAL SOCIETY OF LONDON | Annual Volume (m³): 681.9 Max Daily Volume (m³): 59 Original Application No: - Original Start Date: 4/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/4/1966 Version End Date: |

Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



6.4 Surface Water Abstraction Licences

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

No

Database searched and no data found.

6.5 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 (6c):

| ID | Distanc e (m) | Direction | NGR | Deta | ails |
|--------------|------------------|-----------|------------------|---|---|
| Not shown | 1466 | SE | 527636 183697 | Status: Active Licence No: TH/039/0039/058 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Barrow Hill Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: NPS/WR/009229 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: Version End Date: |
| Not shown | 1472 | SE | 527640 183690 | Status: Historical Licence No: 28/39/39/0231 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barrow Hill Pumping Station - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: WRA/R/1026 Original Start Date: 1/4/2007 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date: |
| Not shown | 1472 | SE | 527640 183690 | Status: Historical Licence No: 28/39/39/0202 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barrow Hill Pumping Station - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD | Annual Volume (m³): 631000 Max Daily Volume (m³): 2000 Original Application No: WRA/2/2(24) Original Start Date: 26/9/2002 Expiry Date: 31/3/2007 Issue No: 1 Version Start Date: Version End Date: |

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

Yes

The following Source Protection Zones records are represented on the SPZ and Potable Water Abstraction Map (6c):

| ID | Distanc e (m) | Direction | Zone | Description |
|----|------------------|-----------|------|-----------------|
| 1 | 269 | Е | 2 | Outer catchment |

Report Reference: GS-3300137



6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site?

Nο

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site?

No

Database searched and no data found.

| | Б. | | | |
|--------------------|------|-------------|-------------|------|
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| $oldsymbol{\circ}$ | IZIV | CI C | <i>c</i> uu | LILY |

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

No

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

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

No

Database searched and no data found.

Report Reference: GS-3300137



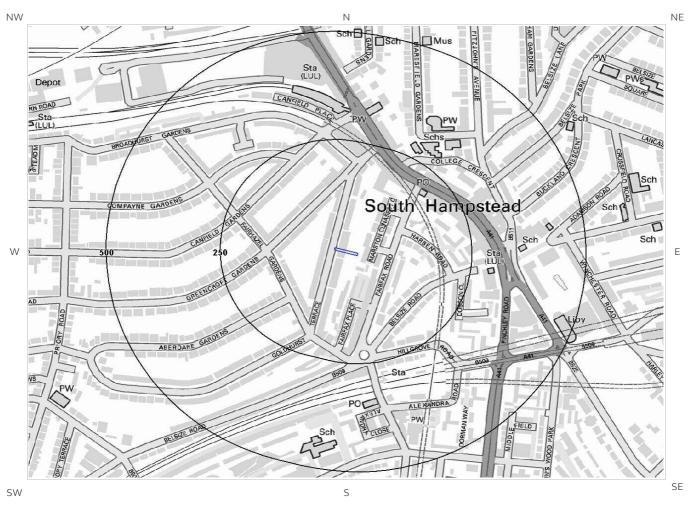
6.11 Surface Water Features

| Are there any surface water features within 250m of the study site? | No |
|---|----|
| Database searched and no data found. | |

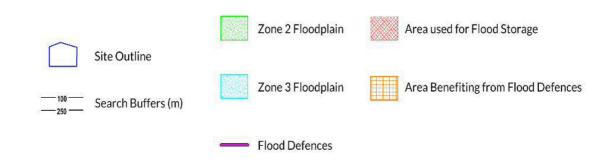
Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



7a. Environment Agency Flood Map for Planning (from rivers and the sea)



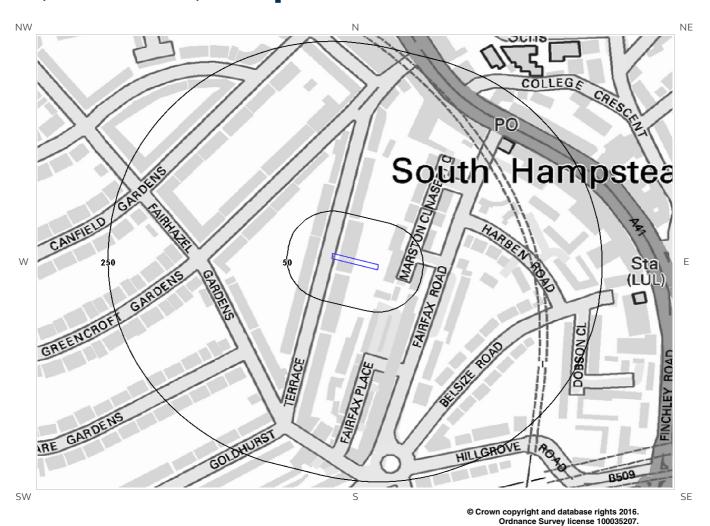
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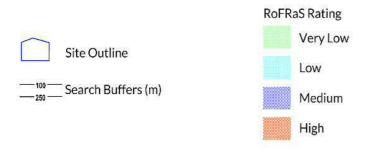


Report Reference: GS-3300137



7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map





Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain?

No

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency Zone 3 floodplain?

No

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a - Flood Map for Planning.

Database searched and no data found.

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite?

Very Low

The Environment Agency RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site?

Database searched and no data found.

No

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?

No

Report Reference: GS-3300137



7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site?

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

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

Not Prone

The area is not considered to be prone to groundwater flooding based on rock type.

