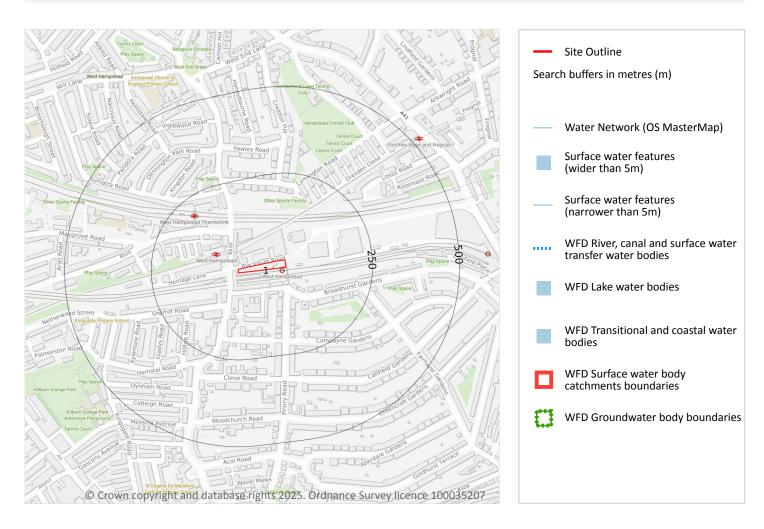


Grid ref: 525623 184680

# **6 Hydrology**



# **6.1 Water Network (OS MasterMap)**

Records within 250m 0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

#### **6.2 Surface water features**

Records within 250m

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.





Grid ref: 525623 184680

This data is sourced from the Ordnance Survey.

### **6.3 WFD Surface water body catchments**

Records on site 1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on page 59 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Manageme nt catchment
1	On site	Coastal Catchmen t	Not part of a river WB catchment	128	Land area part of London Management Catchment draining to the Tidal Thames	London

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 6.4 WFD Surface water bodies

Records identified 0

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 6.5 WFD Groundwater bodies

Records on site 0

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.





Grid ref: 525623 184680

# 7 River and coastal flooding

## 7.1 Risk of flooding from rivers and the sea

Records within 50m 0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

### 7.2 Historical Flood Events

Records within 250m 0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 7.3 Flood Defences

Records within 250m 0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.





**Grid ref**: 525623 184680

### 7.4 Areas Benefiting from Flood Defences

Records within 250m 0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

## **7.5 Flood Storage Areas**

Records within 250m 0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.





**Grid ref**: 525623 184680

# **River and coastal flooding - Flood Zones**

#### 7.6 Flood Zone 2

Records within 50m 0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

#### 7.7 Flood Zone 3

Records within 50m

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

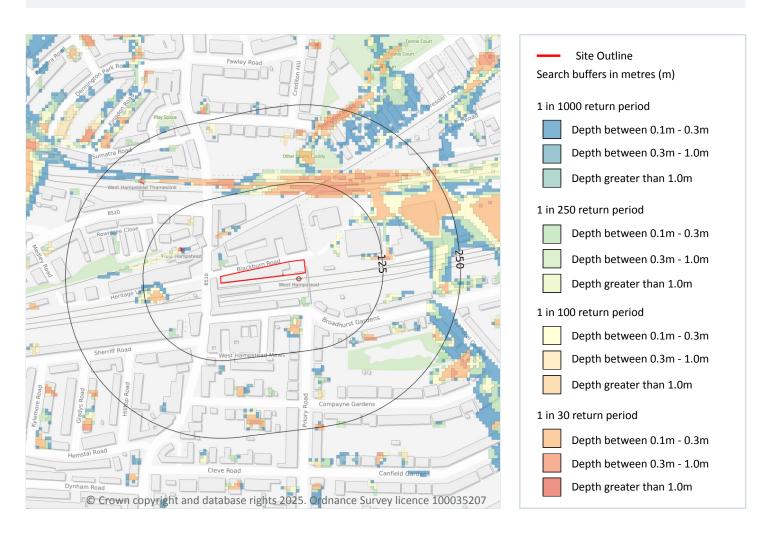
This data is sourced from the Environment Agency and Natural Resources Wales.





Grid ref: 525623 184680

# 8 Surface water flooding



## 8.1 Surface water flooding

Highest risk on site Negligible

#### Highest risk within 50m

1 in 100 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on page 64 >

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.





**Grid ref**: 525623 184680

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

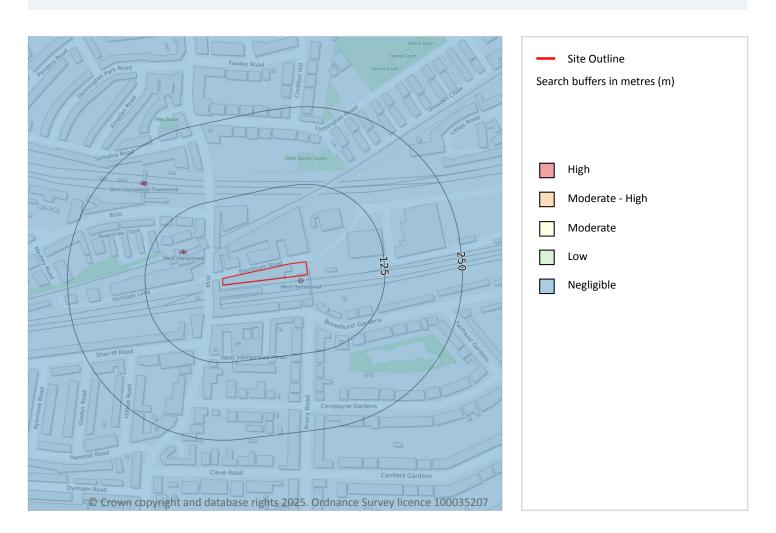
This data is sourced from Ambiental Risk Analytics.





**Grid ref**: 525623 184680

# 9 Groundwater flooding



## 9.1 Groundwater flooding

Highest risk on site Negligible

## Highest risk within 50m Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on page 66 >

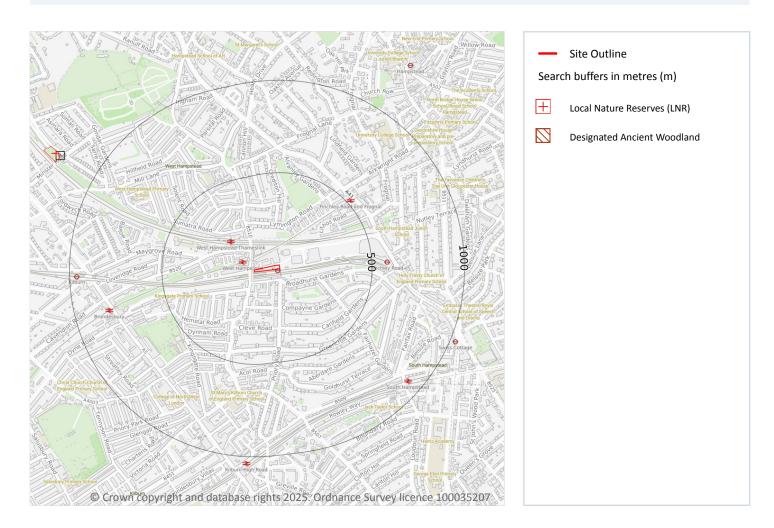
This data is sourced from Ambiental Risk Analytics.





**Grid ref**: 525623 184680

# 10 Environmental designations



## 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m 0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were renotified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

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Contact us with any questions at: Date: 23 January 2025



**Grid ref**: 525623 184680

0

### 10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### 10.3 Special Areas of Conservation (SAC)

Records within 2000m 0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

## 10.4 Special Protection Areas (SPA)

Records within 2000m 0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### 10.5 National Nature Reserves (NNR)

Records within 2000m 0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.





