



Tier 1 Contamination Assessment

Advantage House, Reading

24035-XPL-501

June 2024 Rev. C02

Revision History

Rev.	Date	Purpose	Prepared	Checked	Approved
C01	30.05.24	Information	M Henderson	M King	M Henderson
C02	05.06.24	Client name change	M Henderson	-	M Henderson

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Table of Contents

1	Executive Summary	1
2	Introduction.....	3
2.1	General	3
2.2	Scope of Work	3
2.3	Technical Approach	3
2.4	Future Development	3
3	Site Information and Setting.....	4
3.1	Site Location	4
3.2	Site Description	4
3.2.1	Asbestos	4
3.3	Surrounding Land Use	5
3.4	Site History.....	5
3.4.1	Historical Mapping	5
3.4.2	Aerial Photography	6
3.4.3	British Newspaper Archive	6
3.5	Geology.....	6
3.6	Hydrogeology.....	6
3.7	Hydrology.....	7
3.8	Environmental Data Searches	7
3.8.1	Industrial Land Use.....	7
3.8.2	Landfill and Waste Uses.....	7
3.8.3	Pollution Incidents	7
3.8.4	Environmental Designations.....	7
3.8.5	Natural Hazards.....	7
3.9	Unexploded Ordnance (UXO).....	8
4	Contaminated Land Risk Assessment	9
4.1	General	9
4.2	Contamination Sources.....	9
4.3	Contamination Pathways	9
4.4	Contamination Receptors	10
4.5	Qualitative Evaluation	10
5	Conclusions.....	12
6	Recommendations	13

Figures

Appendix A – Historical Maps

Appendix B – Groundsure Enviro Insight Report

1 Executive Summary

Details	Summary of Main Text
Introduction	This Tier 1 Contamination Risk Assessment report has been prepared for Lightbox (Reading) Ltd. The assessment relates to a planning application for the conversion of the existing building from office use to residential occupation.
Site Description	The site comprised an existing office building and car parking. A redundant emergency generator, fuel storage tank and electricity substation are on site alongside the western boundary.
Site History	The existing office building was constructed in the 1980s. Prior to this, the site was in various commercial uses but most recently as garages for car and commercial vehicle sales, servicing and repairs.
Geology and hydrogeology	The site is directly underlain by a bedrock of the Lambeth Group (Secondary A aquifer). The Lambeth Group is likely to be thin and underlain by chalk deposits (Principal aquifer). The site is not within a groundwater Source Protection Zone.
Hydrology	Holy Brook is 100m to the east but is separated from the site by a 40m box cutting containing the A329 dual carriageway and slip roads.
Potential Contamination Sources	The following potential sources of contamination have been identified: • Made ground from previous phases of construction and demolition (whole site). • Historic uses across the whole site including coal and coke factors, haulier, car and commercial vehicle garages, printers and photographers. • Historic aboveground storage tank (AST), possibly predating an existing generator and AST on the western boundary. • Existing fuel AST and emergency generator on the western boundary. • Existing electricity substation on the western boundary.
Qualitative risk evaluation	There are potentially complete source-pathway-receptor linkages at the site and contamination can reasonably be anticipated.
Recommendations	Checks should be carried out to establish whether ground gas or organic vapour is present and, if it is, whether the existing building construction/ventilation provides adequate protection. This may not be necessary if no accommodation is proposed at ground floor level. If any new amenity or landscape involving removing the existing car parksurfacing is proposed, the soils in these areas will require investigation. This may not be necessary if amenity or landscaping is in raised planters. The redundant emergency generator, fuel lines and AST should be removed as part of development and is likely to be an Environment Agency condition. Verification should be carried out to check for hydrocarbons beneath the slab and bund. Verification can be carried out either before or after their removal.

<i>Details</i>	<i>Summary of Main Text</i>
	Carry out an asbestos survey of the office building where it will be disturbed by development. A full building survey may not be necessary if an up-to-date asbestos register is available, but this should be confirmed with the appropriate specialist. If any new structures are proposed, consideration must be given to the possibility of solution features or mining cavities in the near-surface chalk deposits. If, during construction, previously unknown contamination is found or suspected on site then a scheme of investigation and appropriate course of action should be agreed with the LPA and/or Environment Agency. Submit a copy of this report with the planning application and for discharge of conditions.

2 Introduction

2.1 General

This Tier 1 Contamination Risk Assessment report has been prepared by Xplor Environmental Ltd (Xplor) for Lightbox (Reading) Ltd.

The report is intended to be submitted with a planning application for a conversion of the existing commercial office building to residential use.

2.2 Scope of Work

The terms of reference for the work were set out in the Xplor proposal 24035 dated 21 May 2024.

2.3 Technical Approach

The report has been prepared from a desk-based review of published information, historical mapping, an environmental search report, and site walkover.

The process of assessment satisfies the Environment Agency (EA) guidance, Land Contamination Risk Management (LCRM, 2020) for a Tier 1 contamination risk assessment. Competent persons have been involved in the preparation and checking of the report.

2.4 Future Development

The assessment is based on a conversion of the existing Class E office use to residential use (Class C3). The development is to be contained within the footprint of the existing building.

3 Site Information and Setting

3.1 Site Location

The site is located at Advantage House, 87 Castle Street, Reading RG1 7SN.

The National Grid Reference for the site is 471110 173016. A location plan is presented as Figure 1.

3.2 Site Description

A site walkover was undertaken on 28 May 2024. Weather conditions on the day were overcast and light rain.

The site comprised a 4-storey office block with car parking. The existing development occupies a level platform below the level of Coley Place on the western boundary and above the level of the A329 slip road on the eastern boundary. Level changes were accommodated by high retaining walls on the west and east boundaries, and part of the south.

The car park surface comprised macadam with gully drains.

A compound of wooden construction was at the base of the western retaining wall. One part of the compound contained an electricity substation, and the other part contained a small aboveground fuel storage tank (AST) and emergency generator.

The AST was contained within a bund constructed of blockwork. Pipework between the AST and the generator is fixed to the retaining wall. There was no surface staining was present either within the bund or on the surrounding ground, however a small amount of dark staining was evident on the AST around the filling point. A small, covered enclosure was also present within the compound but was locked.

The security guard present at the site stated that the generator and AST have not been in use for some years as emergency power is provided from battery storage. It is not known if the AST still contains fuel.

Other structures on site include a covered cycle store on the western boundary and an enclosure for wheelie bins on the northern boundary.

The arrangement of these features is shown in Figure 2 and photographs are in Figure 3.

3.2.1 Asbestos

It is understood that the present building on site was constructed in the 1980s. HSE advice is that "If the building was built or refurbished before 2000, assume that there is asbestos in it". A site walkover as part of a desk study does not constitute an asbestos survey and it is important that checks are made for asbestos in the building.

3.2.2 Geotechnical Observations

The site walkover does not constitute a structural survey, however there was evidence of possible movement of retaining walls comprising minor cracking, lateral

displacement of brickwork and loose copings. These features were most common where trees were present.

3.3 Surrounding Land Use

The site is in an urban setting with the surrounding land uses as follows:

- North: grade-separated roundabout and A4155 Castle Street.
- East: A329 dual carriageway and slip road in a 40m wide box cutting.
- South: Cheriton Court apartments and terraced housing in Coley Place.
- West: Coley Place, flats and parking.

3.4 Site History

3.4.1 Historical Mapping

Historical maps for the site have been reviewed and a summary of findings is presented in Table 3.2. Copies of the maps are presented in Appendix A.

Table 3.2 Historical Map Summary

Year	On Site	0-100m
1879-1931	Most of the site comprised land and buildings (including glasshouses) associated with a large residence named Talbot Lodge. Livery stables on the northeast boundary. Gardens associated with terraced housing on the southern boundary. An end of terrace building is in the south corner. A terrace of buildings and gardens on Castle Street are in the west.	Buildings and land associated with the Reading town centre were in all directions. A coach manufactory was 80m to the northeast.
1957-1962	Talbot Lodge is replaced with several large garage buildings and yards.	On-site garages and yards extended off-site towards the east and south. Bakery (40m north), large warehouse (55m north-northeast), builder's yard (30m northeast), coal yard (25m south), garage (25m northwest) and builder's yard (45m west-northwest).
1969	Demolition of numerous structures across the site except for a large garage building (87 Castle Street).	Widespread demolitions to the north and east and the construction of a dual carriageway and roundabout. Coal yard expanded northwards and now 20m from the southern boundary of the site.
1972-1980	Aboveground storage tank in southernmost corner.	The adjacent dual carriageway, slip roads and roundabout are completed to the north and east. Electricity substation 40m east.

1986	Advantage House built between 1980 and 1986. Electricity substation on the western boundary.	No significant changes from previous edition.
1991-2003	No significant changes from previous edition.	No significant changes from previous edition.

3.4.2 Aerial Photography

Aerial photographs have been accessed in Google Earth Pro as far back as 1999. During this period the site and surrounding land is mostly unchanged from the present day.

3.4.3 British Newspaper Archive

The following previous businesses have been recorded at the site in local newspapers. These were variously located in properties numbered from 75 to 95 (odds) Castle Street.

- 1845, printer, book binder and stationer.
- 1875, photographers.
- 1897, livery stables.
- 1909, fruiterer, greengrocer, coal and coke factors and haulier.
- 1919, Fitch & Harding machinery repairs.
- 1922, ex-soldiers' work depot.
- 1926, England's Garage motor vehicle sales.
- 1937-1966, Hewen's Garages commercial vehicle and car sales, servicing and repair workshop.
- 1960-1973, The Morris Garage automotive parts stockist.
- 1967, printing.
- 1969-1971, stamp and coin centre.
- 1970, estate agent.
- 1981, car sales.

3.5 **Geology**

British Geological Survey online mapping indicates the site is directly underlain by a bedrock of Lambeth Group (silt and sand). The Seaford Chalk Formation outcrops in the adjacent A329 box cutting, which could indicate the Lambeth Group may be relatively thin at this location.

There are no superficial deposits shown on mapping at the site.

The 1:10,000 scale map identified worked ground alongside the eastern boundary, however it is described as a "void" and relates to the A329 box cutting.

3.6 **Hydrogeology**

The Lambeth Group is a Secondary A aquifer and the underlying Chalk is a Principal aquifer. The site is not within a groundwater Source Protection Zone (SPZ).

The nearest active groundwater abstraction is 456m to the north and is for commercial/industrial/public services use as water for drinking, cooking, sanitary and/or washing.

The nearest public water supply borehole was 1799m to the south to the east and operated by Thames Water Utilities Ltd.

3.7 Hydrology

Holy Brook is 100m to the east and topographically downgradient of the site. However, the intervening A329 box cutting and surrounding development breaks any plausible connection with the watercourse.

There are no active surface water abstractions within 2km of the site.

3.8 Environmental Data Searches

A Groundsure Enviro Insight report was commissioned for the site and is presented in Appendix B. The following entries were considered to be potentially relevant to the site condition.

3.8.1 Industrial Land Use

An unspecified tank and electricity substation were recorded on site in 1972; historical mapping identified these in the southernmost corner.

Multiple garages were recorded on site at various times between 1957 and 1980.

3.8.2 Landfill and Waste Uses

There are no recorded landfills (past or present) or other waste uses within 250m of the site.

3.8.3 Pollution Incidents

There is 1nr recorded pollution incident within 100m of the site, which was located 13m to the northwest. It was in 2003 and involved a release of petrol that had no land or water impact.

3.8.4 Environmental Designations

The site is within the Holy Brook WFD surface water body catchment and the Berkshire Downs WFD groundwater body. However, the development is not of a type likely to be affected by the designations.

3.8.5 Natural Hazards

There is a negligible risk of surface water flooding across the site. There is a moderate risk of groundwater flooding.

Risks from natural ground hazards are mostly negligible to low. However, there is a moderate risk of shrink-swell clays from the mapped Lambeth Group.

There are 6nr BritPit entries within 100m and all relate to the Reading Chalk Mines located underground. The nearest entry was 21m southwest.

The site is Class D to E for non-coal mining potential, which is defined as “Underground mining is considered likely to have occurred within or close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered”.

A natural cavity was recorded 13m to the west of the site and was described as widened joint or fissure in the chalk. Two solution pipes were recorded in the chalk or Lambeth Group 30m and 49m to the west.

An online article published by Reading Museum suggests that some of the houses in Coley Place, which borders the western boundary, were demolished following chalk mine subsidence.

The site is in an area where less than 1% to between 1% and 3% of homes are affected by radon (i.e. the site is not affected by radon).

3.9 Unexploded Ordnance (UXO)

Zetica UXO risk maps were accessed online. These indicated the site is in an area at low risk from UXO.

4 Contaminated Land Risk Assessment

4.1 General

A qualitative risk assessment has been undertaken for the site based on an evaluation of the information collected during the desk study and site reconnaissance.

The process involves the identification of sources of potential contamination based on historical mapping, data searches and a site walkover, together with the identification of associated exposure pathways and human or environmental receptors.

A preliminary conceptual site model (CSM) has been developed and is described below.

4.2 Contamination Sources

The potential sources of contamination that could impact on receptors are identified in Table 4.1.

Table 4.1 Potential Sources of Contamination

Sources	Contaminants
Made from previous phases of construction and demolition (whole site).	Metals, polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons, asbestos and ground gas.
Historic uses including coal and coke factors, haulage, car and commercial vehicle garages, printers and photographers (various locations).	Metals, PAHs, petroleum hydrocarbons, solvent, asbestos and organic vapour.
Historic AST (west boundary), possibly predating the existing generator and AST.	Hydrocarbons and organic vapour.
Existing fuel AST and emergency generator (west boundary).	Hydrocarbons and organic vapour.
Existing electricity substation (west boundary)	Hydrocarbons and polychlorinated biphenyls (PCBs)

Off-site potential sources of contamination are excluded from assessment as they are considered to be distant, low mobility and the on-site potential for contamination is conceivably much greater.

4.3 Contamination Pathways

Table 4.2 presents a review of potential exposure pathways that could exist at the site.

Table 4.2 Potential Contamination Pathways

Pathways	Present?	Justification
Direct contact with soil or groundwater (dermal or ingestion) – operational phase	No	A change in site use from commercial offices to residential apartments is proposed. The development includes no new gardens or landscaping.

<i>Pathways</i>	<i>Present?</i>	<i>Justification</i>
Direct contact with soil or groundwater (dermal or ingestion) – construction phase	No	The development will take place within the existing building footprint.
Plant uptake and consumption of home produce	No	The development includes no new gardens.
Inhalation of dust and fibres	No	Development will take place within the existing building footprint and no new gardens or landscaping are proposed.
Leaching from soil down to groundwater	No	The site is covered by the existing building and external parking. Infiltration will be negligible.
Migration in groundwater	Yes	The Lambeth Group contains sandy horizons and may be water-bearing.
Migration in surface runoff	No	Runoff will be intercepted by the existing drainage systems, which are likely to be retained.
Migration of ground gas and organic vapour	Yes	The Lambeth Group comprises permeable silts and sands.
Direct contact with new infrastructure and construction	No	Development will take place within the existing building footprint.

4.4 Contamination Receptors

Table 4.3 lists the receptors on and off the site that could be affected by contamination during the construction and operational phases of development.

Table 4.3 Potential Contamination Receptors

<i>Receptors</i>	<i>Present?</i>	<i>Justification</i>
Future site users (residents)	Yes	Residential occupants will be introduced to the site.
Construction and maintenance workers	No	Development will take place within the existing building footprint.
Construction materials	No	Development will take place within the existing building footprint.
Surface water	No	Holy Brook is 100m to the east but is separated from the site by the A329 box cutting
Groundwater	Yes	The underlying Lambeth Group contains sandy horizons and may be water-bearing. In addition, it may be thin and the chalk will be close to the surface.

4.5 Qualitative Evaluation

Risk estimation has not been performed, however the potential SPR-linkages have been evaluated qualitatively as follows.

Keeping the proposed development within the existing building and no new garden or landscaping means that although residents will be introduced to the site the pathways between receptors and potential sources of contamination will mostly remain intact. There are however some uncertainties in this assumption:

1. It is unknown what protection the existing building construction will provide residents should gas/vapour emissions exist (e.g. emissions from historic fill and volatile compounds from previous uses and emergency generator fuel storage).
2. Future residents could be exposed to soil contamination if any areas of the existing hard surfacing are removed to create new amenity or landscaping.

The existing emergency generator and fuel AST is a potential source of contamination. Although the bund and aboveground fuel line appear to be intact and unstained the possible of a historic fuel release cannot be ruled out (including from a tank possibly predating the existing one).

5 Conclusions

The site is located at Advantage House, 87 Castle Street, Reading and comprised an office block and car parking.

The existing offices were constructed in the 1980s. Prior to this, the site was in various commercial uses but most recently as garages for car and commercial vehicle sales, servicing and repairs.

A redundant emergency generator and fuel storage tank are on site, which possibly predates the existing office block or replaced an earlier tank shown on historic mapping.

The site is directly underlain by a bedrock of the Lambeth Group, which is a Secondary A aquifer. The Lambeth Group is likely to be thin at this location and underlain by chalk deposits, a Principal aquifer. The site is not within a groundwater Source Protection Zone.

Holy Brook is 100m to the east but is separated from the site by a 40m box cutting containing the A329 dual carriageway and slip roads.

Potential sources of on-site contamination have been identified and include the following:

- Made ground from previous phases of construction and demolition (whole site).
- Historic uses including coal and coke factors, haulage, car and commercial vehicle garages, printers and photographers (various locations).
- Historic AST (west boundary), possibly predating the existing generator and AST.
- Existing fuel AST and emergency generator (west boundary).
- Existing electricity substation (west boundary).

Potential contaminants include metals, PAHs, polychlorinated biphenyls (PCBs), hydrocarbons, solvent, asbestos, ground gas and organic vapour.

As development will be contained within the existing building footprint no new pathways between receptor (residents) and potential sources would be created. However, if ground gas and/or organic vapour are present then it is unknown if the existing building incorporates adequate protection given there will be a change to a more sensitive residential use.

The existing office building was built before 2000 and could contain asbestos.

There are potential geotechnical hazards at the site, including movement in existing retaining walls and solution and mining cavity features in the chalk, the nearest of which was discovered 13m from the site boundary.

6 Recommendations

Risks from land contamination are present on site from potential sources of contamination associated past site use and an existing redundant emergency generator and AST.

Checks should be carried out to establish whether ground gas or organic vapour is present and, if it is, whether the existing building construction/ventilation provides adequate protection. This may not be necessary if no accommodation is proposed at ground floor level.

If any new amenity or landscape involving breaking out the existing surfacing is proposed, the soils in these areas will require investigation. This may not be necessary if amenity or landscaping is in raised planters.

The redundant emergency generator, fuel lines and AST should be removed as part of development and is likely to be an Environment Agency condition. As part of their removal, verification should be carried out to check for hydrocarbons beneath the slab and bund. Verification can be carried out either before or after their removal.

Carry out an asbestos survey of the office building where it will be disturbed by development. A full building survey may not be necessary if an up-to-date asbestos register is available, but this should be confirmed with the appropriate specialist.

If any new structures are proposed, consideration must be given to the possibility of solution features or mining cavities in the near-surface chalk deposits.

If, during development, previously unknown contamination is found or suspected on site then a scheme of investigation and appropriate course of action should be agreed with the LPA and/or EA.

Submit a copy of this report with the planning application and for discharge of conditions.

