

Ref: HMD-377-7904188 **Your ref**: P3508JJ2313-1 **Grid ref**: 515551 171691

ID: -

Location: 1332m S

SSSI name: Bushy Park and Home Park

Unit name: East Bushy Park

Broad habitat: Acid Grassland - Lowland

Condition: Favourable

Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U1b,c,d,f)	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017

ID:

Location: 1382m S

SSSI name: Bushy Park and Home Park

Unit name: N.p.l Woodland

Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland

Condition: Unfavourable - Recovering

Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	28/02/2014
Population of veteran trees	Unfavourable - Recovering	28/02/2014

ID: 21

Location: 1508m SW

SSSI name: Bushy Park and Home Park

Unit name: West Bushy Park

Broad habitat: Acid Grassland - Lowland

Condition: Favourable

Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A2 wood decay	Favourable	16/06/2014
Lowland dry acid grassland (U4)	Favourable	16/06/2014
Population of veteran trees	Favourable	28/03/2017



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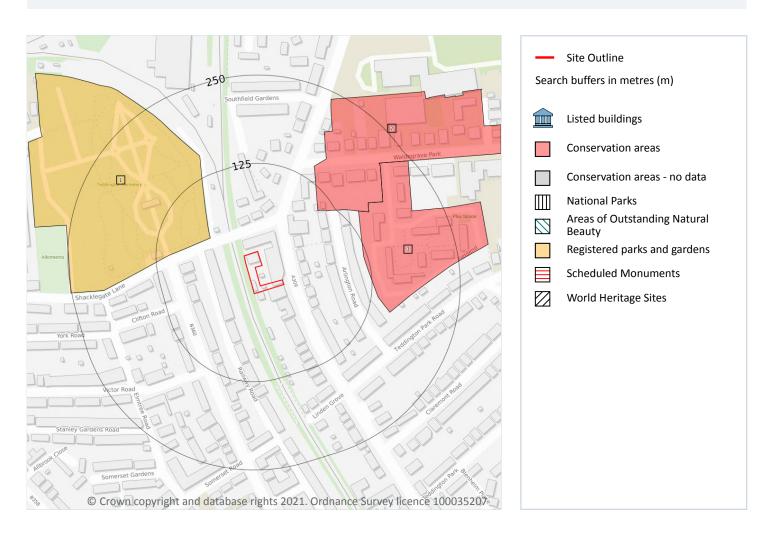
Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

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





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.





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 0

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.

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

11.5 Conservation Areas

Records within 250m 2

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 71

ID	Location	Name	District	Date of designation
2	103m NE	Waldegrave Park	Richmond upon Thames	29/07/1988
3	120m E	Fieldend	Richmond upon Thames	07/11/2005

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 1

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.

Features are displayed on the Visual and cultural designations map on page 71

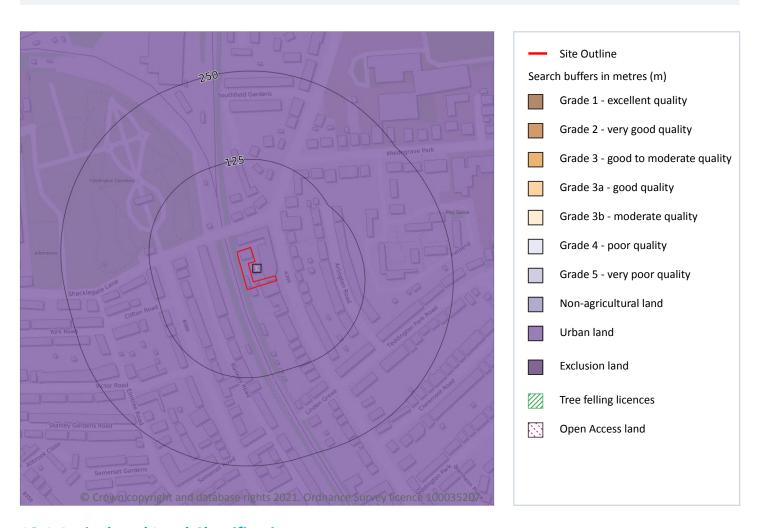
ID	Location	Name	Grade
1	54m NW	Teddington Cemetery	II

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





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 74

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.





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.

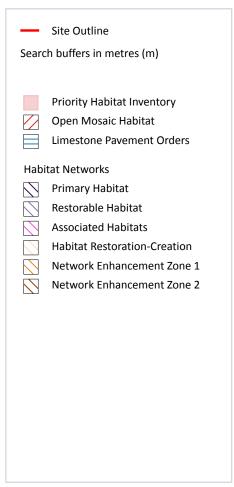
This data is sourced from Natural England.





13 Habitat designations





13.1 Priority Habitat Inventory

Records within 250m 10

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 76

ID	Location	Main Habitat	Other habitats
1	87m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	106m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	113m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	117m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)





ID	Location	Main Habitat	Other habitats
Α	117m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
В	137m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	141m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
В	155m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	172m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	218m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

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 0

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.

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.

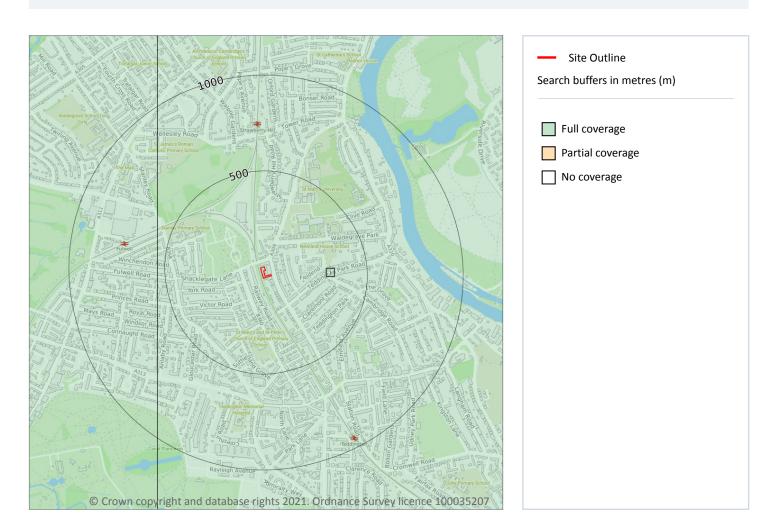
This data is sourced from Natural England.



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14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m 1

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 78

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	TQ17SE

This data is sourced from the British Geological Survey.





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



14.2 Artificial and made ground (10k)

Records within 500m 2

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.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on page 79

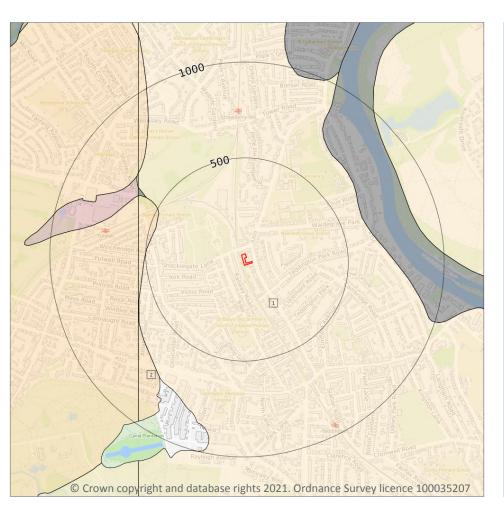
ID	Location	LEX Code	Description	Rock description
1	282m SW	WMGR-UKNOWN	Infilled Ground	Unknown/unclassified Entry
2	459m N	WMGR-UKNOWN	Infilled Ground	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.





Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

☑ Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m 2

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 80

ID	Location	LEX Code	Description	Rock description
1	On site	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel
2	469m W	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



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14.4 Landslip (10k)

Records within 500m 0

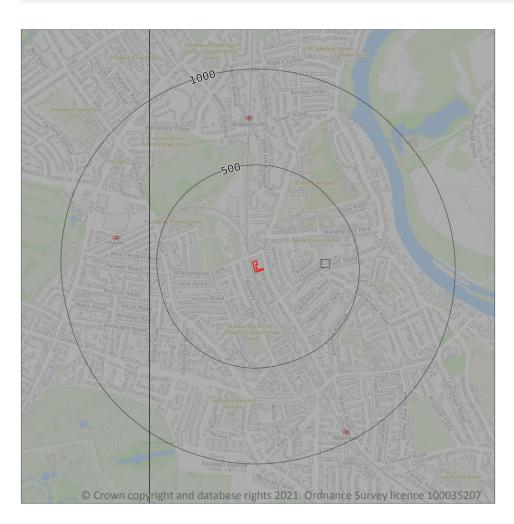
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.





Geology 1:10,000 scale - Bedrock



Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)

Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

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 82

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

This data is sourced from the British Geological Survey.





14.6 Bedrock faults and other linear features (10k)

Records within 500m 0

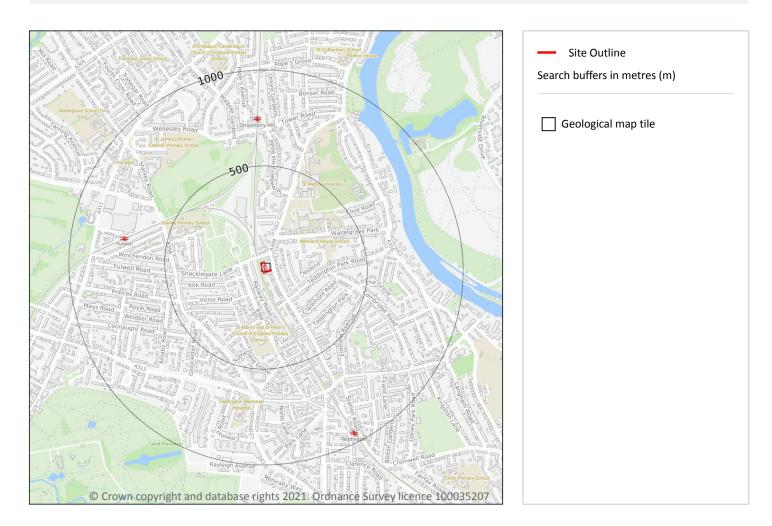
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.





15 Geology 1:50,000 scale - Availability



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 84

1	On site	Full	Full	Full	Full	EW270_south_london_v4
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.

This data is sourced from the British Geological Survey.





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



15.2 Artificial and made ground (50k)

Records within 500m 2

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 85

ID	Location	LEX Code	Description	Rock description
1	282m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	459m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



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15.3 Artificial ground permeability (50k)

Records within 50m 0

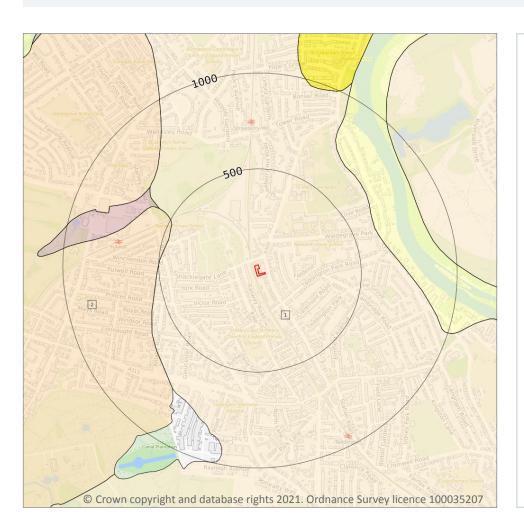
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.