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## 10.6 Local Nature Reserves (LNR)

Records within 2000m 4

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on page 67 >

ID	Location	Name	Data source
А	1208m NW	Westbere Copse	Natural England
А	1217m NW	Westbere Copse	Natural England
-	1874m E	Belsize Wood	Natural England
-	1923m E	Adelaide	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

### 10.7 Designated Ancient Woodland

Records within 2000m 1

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on page 67 >

ID	Location	Name	Woodland Type
_	1996m N	Bishops Wood	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

## **10.8 Biosphere Reserves**

Records within 2000m 0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.





**Grid ref**: 525623 184680

#### **10.9 Forest Parks**

Records within 2000m 0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

#### 10.10 Marine Conservation Zones

Records within 2000m 0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

#### 10.11 Green Belt

Records within 2000m 0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

#### **10.12 Proposed Ramsar sites**

Records within 2000m 0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

#### 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m 0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.





**Grid ref**: 525623 184680

### 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m 0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

#### 10.15 Nitrate Sensitive Areas

Records within 2000m 0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

#### 10.16 Nitrate Vulnerable Zones

Records within 2000m 0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.





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# **SSSI Impact Zones and Units**



## **10.17 SSSI Impact Risk Zones**

Records on site 1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on page 72 >





**Grid ref**: 525623 184680

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals.  Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.  Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.  Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

### 10.18 SSSI Units

Records within 2000m 0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

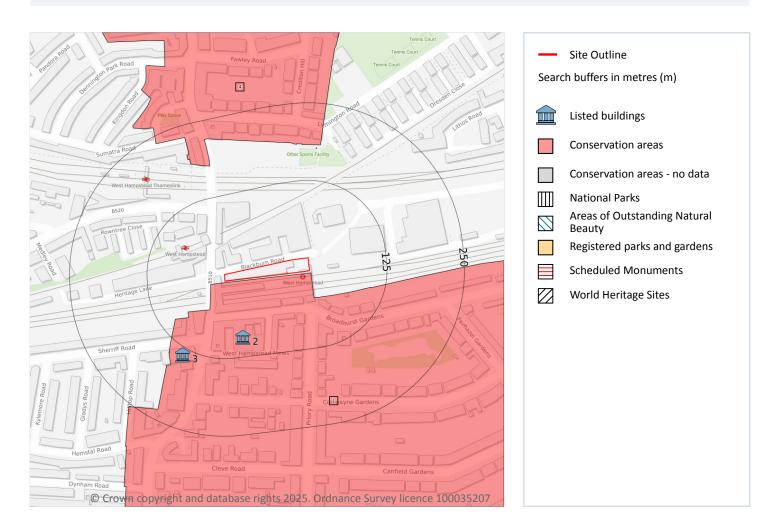
This data is sourced from Natural England and Natural Resources Wales.





Grid ref: 525623 184680

# 11 Visual and cultural designations



## 11.1 World Heritage Sites

#### Records within 250m 0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.





**Grid ref**: 525623 184680

## 11.2 Area of Outstanding Natural Beauty

Records within 250m 0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

#### 11.3 National Parks

Records within 250m 0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

## 11.4 Listed Buildings

Records within 250m 2

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on page 74 >

ID	Location	Name	Grade	Reference Number	Listed date
2	94m SW	Lilian Baylis House (Former Decca Recording Studios), Including Walls To Broadhurst Gardens	II	1475683	11/08/2021
3	137m SW	Church Of St James	II	1378657	11/01/1999

This data is sourced from Historic England, Cadw and Historic Environment Scotland.





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#### 11.5 Conservation Areas

Records within 250m 3

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on page 74 >

ID	Location	Name	District	Date of designation
1	2m W	South Hampstead	Camden	01/08/1988
4	176m NW	West End Green	Camden	17/03/1993
5	177m N	West End Green	Camden	17/03/1993

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

#### 11.6 Scheduled Ancient Monuments

Records within 250m 0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

### 11.7 Registered Parks and Gardens

Records within 250m 0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

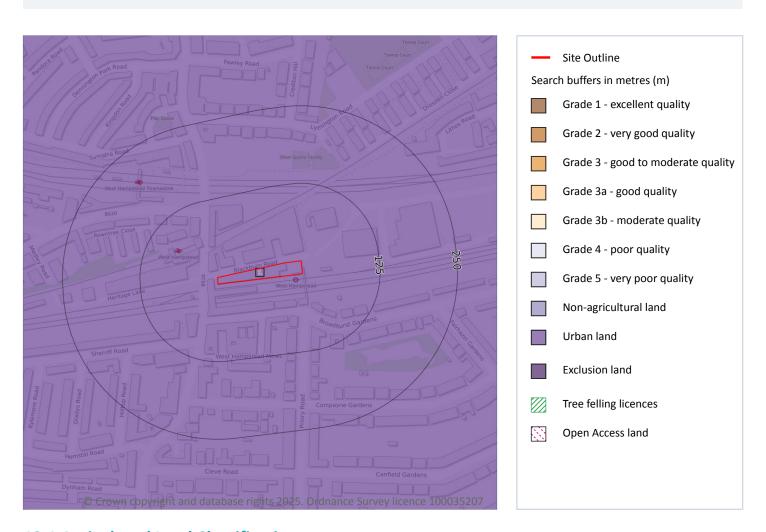
This data is sourced from Historic England, Cadw and Historic Environment Scotland.





**Grid ref**: 525623 184680

# 12 Agricultural designations



# 12.1 Agricultural Land Classification

## Records within 250m 1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on page 77 >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.





**Grid ref**: 525623 184680

### 12.2 Open Access Land

Records within 250m 0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

### **12.3 Tree Felling Licences**

Records within 250m 0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

## 12.4 Environmental Stewardship Schemes

Records within 250m 0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

### 12.5 Countryside Stewardship Schemes

Records within 250m 0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

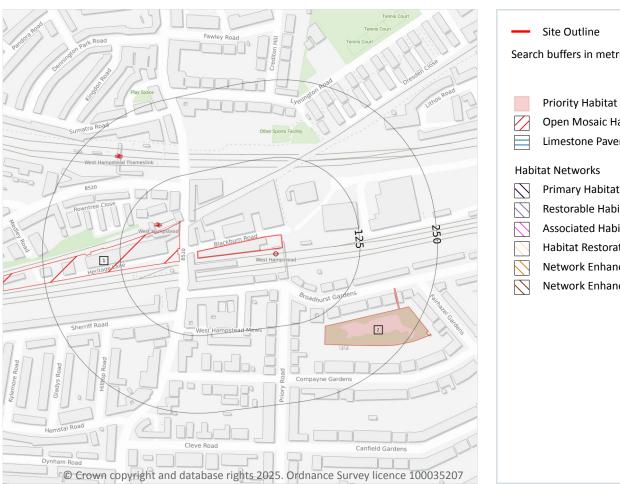
This data is sourced from Natural England.

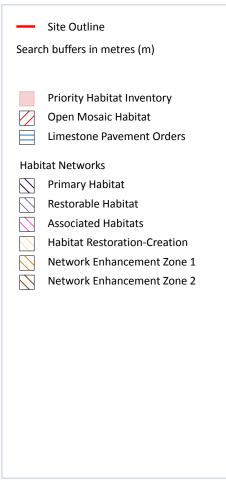




Grid ref: 525623 184680

# 13 Habitat designations





# **13.1 Priority Habitat Inventory**

Records within 250m 1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on page 79 >

ID	Location	Main Habitat	Other habitats
2	144m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.





**Grid ref**: 525623 184680

1

#### 13.2 Habitat Networks

Records within 250m 0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

### 13.3 Open Mosaic Habitat

Records within 250m

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on page 79 >

ID	Location	Site reference	Identificati on confidence	Primary source	Secondary source	Tertiary source
1	29m W	Land to west of West End Lane	Low	BugLife All Of A Buzz Data	National Land Use Database - Previously Developed Land	-

This data is sourced from Natural England.

#### 13.4 Limestone Pavement Orders

Records within 250m 0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.