Figures

Figure 1 – Location Plan

Figure 2 – Photographs

Figure 3 – Walkover Plan



	CLIENT	PROJECT	TITLE	SCALE: NTS	JOB NR.: 23035	DATE: 09.05.24
	SHEIKH HOLDINGS LTD	ADVANTAGE HOUSE, CASTLE STREET, READING	SITE LOCATION	PREPARED BY: MH	REVISION: C01	DRAWING NR. FIGURE 1



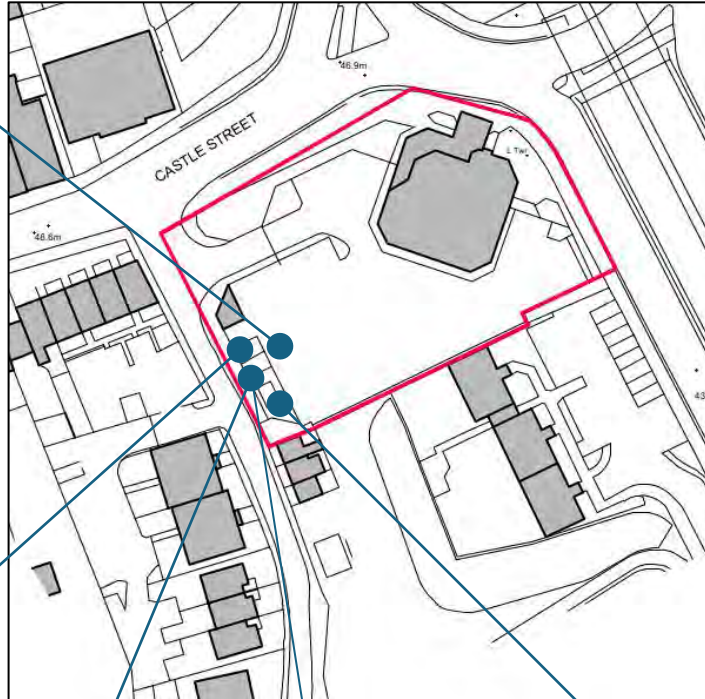
Generator, AST and substation compound on western boundary



Electricity substation



Fuel AST



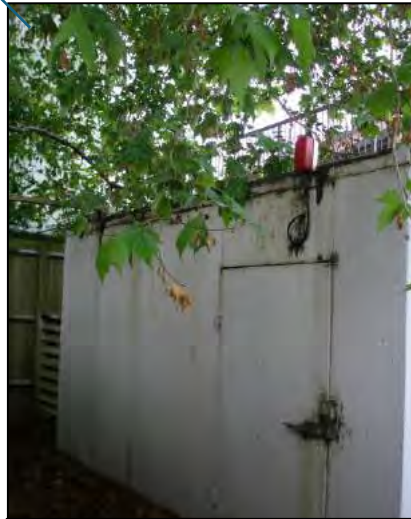
AST and fuel line



Car park view towards east from Coley Place



Advantage House view towards west from roundabout



Emergency generator (restricted view through gap)



LEGEND



CLIENT
SHEIKH HOLDINGS LTD

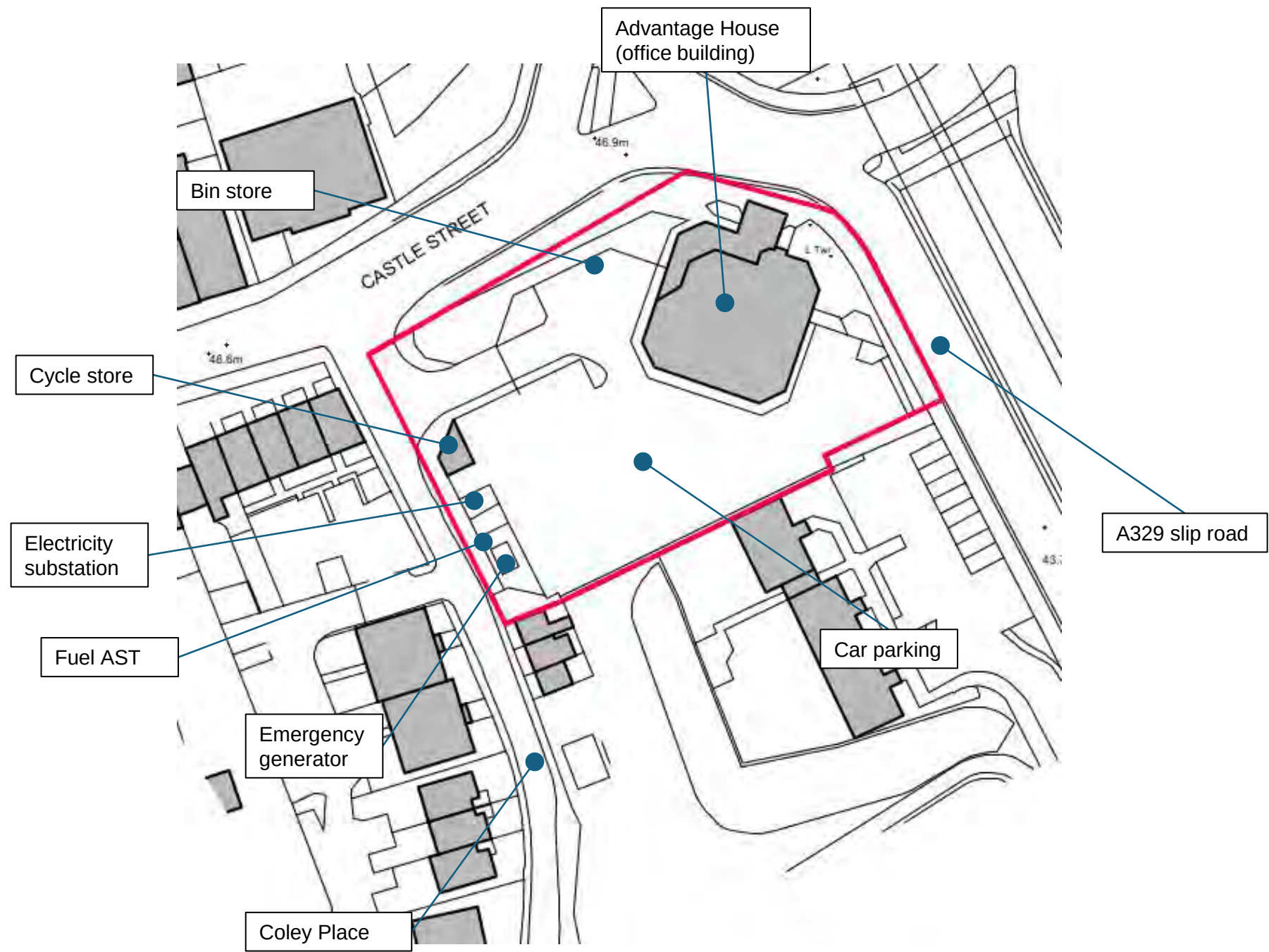
PROJECT
ADVANTAGE HOUSE, READING

TITLE
SITE PHOTOGRAPHS

SCALE: NTS
PREPARED BY: MH

JOB NR.: 24035
REVISION: C01

DATE: 30.05.24
DRAWING NR. FIGURE 2



LEGEND



CLIENT
SHEIKH
HOLDINGS LTD

PROJECT
ADVANTAGE HOUSE, READING

TITLE
SITE WALKOVER

SCALE: NTS
PREPARED BY:
MH

JOB NR.: 24035
REVISION: C01

DATE: 30.05.24
DRAWING NR.
FIGURE 3



Appendix A – Historical Maps

Site Details:

87 ADVANTAGE, CASTLE STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: County Series

Map date: 1879

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



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Map legend available at:
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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: County Series Town Plan

Map date: 1879

Scale: 1:500

Printed at: 1:1,000



Surveyed 1879
Revised N/A
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Surveyed 1879
Revised N/A
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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: County Series

Map date: 1912

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

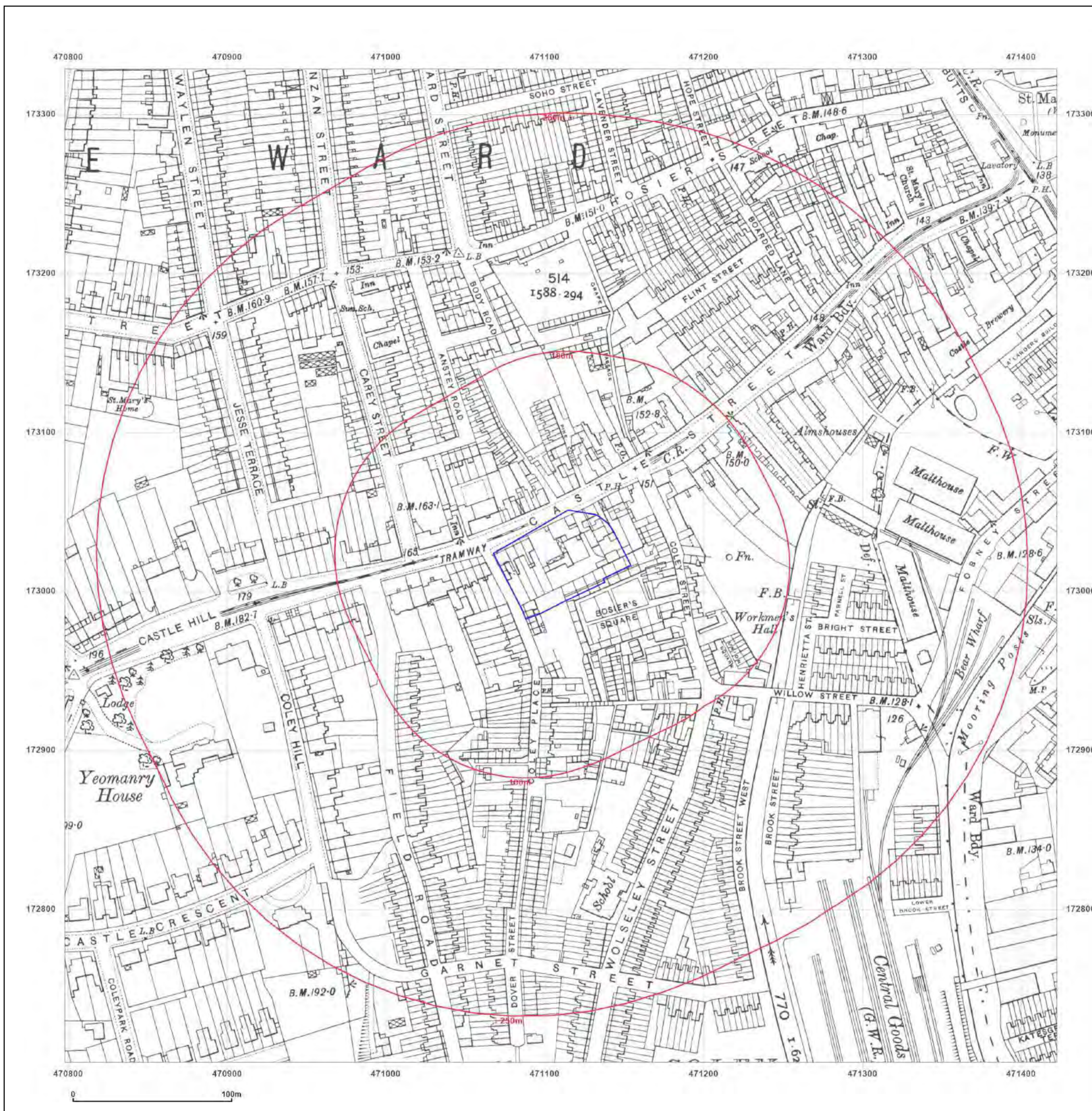


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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: County Series

Map date: 1931

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1931
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

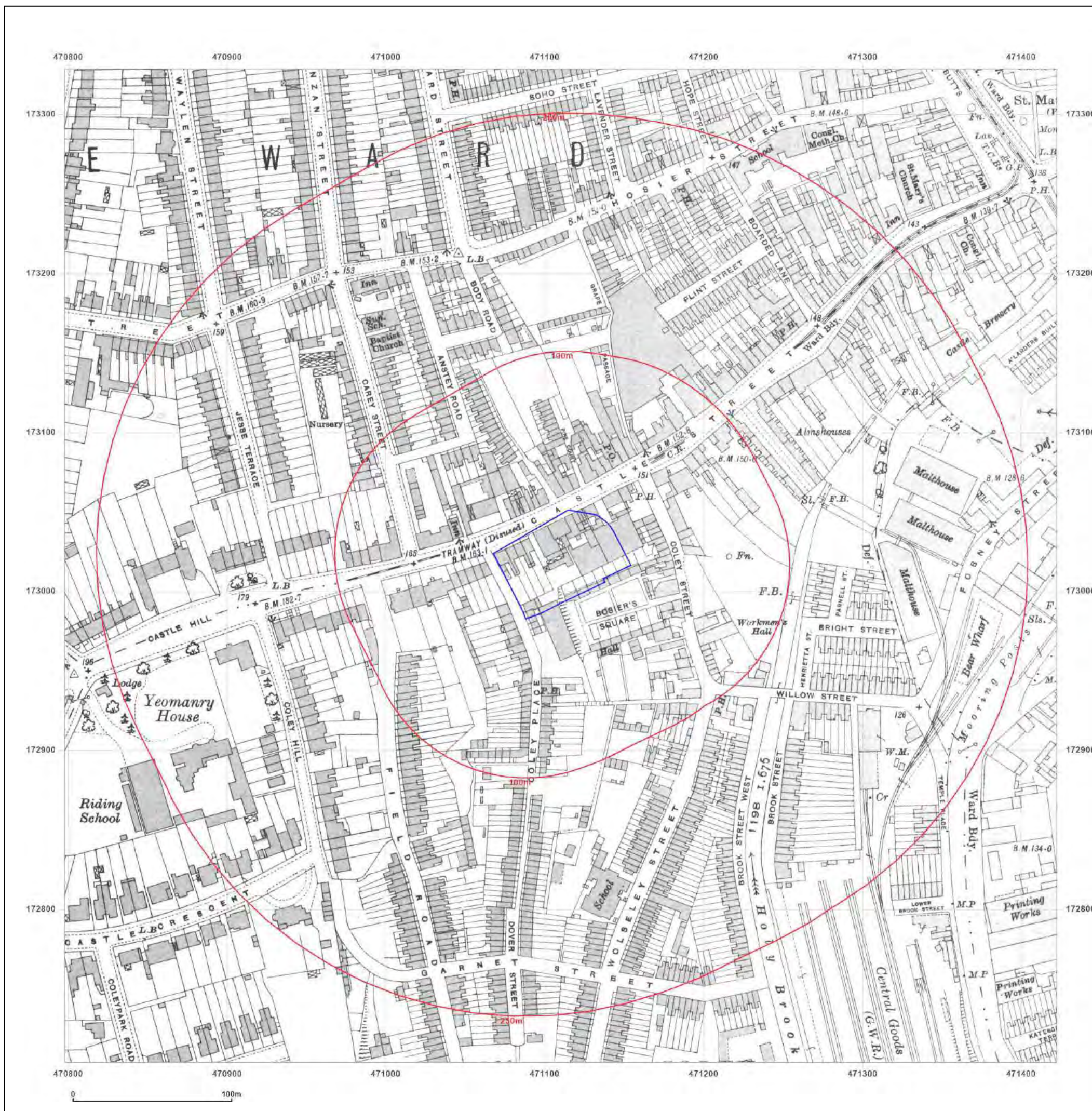


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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

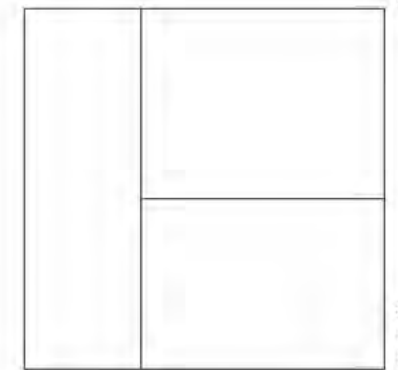
Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



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Edition 1958
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Levelled 1951



Surveyed 1957
Revised 1957
Edition 1958
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Levelled 1951

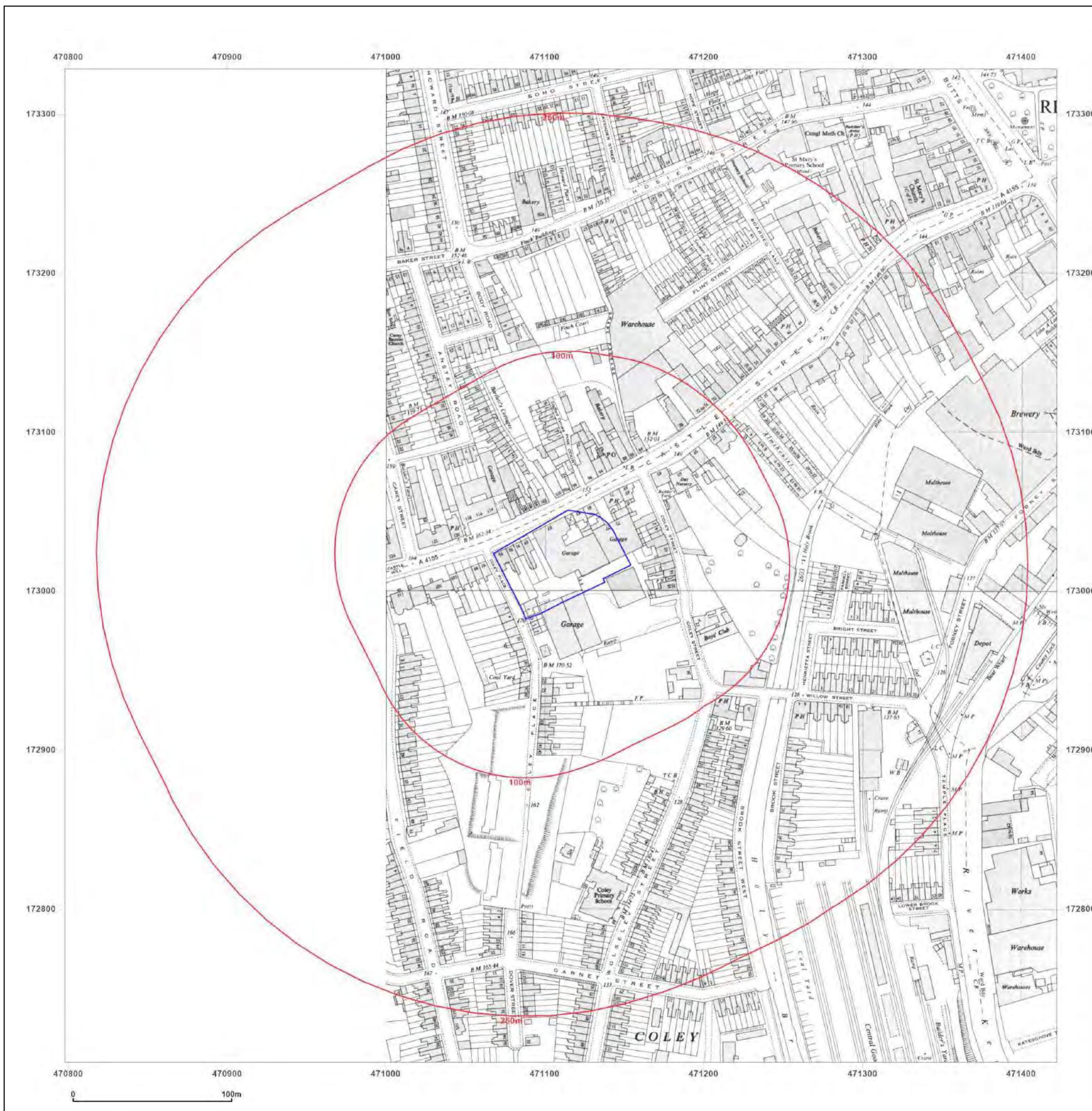


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Site Details:

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STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1957-1960

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1958
Edition N/A
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Levelled 1951

Surveyed 1957
Revised 1957
Edition N/A
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Revised 1959
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Copyright 1960
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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1959-1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition 1961
Copyright 1961
Levelled 1951