Geology 1:50,000 scale - Superficial



Site Outline
Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m 2

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 87

ID	Location	LEX Code	Description	Rock description
1	On site	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
2	469m W	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL

This data is sourced from the British Geological Survey.





15.5 Superficial 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 any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

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.





Geology 1:50,000 scale - Bedrock



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-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN

This data is sourced from the British Geological Survey.





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	Low	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.





16 Boreholes

16.1 BGS Boreholes

Records within 250m 0

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.

This data is sourced from the British Geological Survey.





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 92

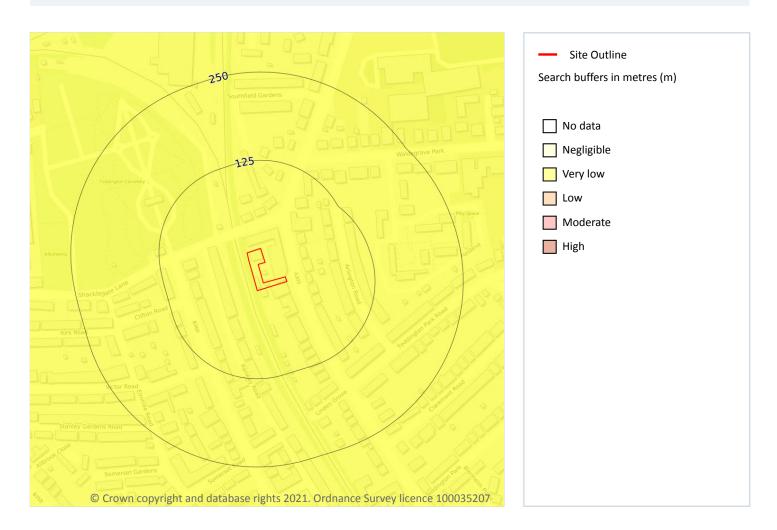
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.





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 93

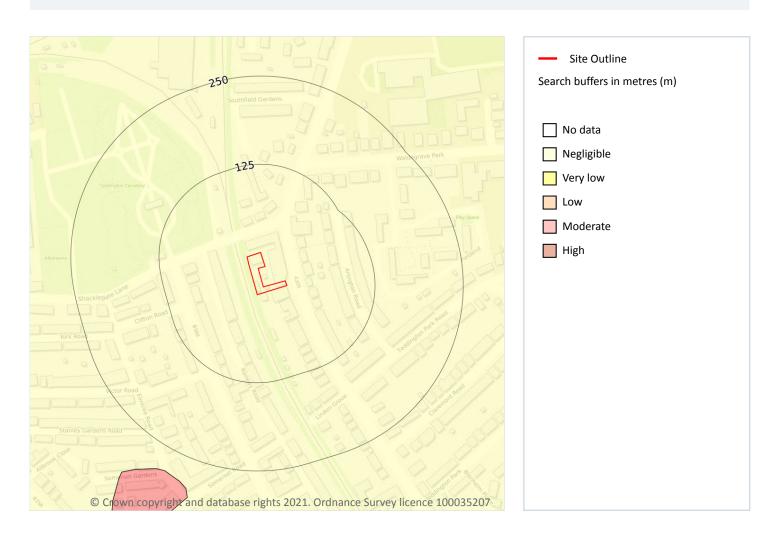
Loca	ation	Hazard rating	Details
On s	site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.





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 94

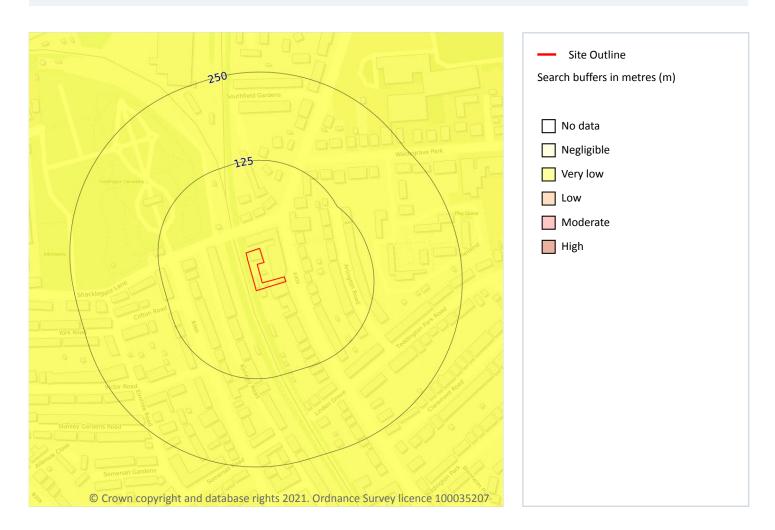
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.





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 95

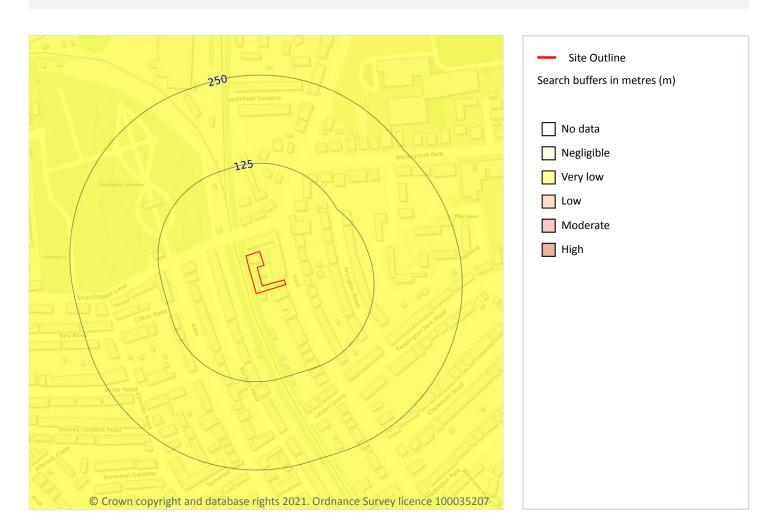
Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.





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 96

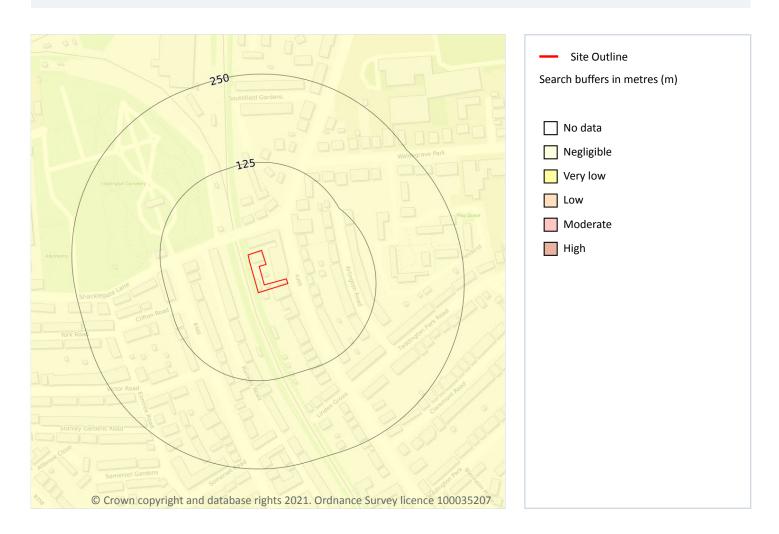
Locatio	n Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.





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 page 97

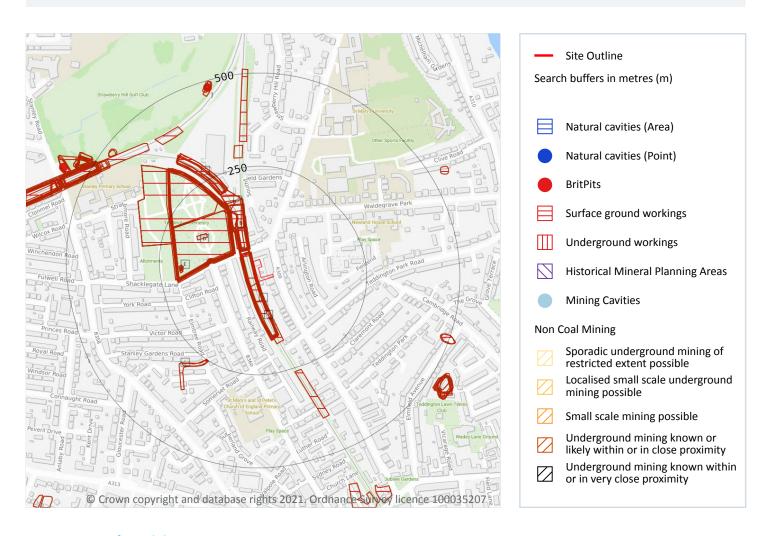
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.





18 Mining, ground workings and natural cavities



18.1 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.





18.2 BritPits

Records within 500m

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.

Features are displayed on the Mining, ground workings and natural cavities map on page 98

ID	Location	Details	Description
J	482m N	Name: Twickenham Common Sand Pit Address: TWICKENHAM, Surrey Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m 60

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, ground workings and natural cavities map on page 98

info@groundsure.com 08444 159 000

ID	Location	Land Use	Year of mapping	Mapping scale
Α	On site	Cuttings	1865	1:10560
Α	On site	Cuttings	1938	1:10560
Α	On site	Cuttings	1912	1:10560
Α	On site	Cuttings	1895	1:10560
Α	On site	Cuttings	1933	1:10560
Α	On site	Cuttings	1899	1:10560
Α	2m W	Cuttings	1894	1:10560
			1034	1.10500
А	2m W	Cuttings	1894	1:10560
A	2m W			
		Cuttings	1894	1:10560





Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

ID	Location	Land Use	Year of mapping	Mapping scale
А	4m W	Cuttings	1938	1:10560
А	4m W	Cuttings	1913	1:10560
А	4m W	Cuttings	1913	1:10560
А	4m W	Cuttings	1913	1:10560
В	33m N	Cuttings	1913	1:10560
В	34m N	Cuttings	1899	1:10560
В	35m N	Cuttings	1865	1:10560
В	37m N	Cuttings	1895	1:10560
С	38m N	Cuttings	1938	1:10560
С	38m N	Cuttings	1912	1:10560
В	39m N	Cuttings	1933	1:10560
В	40m N	Cuttings	1894	1:10560
В	45m NW	Cuttings	1948	1:10560
1	51m S	Cuttings	1894	1:10560
D	51m NW	Cemetery	1895	1:10560
D	51m NW	Cemetery	1899	1:10560
D	53m NW	Cemetery	1894	1:10560
D	54m W	Cemetery	1913	1:10560
D	55m NW	Cemetery	1934	1:10560
D	55m W	Cemetery	1913	1:10560
D	56m NW	Cemetery	1894	1:10560
D	56m NW	Cemetery	1938	1:10560
D	56m NW	Cemetery	1913	1:10560
D	57m NW	Cemetery	1933	1:10560
D	57m NW	Cemetery	1966	1:10560
D	57m NW	Cemetery	1991	1:10000
D	57m NW	Cemetery	1973	1:10000
D	60m NW	Cemetery	1938	1:10560



Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

ID	Location	Land Use	Year of mapping	Mapping scale
D	60m NW	Cemetery	1912	1:10560
D	62m NW	Cemetery	1938	1:10560
D	63m NW	Cemetery	1948	1:10560
В	99m NW	Pond	1895	1:10560
В	100m NW	Pond	1894	1:10560
В	102m NW	Pond	1894	1:10560
D	138m NW	Mortuary	1913	1:10560
Е	186m W	Mortuary	1933	1:10560
Е	188m W	Mortuary	1934	1:10560
Е	188m W	Mortuary	1938	1:10560
Е	188m W	Mortuary	1913	1:10560
Е	188m W	Mortuary	1913	1:10560
Е	189m W	Mortuary	1938	1:10560
Е	190m W	Mortuary	1913	1:10560
Е	191m W	Mortuary	1938	1:10560
Е	191m W	Mortuary	1912	1:10560
F	199m NW	Cuttings	1913	1:10560
F	199m NW	Cuttings	1913	1:10560
F	200m NW	Cuttings	1913	1:10560
F	202m NW	Cuttings	1938	1:10560
F	204m NW	Cuttings	1933	1:10560
G	250m SW	Unspecified Ground Workings	1894	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

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, ground workings and natural cavities map on page 98



Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

ID	Location	Land Use	Year of mapping	Mapping scale
-	869m W	Tunnel	1865	1:10560
-	871m W	Tunnel	1913	1:10560

This is data is sourced from Ordnance Survey/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 Mining cavities

Records within 1000m 0

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.

18.8 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.



Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

Records on site

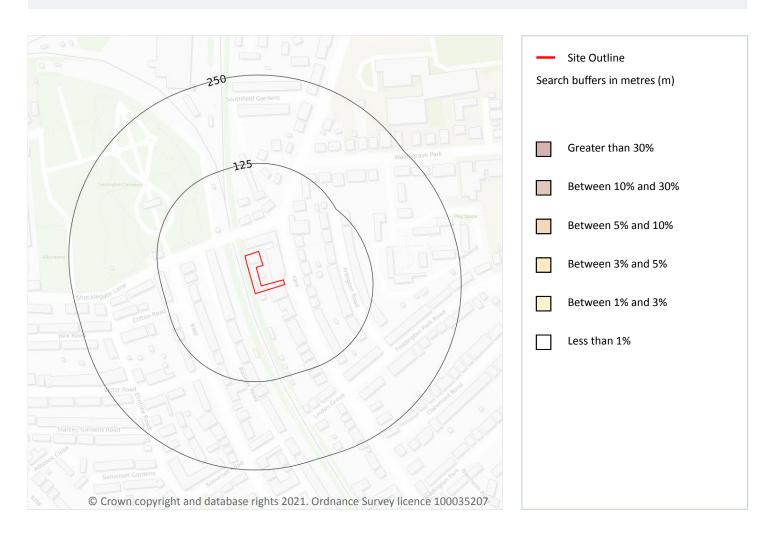
Generalised areas that may be affected by kaolin and ball clay extraction.

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





19 Radon



19.1 Radon

Records on site 1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on page 104

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

This data is sourced from the British Geological Survey and Public Health England.





20 Soil chemistry

20.1 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	No data	No data	No data	No data	No data	No data	No data
39m W	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

20.2 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	17	3	231	159	0.6	57	40	21	16
On site	17	3	270	185	0.6	55	42	21	17
5m E	17	3	269	185	0.5	54	37	21	13
36m NE	17	3	360	247	0.5	51	38	21	15
39m W	18	3.2	214	147	0.6	59	48	22	21
39m NW	18	3.2	248	170	0.6	60	49	22	21
46m S	17	3	188	129	0.5	58	37	21	13



(105)

WALDEGRAVE MOTORS, 144, WALDEGRAVE ROAD, TEDDINGTON, TW11 8NA Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m 0

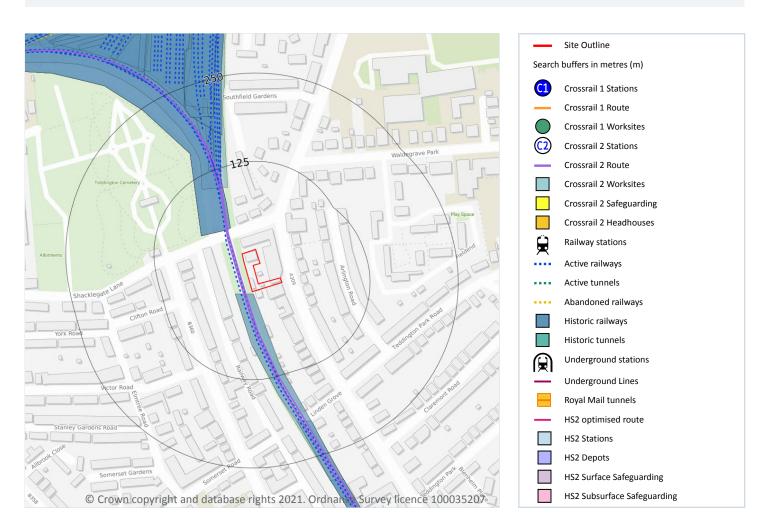
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.





21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m 0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

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.

21.3 Railway tunnels

Records within 250m 0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m 21

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 107

Location	Land Use	Year of mapping	Mapping scale
4m S	Railway	1918	-
4m S	Railway	1897	-
40m NW	Railway Sidings	1991	10000
40m NW	Railway Sidings	1973	10000
40m NW	Railway Sidings	1966	10560
40m NW	Railway Sidings	1948	10560
96m N	Railway Sidings	1913	10560
124m N	Railway Sidings	1934	2500
124m N	Railway Sidings	1913	10560
134m N	Railway Sidings	1959	1250
134m N	Railway Sidings	1974	1250
144m N	Railway Sidings	1938	10560
159m N	Railway Sidings	1915	2500
159m N	Railway Sidings	1960	2500
169m N	Railway Sidings	1938	10560
169m N	Railway Sidings	1912	10560
195m S	Railway	1936	-



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Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

Location	Land Use	Year of mapping	Mapping scale
198m N	Railway Sidings	1938	10560
198m N	Railway Sidings	1913	10560
198m N	Railway Sidings	1933	10560
208m N	Railway Sidings	1934	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 Historical railways

Records within 250m 0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m 24

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 **page 107**

Location	Name	Туре
11m W	Not given	Multi Track
12m W	Kingston Loop Line	rail
16m W	Kingston Loop Line	rail
40m NW	Not given	Multi Track
82m N	Shepperton Line	rail



(109)

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Ref: HMD-377-7904188 Your ref: P3508JJ2313-1 Grid ref: 515551 171691

Location	Name	Туре
82m N	Kingston Loop Line	rail
82m N	Not given	Multi Track
82m N	Not given	Multi Track
84m N	Kingston Loop Line	rail
84m N	Down Shepperton Line	rail
104m N	Not given	Multi Track
107m N	Not given	Multi Track
135m N		rail
135m S	Not given	Multi Track
166m N	No2 Siding	rail
185m N	Carriage Washing Road No5	rail
191m N	Not given	Multi Track
196m N	Not given	Multi Track
204m S	Not given	Multi Track
215m N	Not given	Single Track
224m N	No1 Siding	rail
228m N	No3 Siding	rail
229m N	No4 Siding	rail
239m S	Not given	Multi Track

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

21.8 Crossrail 1

Records within 500m 0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.





21.9 Crossrail 2

Records within 500m 5

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

Features are displayed on the Railway infrastructure and projects map on page 107

Location	Route Type	Name	Under consultation
10m W	Network Rail Regional Branch	Kingston Loop Line	No
12m W	Network Rail Regional Branch	Kingston Loop Line	No
91m N	Network Rail Regional Branch	Shepperton Line	No
98m N	Network Rail Regional Branch	Shepperton Line	No
452m NW	Network Rail Regional Branch	Shepperton Line	No

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m 0

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.





Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference.

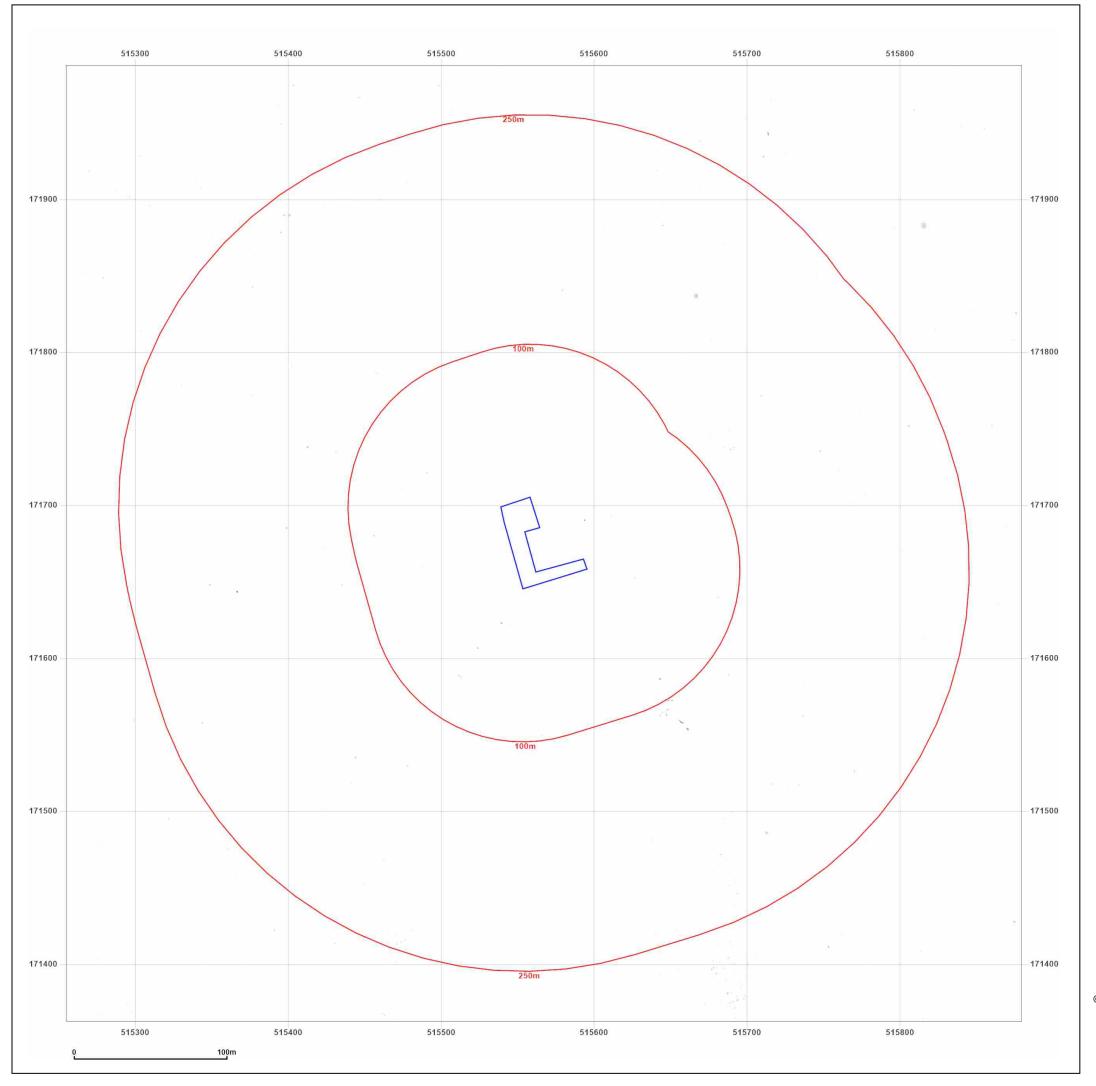
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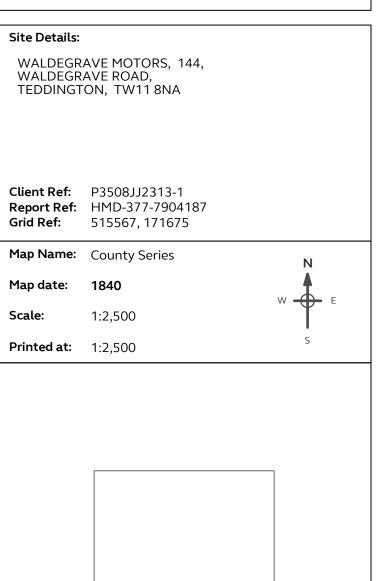