**Grid ref**: 525623 184680

# 14 Geology 1:10,000 scale - Availability



# 14.1 10k Availability

Records within 500m 2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on page 81 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ28SE
2	300m N	Full	Full	Full	No coverage	TQ28NE

This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Geology 1:10,000 scale - Artificial and made ground

# 14.2 Artificial and made ground (10k)

Records within 500m 0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# Geology 1:10,000 scale - Superficial

## 14.3 Superficial geology (10k)

Records within 500m 0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

## 14.4 Landslip (10k)

Records within 500m 0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

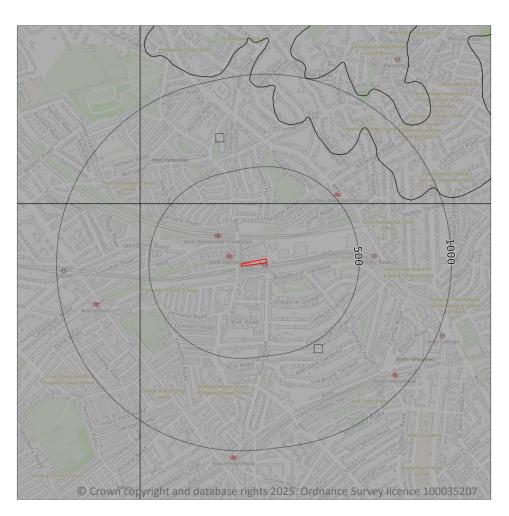
This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# Geology 1:10,000 scale - Bedrock



Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Site Outline

Bedrock geology (10k) Please see table for more details.

# 14.5 Bedrock geology (10k)

### Records within 500m 2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 84 >

ID	Location	LEX Code	Description	Rock age
1	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
_	011 0110	LC CLAI		

This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# 14.6 Bedrock faults and other linear features (10k)

Records within 500m 0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

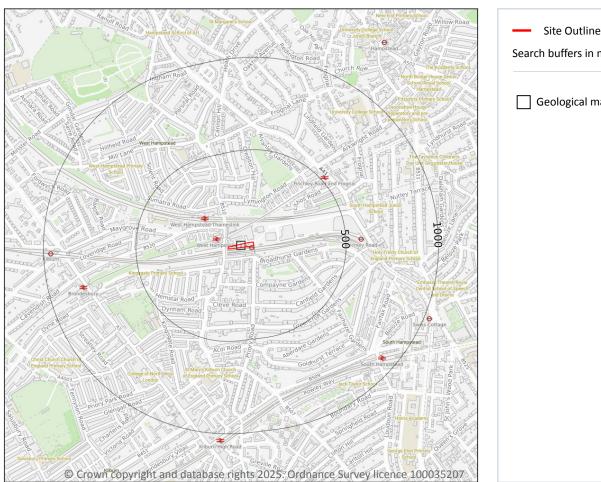
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# 15 Geology 1:50,000 scale - Availability



Search buffers in metres (m)
Geological map tile

# 15.1 50k Availability

Records within 500m

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 86 >

1	On site	Full	Full	Full	Full	EW256_north_london_v4
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.

This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Geology 1:50,000 scale - Artificial and made ground

## 15.2 Artificial and made ground (50k)

Records within 500m 0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

## 15.3 Artificial ground permeability (50k)

Records within 50m 0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# Geology 1:50,000 scale - Superficial

## 15.4 Superficial geology (50k)

Records within 500m 0

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

### 15.5 Superficial permeability (50k)

Records within 50m 0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

### 15.6 Landslip (50k)

Records within 500m 0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

## 15.7 Landslip permeability (50k)

Records within 50m 0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

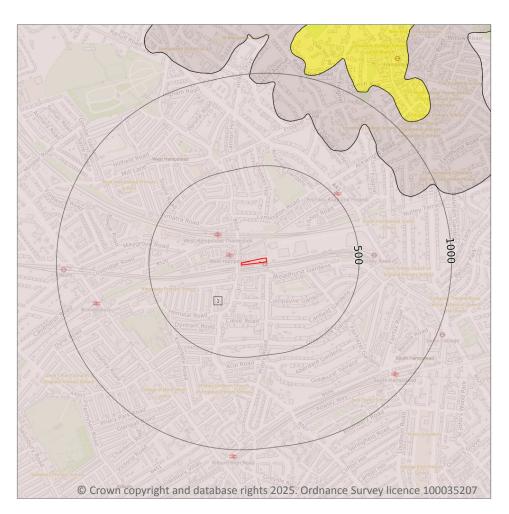
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Geology 1:50,000 scale - Bedrock



Site Outline
Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k) Please see table for more details.

# 15.8 Bedrock geology (50k)

#### Records within 500m

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 89 >

ID	Location	LEX Code	Description	Rock age
1	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

## 15.9 Bedrock permeability (50k)

Records within 50m

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

## 15.10 Bedrock faults and other linear features (50k)

Records within 500m 0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

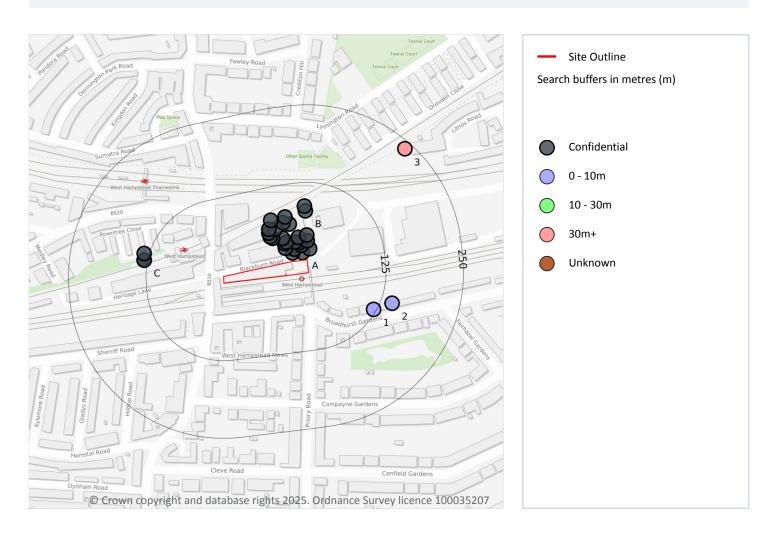
This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# 16 Boreholes



#### 16.1 BGS Boreholes

#### Records within 250m 31

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on page 91 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
А	13m NE	525675 184712	Blackburn Road BH1	-	Υ	N/A
А	14m NE	525659 184711	Blackburn Road WS4	-	Υ	N/A
А	18m NE	525687 184718	Blackburn Road TP14	-	Υ	N/A



## 14 BLACKBURN ROAD, LONDON, NW6 1RZ (3749)

Ref: GS-UJN-E15-8DJ-MIS

Your ref: 3749 Grid ref: 525623 184680

ID	Location	Grid reference	Name	Length	Confidential	Web link
				Length		
A	19m NE	525662 184717	Blackburn Road TP13	-	Y	N/A
A	23m NE	525648 184719	Blackburn Road TP6	-	Υ	N/A
А	24m NE	525673 184723	Blackburn Road WS8	-	Υ	N/A
Α	29m NE	525670 184728	Blackburn Road TP5A	-	Υ	N/A
Α	31m NE	525646 184726	Blackburn Road TP5	-	Υ	N/A
Α	31m NE	525683 184731	Blackburn Road TP11	-	Υ	N/A
Α	31m NE	525663 184729	Blackburn Road TP12	-	Υ	N/A
Α	33m NE	525649 184729	Blackburn Road TP9	-	Υ	N/A
Α	37m NE	525668 184736	Blackburn Road TP10	-	Υ	N/A
Α	40m NE	525682 184740	Blackburn Road WS5	-	Υ	N/A
Α	40m N	525643 184735	Blackburn Road TP3	-	Υ	N/A
Α	44m N	525627 184735	Blackburn Road TP2	-	Υ	N/A
Α	46m N	525623 184737	Blackburn Road WS2	-	Υ	N/A
Α	53m N	525621 184743	Blackburn Road TP1	-	Υ	N/A
А	56m N	525631 184749	Blackburn Road BH2	-	Υ	N/A
А	59m N	525621 184749	Blackburn Road WS1	-	Υ	N/A
А	61m N	525654 184758	Blackburn Road WS3	-	Υ	N/A
А	64m N	525644 184760	Blackburn Road WS7	-	Υ	N/A
Α	73m N	525624 184764	Blackburn Road TP4A	-	Υ	N/A
А	73m N	525647 184769	Blackburn Road TP4	-	Υ	N/A
В	79m NE	525680 184779	Blackburn Road WS6	-	Υ	N/A
В	87m NE	525678 184787	Blackburn Road BH3	-	Υ	N/A
1	121m E	525790 184620	BROADHURST GARDENS BH1	3.89	N	<u>592067</u> ∕
С	131m W	525420 184700	WEST HAMPSTEAD STATION WS2	-	Υ	N/A
С	131m W	525420 184700	WEST HAMPSTEAD STATION WS1	-	Υ	N/A
С	133m W	525420 184710	WEST HAMPSTEAD STATION WS3	-	Υ	N/A
2	144m E	525820 184630	BROADHURST GARDENS BH2	3.81	N	<u>592068</u> ⊅
3	238m NE	525840 184879	ELECTRIC LIGHT STATION HAMPSTEAD	177.09	N	<u>591530</u> ⊅