Surveyed 1959
Revised 1959
Edition 1961
Copyright 1961
Levelled 1951

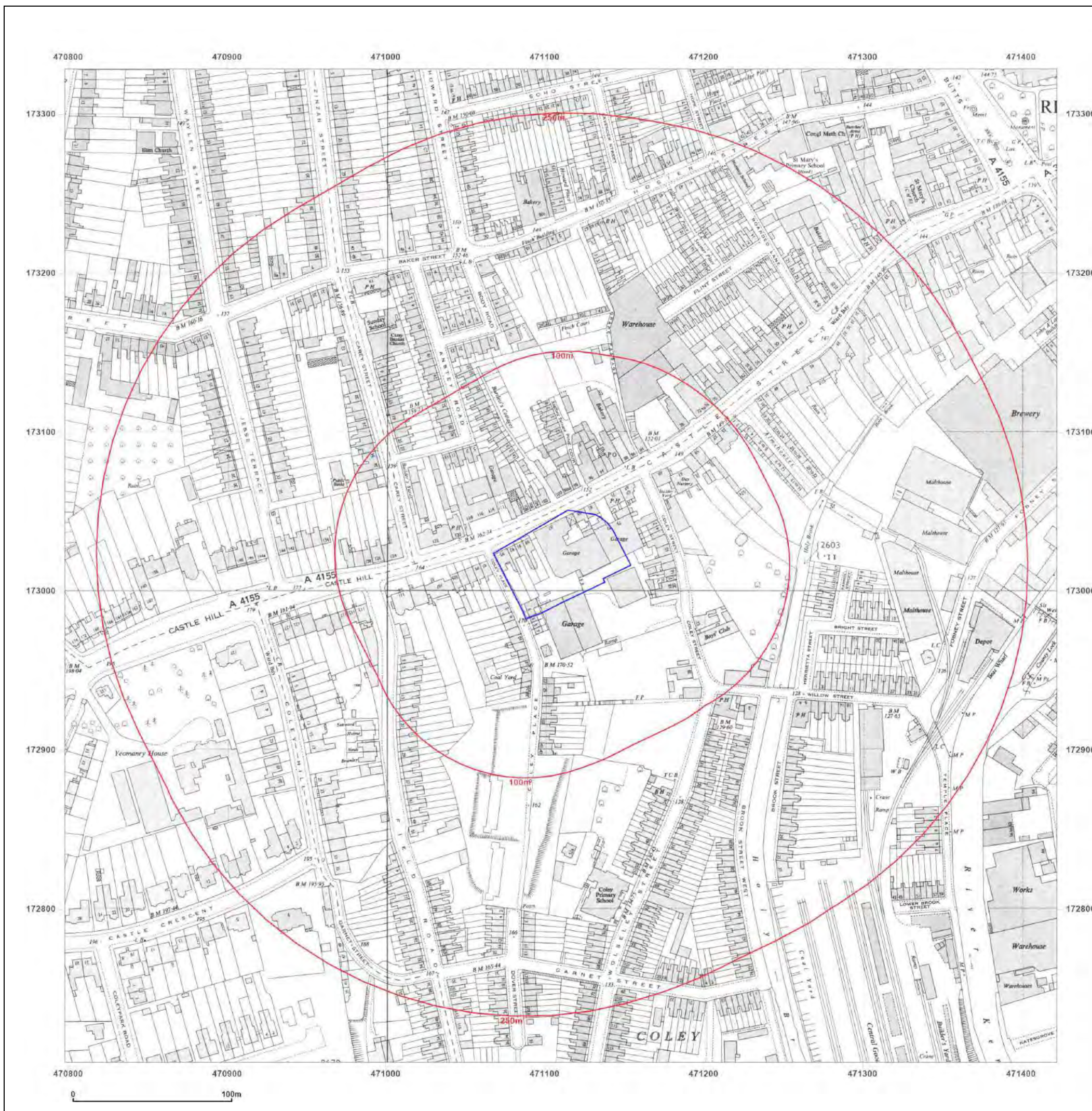


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Site Details:

87 ADVANTAGE, CASTLE STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1958-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
 Revised 1962
 Edition N/A
 Copyright 1962
 Levelled 1951

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

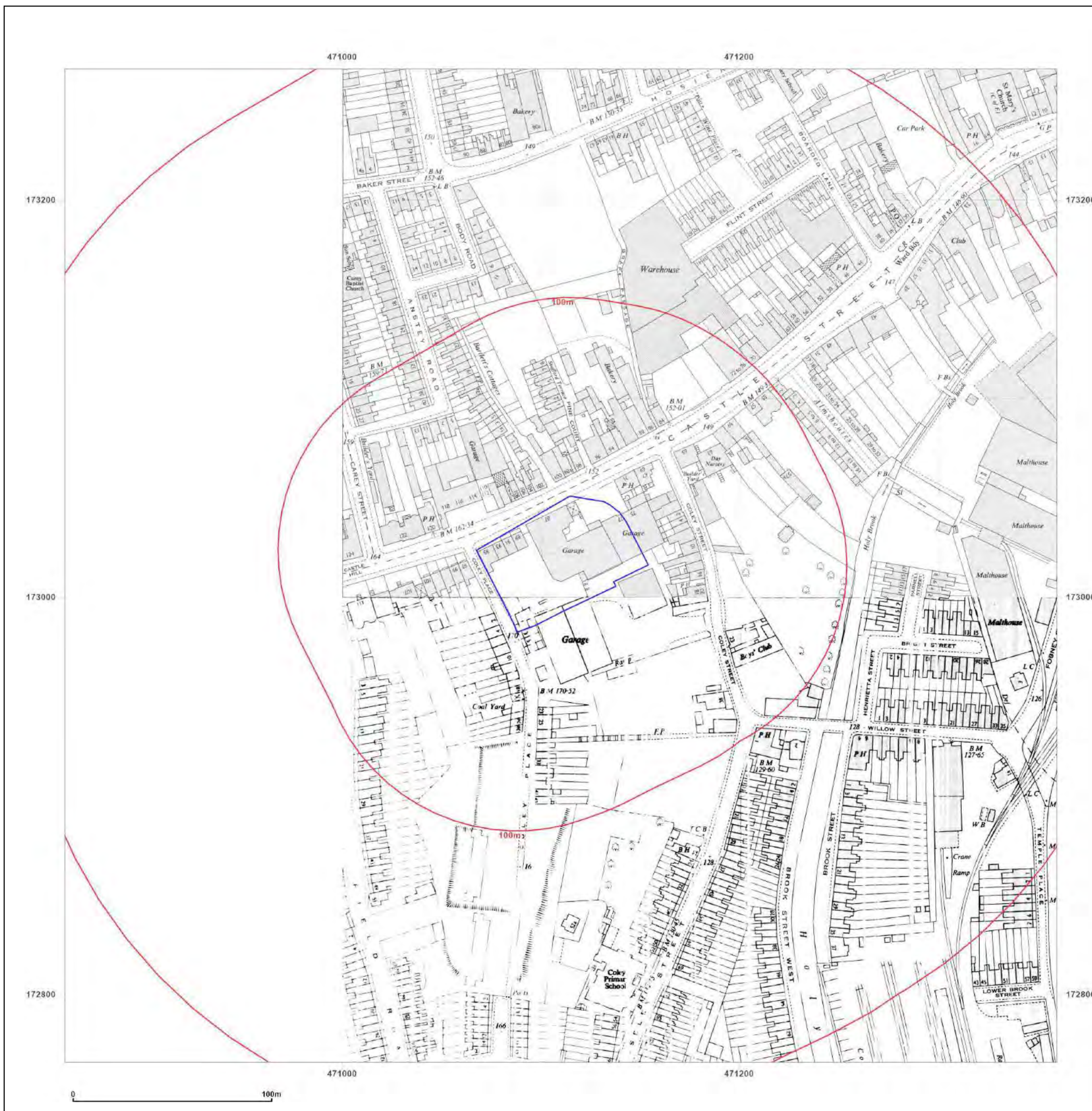


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Site Details:

87 ADVANTAGE, CASTLE
STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1971
Levelled 1951

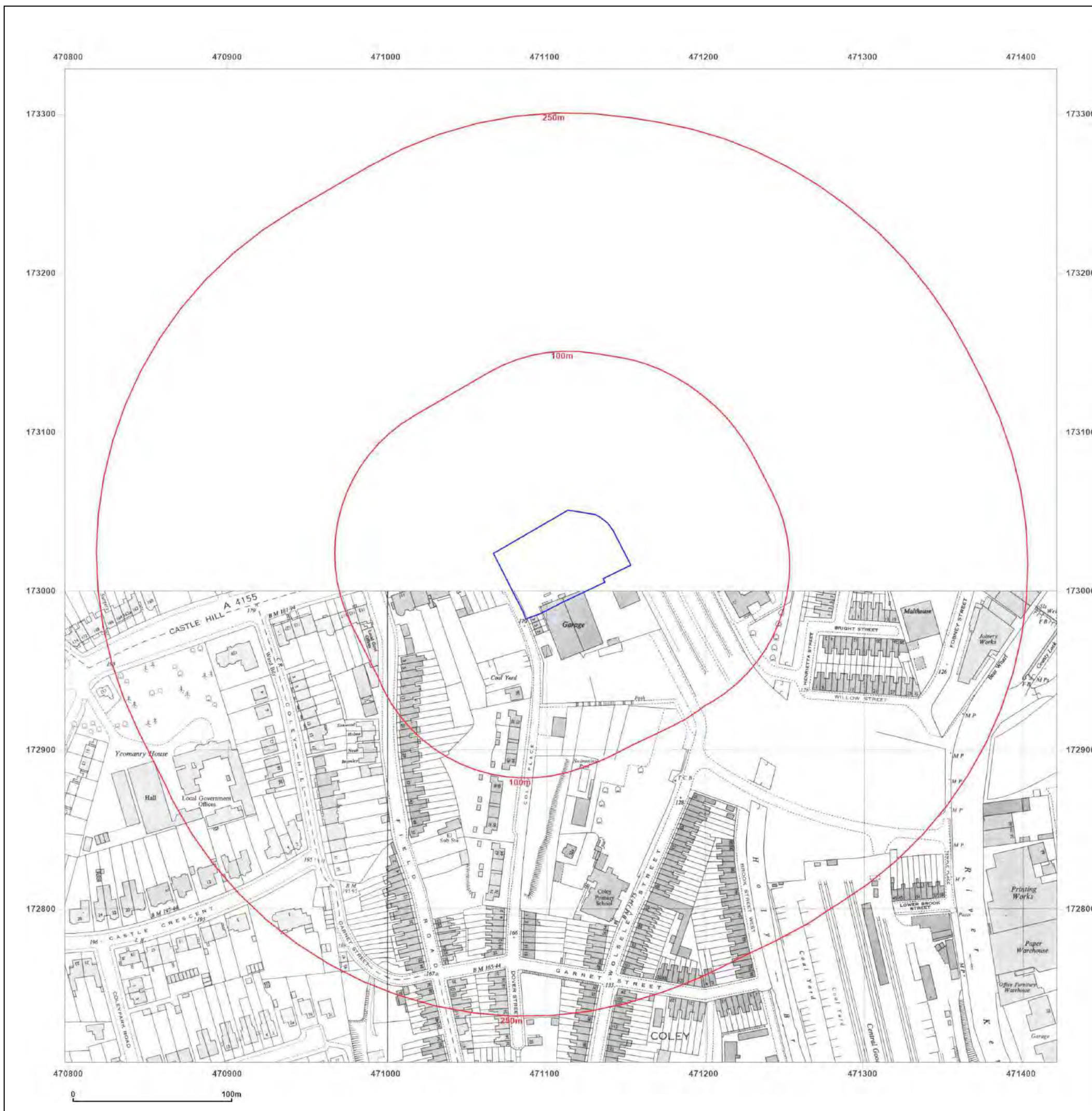


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Site Details:

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STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1969-1971

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1971
Edition N/A
Copyright 1971
Levelled 1951

Surveyed 1957
Revised 1969
Edition N/A
Copyright 1970
Levelled 1951

Surveyed 1959
Revised 1968
Edition N/A
Copyright 1969
Levelled 1951

Surveyed 1968
Revised 1968
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Site Details:

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Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1972-1977

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

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

Surveyed 1957
Revised 1971
Edition N/A
Copyright 1972
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Site Details:

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STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1976-1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed 1959
Revised 1975
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Site Details:

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STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1980

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1979
Edition N/A
Copyright 1988
Levelled 1973

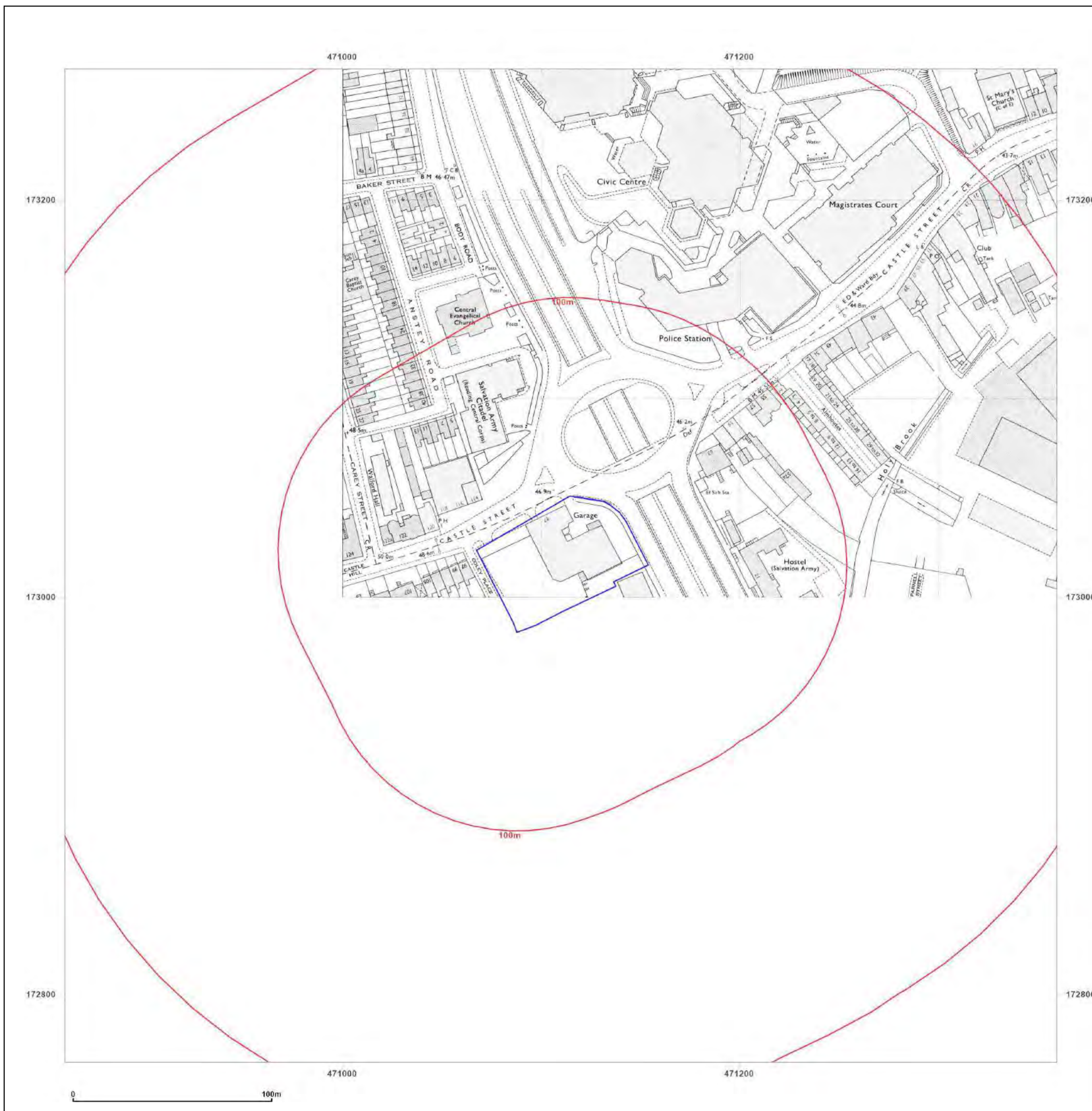


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Site Details:

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Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1986-1988

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1973
Revised 1988
Edition N/A
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Revised 1988
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Revised 1986
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Levelled 1972



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Site Details:

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Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

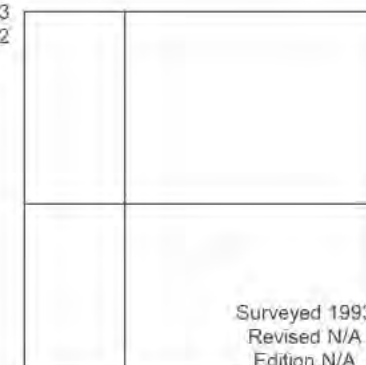
Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Site Details:

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Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1991-1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
 Revised N/A
 Edition N/A
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Surveyed 1993
 Revised N/A
 Edition N/A
 Copyright 1993
 Levelled N/A

Surveyed 1993
 Revised 1993
 Edition N/A
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Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1991
 Levelled 1972

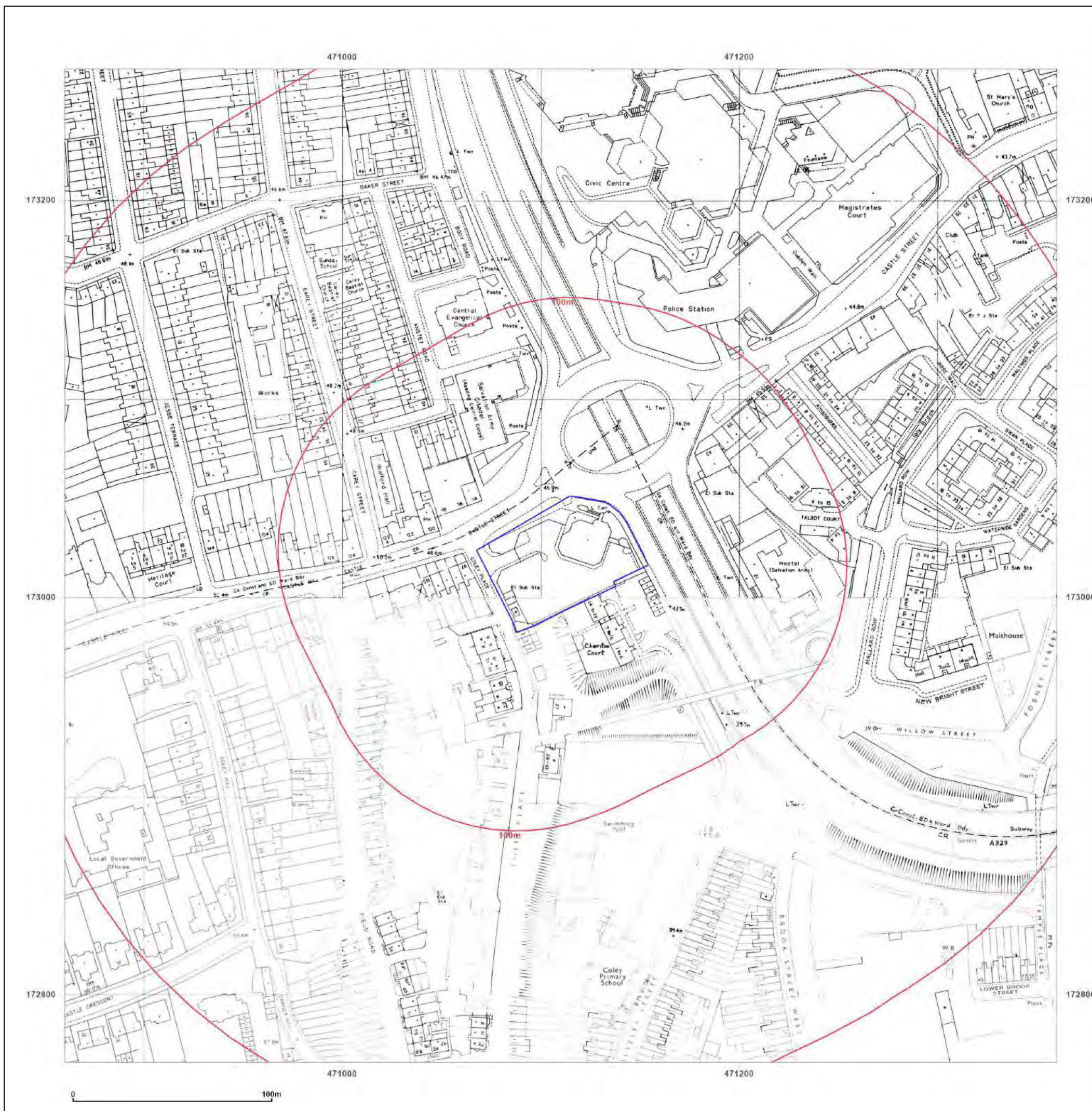


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Site Details:

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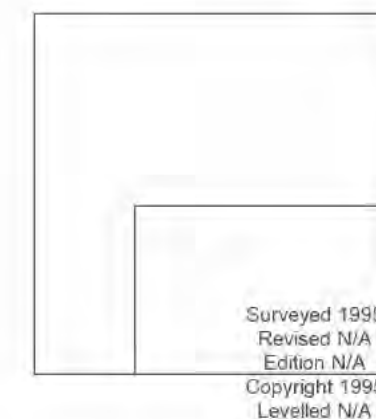
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Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000