APPENDIX 3 – OS HISTORICAL MAPS









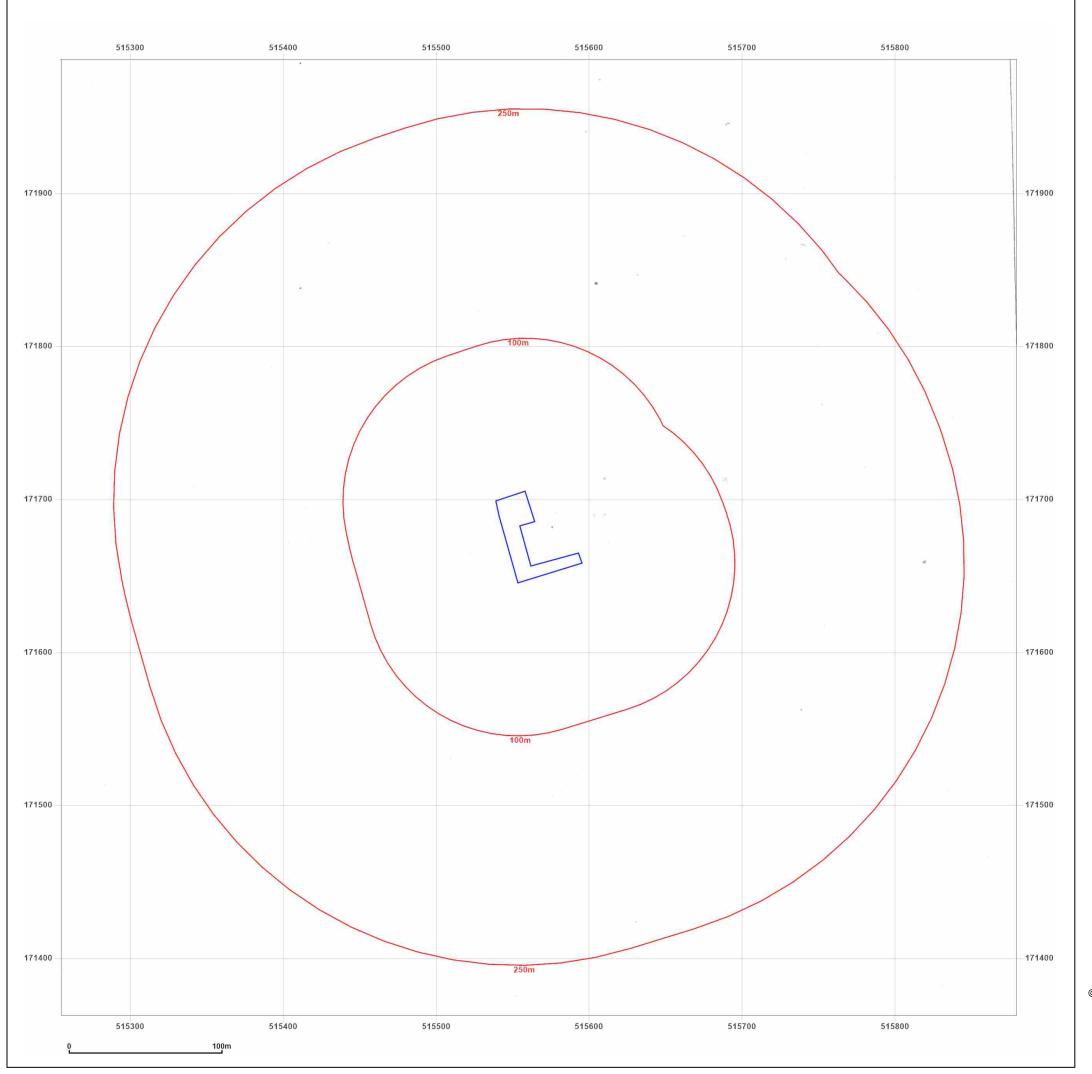


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 Client Ref:
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 Report Ref:
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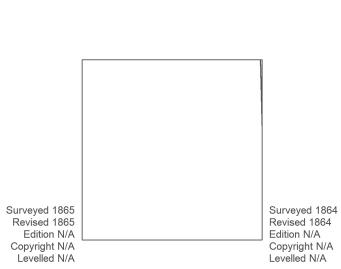
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Map Name: County Series

Map date: 1864-1865

Scale: 1:2,500

Printed at: 1:2,500



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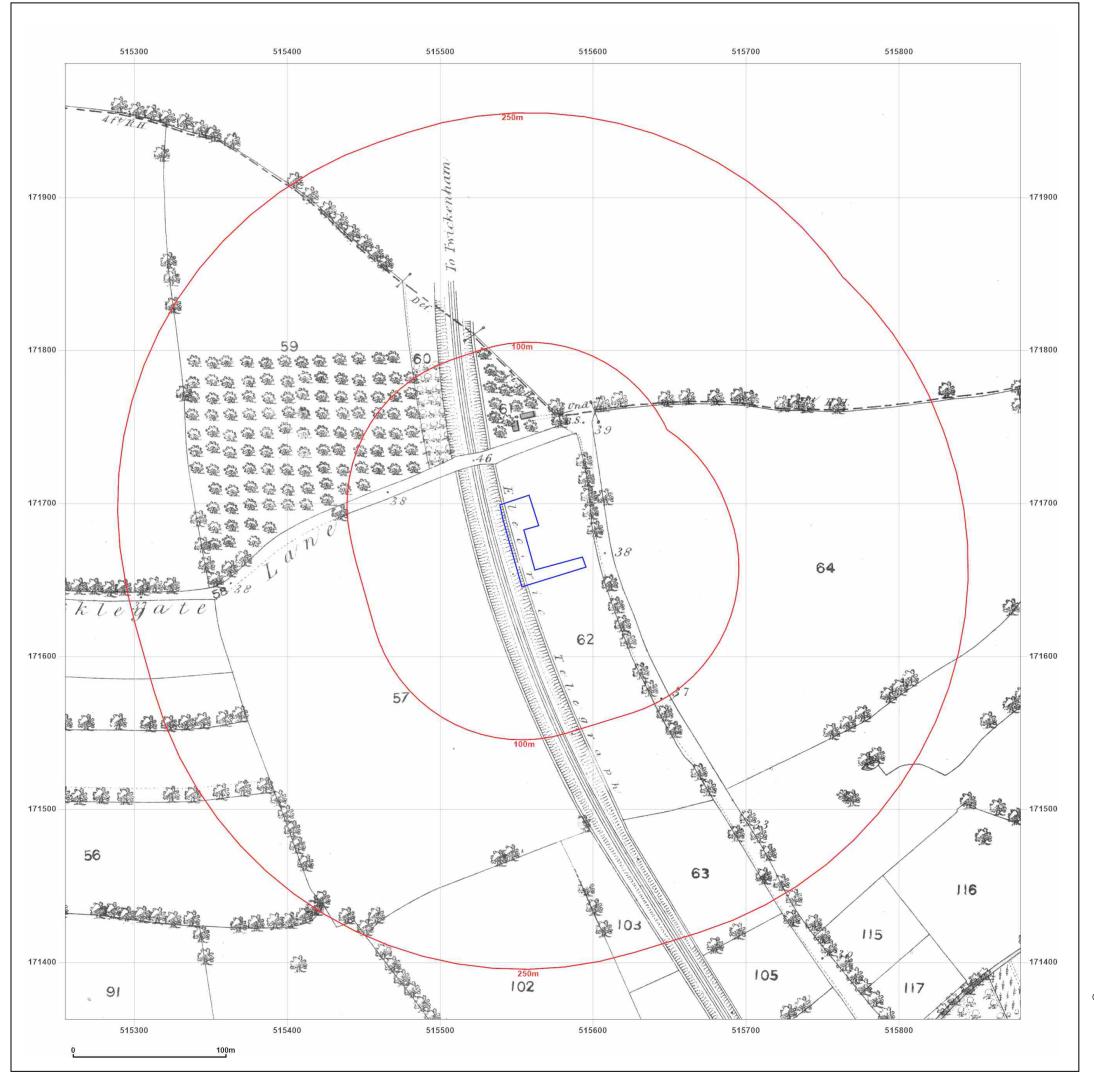