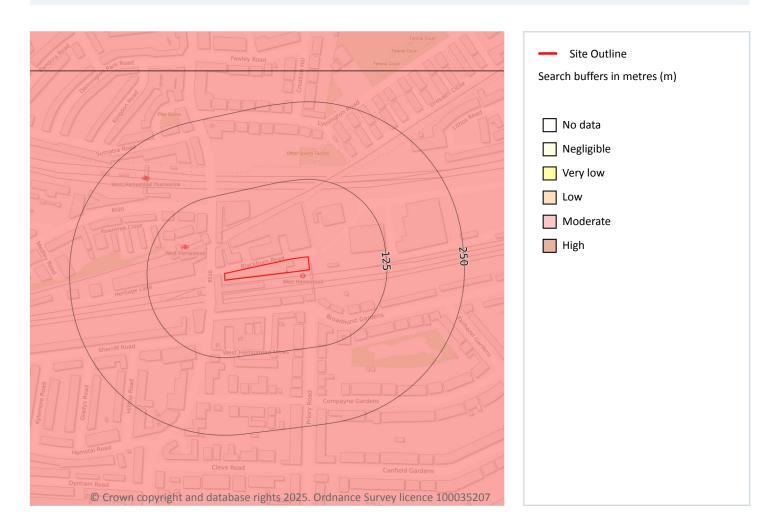
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# 17 Natural ground subsidence - Shrink swell clays



# 17.1 Shrink swell clays

Records within 50m 1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 93 >

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

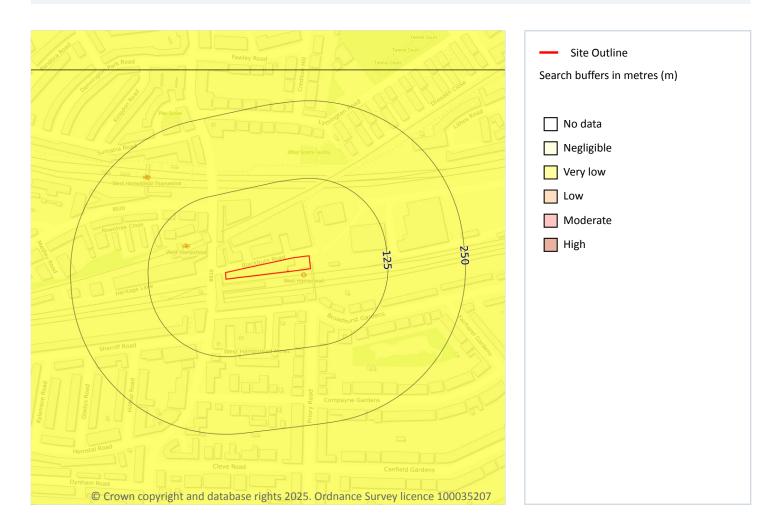
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Natural ground subsidence - Running sands



## **17.2** Running sands

Records within 50m 1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on page 94 >

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

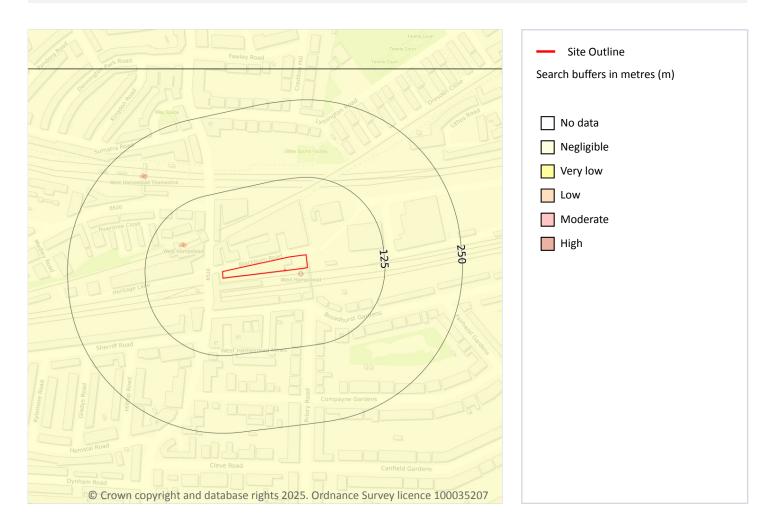
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

Records within 50m 1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 95 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

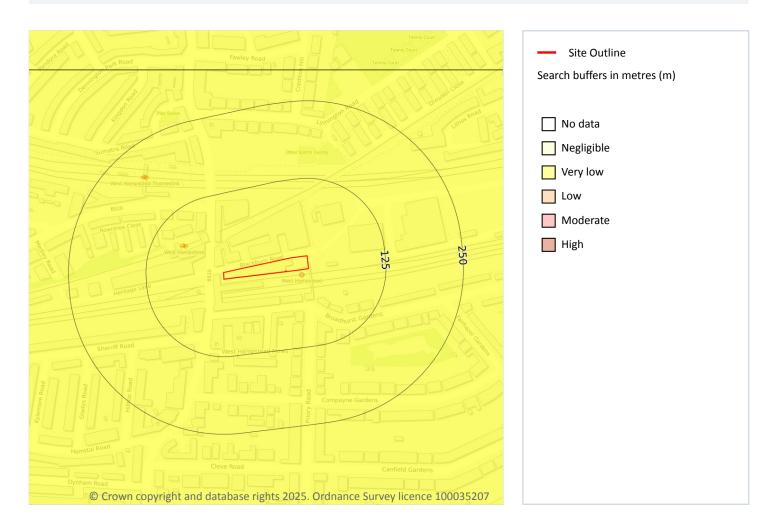
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Natural ground subsidence - Collapsible deposits



## **17.4 Collapsible deposits**

Records within 50m 1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 96 >

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

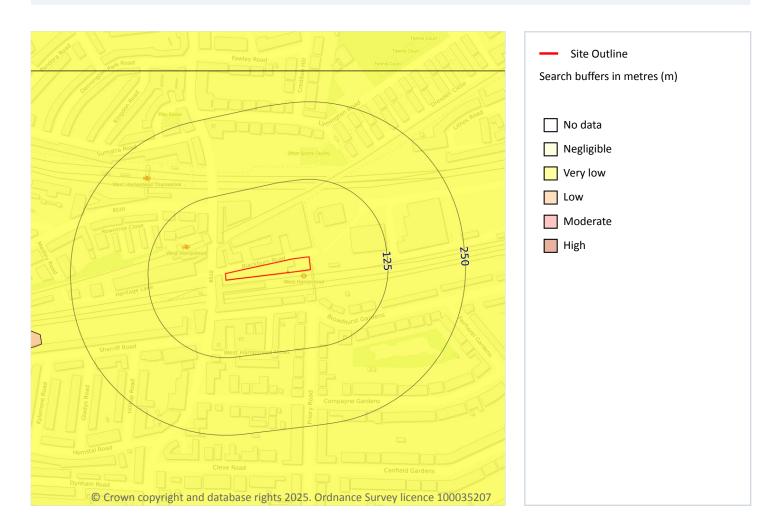
This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# **Natural ground subsidence - Landslides**