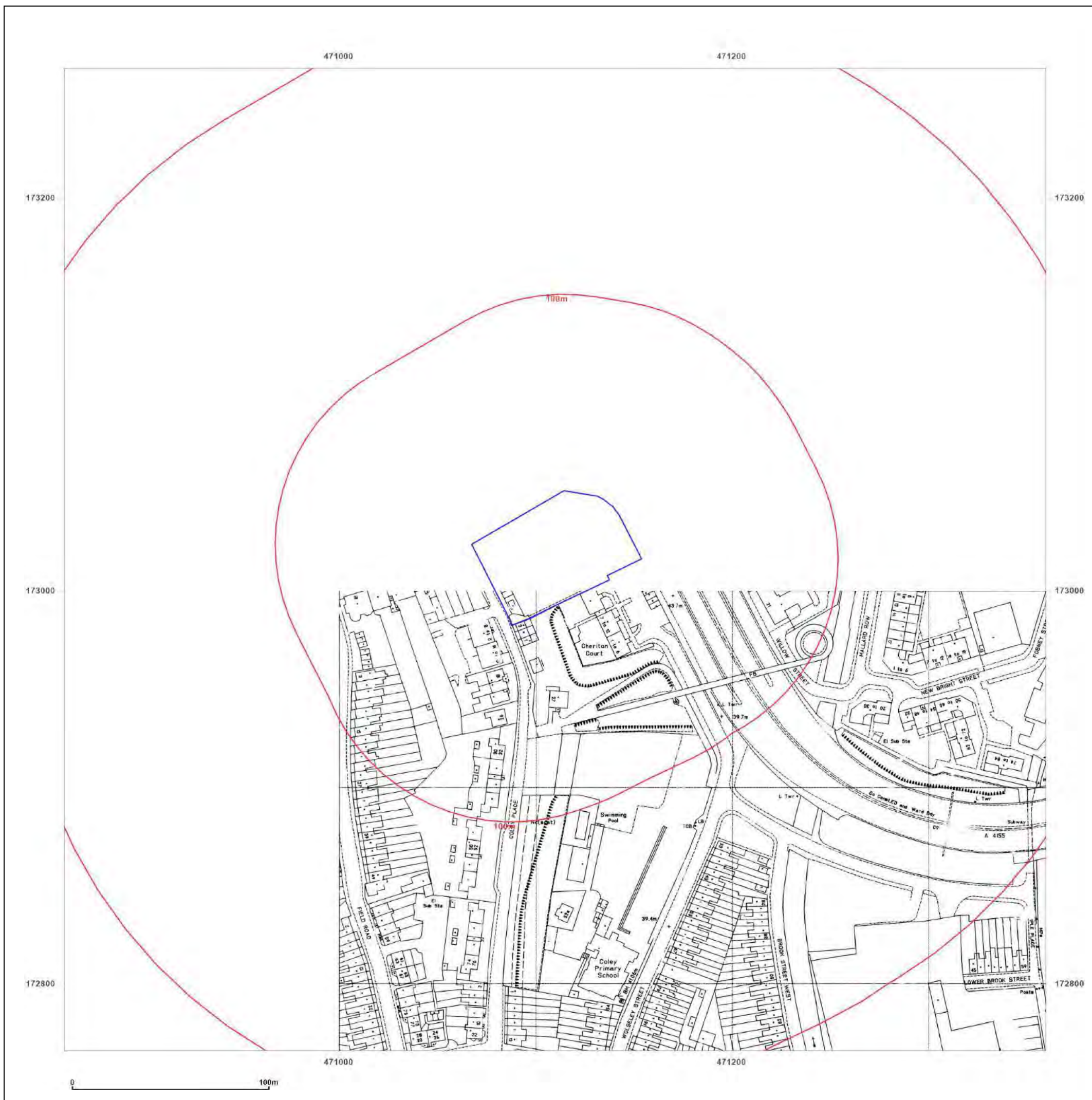


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Site Details:

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STREET, READING, RG1 7SN

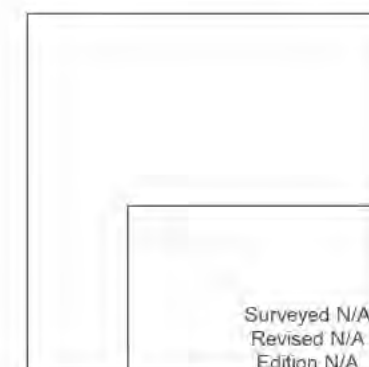
Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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

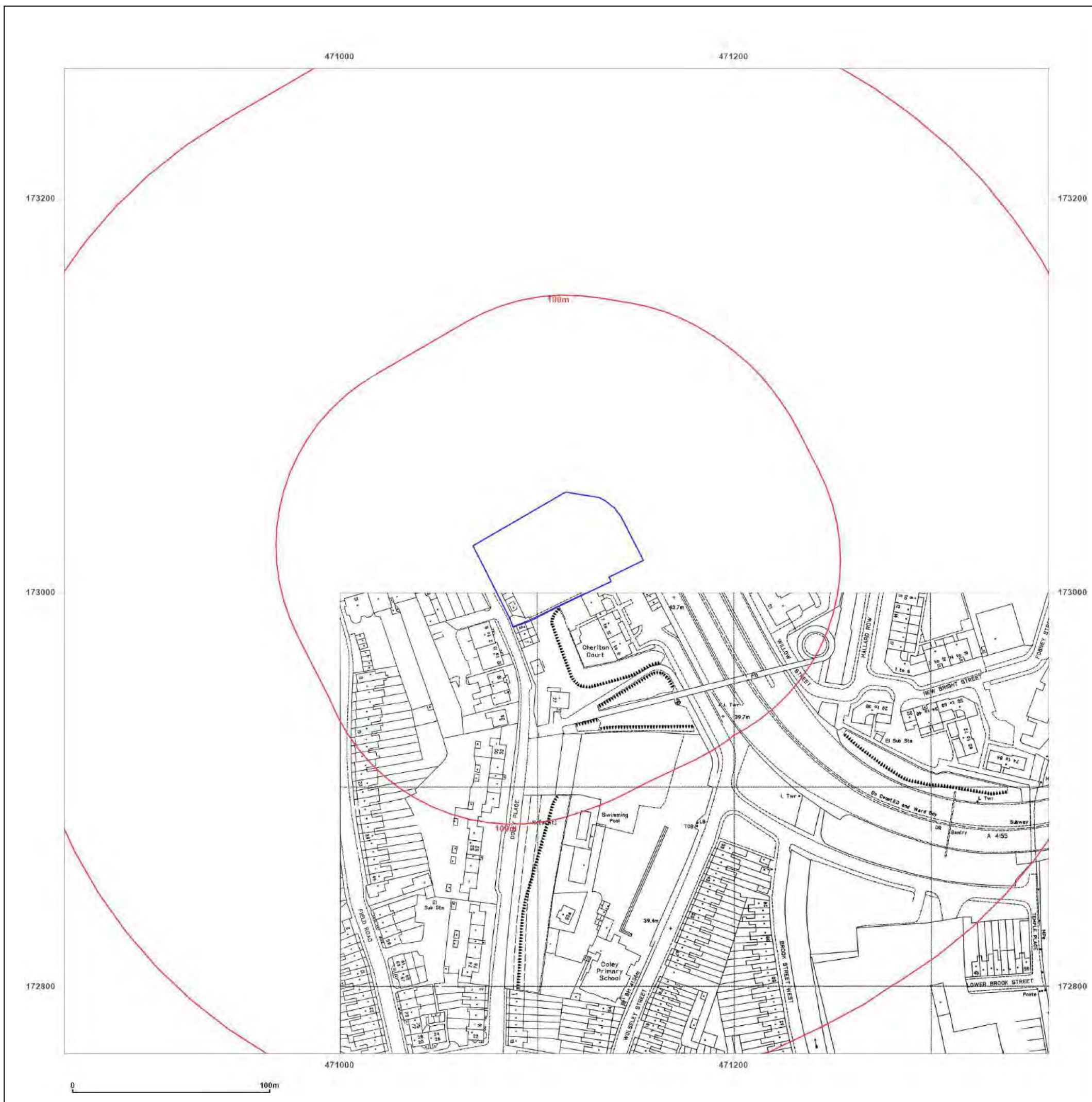


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Site Details:

87 ADVANTAGE, CASTLE STREET, READING, RG1 7SN

Client Ref: 24035
Report Ref: GS-QOC-E5U-ZZ5-PSQ
Grid Ref: 471110, 173016

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Appendix B – Groundsure Enviro Insight Report

87 ADVANTAGE, CASTLE STREET, READING, RG1 7SN

Order Details

Date: 22/05/2024
Your ref: 24035
Our Ref: GS-DR5-IEZ-UGI-RCZ

Site Details

Location: 471109 173016
Area: 0.34 ha
Authority: [Reading Borough Council](#) ↗



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[Summary of findings](#)

[p.2 >](#) [Aerial image](#)

[p.9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) [Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	0	23	44	-
18 >	1.2 >	Historical tanks >	1	0	11	35	-
20 >	1.3 >	Historical energy features >	1	1	6	32	-
22 >	1.4 >	Historical petrol stations >	0	0	0	8	-
23 >	1.5 >	Historical garages >	6	1	0	22	-
24	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	2.1 >	Historical industrial land uses >	0	0	24	52	-
28 >	2.2 >	Historical tanks >	1	0	13	60	-
31 >	2.3 >	Historical energy features >	1	2	13	69	-
35 >	2.4 >	Historical petrol stations >	0	0	0	12	-
35 >	2.5 >	Historical garages >	16	4	0	38	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
39	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
39	3.5	Historical waste sites	0	0	0	0	-
39	3.6	Licensed waste sites	0	0	0	0	-
39 >	3.7 >	Waste exemptions >	0	0	6	22	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
42 >	4.1 >	Recent industrial land uses >	1	1	12	-	-
43 >	4.2 >	Current or recent petrol stations >	0	0	0	4	-
44	4.3	Electricity cables	0	0	0	0	-
44	4.4	Gas pipelines	0	0	0	0	-
44	4.5	Sites determined as Contaminated Land	0	0	0	0	-



44	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
44	4.7	Regulated explosive sites	0	0	0	0	-
45	4.8	Hazardous substance storage/usage	0	0	0	0	-
45	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
45	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
45 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	3	-
46 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	5	-
47 >	4.13 >	Licensed Discharges to controlled waters >	0	0	3	1	-
48	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	List 1 Dangerous Substances	0	0	0	0	-
48	4.17	List 2 Dangerous Substances	0	0	0	0	-
48 >	4.18 >	Pollution Incidents (EA/NRW) >	0	1	1	9	-
50	4.19	Pollution inventory substances	0	0	0	0	-
50	4.20	Pollution inventory waste transfers	0	0	0	0	-
50	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
51 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
53 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
55 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
56 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
57	5.5	Groundwater vulnerability- local information	None (within 0m)				
58 >	5.6 >	Groundwater abstractions >	0	0	0	1	41
67 >	5.7 >	Surface water abstractions >	0	0	0	2	9
70 >	5.8 >	Potable abstractions >	0	0	0	1	30
76	5.9	Source Protection Zones	0	0	0	0	-
76	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	6.1 >	Water Network (OS MasterMap) >	0	0	15	-	-



79 >	6.2 >	Surface water features >	0	0	5	-	-
79 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
79 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
80 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
81	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
81	7.2	Historical Flood Events	0	0	0	-	-
81	7.3	Flood Defences	0	0	0	-	-
82	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
82	7.5	Flood Storage Areas	0	0	0	-	-
83	7.6	Flood Zone 2	None (within 50m)				
83	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding >					
84 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				

Page	Section	Groundwater flooding >					
86 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
87	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
87	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
87	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
87	10.4	Special Protection Areas (SPA)	0	0	0	0	0
88	10.5	National Nature Reserves (NNR)	0	0	0	0	0
88	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
88	10.7	Designated Ancient Woodland	0	0	0	0	0
88	10.8	Biosphere Reserves	0	0	0	0	0
89	10.9	Forest Parks	0	0	0	0	0
89	10.10	Marine Conservation Zones	0	0	0	0	0
89	10.11	Green Belt	0	0	0	0	0
89	10.12	Proposed Ramsar sites	0	0	0	0	0



89	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
90	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
90	10.15	Nitrate Sensitive Areas	0	0	0	0	0
90 >	10.16 >	Nitrate Vulnerable Zones >	0	0	1	0	1
91	10.17	SSSI Impact Risk Zones	0	-	-	-	-
91	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92	11.1	World Heritage Sites	0	0	0	-	-
93	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
93	11.3	National Parks	0	0	0	-	-
93 >	11.4 >	Listed Buildings >	0	4	38	-	-
95 >	11.5 >	Conservation Areas >	0	2	0	-	-
95	11.6	Scheduled Ancient Monuments	0	0	0	-	-
96	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
98	12.2	Open Access Land	0	0	0	-	-
98	12.3	Tree Felling Licences	0	0	0	-	-
98	12.4	Environmental Stewardship Schemes	0	0	0	-	-
98	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
99	13.1	Priority Habitat Inventory	0	0	0	-	-
99	13.2	Habitat Networks	0	0	0	-	-
99	13.3	Open Mosaic Habitat	0	0	0	-	-
99	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
100 >	14.1 >	10k Availability >	Identified (within 500m)				
101 >	14.2 >	Artificial and made ground (10k) >	1	1	3	5	-
103 >	14.3 >	Superficial geology (10k) >	0	0	4	1	-

104	14.4	Landslip (10k)	0	0	0	0	-
105 >	14.5 >	Bedrock geology (10k) >	2	0	0	2	-
106	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
107 >	15.1 >	50k Availability >	Identified (within 500m)				
108 >	15.2 >	Artificial and made ground (50k) >	0	0	0	2	-
109	15.3	Artificial ground permeability (50k)	0	0	-	-	-
110 >	15.4 >	Superficial geology (50k) >	0	0	4	1	-
111	15.5	Superficial permeability (50k)	None (within 50m)				
111	15.6	Landslip (50k)	0	0	0	0	-
111	15.7	Landslip permeability (50k)	None (within 50m)				
112 >	15.8 >	Bedrock geology (50k) >	2	0	0	2	-
113 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
113	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	16.1 >	BGS Boreholes >	0	0	38	-	-
Page	Section	Natural ground subsidence >					
117 >	17.1 >	Shrink swell clays >	Moderate (within 50m)				
118 >	17.2 >	Running sands >	Very low (within 50m)				
120 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
121 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
122 >	17.5 >	Landslides >	Very low (within 50m)				
124 >	17.6 >	Ground dissolution of soluble rocks >	Moderate (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	18.1 >	BritPits >	0	1	23	8	-
133 >	18.2 >	Surface ground workings >	0	0	1	-	-
133	18.3	Underground workings	0	0	0	0	0
134	18.4	Underground mining extents	0	0	0	0	-
134	18.5	Historical Mineral Planning Areas	0	0	0	0	-



134 >	18.6 >	Non-coal mining >	2	1	0	2	3
135 >	18.7 >	JPB mining areas >	Identified (within 0m)				
136	18.8	The Coal Authority non-coal mining	0	0	0	0	-
136 >	18.9 >	Researched mining >	6	13	25	5	-
138	18.10	Mining record office plans	0	0	0	0	-
138	18.11	BGS mine plans	0	0	0	0	-
138	18.12	Coal mining	None (within 0m)				
139	18.13	Brine areas	None (within 0m)				
139	18.14	Gypsum areas	None (within 0m)				
139	18.15	Tin mining	None (within 0m)				
139	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
140 >	19.1 >	Natural cavities >	0	3	19	12	-
144 >	19.2 >	Mining cavities >	0	1	11	3	20
146	19.3	Reported recent incidents	0	0	0	0	-
146	19.4	Historical incidents	0	0	0	0	-
147	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
148 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
150 >	21.1 >	BGS Estimated Background Soil Chemistry >	4	2	-	-	-
150	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
151	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
152	22.1	Underground railways (London)	0	0	0	-	-
152	22.2	Underground railways (Non-London)	0	0	0	-	-
153	22.3	Railway tunnels	0	0	0	-	-
153 >	22.4 >	Historical railway and tunnel features >	0	0	17	-	-
154	22.5	Royal Mail tunnels	0	0	0	-	-



154	22.6	Historical railways	0	0	0	-	-
154	22.7	Railways	0	0	0	-	-
154	22.8	Crossrail 1	0	0	0	0	-
154	22.9	Crossrail 2	0	0	0	0	-
155	22.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 30/04/2022

Site Area: 0.34ha



Recent site history - 2019 aerial photograph



Capture Date: 29/06/2019

Site Area: 0.34ha



Recent site history - 2013 aerial photograph



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Capture Date: 08/07/2013

Site Area: 0.34ha



Recent site history - 2010 aerial photograph



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Capture Date: 22/09/2010

Site Area: 0.34ha



Recent site history - 1999 aerial photograph



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Capture Date: 04/09/1999

Site Area: 0.34ha



OS MasterMap site plan

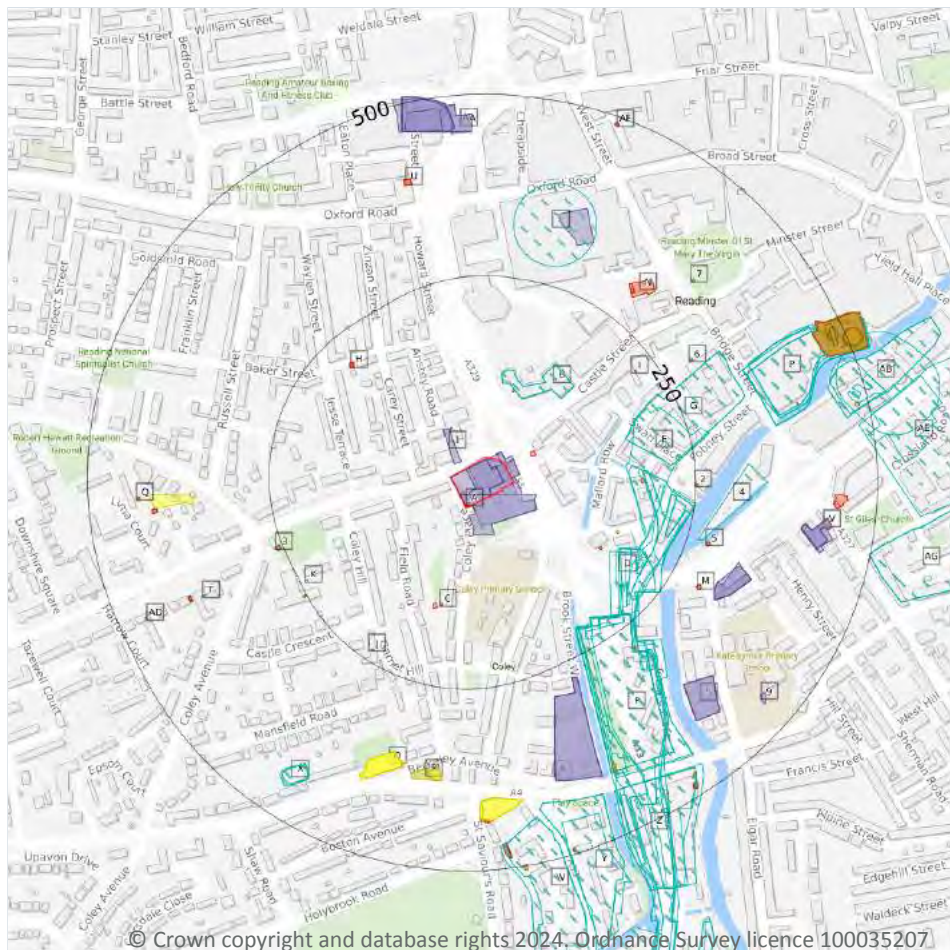


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Site Area: 0.34ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

67

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15](#) >

ID	Location	Land use	Dates present	Group ID
B	90m NE	Police Station	1989 - 1994	1911315



ID	Location	Land use	Dates present	Group ID
B	90m NE	Police Station	1977	1918131
E	156m E	Unspecified Commercial/Industrial	1933	1874676
F	158m E	Railway Sidings	1938	1908437
F	162m SE	Railway Sidings	1962	1894468
G	165m E	Brewery	1971	1886356
G	165m E	Brewery	1977	1891852
D	170m SE	Railway Building	1962	1866753
F	171m E	Railway Sidings	1913	1962341
F	172m SE	Goods Depot	1933	1941720
F	178m E	Railway Sidings	1933	1904836
F	179m E	Railway Sidings	1938	1907664
F	185m SE	Goods Depot	1938	1957749
E	196m E	Railway Building	1913	1866746
D	199m SE	Railway Building	1962	1866747
D	200m SE	Railway Buildings	1913	1962923
D	203m SE	Railway Buildings	1938	1963273
E	211m E	Unspecified Commercial/Industrial	1933	1874678
F	213m SE	Unspecified Depot	1971	1921180
F	213m SE	Railway Sidings	1971	1896950
F	213m SE	Railway Sidings	1977	1927457
F	213m SE	Unspecified Depot	1977	1966820
E	220m E	Railway Building	1938	1866743
4	265m E	Hospitals	1898	1883028
L	275m N	Smithy	1913	1875838
F	279m SE	Railway Building	1962	1943677
F	297m SE	Goods Depot	1913	1901578
F	306m SE	Railway Building	1913	1935791
F	337m SE	Railway Building	1938	1866744