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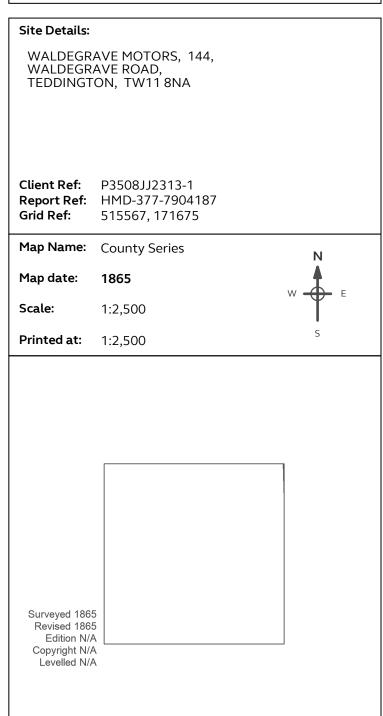
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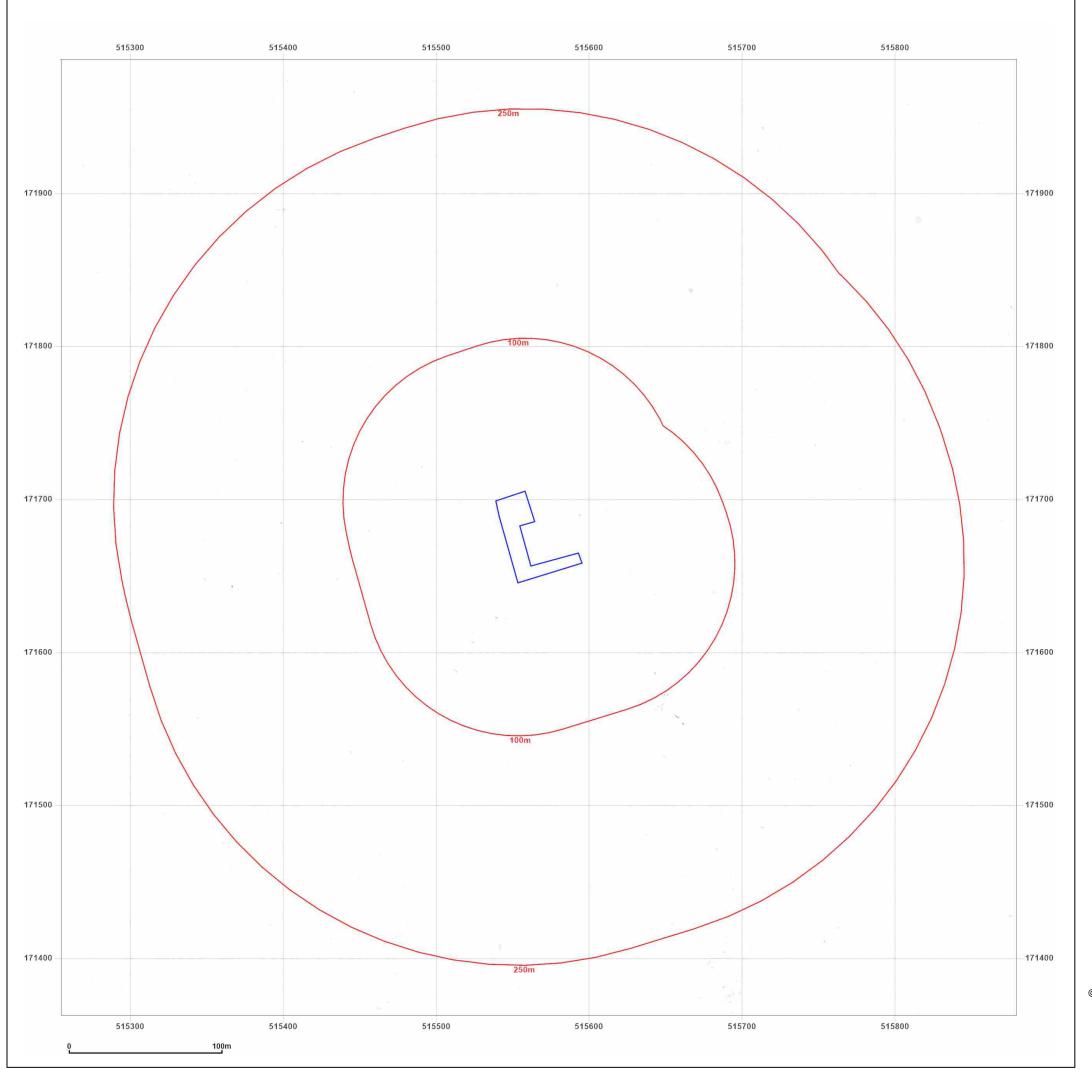




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 Report Ref:
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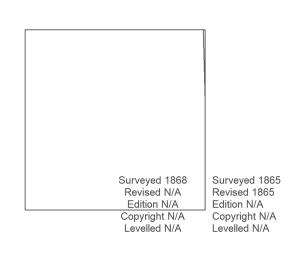
 Grid Ref:
 515567, 171675

Map Name: County Series

Map date: 1865-1868

Scale: 1:2,500

Printed at: 1:2,500





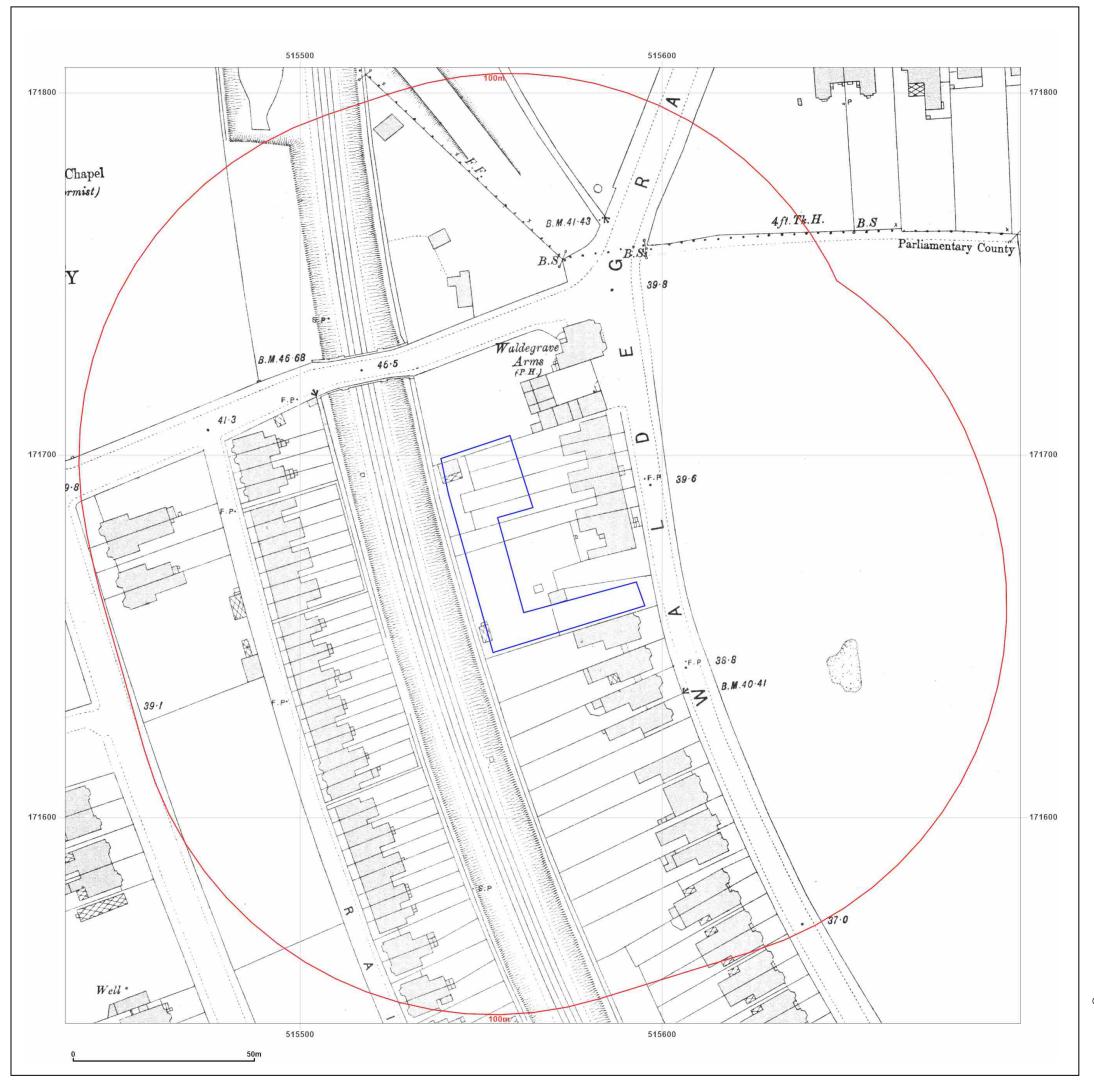


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Client Ref: P3508JJ2313-1 **Report Ref:** HMD-377-7904187 Grid Ref: 515567, 171675