#### 17.5 Landslides

Records within 50m 1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on page 97 >

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

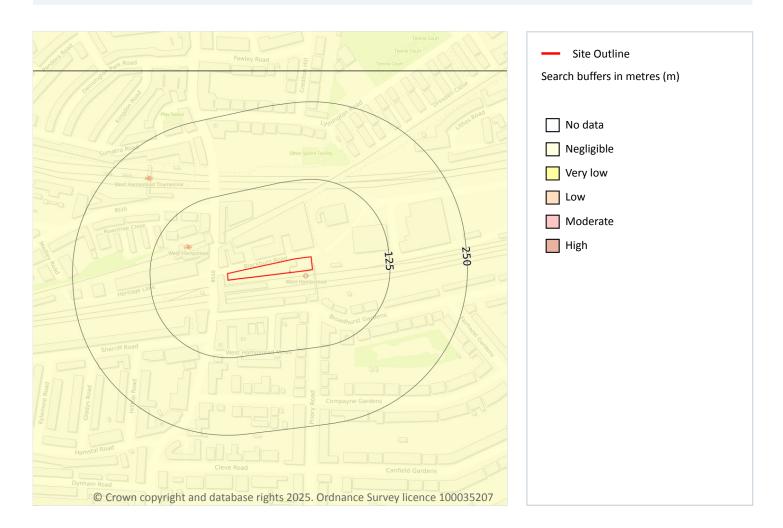
This data is sourced from the British Geological Survey.





**Grid ref**: 525623 184680

# Natural ground subsidence - Ground dissolution of soluble rocks



#### 17.6 Ground dissolution of soluble rocks

## Records within 50m 1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on <a href="mailto:page-98">page-98</a>

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.





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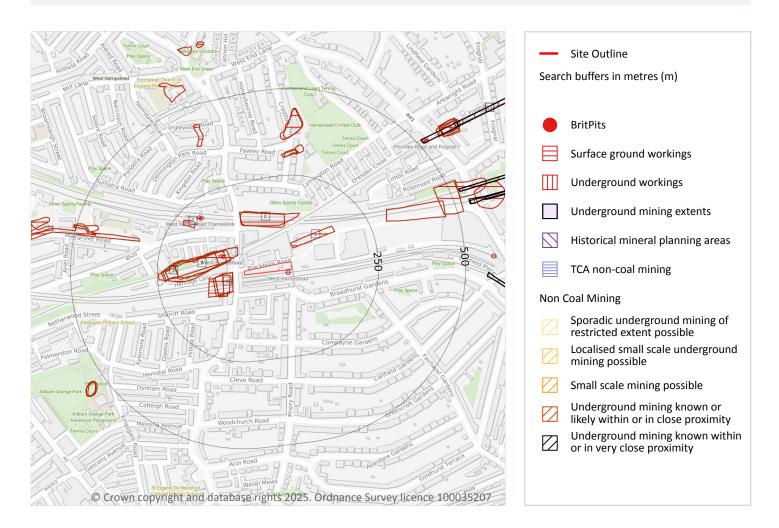
This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# 18 Mining and ground workings



#### 18.1 BritPits

Records within 500m 0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.







Grid ref: 525623 184680

#### 18.2 Surface ground workings

Records within 250m 14

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on page 100 >

ID	Location	Land Use	Year of mapping	Mapping scale
А	34m W	Cuttings	1973	1:10000
А	34m W	Cuttings	1968	1:10560
Α	34m W	Cuttings	1989	1:10000
1	40m NE	Cuttings	1874	1:10560
Α	41m W	Cuttings	1951	1:10560
В	49m W	Cuttings	1894	1:10560
В	50m W	Cuttings	1874	1:10560
В	58m W	Cuttings	1951	1:10560
А	63m W	Cuttings	1957	1:10560
В	77m W	Cuttings	1957	1:10560
С	102m N	Cuttings	1874	1:10560
С	108m N	Cuttings	1894	1:10560
2	191m NW	Cuttings	1874	1:10560
3	191m W	Cuttings	1920	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

## 18.3 Underground workings

Records within 1000m 29

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on page 100 >

ID	Location	Land Use	Year of mapping	Mapping scale
G	512m NE	Tunnel	1974	1:10000



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ID	Location	and Use Year of mapping		Mapping scale	
G	512m NE	Tunnel	1995	1:10000	
Н	527m NE	Tunnels	1968	1:10560	
Н	527m NE	Tunnels	1957	1:10560	
Н	527m E	Tunnels	1973	1:10000	
Н	527m E	Tunnels	1989	1:10000	
J	542m E	Tunnels	1973	1:10000	
J	542m E	Tunnels	1968	1:10560	
J	542m E	Tunnels	1989	1:10000	
	543m E	Tunnels	1957	1:10560	
J	563m E	Tunnel	1937	1:10000	
L					
L	563m E	Tunnel	1968	1:10560	
L	563m E	Tunnel	1957	1:10560	
10	587m E	Tunnel	1874	1:10560	
11	614m NE	Tunnel	1958	1:10560	
12	620m NE	Tunnel	1965	1:10560	
-	811m E	Air Shaft	1951	1:10560	
-	817m E	Air Shaft	1957	1:10560	
-	829m E	Air Shaft	1951	1:10560	
-	830m E	Air Shaft	1920	1:10560	
-	830m E	Air Shaft	1973	1:10000	
-	830m E	Air Shaft	1989	1:10000	
-	843m E	Tunnel	1965	1:10560	
-	843m E	Tunnel	1974	1:10000	
-	843m E	Tunnel	1995	1:10000	
-	843m E	Tunnel	1958	1:10560	
-	919m SE	Air Shaft	1951	1:10560	
-	922m SE	Air Shaft	1920	1:10560	
-	923m SE	Air Shaft	1957	1:10560	

This is data is sourced from Ordnance Survey/Groundsure.





Grid ref: 525623 184680

#### 18.4 Underground mining extents

Records within 500m 0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

#### 18.5 Historical Mineral Planning Areas

Records within 500m 0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

### 18.6 Non-coal mining

Records within 1000m 0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

#### 18.7 JPB mining areas

Records on site 0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

#### 18.8 The Coal Authority non-coal mining

Records within 500m 0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the



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Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

#### 18.9 Researched mining

Records within 500m

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

Location	Mineral type
485m E	Stone

This data is sourced from Groundsure.

#### **18.10** Mining record office plans

Records within 500m 0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

#### 18.11 BGS mine plans

Records within 500m

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

#### 18.12 Coal mining

Records on site 0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.



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#### 18.13 Brine areas

Records on site 0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

#### 18.14 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

## 18.15 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

#### 18.16 Clay mining

Records on site 0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).





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### 19 Ground cavities and sinkholes

#### 19.1 Natural cavities

Records within 500m 0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

#### 19.2 Mining cavities

Records within 1000m

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

#### 19.3 Reported recent incidents

Records within 500m

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

#### 19.4 Historical incidents

Records within 500m 0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



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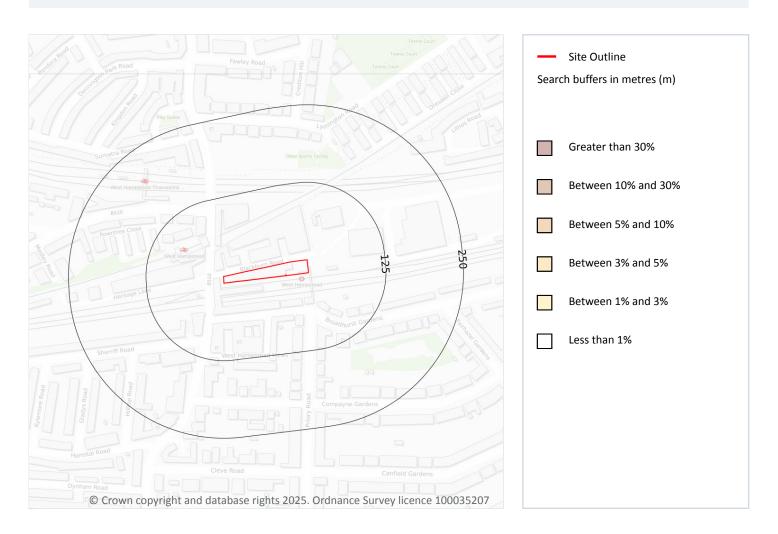
This data is sourced from Groundsure.