ID	Location	Land use	Dates present	Group ID
P	351m NE	Brewery	1971	1893062
P	351m NE	Brewery	1977	1899772
F	352m SE	Railway Building	1938	1866750
P	354m E	Unspecified Commercial/Industrial	1898	1874675
P	354m E	Brewery	1938	1887421
P	354m E	Brewery	1913	1939065
P	361m NE	Brewery	1938	1954219
P	361m NE	Brewery	1933	1909883
F	390m SE	Railway Building	1938	1866752
X	415m SW	Unspecified Ground Workings	1933 - 1938	1968105
X	417m SW	Unspecified Heap	1938	1945602
X	420m SW	Unspecified Pit	1962	1879445
Y	421m S	Unspecified Works	1971	1898791
Y	421m S	Unspecified Depot	1977	1947927
W	436m S	Unspecified Factory	1977	1964746
W	438m S	Unspecified Factory	1971	1953016
Z	439m SE	Unspecified Works	1989 - 1994	1900248
Z	440m SE	Unspecified Commercial/Industrial	1933 - 1938	1945307
Z	447m SE	Unspecified Works	1977	1907920
Z	448m SE	Railway Building	1938 - 1962	1921607
AB	450m E	Unspecified Depot	1989 - 1994	1895129
AB	450m E	Unspecified Depot	1977	1945841
Y	453m S	Unspecified Depot	1989 - 1994	1956956
AB	456m E	Unspecified Commercial/Industrial	1933	1874677
Z	463m SE	Railway Building	1938	1866745
AB	464m E	Unspecified Mill	1898	1872613
Z	470m SE	Railway Building	1913	1866742
AC	473m E	Unspecified Tanks	1977	1888600



ID	Location	Land use	Dates present	Group ID
AC	473m E	Unspecified Tanks	1971	1947112
AB	475m E	Railway Sidings	1933	1883121
AC	477m E	Unspecified Tank	1898	1858411
AE	482m E	Unspecified Factory	1977	1914345
Z	492m SE	Unspecified Tank	1913	1858412
AE	492m E	Unspecified Factory	1971	1942763
AC	494m E	Unspecified Tank	1898	1914554
AC	494m E	Unspecified Tank	1913	1961041
AG	499m E	Tin Works	1938	1902810
AG	499m E	Tin Works	1913	1945389

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	47
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1972	305872
B	96m N	Unspecified Tank	1879	327778
B	96m N	Unspecified Tank	1879	319808
D	156m E	Unspecified Tank	1879	318016
I	221m NE	Unspecified Tank	1970	314248
I	221m NE	Unspecified Tank	1980	328216
J	233m SW	Unspecified Tank	1879	314894
J	233m SW	Unspecified Tank	1879	317445



ID	Location	Land use	Dates present	Group ID
I	237m NE	Unspecified Tank	1970 - 1980	321457
K	240m SW	Unspecified Tank	1879	325807
K	240m SW	Unspecified Tank	1879	323777
2	249m E	Unspecified Tank	1970 - 1988	325725
K	251m SW	Unspecified Tank	1976 - 1988	316805
F	278m SE	Tanks	1879	325211
6	292m NE	Unspecified Tank	1970 - 1980	314799
7	361m NE	Unspecified Tank	1931	305870
T	374m W	Unspecified Tank	1879	327697
T	374m W	Unspecified Tank	1879	313068
P	404m E	Tank or Trough	1879	325240
P	404m E	Tank or Trough	1879	326975
F	405m SE	Tanks	1931	310566
P	405m E	Tank or Trough	1879	312010
Q	428m W	Unspecified Tank	1879	320964
Q	429m W	Unspecified Tank	1900 - 1931	326294
AC	458m NE	Gas Works	1879 - 1912	313448
AC	460m NE	Gas Works	1879	319202
AD	462m W	Unspecified Tank	1879	316655
AD	462m W	Unspecified Tank	1879	323254
Z	469m SE	Unspecified Tank	1972 - 1996	323558
Z	473m SE	Unspecified Tank	1972	305767
AC	476m NE	Tanks	1962	319738
AC	476m E	Gasometer	1900	321837
AC	476m NE	Tanks	1968 - 1979	325975
AC	477m NE	Gasometer	1879	321935
AC	478m E	Gasometer	1879	315866
AC	479m E	Tanks	1957 - 1958	316943



ID	Location	Land use	Dates present	Group ID
AC	479m E	Tanks	1956	317508
AB	481m E	Unspecified Tank	1879 - 1900	318579
AC	488m E	Unspecified Tank	1956 - 1958	312932
Z	491m SE	Unspecified Tank	1912	305768
Y	491m S	Unspecified Tank	1986 - 1991	324354
Y	491m S	Tanks	1972	310568
AC	493m E	Gasometer	1900 - 1912	325036
AC	495m E	Gasometer	1879	327004
AC	495m E	Gasometer	1879	319443
AC	496m E	Gasometer	1879	313486
W	498m S	Unspecified Tank	1976 - 1987	312696

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	40
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Electricity Substation	1988	189825
A	38m NE	Electricity Substation	1980 - 1988	205200
C	136m S	Electricity Substation	1986 - 1991	199489
C	137m S	Electricity Substation	1968 - 1996	200123
D	147m SE	Electricity Substation	1995 - 1996	208343
E	176m E	Electricity Substation	1988	189770
H	201m NW	Electricity Substation	1971	202101



ID	Location	Land use	Dates present	Group ID
H	202m NW	Electricity Substation	1986 - 1993	196544
3	253m W	Electricity Substation	1976 - 1993	209772
5	277m E	Electricity Substation	1969	189771
M	288m SE	Electricity Substation	1972 - 1996	196763
N	289m NE	Electricity Substation	1980 - 1988	209601
N	293m NE	Electricity Substation	1970	196813
8	386m S	Electricity Substation	1986 - 1996	197506
U	389m N	Electricity Substation	1980 - 1988	200961
U	389m N	Electricity Substation	1970	197671
T	394m SW	Electricity Substation	1969 - 1976	211458
T	394m W	Electricity Substation	1993	194055
T	395m W	Electricity Substation	1988	198920
Q	406m W	Electricity Substation	1968 - 1993	200689
Q	407m W	Electricity Substation	1969 - 1988	204045
V	422m E	Electricity Substation	1982	212443
V	423m E	Electricity Substation	1979 - 1982	210833
W	428m S	Electricity Substation	1995 - 1996	208703
W	430m S	Electricity Substation	1968 - 1991	197451
V	440m E	Electricity Substation	1982	212020
V	441m E	Electricity Substation	1982	200724
AC	458m NE	Gas Works	1879 - 1912	196480
AC	460m NE	Gas Works	1879	209480
W	465m S	Electricity Substation	1969 - 1972	205198
W	466m S	Electricity Substation	1986	198885
AC	476m E	Gasometer	1900	208605
AC	477m NE	Gasometer	1879	203796
Z	481m SE	Electricity Substation	1968 - 1996	206490
Z	481m SE	Electricity Substation	1969 - 1991	208858



ID	Location	Land use	Dates present	Group ID
AF	487m N	Electricity Substation	1993	206172
AF	487m N	Electricity Substation	1994 - 1996	200407
AC	493m E	Gasometer	1879 - 1912	199598
AC	495m E	Gasometer	1879	201799
AC	498m NE	Electricity Substation	1968 - 1979	197972

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

8

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
O	350m S	Filling Station	1968	3448
O	350m S	Filling Station	1969 - 1976	3501
O	350m S	Filling Station	1988	3399
Q	355m W	Filling Station	1976 - 1988	3565
R	357m S	Filling Station	1969 - 1972	3493
R	362m S	Filling Station	1968	3435
W	400m S	Filling Station	1969 - 1972	3555
W	402m S	Filling Station	1968	3400

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

29

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1980	63231
A	On site	Garage	1957 - 1958	63540
A	On site	Garage	1969 - 1972	64281
A	On site	Garage	1957 - 1970	64972
A	On site	Garage	1957 - 1958	65147
A	On site	Garage	1957 - 1968	65185
1	12m NW	Garage	1957 - 1962	64498
F	273m SE	Garage	1969 - 1972	64162
F	273m SE	Garage	1957 - 1968	64630
M	311m SE	Garage	1957 - 1969	64678
M	311m SE	Garage	1957 - 1968	64478
M	312m SE	Garage	1972	61802
L	314m N	Garage	1957 - 1962	63734
R	356m S	Garage	1959	62490
R	357m S	Garage	1957	61416
R	357m S	Garage	1957	62275
S	363m SE	Garage	1969 - 1972	65361
S	363m SE	Garage	1968	62813
V	400m E	Garage	1957	62961
V	400m E	Garage	1957	62403
V	400m E	Garage	1959	62546



ID	Location	Land use	Dates present	Group ID
9	446m SE	Garage	1972	60824
AA	448m N	Garage	1957 - 1958	63727
AA	449m N	Garage	1957 - 1962	63978
AA	451m N	Car Park and Garage	1994	63159
AA	451m N	Car Park and Garage	1986 - 1996	64617
AA	452m N	Multistorey Garage and Car Park	1979 - 1993	64353
AA	453m N	Car Park and Garage	1969	62265
AA	462m N	Garage	1971	60828

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

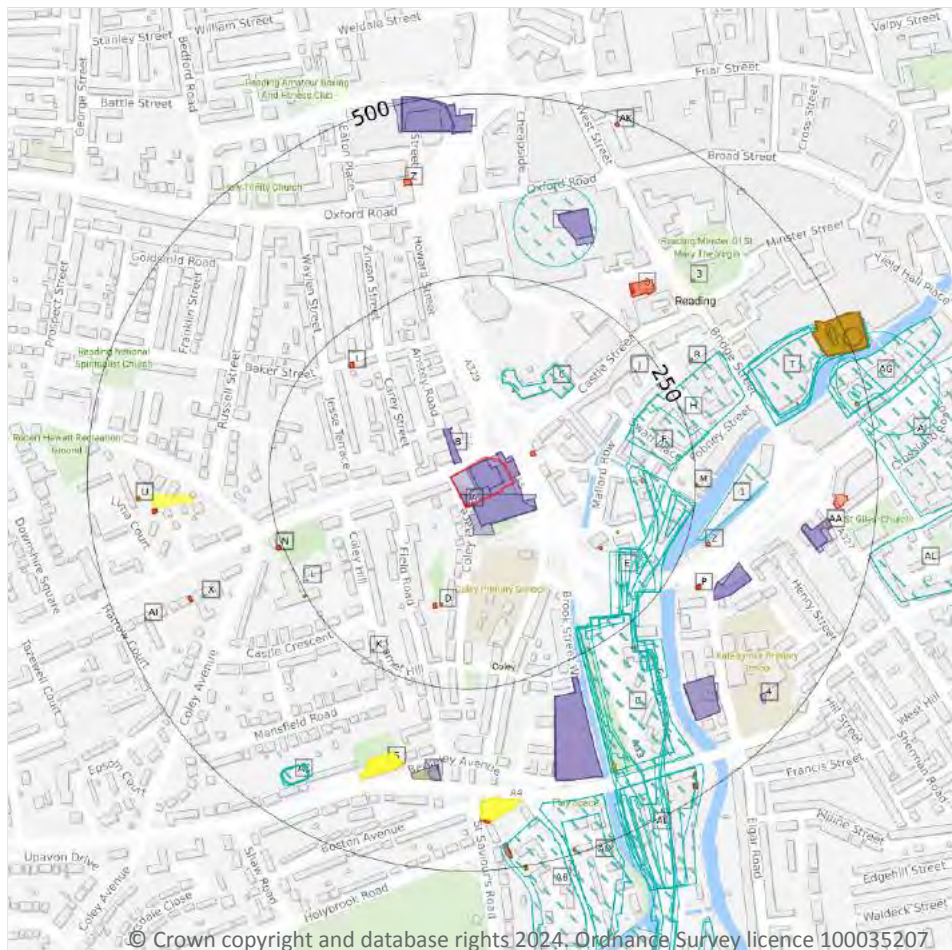
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

76

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
C	90m NE	Police Station	1994	1911315
C	90m NE	Police Station	1989	1911315
C	90m NE	Police Station	1977	1918131



ID	Location	Land Use	Date	Group ID
F	156m E	Unspecified Commercial/Industrial	1933	1874676
G	158m E	Railway Sidings	1938	1908437
G	162m SE	Railway Sidings	1962	1894468
H	165m E	Brewery	1977	1891852
H	165m E	Brewery	1971	1886356
E	170m SE	Railway Building	1962	1866753
G	171m E	Railway Sidings	1913	1962341
G	172m SE	Goods Depot	1933	1941720
G	178m E	Railway Sidings	1933	1904836
G	179m E	Railway Sidings	1938	1907664
G	185m SE	Goods Depot	1938	1957749
F	196m E	Railway Building	1913	1866746
E	199m SE	Railway Building	1962	1866747
E	200m SE	Railway Buildings	1913	1962923
E	203m SE	Railway Buildings	1938	1963273
F	211m E	Unspecified Commercial/Industrial	1933	1874678
G	213m SE	Unspecified Depot	1977	1966820
G	213m SE	Railway Sidings	1977	1927457
G	213m SE	Railway Sidings	1971	1896950
G	213m SE	Unspecified Depot	1971	1921180
F	220m E	Railway Building	1938	1866743
1	265m E	Hospitals	1898	1883028
O	275m N	Smithy	1913	1875838
G	279m SE	Railway Building	1962	1943677
G	297m SE	Goods Depot	1938	1957749
G	297m SE	Goods Depot	1913	1901578
G	306m SE	Railway Building	1913	1935791
G	337m SE	Railway Building	1938	1866744



ID	Location	Land Use	Date	Group ID
T	351m NE	Brewery	1977	1899772
T	351m NE	Brewery	1971	1893062
G	352m SE	Railway Building	1938	1866750
T	354m E	Brewery	1938	1887421
T	354m E	Brewery	1913	1939065
T	354m E	Unspecified Commercial/Industrial	1898	1874675
T	361m NE	Brewery	1938	1954219
T	361m NE	Brewery	1933	1909883
G	390m SE	Railway Building	1938	1866752
AC	415m SW	Unspecified Ground Workings	1933	1968105
AC	417m SW	Unspecified Heap	1938	1945602
AC	417m SW	Unspecified Heap	1938	1945602
AC	418m SW	Unspecified Ground Workings	1938	1968105
AC	420m SW	Unspecified Pit	1962	1879445
AD	421m S	Unspecified Depot	1977	1947927
AD	421m S	Unspecified Works	1971	1898791
AB	436m S	Unspecified Factory	1977	1964746
AB	438m S	Unspecified Factory	1971	1953016
AE	439m SE	Unspecified Works	1994	1900248
AE	439m SE	Unspecified Works	1989	1900248
AE	440m SE	Unspecified Commercial/Industrial	1938	1945307
AE	440m SE	Unspecified Commercial/Industrial	1933	1945307
AE	447m SE	Unspecified Works	1977	1907920
AE	448m SE	Railway Building	1938	1921607
AG	450m E	Unspecified Depot	1994	1895129
AG	450m E	Unspecified Depot	1989	1895129
AG	450m E	Unspecified Depot	1977	1945841
AD	453m S	Unspecified Depot	1994	1956956



ID	Location	Land Use	Date	Group ID
AD	453m S	Unspecified Depot	1989	1956956
AE	456m S	Railway Building	1962	1921607
AG	456m E	Unspecified Commercial/Industrial	1933	1874677
AE	463m SE	Railway Building	1938	1866745
AG	464m E	Unspecified Mill	1898	1872613
AE	470m SE	Railway Building	1913	1866742
AH	473m E	Unspecified Tanks	1977	1888600
AH	473m E	Unspecified Tanks	1971	1947112
AG	475m E	Railway Sidings	1933	1883121
AH	477m E	Unspecified Tank	1898	1858411
AJ	482m E	Unspecified Factory	1977	1914345
AE	492m SE	Unspecified Tank	1913	1858412
AJ	492m E	Unspecified Factory	1971	1942763
AH	494m E	Unspecified Tank	1913	1961041
AH	494m E	Unspecified Tank	1898	1914554
AL	499m E	Tin Works	1938	1902810
AL	499m E	Tin Works	1913	1945389

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

74

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1972	305872
C	96m N	Unspecified Tank	1879	327778
C	96m N	Unspecified Tank	1879	319808



ID	Location	Land Use	Date	Group ID
E	156m E	Unspecified Tank	1879	318016
E	156m E	Unspecified Tank	1879	318016
J	221m NE	Unspecified Tank	1970	314248
J	221m NE	Unspecified Tank	1980	328216
K	233m SW	Unspecified Tank	1879	314894
K	233m SW	Unspecified Tank	1879	317445
J	237m NE	Unspecified Tank	1970	321457
J	237m NE	Unspecified Tank	1980	321457
L	240m SW	Unspecified Tank	1879	325807
L	240m SW	Unspecified Tank	1879	323777
M	249m E	Unspecified Tank	1988	325725
M	251m E	Unspecified Tank	1980	325725
M	251m E	Unspecified Tank	1970	325725
L	251m SW	Unspecified Tank	1976	316805
L	252m SW	Unspecified Tank	1988	316805
G	278m SE	Tanks	1879	325211
G	278m SE	Tanks	1879	325211
R	292m NE	Unspecified Tank	1980	314799
R	293m NE	Unspecified Tank	1970	314799
3	361m NE	Unspecified Tank	1931	305870
X	374m W	Unspecified Tank	1879	327697
X	374m W	Unspecified Tank	1879	313068
T	404m E	Tank or Trough	1879	325240
T	404m E	Tank or Trough	1879	326975
G	405m SE	Tanks	1931	310566
T	405m E	Tank or Trough	1879	312010
U	428m W	Unspecified Tank	1879	320964
U	428m W	Unspecified Tank	1879	320964



ID	Location	Land Use	Date	Group ID
U	429m W	Unspecified Tank	1900	326294
U	429m W	Unspecified Tank	1912	326294
U	429m W	Unspecified Tank	1931	326294
AH	458m NE	Gas Works	1900	313448
AH	458m NE	Gas Works	1912	313448
AH	460m NE	Gas Works	1879	313448
AH	460m NE	Gas Works	1879	319202
AH	460m NE	Gas Works	1879	313448
AI	462m W	Unspecified Tank	1879	316655
AI	462m W	Unspecified Tank	1879	323254
AE	469m SE	Unspecified Tank	1995	323558
AE	469m SE	Unspecified Tank	1996	323558
AE	470m SE	Unspecified Tank	1986	323558
AE	470m SE	Unspecified Tank	1991	323558
AE	470m SE	Unspecified Tank	1972	323558
AE	473m SE	Unspecified Tank	1972	305767
AH	476m NE	Tanks	1962	319738
AH	476m E	Gasometer	1900	321837
AH	476m NE	Tanks	1968	325975
AH	476m NE	Tanks	1979	325975
AH	477m NE	Gasometer	1879	321935
AH	477m NE	Gasometer	1879	321935
AH	478m E	Gasometer	1879	315866
AH	479m E	Tanks	1957	316943
AH	479m E	Tanks	1958	316943
AH	479m E	Tanks	1956	317508
AG	481m E	Unspecified Tank	1900	318579
AG	482m E	Unspecified Tank	1879	318579



ID	Location	Land Use	Date	Group ID
AH	488m E	Unspecified Tank	1956	312932
AH	489m E	Unspecified Tank	1957	312932
AH	489m E	Unspecified Tank	1958	312932
AE	491m SE	Unspecified Tank	1912	305768
AD	491m S	Unspecified Tank	1986	324354
AD	491m S	Unspecified Tank	1991	324354
AD	491m S	Tanks	1972	310568
AH	493m E	Gasometer	1900	325036
AH	493m E	Gasometer	1912	325036
AH	495m E	Gasometer	1879	327004
AH	495m E	Gasometer	1879	319443
AH	496m E	Gasometer	1879	313486
AB	498m S	Unspecified Tank	1987	312696
AB	498m S	Unspecified Tank	1986	312696
AB	499m S	Unspecified Tank	1976	312696

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

85

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Electricity Substation	1988	189825
A	38m NE	Electricity Substation	1988	205200
A	40m NE	Electricity Substation	1980	205200
D	136m S	Electricity Substation	1986	199489
D	136m S	Electricity Substation	1991	199489