Map Name: 1056 Scale Town Plan

Map date: 1896

Scale: 1:1,056

Printed at: 1:1,056

Surveyed 1894 Revised N/A Edition 1896 Copyright N/A Levelled N/A



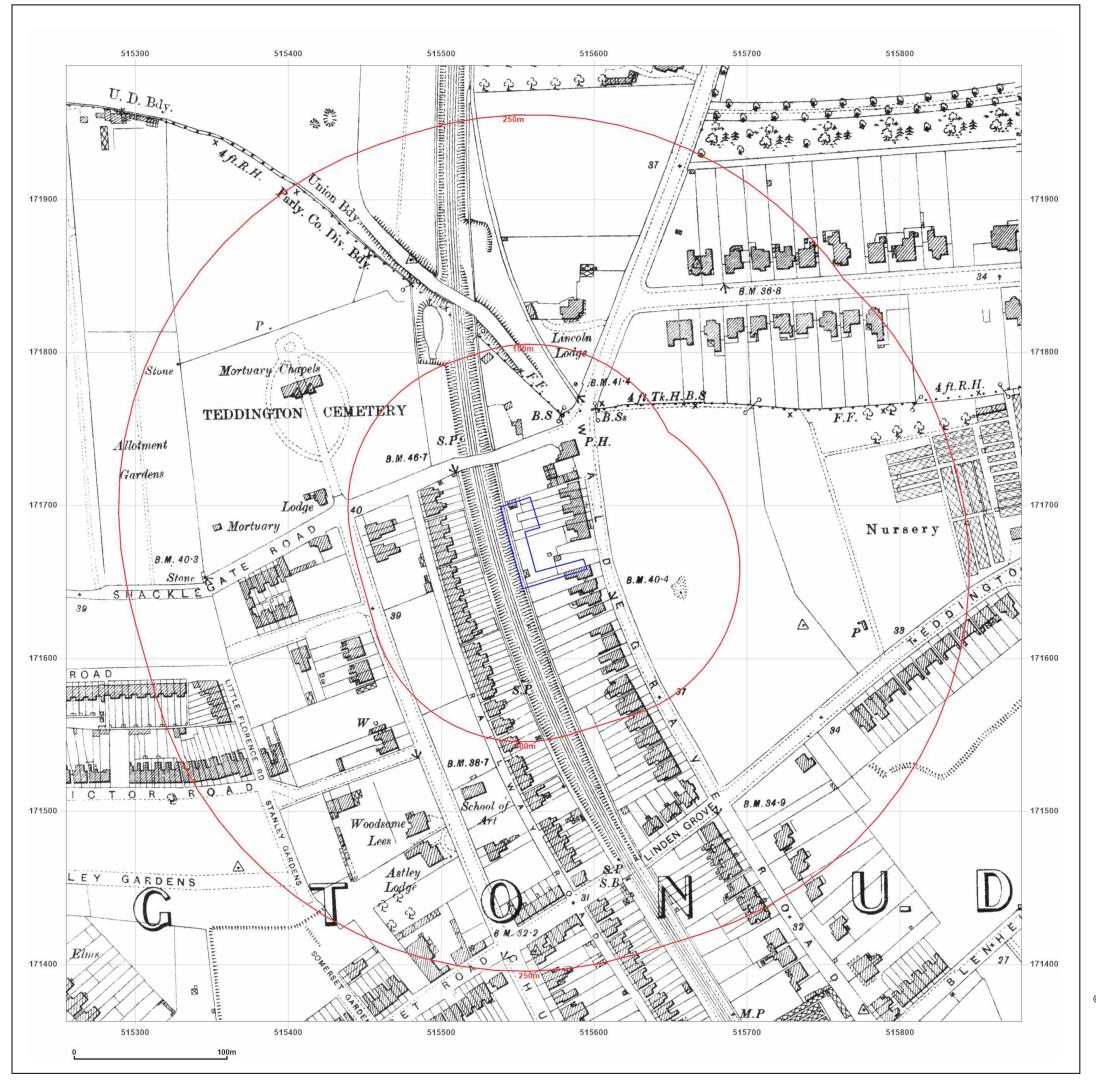


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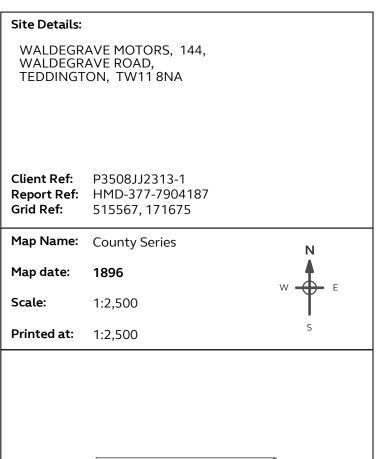
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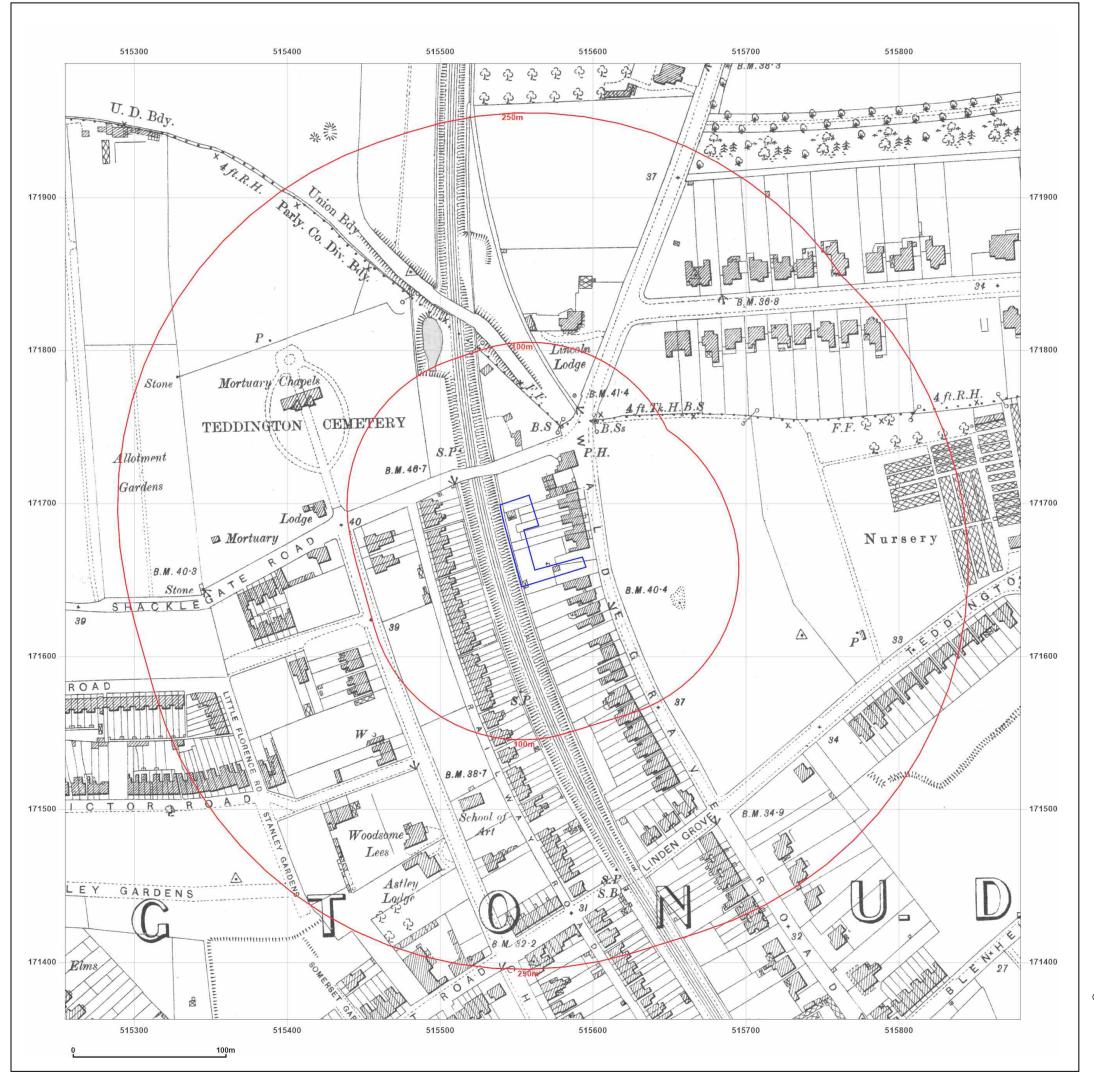
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Map Name: County Series

Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1898
Revised 1898
Edition N/A
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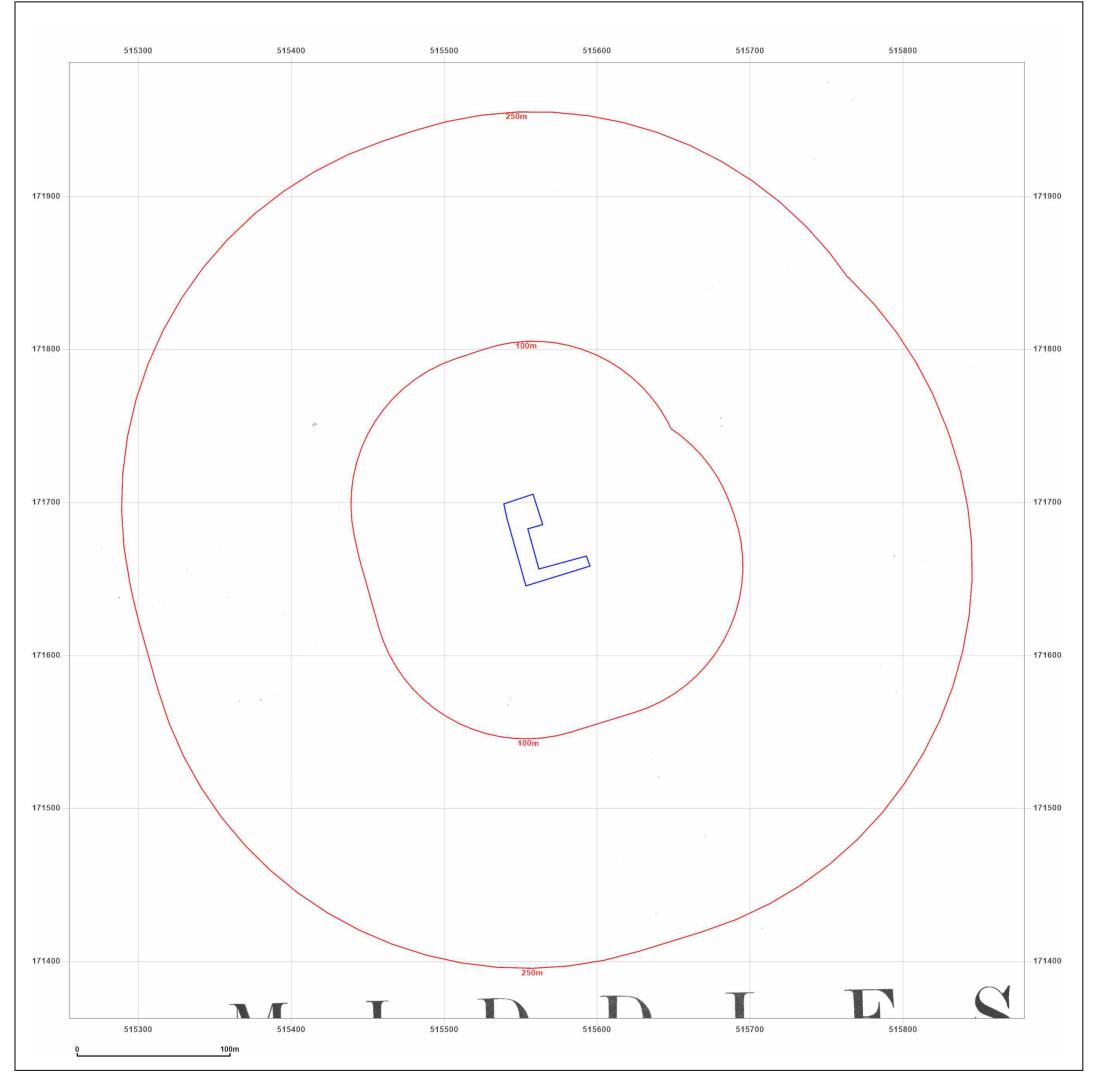


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Site Details:

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 Report Ref:
 HMD-377-7904187

 Grid Ref:
 515567, 171675

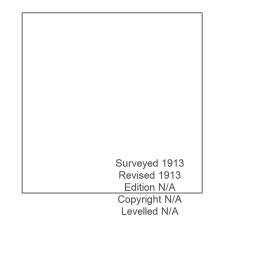
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Map date: 1913