7.8 Groundwater Flooding Confidence Areas

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

Not Applicable

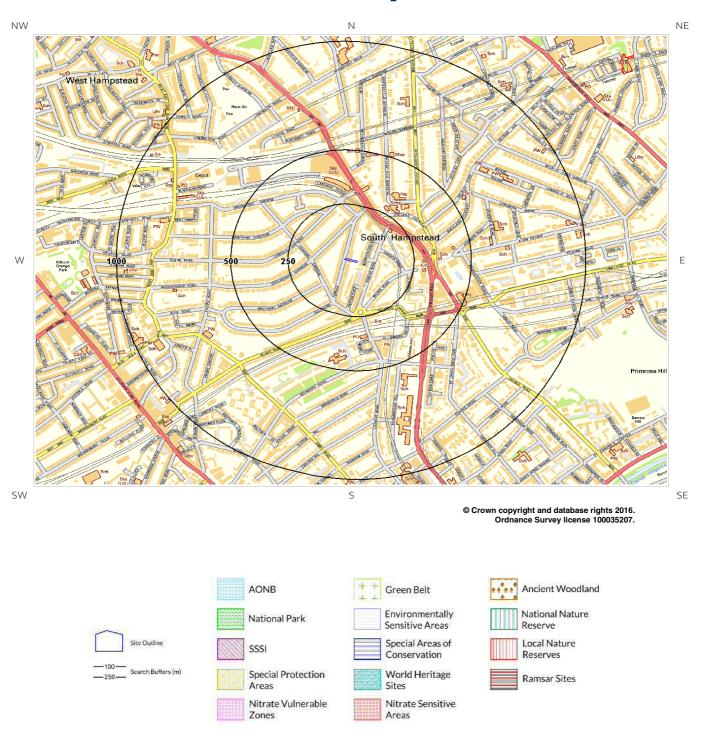
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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.

Report Reference: GS-3300137



8. Designated Environmentally Sensitive Sites Map



Report Reference: GS-3300137



8. Designated Environmentally Sensitive Sites

| Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? | Yes |
|--|-----------|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: | y |
| | C |
| Database searched and no data found. | |
| 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: | |
| Database searched and no data found. | C |
| 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study sit | e: |
| Database searched and no data found. | |
| 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: | |
| Database searched and no data found. | C |
| 8.5 Records of Ramsar sites within 2000m of the study site: | |
| Database searched and no data found. | С |

Report Reference: GS-3300137



8.6 Records of Ancient Woodland within 2000m of the study site:

| | | | Database searched and no data found. | 0 |
|-------------|-----------------|-------------|---|-------|
| 8.7 | Record | ls of Loca | l Nature Reserves (LNR) within 2000m of the study site: | |
| | | | | 3 |
| | | _ | cure Reserve (LNR) records provided by Natural England/Natural Resources gons on the Designated Environmentally Sensitive Sites Map: | Wales |
| ID | Distance (m) | Direction | LNR Name Data Source | 2 |
| 1 | 1449 | NE | Belsize Wood Natural Engla | nd |
| Not hown | 1501 | SE | St John's Wood Church Grounds Natural Engla | nd |
| Not hown | 1990 | NW | Westbere Copse Natural Engla | nd |
| 8.9 | Record | ls of Envir | Database searched and no data found. ronmentally Sensitive Areas within 2000m of the study site: | 0 |
| | IO Reco | | Database searched and no data found. eas of Outstanding Natural Beauty (AONB) within 2000m of the | e |
| | | | Database searched and no data found. | 0 |
| 8.1 | I1 Reco | rds of Nat | tional Parks (NP) within 2000m of the study site: | 0 |
| | | | Database searched and no data found. | |

Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



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

| | Database searched and no data found. | |
|--------------------|---|-------------|
| 3.13 Records of Ni | trate Vulnerable Zones within 2000m of the study site | |
| | | |
| | Database searched and no data found. | |
| .14 Records of Gr | een Belt land within 2000m of the study site: | |
| | Database searched and no data found. | |

Report Reference: GS-3300137 Client Reference: 30161_65_Goldhurst_Terrace



9. Natural Hazards Findings

9.1 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 Geo Insight**, available from **our website**. The following information has been found:

9.1.1 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.

9.1.2 Landslides

What is the maximum Landslide* 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

Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* 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

Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. 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.

Report Reference: GS-3300137

^{*} This indicates an automatically generated 50m buffer and site.



9.1.4 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.

9.1.5 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.

9.1.6 Running Sand

What is the maximum Running Sand** 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 running sand identified. 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.

9.2 Radon

9.2.1 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.

Report Reference: GS-3300137

Client Reference: 30161_65_Goldhurst_Terrace

51

^{*} This indicates an automatically generated 50m buffer and site.



9.2.2 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.

Report Reference: GS-3300137



10. Mining

10.1 Coal Mining

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

No

Database searched and no data found.

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary?

No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? Guidance: No Guidance Required.

No

Report Reference: GS-3300137



Contact Details

Groundsure Helpline

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Geological Survey

Environment

NATURAL ENVIRONMENT RESEARCH COUNCIL

British

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Web:www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:

enquiries@bgs.ac.uk

Environment Agency

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Email:enquiries@environment-agency.gov.uk

Public Health England

Public information access office Public Health England, Wellington House 133-155 Waterloo Road, London, SE1 8UG www.gov.uk/phe

Email:enquiries@phe.gov.uk Main switchboard: 020 7654 8000



Public Health England

The Coal Authority

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Report Reference: GS-3300137



Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.

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APPENDIX B

Site Plans