ID	Location	Land Use	Date	Group ID
D	137m S	Electricity Substation	1995	200123
D	137m S	Electricity Substation	1996	200123
D	138m S	Electricity Substation	1968	200123
D	138m S	Electricity Substation	1972	200123
D	138m S	Electricity Substation	1969	200123
E	147m SE	Electricity Substation	1995	208343
E	147m SE	Electricity Substation	1996	208343
F	176m E	Electricity Substation	1988	189770
I	201m NW	Electricity Substation	1971	202101
I	202m NW	Electricity Substation	1986	196544
I	202m NW	Electricity Substation	1993	196544
N	253m W	Electricity Substation	1993	209772
N	253m W	Electricity Substation	1976	209772
N	254m W	Electricity Substation	1988	209772
Z	277m E	Electricity Substation	1969	189771
P	288m SE	Electricity Substation	1986	196763
P	288m SE	Electricity Substation	1991	196763
P	289m SE	Electricity Substation	1995	196763
P	289m SE	Electricity Substation	1996	196763
P	289m SE	Electricity Substation	1972	196763
Q	289m NE	Electricity Substation	1988	209601
Q	290m NE	Electricity Substation	1980	209601
Q	293m NE	Electricity Substation	1970	196813
Y	386m S	Electricity Substation	1995	197506
Y	386m S	Electricity Substation	1996	197506
Y	386m S	Electricity Substation	1986	197506
Y	386m S	Electricity Substation	1991	197506
Z	389m N	Electricity Substation	1980	200961



ID	Location	Land Use	Date	Group ID
Z	389m N	Electricity Substation	1988	200961
Z	389m N	Electricity Substation	1970	197671
X	394m SW	Electricity Substation	1976	211458
X	394m SW	Electricity Substation	1969	211458
X	394m W	Electricity Substation	1993	194055
X	395m W	Electricity Substation	1988	198920
U	406m W	Electricity Substation	1968	200689
U	406m W	Electricity Substation	1993	200689
U	407m W	Electricity Substation	1976	204045
U	407m W	Electricity Substation	1969	204045
U	408m W	Electricity Substation	1988	204045
AA	422m E	Electricity Substation	1982	212443
AA	423m E	Electricity Substation	1979	210833
AA	423m E	Electricity Substation	1982	210833
AB	428m S	Electricity Substation	1995	208703
AB	428m S	Electricity Substation	1996	208703
AB	430m S	Electricity Substation	1986	197451
AB	430m S	Electricity Substation	1991	197451
AB	431m S	Electricity Substation	1972	197451
AB	431m S	Electricity Substation	1969	197451
AB	431m S	Electricity Substation	1968	197451
AA	440m E	Electricity Substation	1982	212020
AA	441m E	Electricity Substation	1982	200724
AH	458m NE	Gas Works	1900	196480
AH	458m NE	Gas Works	1912	196480
AH	460m NE	Gas Works	1879	196480
AH	460m NE	Gas Works	1879	209480
AH	460m NE	Gas Works	1879	196480



ID	Location	Land Use	Date	Group ID
AB	465m S	Electricity Substation	1972	205198
AB	465m S	Electricity Substation	1969	205198
AB	466m S	Electricity Substation	1986	198885
AH	476m E	Gasometer	1900	208605
AH	477m NE	Gasometer	1879	203796
AH	477m NE	Gasometer	1879	203796
AH	478m E	Gasometer	1879	203796
AE	481m SE	Electricity Substation	1995	206490
AE	481m SE	Electricity Substation	1996	206490
AE	481m SE	Electricity Substation	1986	208858
AE	481m SE	Electricity Substation	1991	208858
AE	482m SE	Electricity Substation	1972	208858
AE	482m SE	Electricity Substation	1969	208858
AE	482m SE	Electricity Substation	1968	206490
AK	487m N	Electricity Substation	1993	206172
AK	487m N	Electricity Substation	1994	200407
AK	487m N	Electricity Substation	1996	200407
AH	493m E	Gasometer	1900	199598
AH	493m E	Gasometer	1912	199598
AH	495m E	Gasometer	1879	201799
AH	495m E	Gasometer	1879	199598
AH	496m E	Gasometer	1879	199598
AH	498m NE	Electricity Substation	1968	197972
AH	499m NE	Electricity Substation	1979	197972

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

12

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
S	350m S	Filling Station	1968	3448
S	350m S	Filling Station	1976	3501
S	350m S	Filling Station	1969	3501
S	350m S	Filling Station	1988	3399
U	355m W	Filling Station	1976	3565
V	357m S	Filling Station	1972	3493
V	357m S	Filling Station	1969	3493
U	358m W	Filling Station	1988	3565
V	362m S	Filling Station	1968	3435
AB	400m S	Filling Station	1972	3555
AB	400m S	Filling Station	1969	3555
AB	402m S	Filling Station	1968	3400

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

58

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1957	65147
A	On site	Garage	1957	63540



ID	Location	Land Use	Date	Group ID
A	On site	Garage	1958	63540
A	On site	Garage	1958	65147
A	On site	Garage	1957	64972
A	On site	Garage	1957	65185
A	On site	Garage	1980	63231
A	On site	Garage	1970	64972
A	On site	Garage	1962	64972
A	On site	Garage	1962	65185
A	On site	Garage	1972	64281
A	On site	Garage	1968	65185
A	On site	Garage	1969	64281
A	On site	Garage	1957	65185
A	On site	Garage	1957	65185
A	On site	Garage	1959	65185
B	12m NW	Garage	1957	64498
B	12m NW	Garage	1962	64498
B	12m NW	Garage	1957	64498
B	12m NW	Garage	1958	64498
G	273m SE	Garage	1972	64162
G	273m SE	Garage	1969	64162
G	273m SE	Garage	1957	64630
G	274m SE	Garage	1968	64630
G	274m SE	Garage	1957	64630
G	274m SE	Garage	1959	64630
P	311m SE	Garage	1969	64678
P	311m SE	Garage	1968	64478
P	311m SE	Garage	1957	64478
P	311m SE	Garage	1959	64478

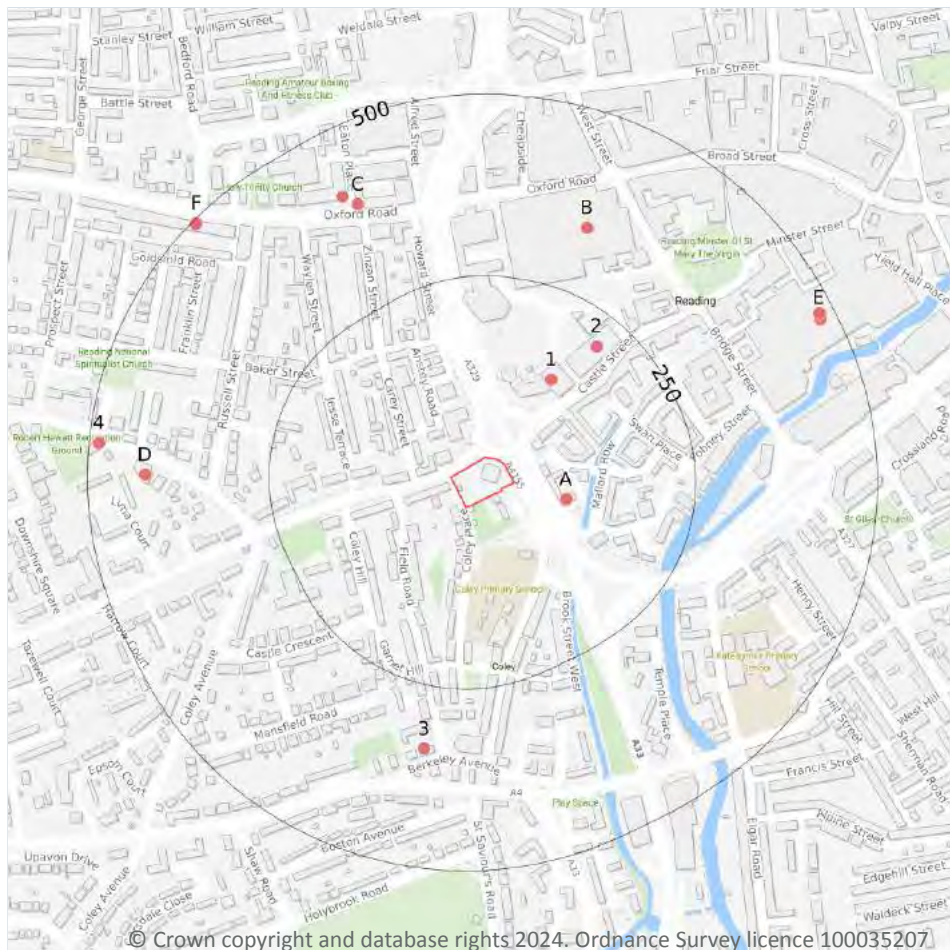


ID	Location	Land Use	Date	Group ID
P	312m SE	Garage	1972	61802
P	312m SE	Garage	1957	64678
O	314m N	Garage	1957	63734
O	314m N	Garage	1958	63734
O	321m N	Garage	1957	63734
O	321m N	Garage	1962	63734
V	356m S	Garage	1959	62490
V	357m S	Garage	1957	61416
V	357m S	Garage	1957	62275
W	363m SE	Garage	1972	65361
W	363m SE	Garage	1969	65361
W	363m SE	Garage	1968	62813
AA	400m E	Garage	1957	62961
AA	400m E	Garage	1957	62403
AA	400m E	Garage	1959	62546
4	446m SE	Garage	1972	60824
AF	448m N	Garage	1957	63727
AF	448m N	Garage	1958	63727
AF	449m N	Garage	1962	63978
AF	449m N	Garage	1957	63978
AF	451m N	Car Park and Garage	1994	63159
AF	451m N	Car Park and Garage	1996	64617
AF	452m N	Car Park and Garage	1986	64617
AF	452m N	Multistorey Garage and Car Park	1988	64353
AF	452m N	Multistorey Garage and Car Park	1993	64353
AF	452m N	Multistorey Garage and Car Park	1979	64353
AF	453m N	Car Park and Garage	1969	62265
AF	462m N	Garage	1971	60828

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

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

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

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

3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

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

3.7 Waste exemptions

Records within 500m

28

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 38](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
A	75m E	-	WEX386895	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	75m E	-	WEX386895	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	75m E	-	WEX386895	Disposing of waste exemption	Not on a farm	Disposal by incineration
A	75m E	-	WEX386895	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
1	132m NE	CASTLE STREET, READING, RG1 7TH	WEX364997	Using waste exemption	Not on a farm	Use of waste in construction
2	205m NE	CIVIC CENTRE, CASTLE STREET, READING, RG1 7TQ	WEX236540	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
3	338m S	Creek Common Northney Road Hampshire PO11 0NG	EPR/BE5042LU /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
B	341m NE	-	WEX284323	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	341m NE	Reading Walk In Centre, 1st Floor, 103-105 Broad Street Mall, Reading, RG1 7QA	WEX307191	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	341m NE	Centre Management Suite, Broad Street Mall, Broad Street, Reading, RG1 7QE	WEX157193	Treating waste exemption	Not on a Farm	Aerobic composting and associated prior treatment
C	390m NW	104A, OXFORD ROAD, READING, RG1 7LL	WEX225577	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	390m NW	104A, OXFORD ROAD, READING, RG1 7LL	WEX225577	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	390m NW	104A, OXFORD ROAD, READING, RG1 7LL	WEX078879	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	409m NW	A 104 Oxford Road Reading Berkshire RG1 7LL	EPR/QF0331NJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
D	422m W	1, TILEHURST ROAD, READING, RG1 7TW	WEX318793	Storing waste exemption	Not on a farm	Storage of waste in a secure place

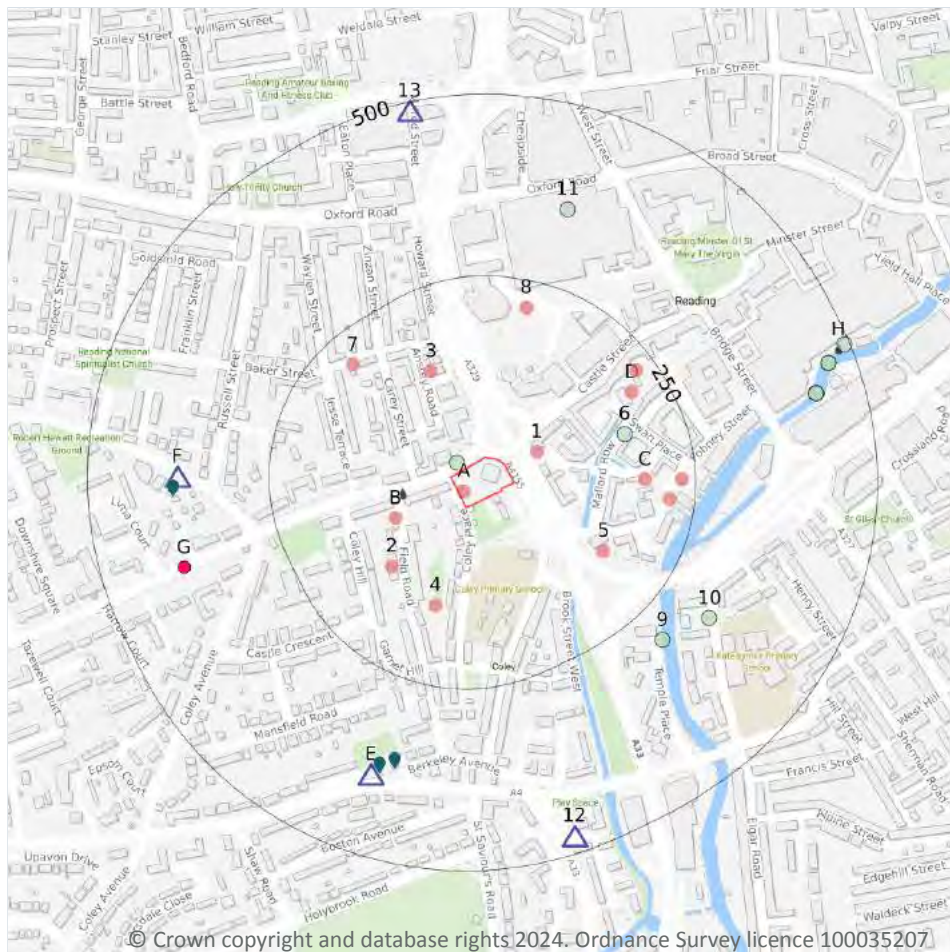


ID	Location	Site	Reference	Category	Sub-Category	Description
D	422m W	1, TILEHURST ROAD, READING, RG1 7TW	WEX318793	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	422m W	1, TILEHURST ROAD, READING, RG1 7TW	WEX190528	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	422m W	1, TILEHURST ROAD, READING, RG1 7TW	WEX190528	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	476m NE	Oracle Shopping Centre The Oracle Centre READING RG1 2AG	EPR/EF0606XT /A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
E	477m NE	-	WEX230105	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	477m NE	-	WEX230105	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	477m NE	Oracle Shopping Centre The Oracle Centre READING RG1 2AG	EPR/SE5949EQ /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	477m NE	Oracle Shopping Centre The Oracle Centre READING RG1 2AG	EPR/SE5949EQ /A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
E	480m NE	-	WEX362616	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	480m NE	-	WEX362616	Storing waste exemption	Not on a farm	Storage of waste in a secure place
4	487m W	-	WEX271154	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	495m NW	165, OXFORD ROAD, READING, RG1 7UZ	WEX123192	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	495m NW	165 Oxford Road READING RG1 7UZ	EPR/XE5541FU /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

14

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 42](#) >

ID	Location	Company	Address	Activity	Category
A	On site	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
1	47m NE	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
B	94m SW	Marine Ventures Ltd	Marven House 1, Field Road, Reading, Berkshire, RG1 6AP	General Construction Supplies	Industrial Products



ID	Location	Company	Address	Activity	Category
2	130m SW	Knights Mobile Tyres Reading	Neuk, Field Road, Reading, Berkshire, RG1 6AP	Vehicle Parts and Accessories	Motoring
3	140m NW	Lowfare Transport	12, Body Road, Reading, Berkshire, RG1 7JP	Vehicle Hire and Rental	Hire Services
4	141m S	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
5	155m SE	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
C	180m E	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
D	201m NE	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
7	206m NW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
8	213m N	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
C	216m E	Bear Wharf	Berkshire, RG1	Moorings and Unloading Facilities	Water
D	224m NE	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
C	231m E	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

4

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Company	Address	LPG	Status
F	377m W	BP	Tilehurst Road, Reading, Reading, RG1 7TW	No	Open
E	389m S	ESSO	10, Berkeley Avenue, Reading, Reading, RG1 6JE	No	Open
12	476m S	OBSOLETE	Berkeley Avenue, Reading, Reading, RG1 6JS	Not Applicable	Obsolete



ID	Location	Company	Address	LPG	Status
13	488m N	OBSOLETE	Chatham Street, Reading, Reading, RG1 7JF	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.



4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

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

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

3

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Address	Details	
E	361m S	Save Serv Station (Reading), Berkeley Avenue, Reading, RG1 6JE	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	373m S	Eurogarages Limited, Esso EG Berkeley, 10 Berkeley Avenue, Reading, Berkshire, RG1 6JT	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



ID	Location	Address	Details	
F	382m W	BP Connect Tilehurst, Tilehurst Road, Reading, Berkshire, RG1 7TW	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	5
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Address	Details	
G	387m W	British United Provident Association Ltd, Bupa Dunedin Hospital, 16 Bath Road, Reading, Berkshire, RG1 6NB	Operator: British United Provident Association Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BU1873 Date of approval: 11/03/2003	Effective from: 11/03/2003 Last date of update: 01/01/2015 Status: Revoked/cancelled
G	387m W	British United Provident Association Ltd, Bupa Dunedin Hospital, 16 Bath Road, Reading, Berkshire, RG1 6NB	Operator: British United Provident Association Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BU1890 Date of approval: 11/03/2003	Effective from: 11/03/2003 Last date of update: 01/01/2015 Status: Revoked/cancelled
G	387m W	Classic Hospitals Ltd, Bupa Dunedin Hospital, 16 Bath Road, Reading, Berkshire, RG1 6NB	Operator: Classic Hospitals Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BZ4241 Date of approval: 10/08/2005	Effective from: 10/08/2005 Last date of update: 01/01/2015 Status: Superseded By Variation
G	387m W	Classic Hospitals Ltd, Bupa Dunedin Hospital, 16 Bath Road, Reading, Berkshire, RG1 6NB	Operator: Classic Hospitals Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BZ4241 Date of approval: 19/09/2007	Effective from: 19/09/2007 Last date of update: 01/01/2015 Status: Revoked/cancelled



ID	Location	Address	Details	
G	387m W	Classic Hospitals Ltd, Bupa Dunedin Hospital, 16 Bath Road, Reading, Berkshire, RG1 6NB	Operator: Classic Hospitals Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BZ4250 Date of approval: 10/08/2005	Effective from: 10/08/2005 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

4.13 Licensed Discharges to controlled waters

Records within 500m

4

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Address	Details	
B	71m W	Reading, Vastern Road, Reading, Vastern Road	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1779 Permit Version: 1 Receiving Water: HOLY BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 31/03/1997
B	71m W	Reading, Bennet Road, Reading, Bennet Road	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1767 Permit Version: 1 Receiving Water: HOLLY BROOK	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
B	71m W	Reading, Bennet Road, Reading, Bennet Road	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1767 Permit Version: 2 Receiving Water: Holly Brook	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 13/10/2015
H	482m E	THE BREWERY, READING, BERKS, THE BREWERY, READING, BERKS	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTRC.0211 Permit Version: 1 Receiving Water: KENNET	Status: REVOKED - UNSPECIFIED Issue date: 19/12/1955 Effective Date: 19/12/1955 Revocation Date: 12/06/1990

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**11**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on [page 42 >](#)

ID	Location	Details	
A	13m NW	Incident Date: 29/08/2003 Incident Identification: 185987 Pollutant: Oils and Fuel:Other Pollutant Pollutant Description: Petrol:Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	166m E	Incident Date: 11/10/2001 Incident Identification: 35859 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	297m SE	Incident Date: 14/11/2001 Incident Identification: 42787 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	327m SE	Incident Date: 13/08/2003 Incident Identification: 181888 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	357m N	Incident Date: 05/01/2002 Incident Identification: 50702 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	433m E	Incident Date: 17/08/2001 Incident Identification: 24937 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	433m E	Incident Date: 17/08/2001 Incident Identification: 24937 Pollutant: Organic Chemicals/Products:Pollutant Not Identified Pollutant Description: Solvents:Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	433m E	Incident Date: 17/08/2001 Incident Identification: 24937 Pollutant: Organic Chemicals/Products Pollutant Description: Solvents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	463m E	Incident Date: 04/10/2001 Incident Identification: 34522 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	463m E	Incident Date: 04/10/2001 Incident Identification: 34522 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
H	493m E	Incident Date: 19/08/2001 Incident Identification: 25215 Pollutant: Organic Chemicals/Products Pollutant Description: Hydrocarbons	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