Scale: 1:2,500

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Printed at: 1:2,500





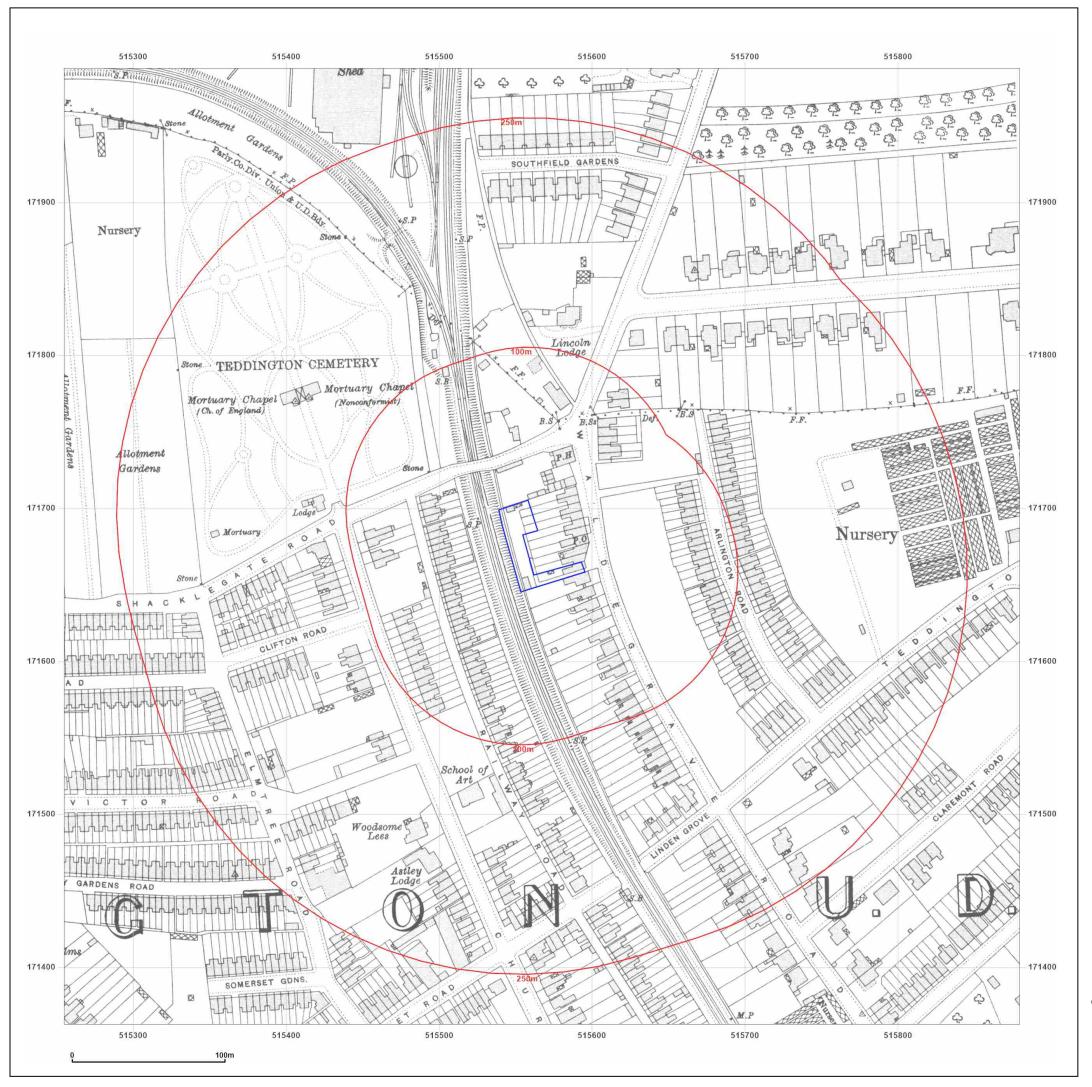


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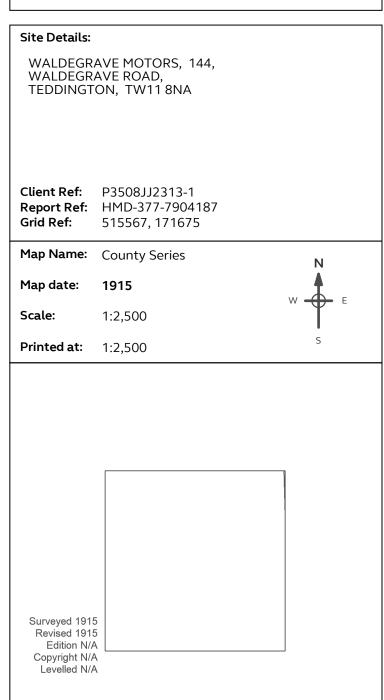
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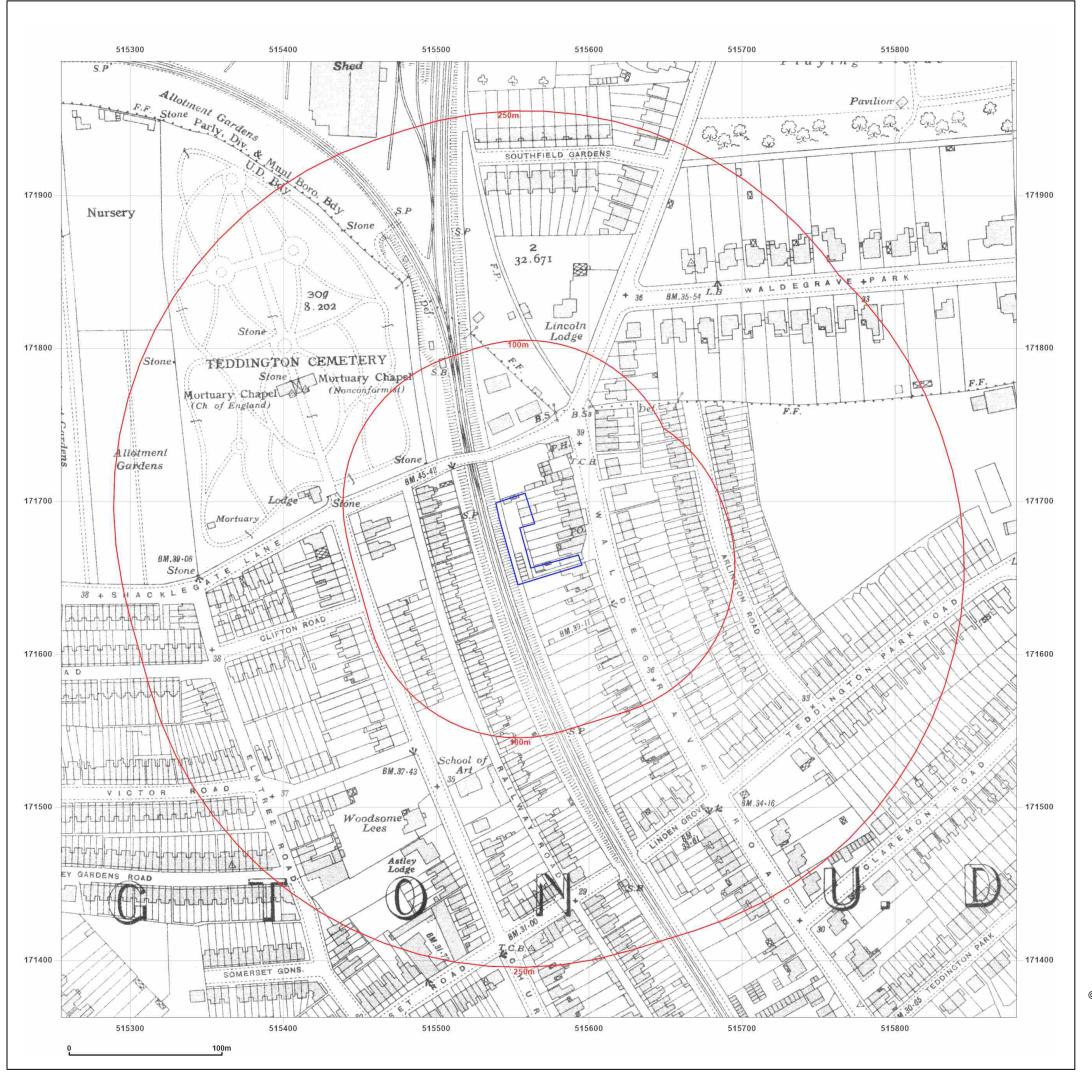




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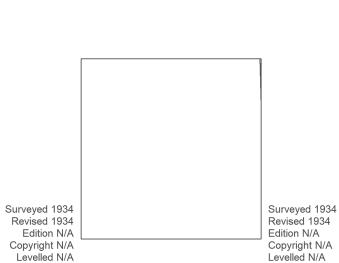
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Map Name: County Series

Map date: 1934

Scale: 1:2,500

Printed at: 1:2,500



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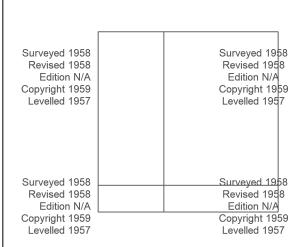
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Map Name: National Grid