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## 20 Radon



#### 20.1 Radon

#### Records on site 1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on page 108 >

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None





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This data is sourced from the British Geological Survey and UK Health Security Agency.





Grid ref: 525623 184680

## 21 Soil chemistry

#### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m 2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	On site No data No data		No data	No data	No data	No data	No data
48m W	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

## 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m 7

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg )	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromiu m (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/k g)
On site	22	3.8	1117	767	1.3	90	119	40	47
On site	22	3.8	1570	1079	2	88	147	45	59
On site	22	3.8	1533	1053	2	88	147	45	60
15m NW	22	3.8	906	622	1.3	90	113	39	39
15m E	21	3.7	1581	1086	1.9	88	145	45	59
17m E	22	3.8	1548	1063	2	88	146	45	60
48m W	23	4	723	497	1	94	97	37	36





Grid ref: 525623 184680

This data is sourced from the British Geological Survey.

### 21.3 BGS Measured Urban Soil Chemistry

Records within 50m

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
8m E	21.7	2.2	87.6	157.9	47.0	1681.3	64.1	Topsoil

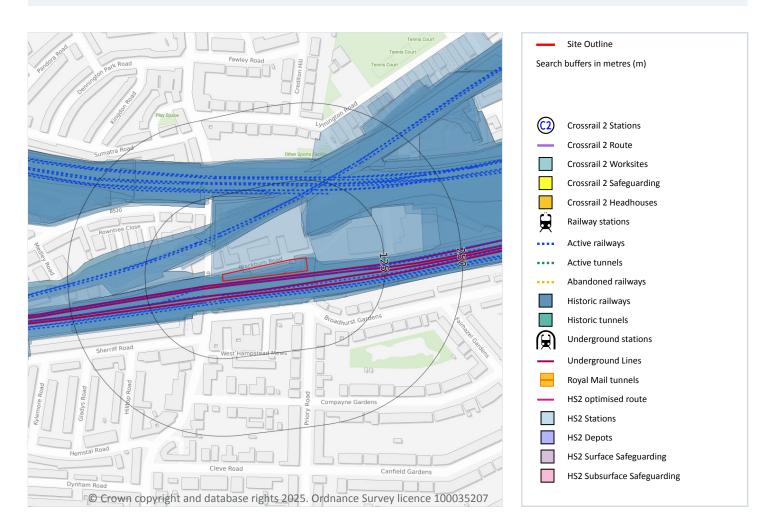
This data is sourced from the British Geological Survey.





Grid ref: 525623 184680

# 22 Railway infrastructure and projects



## 22.1 Underground railways (London)

Records within 250m 2

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

Features are displayed on the Railway infrastructure and projects map on page 112 >

Location	Line Name	Line Section	Track Type	Depth (m bgl)	Operational hours
10m S	Jubilee Line	Jubilee Line	Surface Track	0	Mon-Thu: Early 0500 Late 0111, Fri: Early 0523 then a 24h service until Sun, Sun: Late 0001
10m E	Metropolitan Line	Metropolitan Line	Surface Track	0	Mon-Sat: Early 0500 Late 0119, Sun: Early 0636 Late 0016





**Grid ref**: 525623 184680

This data is sourced from publicly available information by Groundsure.

#### 22.2 Underground railways (Non-London)

Records within 250m 0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

## 22.3 Railway tunnels

Records within 250m

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

## 22.4 Historical railway and tunnel features

Records within 250m 56

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on page 112 >

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1955	2500
On site	Railway Sidings	1953	1250
On site	Railway Sidings	1915	2500
On site	Railway Sidings	1935	2500
On site	Railway	1935	-
On site	Railway	1918	-
On site	Railway	1938	-
On site	Railway	1896	-
On site	Railway Sidings	1920	10560
On site	Railway Sidings	1973	10000
On site	Railway Sidings	1968	10560





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Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1989	10000
On site	Railway Sidings	1957	10560
On site	Railway Sidings	1951	10560
3m E	Railway	1894	-
11m E	Railway Sidings	1894	10560
13m E	Railway Sidings	1896	2500
34m W	Railway Sidings	1915	2500
34m W	Railway Sidings	1935	2500
36m NE	Railway Sidings	1874	10560
38m NE	Railway Sidings	1953	1250
38m NE	Railway Sidings	1974	1250
38m NE	Railway Sidings	1955	2500
39m NE	Railway Sidings	1871	2500
39m NE	Railway Sidings	1960	1250
50m W	Railway Sidings	1953	1250
50m W	Railway Sidings	1974	1250
66m NW	Railway Sidings	1896	2500
72m NW	Railway Sidings	1953	1250
72m NW	Railway Sidings	1960	1250
73m NW	Railway Sidings	1935	2500
76m NW	Railway Sidings	1915	2500
85m E	Railways	1930	-
86m E	Railways	1915	-
86m W	Railway Sidings	1985	1250
86m W	Railway Sidings	1991	1250
89m W	Railway Sidings	1955	2500
92m W	Railway Sidings	1994	1250
102m NE	Railway Sidings	1984	1250





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Location	Land Use	Year of mapping	Mapping scale
102m NE	Railway Sidings	1991	1250
102m NE	Railway Sidings	1992	1250
102m NE	Railway Sidings	1994	1250
134m N	Railway Sidings	1953	1250
155m NE	Railway Sidings	1871	2500
188m E	Railways	1939	-
188m E	Railways	1896	-
188m NW	Railway Sidings	1894	10560
191m NW	Railway Sidings	1874	10560
194m E	Railways	1870	-
205m NW	Railway Sidings	1871	2500
206m NW	Railway Sidings	1957	10560
209m NW	Railway Sidings	1896	2500
212m W	Railway Sidings	1920	10560
218m NW	Railway Sidings	1955	2500
219m NW	Railway Sidings	1953	1250
250m NE	Railway Sidings	1896	2500

This data is sourced from Ordnance Survey/Groundsure.

### 22.5 Royal Mail tunnels

Records within 250m 0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.





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#### **22.6 Historical railways**

Records within 250m 0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines

 ${\it This\ data\ is\ sourced\ from\ OpenStreetMap.}$ 

## 22.7 Railways

Records within 250m 73

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on <a href="mailto:page-112">page-112</a> >

Location	Name	Туре
7m W	Not given	Multi Track
8m E	Not given	Multi Track
9m E	Not given	Multi Track
23m SE	Not given	Single Track
23m E	Not given	Single Track
30m SE	Not given	Multi Track
31m SW	Chiltern Main Line	rail
31m SW	Chiltern Main Line	rail
33m W	Not given	Multi Track
34m SW	Chiltern Main Line	rail
35m SW	Chiltern Main Line	rail
38m W	Not given	Single Track
44m W	Not given	Single Track
44m W	Not given	Multi Track
46m SW	Chiltern Main Line	rail
47m SW	Not given	Multi Track
49m SW	Chiltern Main Line	rail
59m NW	North London line	rail