Map date: 1959

Scale: 1:1,250

Printed at: 1:2,000





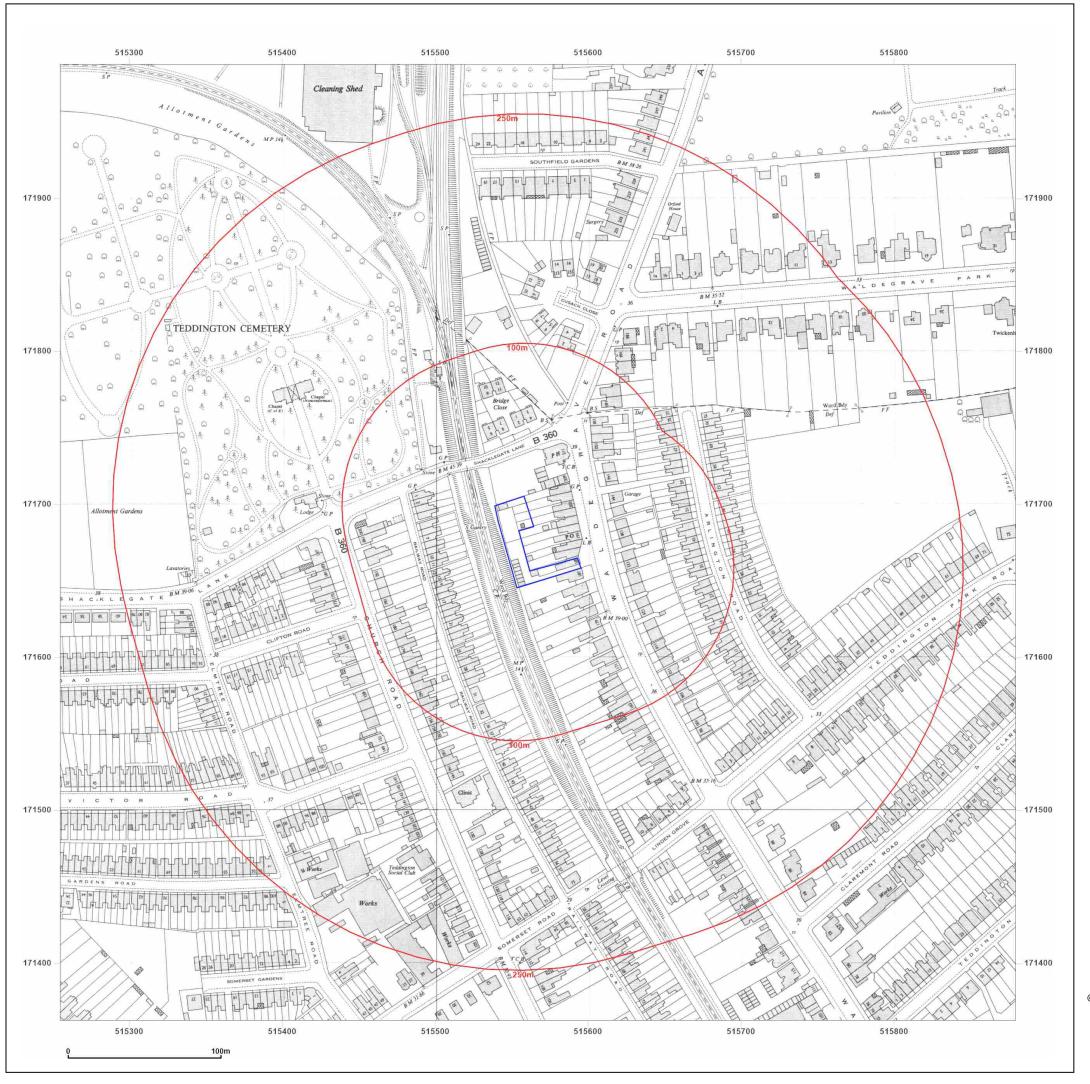


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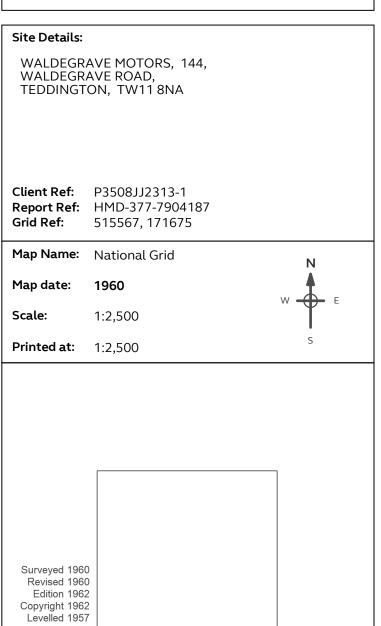
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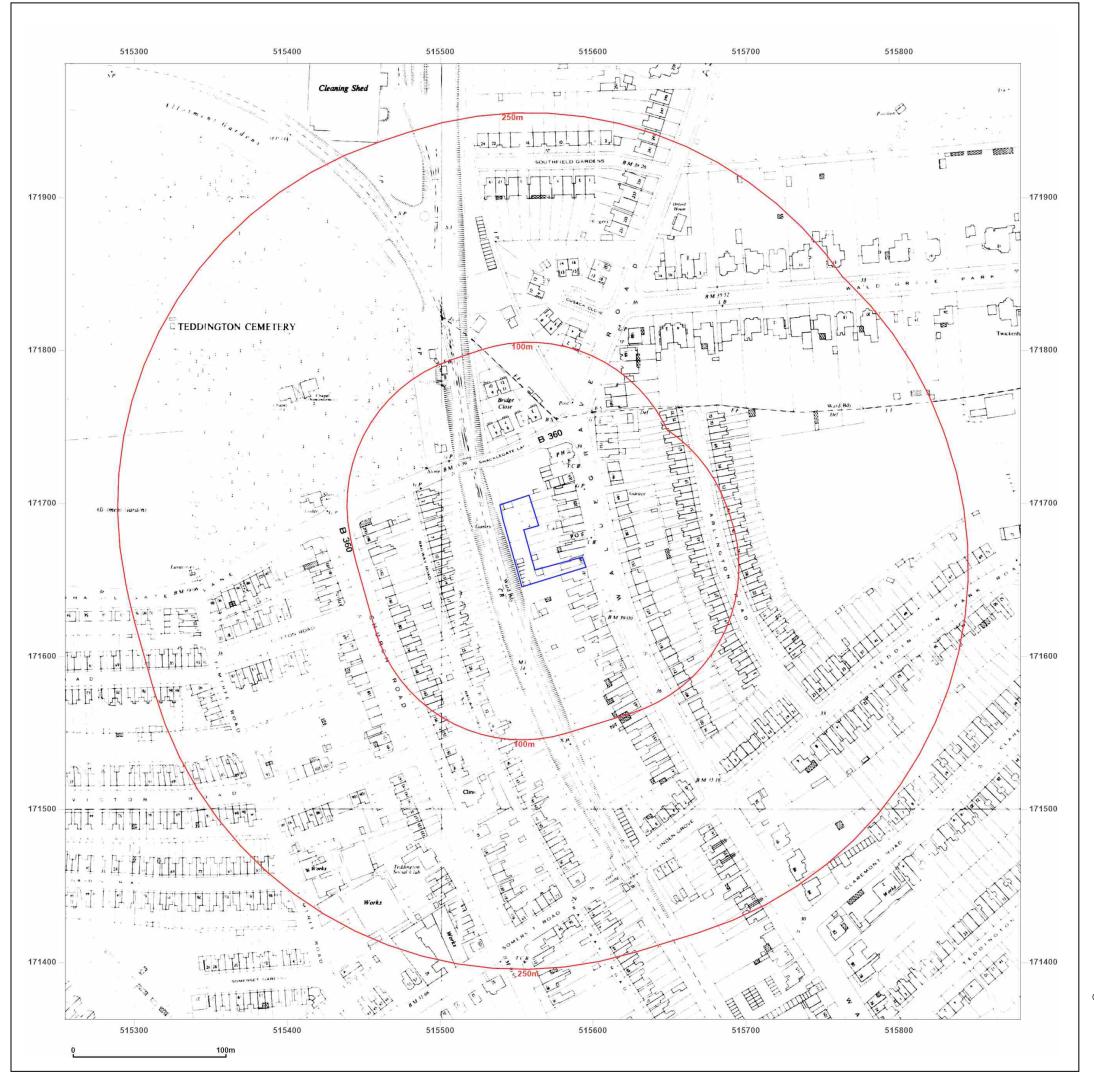




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Client Ref: P3508JJ2313-1 Report Ref: HMD-377-7904187 Grid Ref: 515567, 171675

Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500

Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A



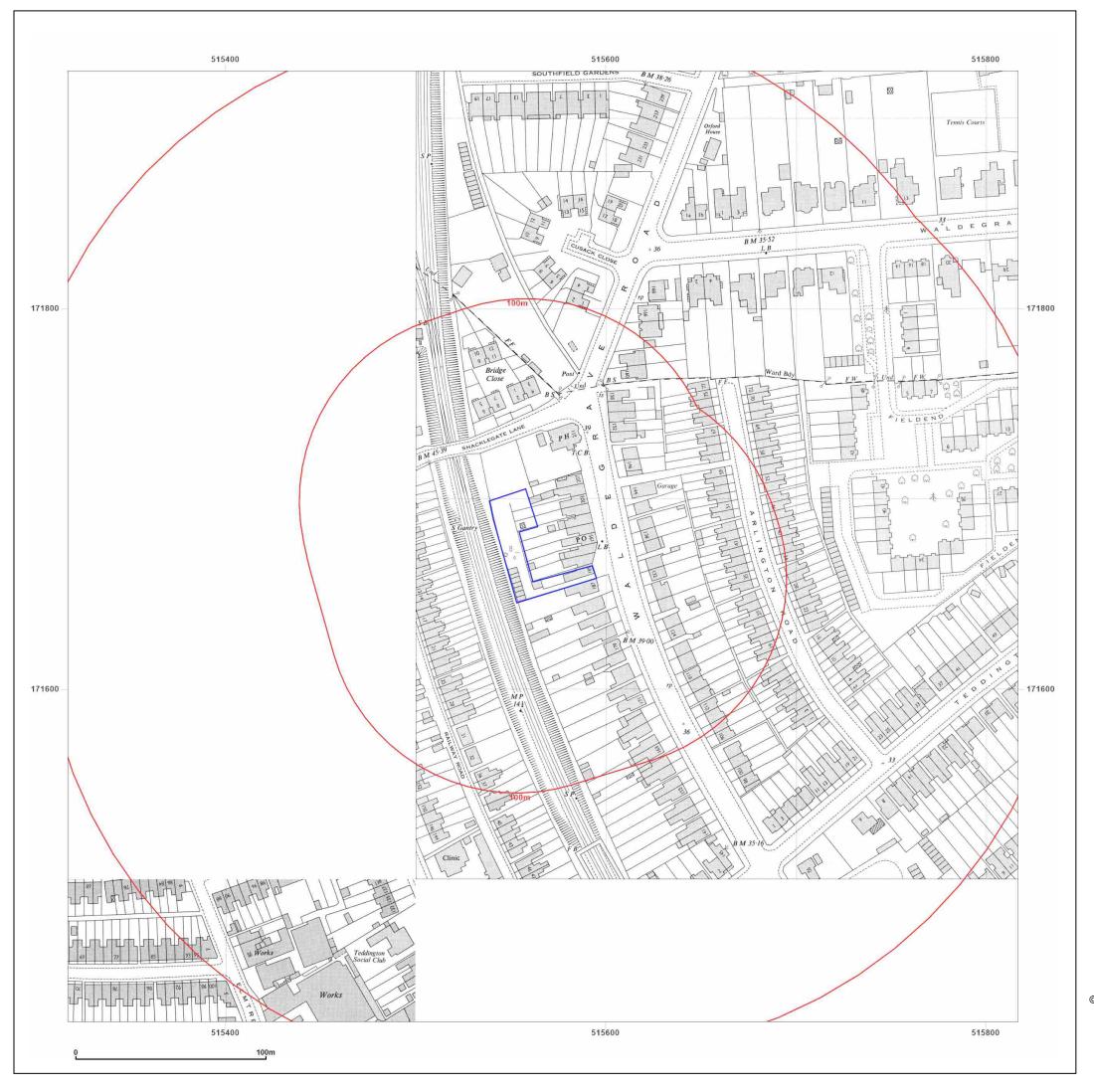


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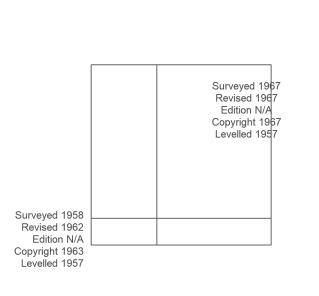
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Map Name: National Grid

Map date: 1963-1967

Scale: 1:1,250

Printed at: 1:2,000







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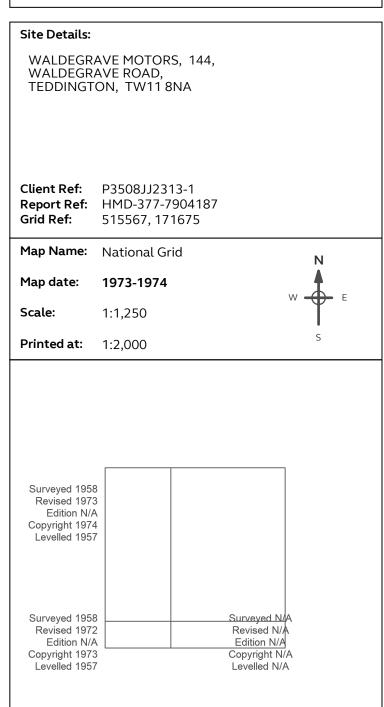
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