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Location	Name	Туре
60m W	North London line	rail
61m NW	North London line	rail
62m NW	North London line	rail
63m W	North London line	rail
65m W	Not given	Multi Track
66m NW	Not given	Multi Track
66m NW	North London line	rail
66m W	Not given	Multi Track
69m NW	Not given	Multi Track
70m NW	Not given	Multi Track
79m N	Not given	Multi Track
83m E	Not given	Multi Track
83m E	Not given	Single Track
85m W	Not given	Multi Track
98m N	North London line	rail
100m NE	North London line	rail
102m W	Not given	Single Track
103m NE	Not given	Multi Track
104m NE		rail
109m N		rail
109m W	Not given	Multi Track
109m NE		rail
109m N	Not given	Multi Track
112m NE	Not given	Multi Track
116m NE	Midland Main Line	rail
119m N	Not given	Multi Track
119m NE	Not given	Multi Track
119m NE	Midland Main Line	rail



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**Grid ref**: 525623 184680

LocationNameType125m NENot givenMulti Track125m NENot givenSingle Track126m Nrail	
125m NE Not given Single Track	
129m N Not given Multi Track	
130m N rail	
131m NW Not given Multi Track	
131m NW rail	
134m N Not given Multi Track	
139m NW Not given Multi Track	
140m N Not given Multi Track	
140m NE Not given Multi Track	
148m NW Midland Main Line rail	
149m NE rail	
149m NE Midland Main Line rail	
151m NW Not given Multi Track	
154m NW rail	
155m NW rail	
157m W Not given Multi Track	
159m NW Not given Multi Track	
160m NW Not given Multi Track	
161m NE Not given Multi Track	
163m NW Up Fast rail	
177m NE North London line rail	
178m NE North London line rail	
208m NE North London line rail	
234m NE rail	
241m W Not given Multi Track	

This data is sourced from Ordnance Survey and OpenStreetMap.





**Grid ref**: 525623 184680

0

#### 22.8 Crossrail 2

Records within 500m 0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

#### 22.9 HS2

Records within 500m

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.





Grid ref: 525623 184680

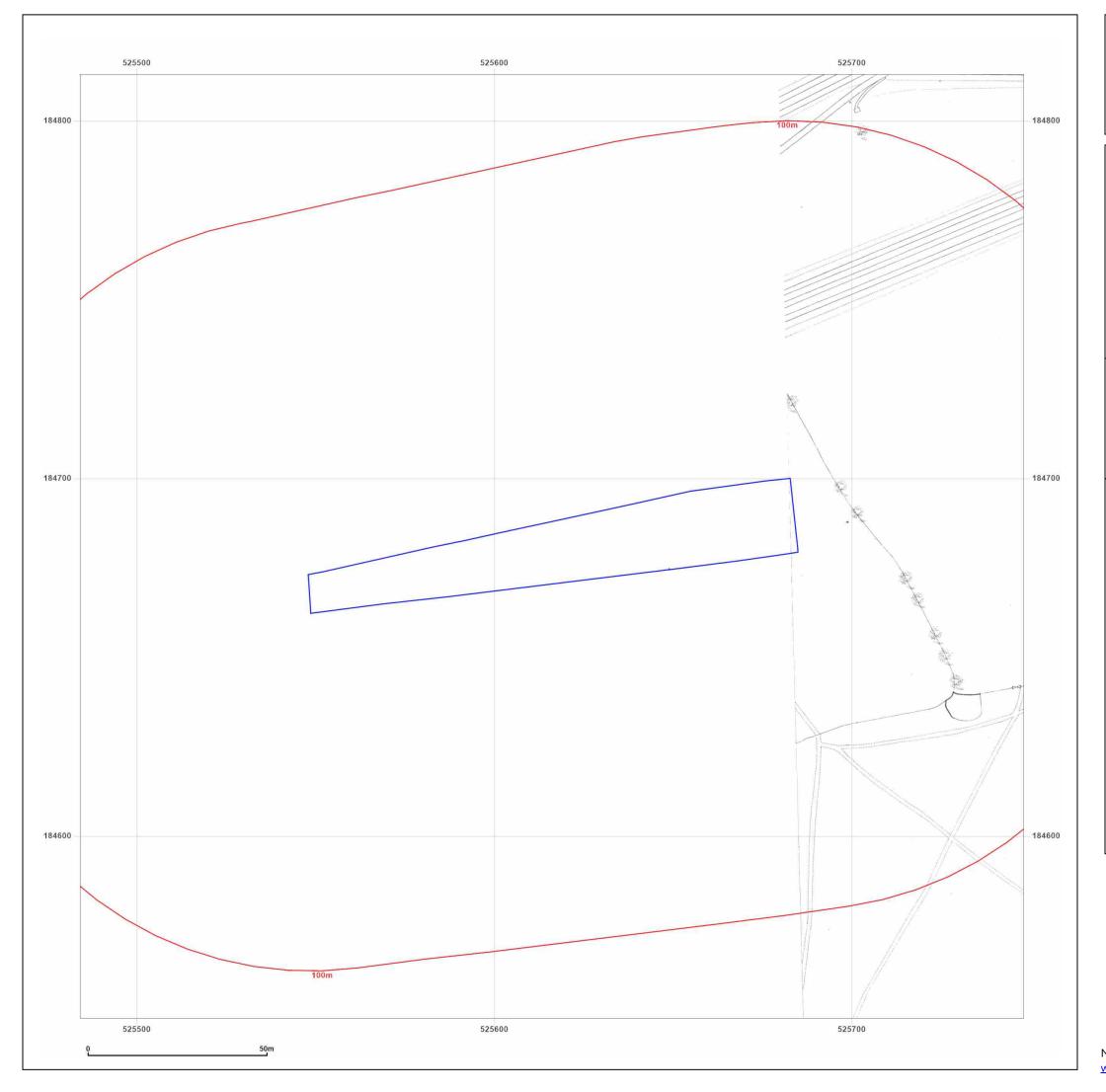
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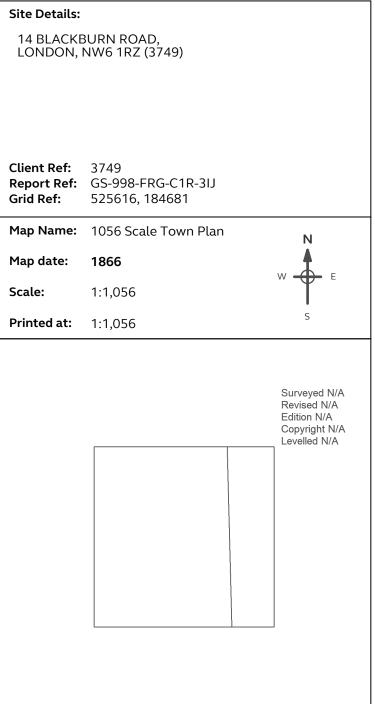
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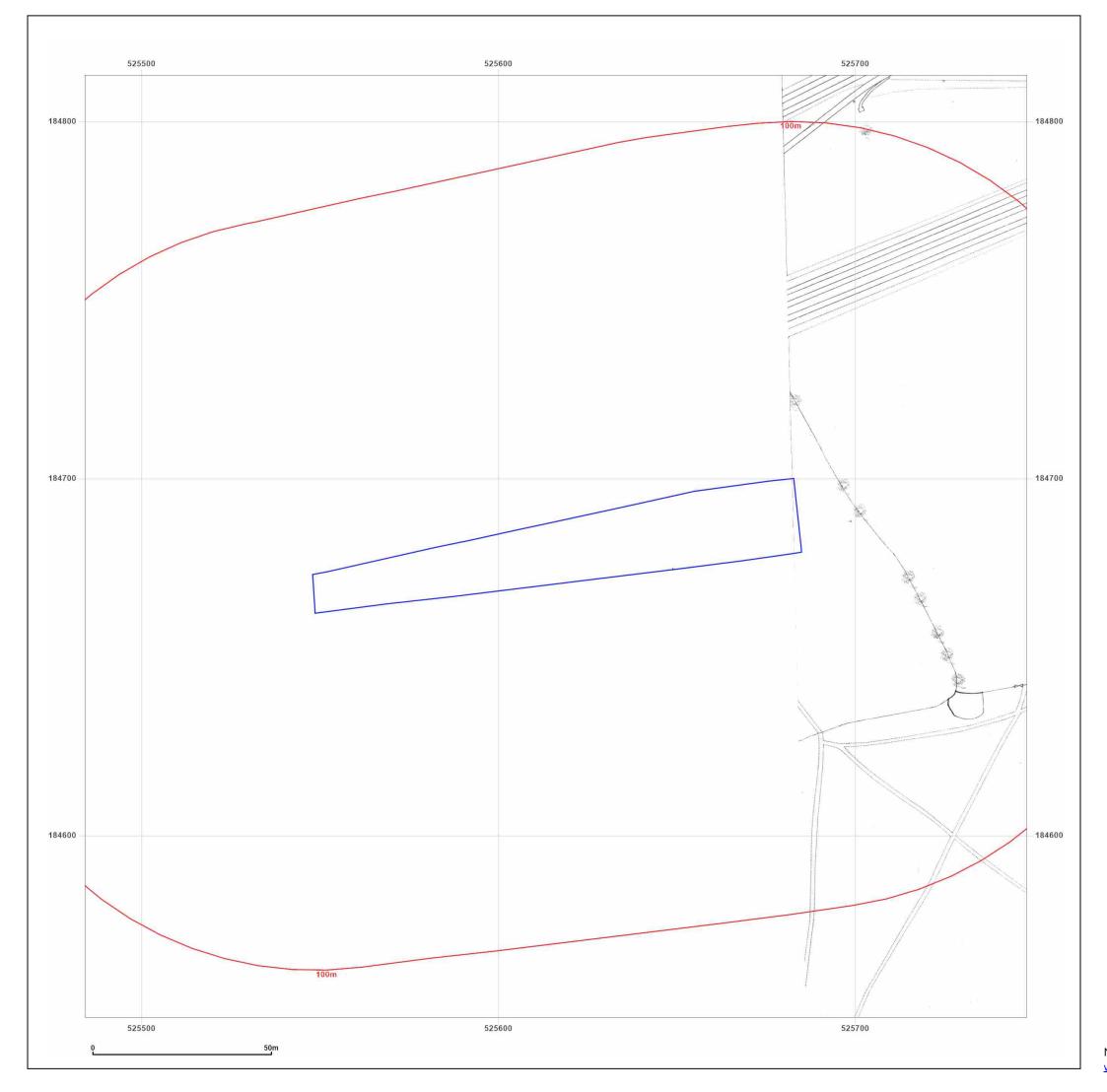
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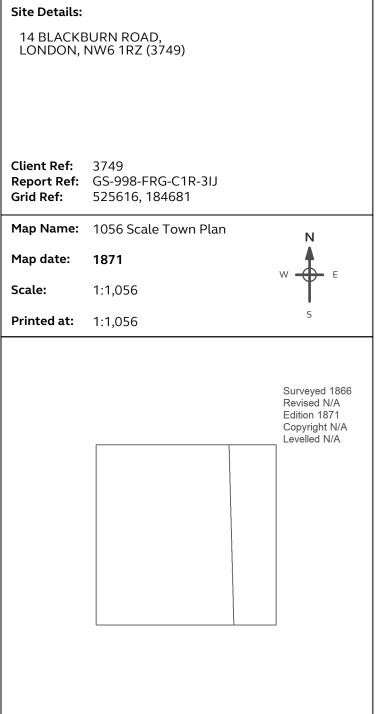
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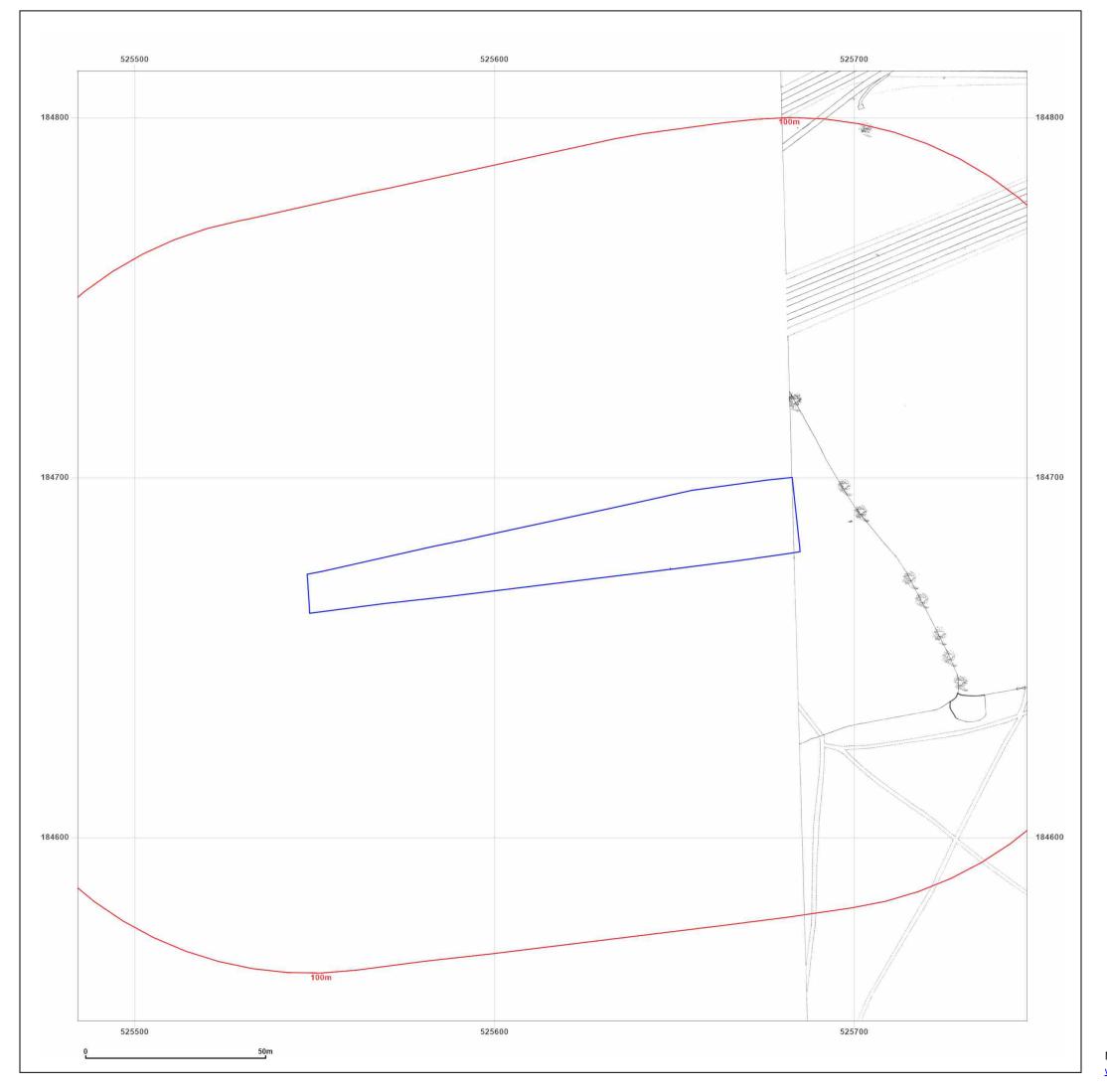
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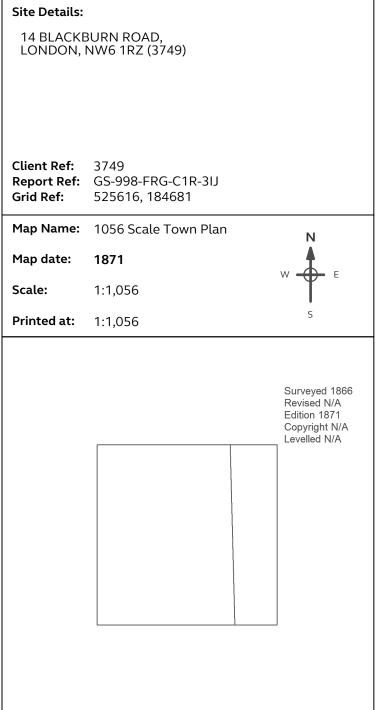
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