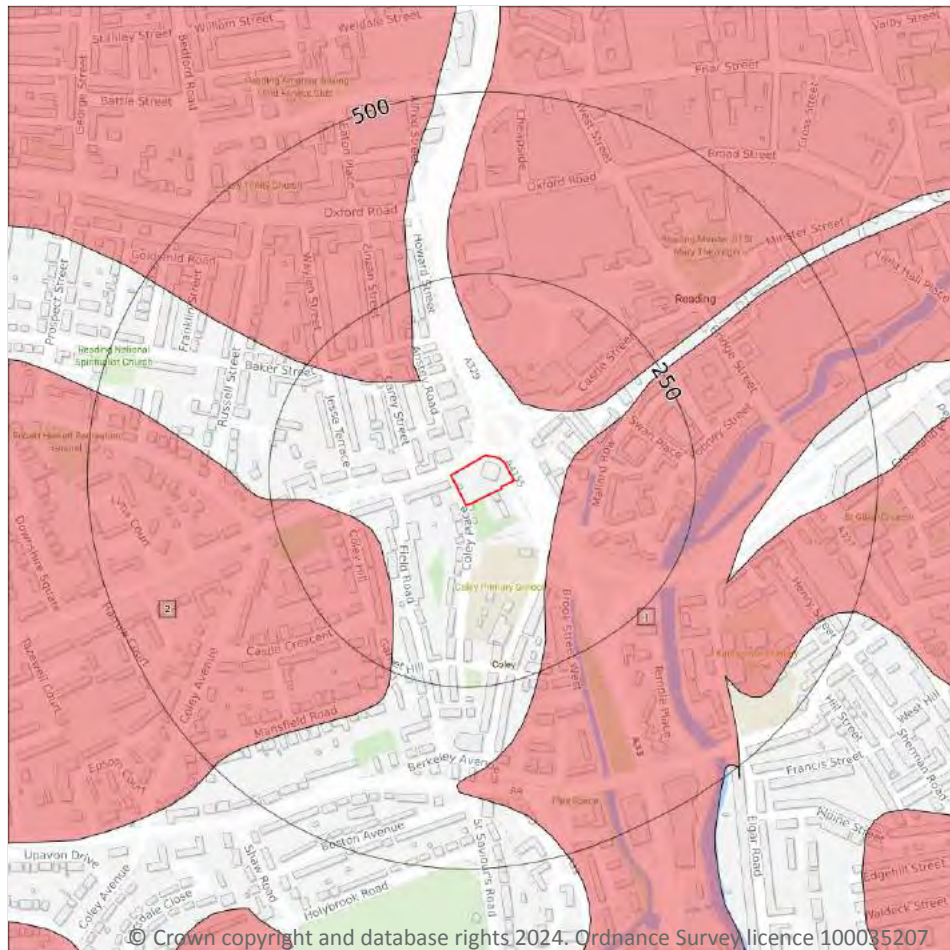
4.21 Pollution inventory radioactive waste

Records within 500m	0
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The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 51](#) >

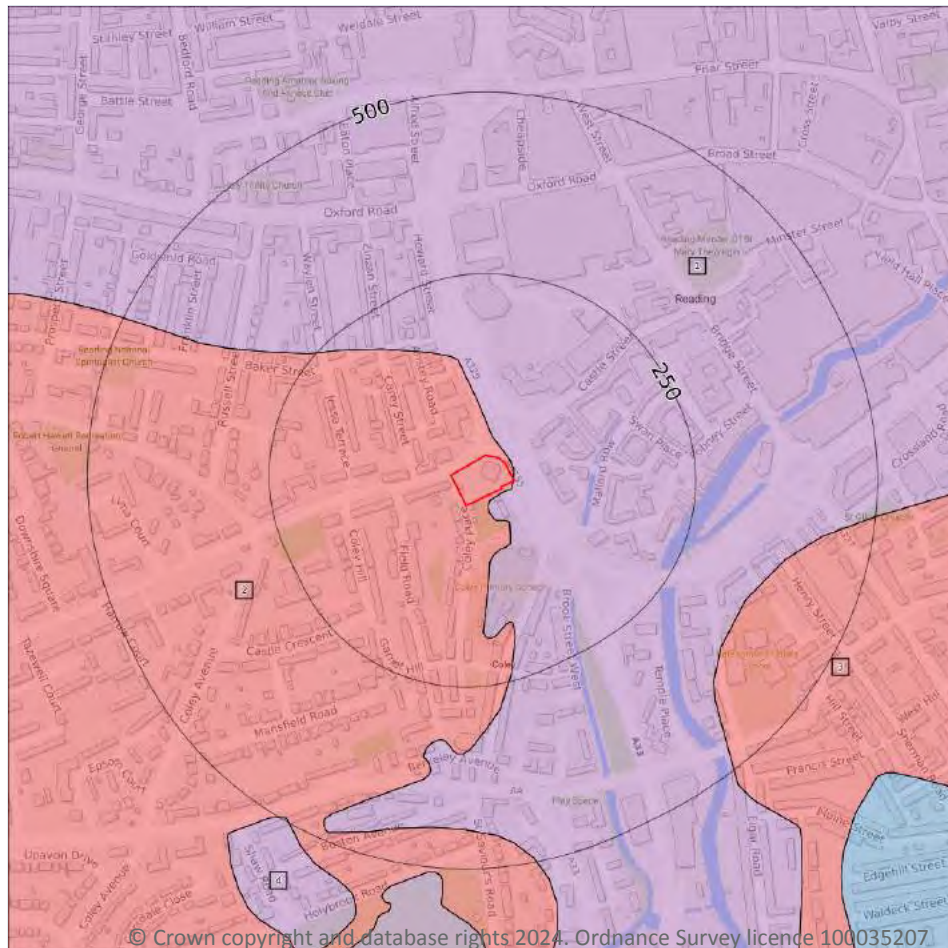
ID	Location	Designation	Description
1	67m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	129m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 53](#) >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

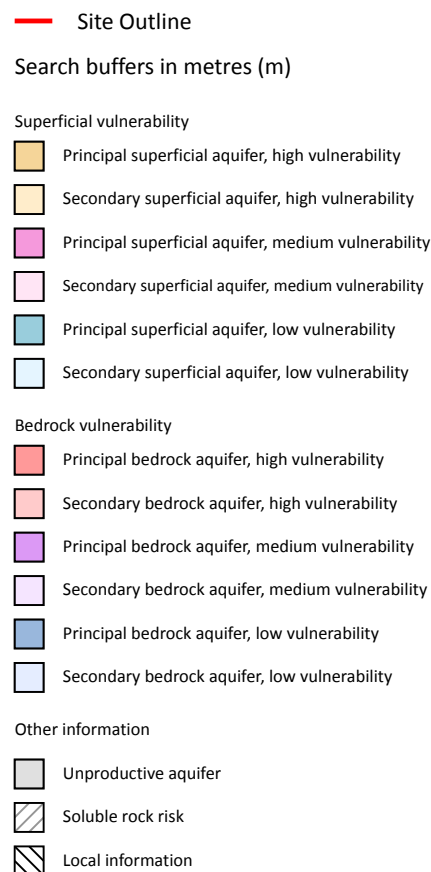
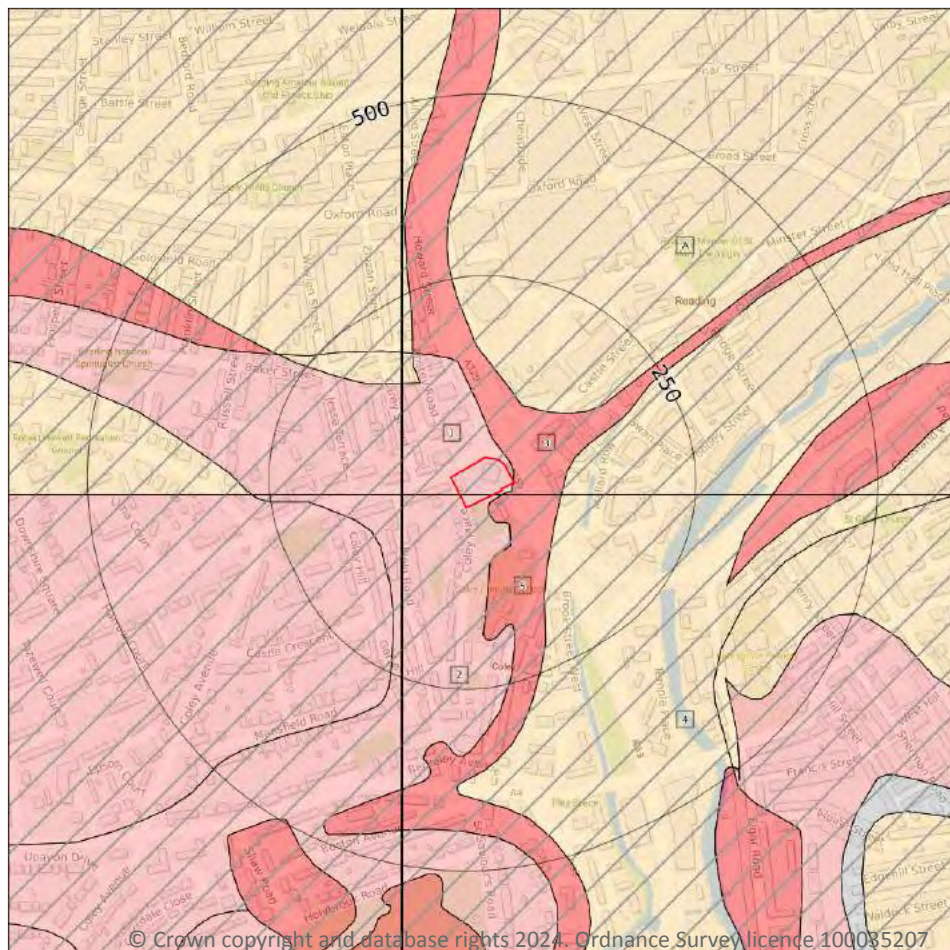


ID	Location	Designation	Description
3	359m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	496m SW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 55 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
5	5m SE	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	2
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
4	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	8.0%
A	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	20.0%



This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

42

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 58 >](#)

ID	Location	Details	
B	456m N	Status: Active Licence No: 28/39/23/0042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CHEAPSIDE, READING, BERKSHIRE Data Type: Point Name: PRIMARK STORES LIMITED Easting: 471200 Northing: 173500	Annual Volume (m ³): 14933 Max Daily Volume (m ³): 40.91 Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1070m N	Status: Active Licence No: 28/39/23/0167 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 727.4 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -
-	1070m N	Status: Active Licence No: 28/39/23/0167 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 727.4 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -
-	1070m N	Status: Historical Licence No: 28/39/23/0041 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -
-	1070m N	Status: Historical Licence No: 28/39/23/0041 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -



ID	Location	Details	
-	1079m NW	Status: Active Licence No: 28/39/23/0128 Details: Process Water Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING POINT B Data Type: Point Name: HILLIER GROUP OF COMPANIES Easting: 470600 Northing: 174000	Annual Volume (m ³): 6682 Max Daily Volume (m ³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/01/1975 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1264m E	Status: Active Licence No: 28/39/22/0521 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ROYAL BERKSHIRE HOSPITAL Data Type: Point Name: ROYAL BERKSHIRE HOSPITAL Easting: 472400 Northing: 172800	Annual Volume (m ³): 127750 Max Daily Volume (m ³): 350 Original Application No: WRA/5950 Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/01/1992 Version End Date: -
-	1266m NW	Status: Active Licence No: 28/39/23/0128 Details: Process Water Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING POINT A Data Type: Point Name: HILLIER GROUP OF COMPANIES Easting: 470400 Northing: 174100	Annual Volume (m ³): 6682 Max Daily Volume (m ³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/01/1975 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1482m N	Status: Active Licence No: TH/039/0023/037 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: RIVERMEAD LEISURE COMPLEX, READING Data Type: Poly4 Name: Pelikaan (Construction) Limited Easting: 470727 Northing: 174509	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/WR/035651 Original Start Date: 22/05/2023 Expiry Date: 22/05/2024 Issue No: 1 Version Start Date: 22/05/2023 Version End Date: -
-	1540m NW	Status: Historical Licence No: 28/39/23/0181 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BATTLE HOSPITAL, OXFORD ROAD, READING Data Type: Point Name: WEST BERKSHIRE HEALTH AUTHORITY Easting: 469800 Northing: 173900	Annual Volume (m ³): 136875 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 07/01/1999 Version End Date: -



ID	Location	Details	
-	1554m NE	Status: Active Licence No: 28/39/23/0020 Details: Laundry Use Direct Source: THAMES GROUNDWATER Point: 72 GEORGE STREET, CAVERSHAM, - BOREHOLE 'A' Data Type: Point Name: Elis UK Ltd Easting: 471900 Northing: 174400	Annual Volume (m ³): 68190 Max Daily Volume (m ³): 300.04 Original Application No: NPS/WR/035059 Original Start Date: 09/05/1966 Expiry Date: - Issue No: 103 Version Start Date: 08/02/2021 Version End Date: -
-	1601m NW	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LITTLE JOHN'S FARM, READING (E) Data Type: Point Name: DRAYTON Easting: 470100 Northing: 174300	Annual Volume (m ³): 9819 Max Daily Volume (m ³): 26.82 Original Application No: WR.A/3088 Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
-	1652m E	Status: Historical Licence No: 28/39/22/0600 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: FORMER GASWORKS, KENAVON DRIVE, READING (5 BOREHOLES) Data Type: Point Name: M J GLEESON GROUP PLC Easting: 472700 Northing: 173600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/07/2000 Expiry Date: 31/08/2001 Issue No: 1 Version Start Date: 31/07/2000 Version End Date: -
-	1798m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470850 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1799m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -



ID	Location	Details	
-	1799m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1799m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1810m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'B' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470770 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1816m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH G' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1816m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'G' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -



ID	Location	Details	
-	1816m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH G' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1819m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470840 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1819m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470840 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1826m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH D' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1826m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'D' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -



ID	Location	Details	
-	1826m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH D' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1830m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470770 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1830m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470770 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1849m NW	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LITTLE JOHN'S FARM, READING (D) Data Type: Point Name: DRAYTON Easting: 470100 Northing: 174600	Annual Volume (m ³): 9819 Max Daily Volume (m ³): 26.82 Original Application No: WR.A/3088 Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
-	1901m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH H' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -



ID	Location	Details	
-	1901m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'H' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1901m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH H' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1918m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH F' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1918m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'F' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1918m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH F' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -



ID	Location	Details	
-	1940m NW	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LITTLE JOHM'S FARM, READING (B) Data Type: Point Name: DRAYTON Easting: 469700 Northing: 174400	Annual Volume (m ³): 9819 Max Daily Volume (m ³): 26.82 Original Application No: WR.A/3088 Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
-	1940m NW	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LITTLE JOHN'S FARM, READING (C) Data Type: Point Name: DRAYTON Easting: 469700 Northing: 174400	Annual Volume (m ³): 9819 Max Daily Volume (m ³): 26.82 Original Application No: WR.A/3088 Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
-	1949m SW	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH E' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'E' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH E' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -



ID	Location	Details	
-	1959m NW	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: LITTLE JOHN'S FARM, READING (A) Data Type: Point Name: DRAYTON Easting: 469500 Northing: 174200	Annual Volume (m ³): 9819 Max Daily Volume (m ³): 26.82 Original Application No: WR.A/3088 Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 Version End Date: -
-	1964m SW	Status: Historical Licence No: 28/39/22/0266 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: RAILTRACK PROPERTY, SOUTHCOTE, READING Data Type: Point Name: NETWORK RAIL INFRASTR LTD Easting: 469600 Northing: 171700	Annual Volume (m ³): 250035 Max Daily Volume (m ³): 909.22 Original Application No: - Original Start Date: 12/12/1966 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2003 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	11
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 58 >](#)

ID	Location	Details	
A	456m E	Status: Historical Licence No: 28/39/22/0594 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THE ORACLE CENTRE, READING Data Type: Point Name: ORACLE SHOPPING CENTRE LTD Easting: 471590 Northing: 173150	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/02/2000 Version End Date: -



ID	Location	Details	
A	456m E	Status: Historical Licence No: 28/39/22/0594 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: ST.GILES STREAM AT THE ORACLE CENTRE, READING Data Type: Point Name: ORACLE SHOPPING CENTRE LTD Easting: 471590 Northing: 173150	Annual Volume (m ³): 737856 Max Daily Volume (m ³): 2016 Original Application No: NPS/WR/033582 Original Start Date: 16/02/2000 Expiry Date: - Issue No: 2 Version Start Date: 09/03/2020 Version End Date: -
-	1435m N	Status: Historical Licence No: 28/39/23/0196 Details: Transfer between sources Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THAMES AT CHRISTCHURCH MEADOW Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/05/2003 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 12/05/2003 Version End Date: -
-	1435m N	Status: Historical Licence No: 28/39/23/0196 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THAMES AT CHRISTCHURCH MEADOW Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): 31536 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 12/05/2003 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -
-	1435m N	Status: Historical Licence No: 28/39/23/0199/TR Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER THAMES - CHRISTCHURCH MEADOWS Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): 1752000 Max Daily Volume (m ³): 4800 Original Application No: - Original Start Date: 10/09/2008 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 10/09/2008 Version End Date: -
-	1474m NE	Status: Historical Licence No: TH/039/0023/022 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER THAMES AT CAVERSHAM WEIR Data Type: Point Name: Reading Hydro CBS Limited Easting: 472072 Northing: 174185	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/WR/036037 Original Start Date: 19/02/2016 Expiry Date: 31/03/2028 Issue No: 4 Version Start Date: 16/09/2021 Version End Date: -



ID	Location	Details	
-	1940m S	Status: Historical Licence No: 28/39/22/0527 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FOBNEY FISH FARM INTAKES Data Type: Line Name: ENVIRONMENT AGENCY Easting: 470420 Northing: 171140	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 11/08/1993 Version End Date: -
-	1940m S	Status: Historical Licence No: 28/39/22/0527 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: KENNET AND AVON CANAL AT FOBNEY FISH FARM INTAKES Data Type: Line Name: ENVIRONMENT AGENCY Easting: 470420 Northing: 171140	Annual Volume (m ³): 2382154 Max Daily Volume (m ³): 12730 Original Application No: - Original Start Date: 11/08/1993 Expiry Date: - Issue No: 100 Version Start Date: 11/08/1993 Version End Date: -
-	1943m S	Status: Historical Licence No: 28/39/22/0527 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: KENNET AND AVON CANAL AT FOBNEY FISH FARM INTAKES Data Type: Line Name: ENVIRONMENT AGENCY Easting: 470460 Northing: 171130	Annual Volume (m ³): - Max Daily Volume (m ³): 5000 Original Application No: - Original Start Date: 11/08/1993 Expiry Date: 31/03/2011 Issue No: 101 Version Start Date: 10/10/2006 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0435 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FOBNEY WATERWORKS INTAKE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470300 Northing: 171200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 05/04/1977 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0435 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: KENNET AND AVON CANAL AT FOBNEY WATERWORKS INTAKE Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 26621933 Max Daily Volume (m ³): 72737.52 Original Application No: S228 Original Start Date: 05/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 05/04/1977 Version End Date: -



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

5.8 Potable abstractions

Records within 2000m

31

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 58 >](#)

ID	Location	Details	
B	456m N	Status: Active Licence No: 28/39/23/0042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CHEAPSIDE, READING, BERKSHIRE Data Type: Point Name: PRIMARK STORES LIMITED Easting: 471200 Northing: 173500	Annual Volume (m ³): 14933 Max Daily Volume (m ³): 40.91 Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1070m N	Status: Active Licence No: 28/39/23/0167 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 727.4 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -
-	1070m N	Status: Historical Licence No: 28/39/23/0041 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -



ID	Location	Details	
-	1264m E	Status: Active Licence No: 28/39/22/0521 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ROYAL BERKSHIRE HOSPITAL Data Type: Point Name: ROYAL BERKSHIRE HOSPITAL Easting: 472400 Northing: 172800	Annual Volume (m ³): 127750 Max Daily Volume (m ³): 350 Original Application No: WRA/5950 Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/01/1992 Version End Date: -
-	1540m NW	Status: Historical Licence No: 28/39/23/0181 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BATTLE HOSPITAL, OXFORD ROAD, READING Data Type: Point Name: WEST BERKSHIRE HEALTH AUTHORITY Easting: 469800 Northing: 173900	Annual Volume (m ³): 136875 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 07/01/1999 Version End Date: -
-	1798m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470850 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1799m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1799m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'C' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -



ID	Location	Details	
-	1799m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH C' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470680 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1810m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'B' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470770 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1816m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH G' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1816m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'G' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1816m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH G' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470610 Northing: 171230	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -



ID	Location	Details	
-	1819m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470840 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1819m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH A' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470840 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1826m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH D' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1826m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'D' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1826m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH D' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470970 Northing: 171160	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -



ID	Location	Details	
-	1830m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470770 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1830m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH B' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470770 Northing: 171180	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1901m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH H' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1901m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'H' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1901m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH H' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470660 Northing: 171130	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -



ID	Location	Details	
-	1918m S	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH F' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -
-	1918m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'F' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1918m S	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH F' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470380 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -
-	1949m SW	Status: Active Licence No: 28/39/22/0435 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: KENNET AND AVON CANAL AT FOBNEY WATERWORKS INTAKE Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 26621933 Max Daily Volume (m ³): 72737.52 Original Application No: S228 Original Start Date: 05/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 05/04/1977 Version End Date: -
-	1949m SW	Status: Active Licence No: 28/39/022/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH E' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/036727 Original Start Date: 05/09/1966 Expiry Date: - Issue No: 1 Version Start Date: 22/03/2023 Version End Date: -



ID	Location	Details	
-	1949m SW	Status: Historical Licence No: 28/39/22/0435 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FOBNEY WATERWORKS INTAKE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470300 Northing: 171200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 05/04/1977 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION BH 'E' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1998 Version End Date: -
-	1949m SW	Status: Historical Licence No: 28/39/22/0132 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: FOBNEY PUMPING STATION 'BH E' Data Type: Point Name: Thames Water Utilities Ltd Easting: 470300 Northing: 171200	Annual Volume (m ³): 1500000 Max Daily Volume (m ³): 30000 Original Application No: NPS/WR/008557 Original Start Date: 05/09/1966 Expiry Date: 31/03/2023 Issue No: 101 Version Start Date: 01/01/2013 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

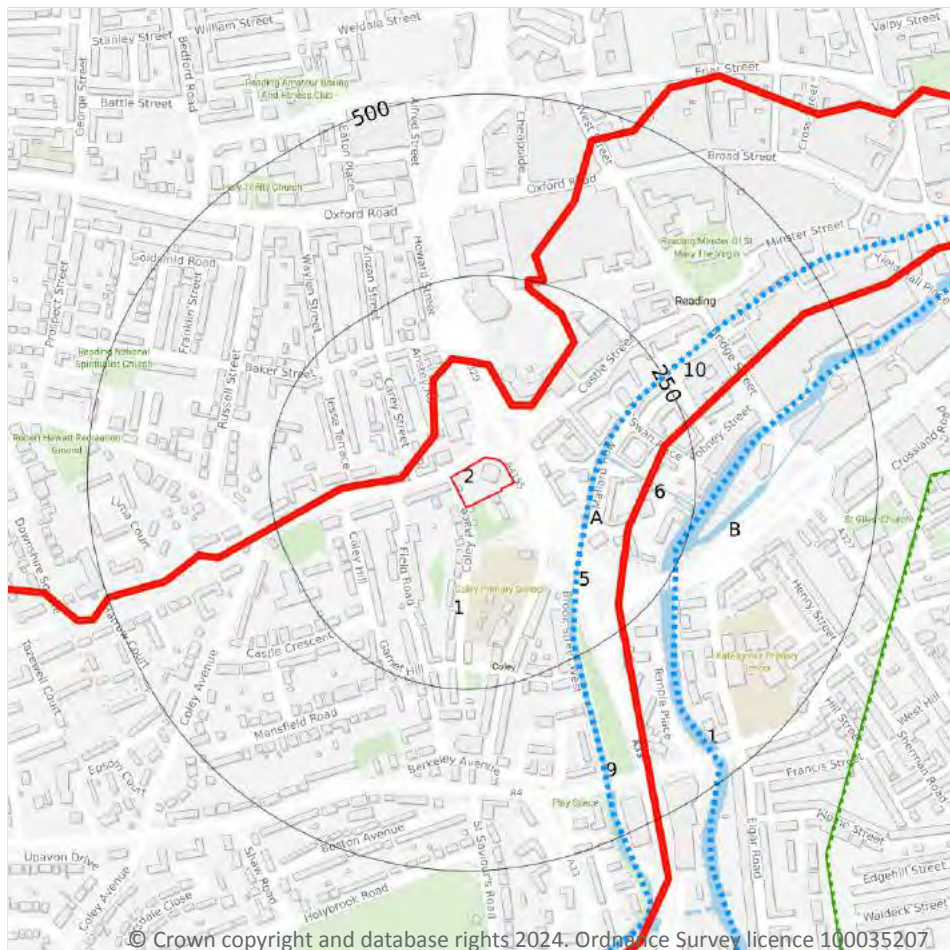
Records within 500m	0
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ... WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

15

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

Features are displayed on the Hydrology map on [page 77](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
A	106m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
A	110m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
A	113m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
A	124m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	124m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
5	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
6	127m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	174m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
A	175m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
A	183m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
10	206m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Holy Brook
11	239m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet
B	242m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	242m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet



ID	Location	Type of water feature	Ground level	Permanence	Name
B	242m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

5

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.

Features are displayed on the Hydrology map on [page 77 >](#)

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 77 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Holy Brook	GB106039023141	Kennet	Kennet and Trib

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

6.4 WFD Surface water bodies

Records identified

1

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.



Features are displayed on the Hydrology map on [page 77 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	106m E	River	Holy Brook	GB106039023141 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

1

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.

Features are displayed on the Hydrology map on [page 77 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Berkshire Downs Chalk	GB40601G600900 ↗	Poor	Poor	Poor	2019

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



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.



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.



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

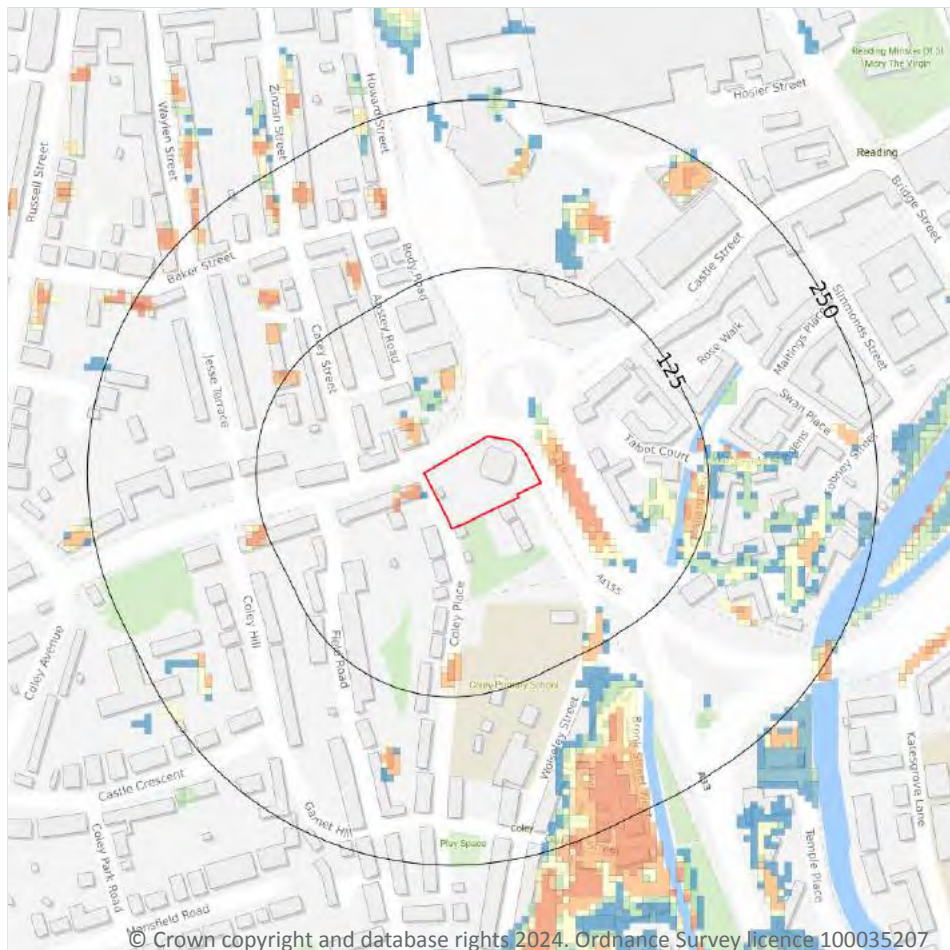
0

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.



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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 84 >](#)

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.

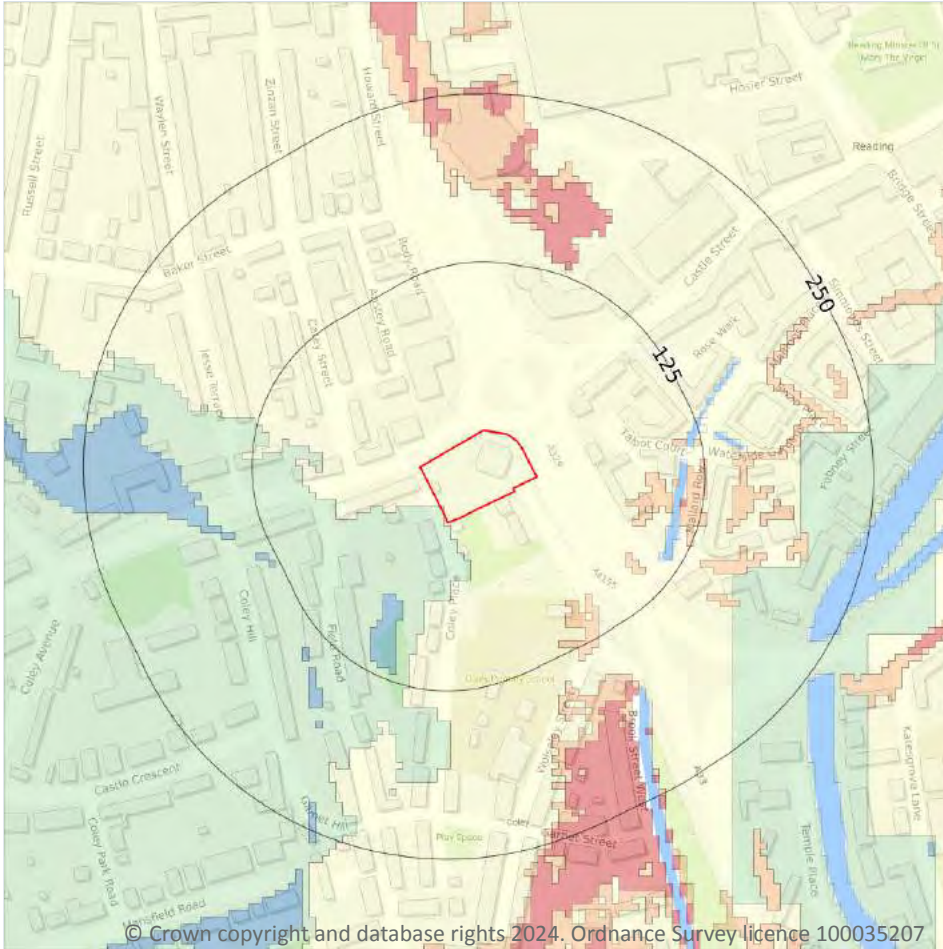
The table below shows the maximum flood depths for a range of return periods for the site.

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 Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

Moderate

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 86](#) >

This data is sourced from Ambiantal Risk Analytics.

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 re-notified 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.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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.

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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.

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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.

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.

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.



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**2**

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.

Location	Name	Type	NVZ ID	Status
117m W	Thames Wallingford to Caversham NVZ	Surface Water	481	Existing
1834m S	Foudry Brook (West End Brook to M4) NVZ	Surface Water	459	Existing

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0
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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.

This data is sourced from Natural England.

10.18 SSSI Units

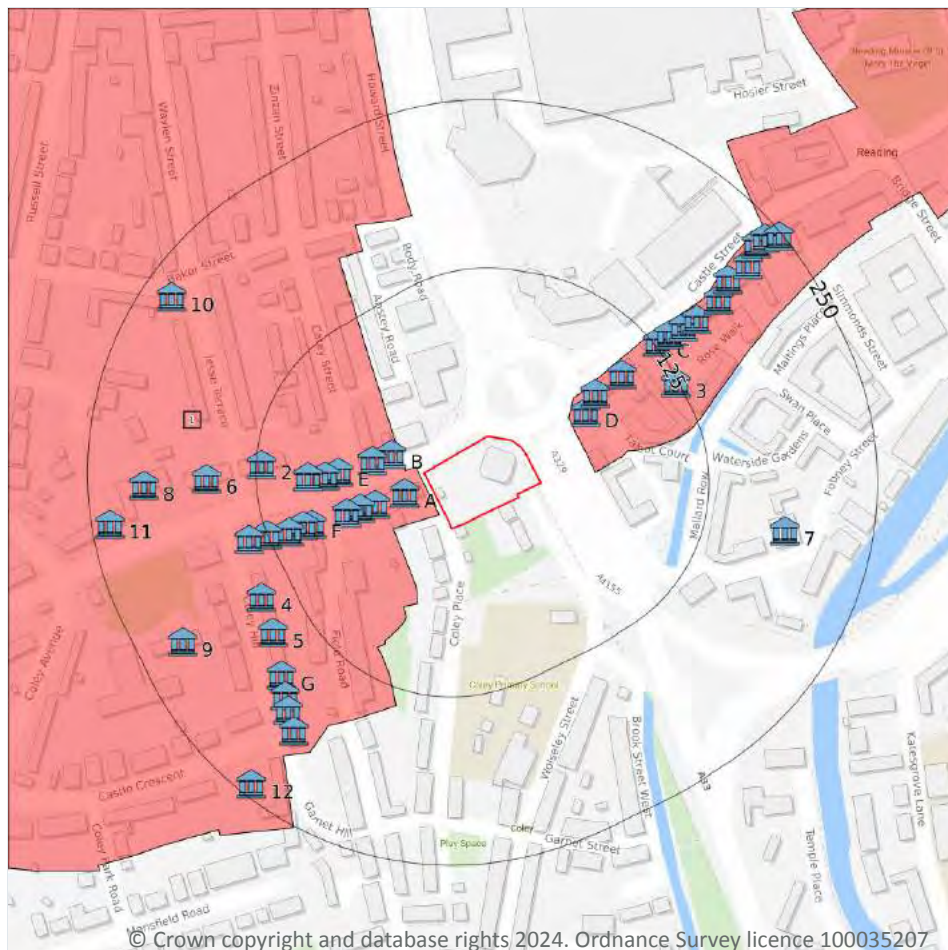
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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

42

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 92 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
A	19m W	Blenheim Terrace, 97-105 Castle Street	II	1321959	14/12/1978
B	28m W	The Castle Tap, 120 Castle Street	II	1113428	14/12/1978
B	40m W	Culham House	II	1154757	01/10/1973
A	43m W	107 Castle Hill	II	1113421	14/12/1978
D	54m NE	Holybrook House	II*	1113420	22/03/1957
A	54m W	109 Castle Hill	II	1113422	14/12/1978



ID	Location	Name	Grade	Reference Number	Listed date
E	64m W	124 Castle Hill	II	1113429	22/03/1957
A	65m W	111 Castle Hill	II	1321960	14/12/1978
D	68m NE	59 And 61, Castle Street	II	1321958	14/12/1978
E	74m W	126 Castle Hill	II	1321965	22/03/1957
E	87m W	128-132, Castle Street	II	1154760	14/12/1978
F	91m W	113, Castle Hill	II	1113617	21/05/1982
D	92m NE	Talbot House	II	1113419	19/03/1975
F	98m W	115 Castle Hill	II	1113423	14/12/1978
F	109m W	117-121 Castle Hill	II	1321961	14/12/1978
2	121m W	134-144 Castle Hill	II	1113430	14/12/1978
3	123m NE	Vachel Almhouses	II	1154678	14/12/1978
F	125m W	Castleton House, 123 Castle Hill	II	1113424	14/12/1978
C	128m NE	51 Castle Street	II	1113418	14/12/1978
C	138m NE	47 And 49, Castle Street	II	1321957	14/12/1978
F	139m W	Clevedon House, 125-127 Castle Hill And 1 Coley Hill	II	1113425	14/12/1978
4	149m SW	3-13, Coley Hill	II	1155087	14/12/1978
C	150m NE	45, Castle Street	II	1303711	22/03/1957
5	153m SW	15,15a,17 And 17a, Coley Hill	II	1113458	14/12/1978
C	161m NE	43 Castle Street	II	1113417	22/03/1957
6	162m W	144a-152, Castle Street	II	1154770	14/12/1978
G	167m SW	21-25, Coley Hill	II	1155093	14/12/1978
G	175m SW	27, Coley Hill	II	1113459	14/12/1978
G	181m SW	29, Coley Hill	II	1321937	14/12/1978
C	183m NE	39 Castle Street	II	1154671	14/12/1978
7	185m E	Simmonds Malthouse	II	1155180	14/12/1978
G	190m SW	31-35, Coley Hill	II	1155095	14/12/1978
C	198m NE	33-37, Castle Street	II	1321956	14/12/1978
8	208m W	Nos 154 To 160 (Even) And Railings To Street	II*	1113431	22/03/1957



ID	Location	Name	Grade	Reference Number	Listed date
9	217m SW	Yeomanry House	II	1321962	14/12/1978
C	217m NE	27 Castle Street	II	1154654	14/12/1978
10	229m NW	33-39, Baker Street	II	1321984	14/12/1978
C	231m NE	23 And 25 Castle Street	II	1113415	14/12/1978
11	237m W	162a, Castle Street (See Details For Further Address Information)	II	1113432	14/12/1978
C	239m NE	21 Castle Street	II	1303700	14/12/1978
12	241m SW	3, Castle Crescent	II	1154629	14/12/1978
C	248m NE	19 Castle Street And Associated Front Railings	II*	1113414	22/03/1957

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 92 >](#)

ID	Location	Name	District	Date of designation
1	4m W	Russell Street and Castle Hill, Reading	Reading	1972
C	40m E	St Mary's Butts and Castle Street, Reading	Reading	1972

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

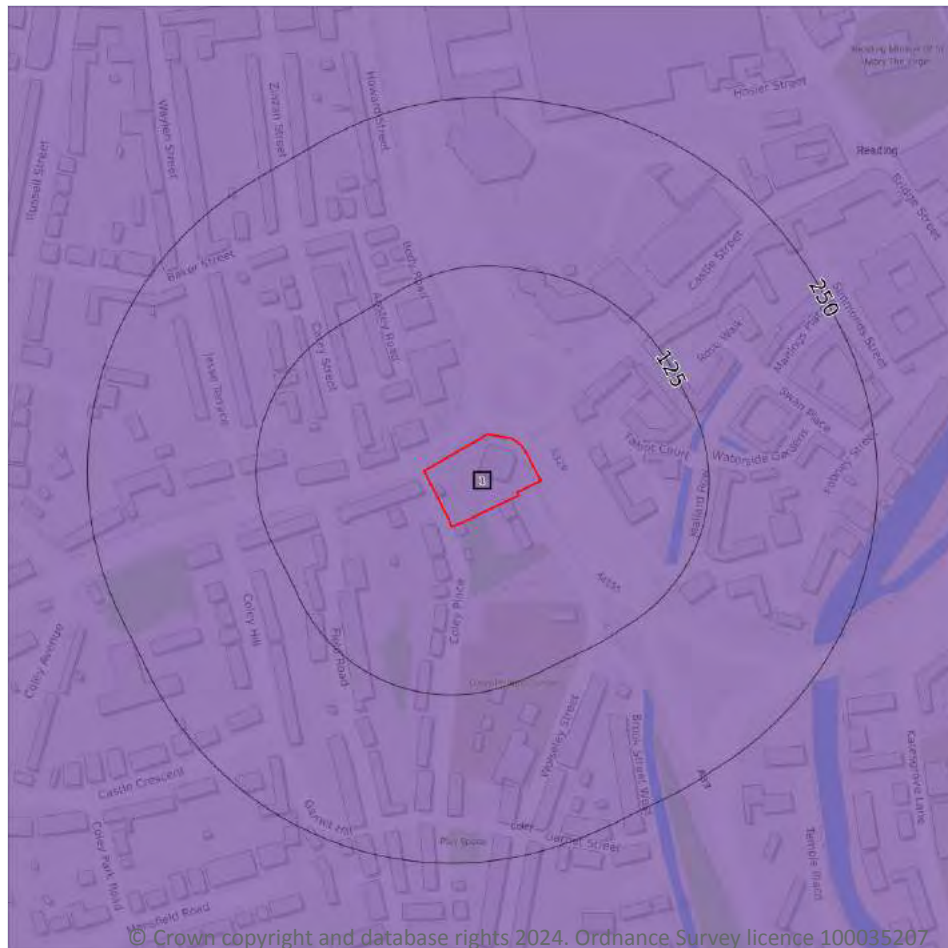
0

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.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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 97](#) >

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

0

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

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.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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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.

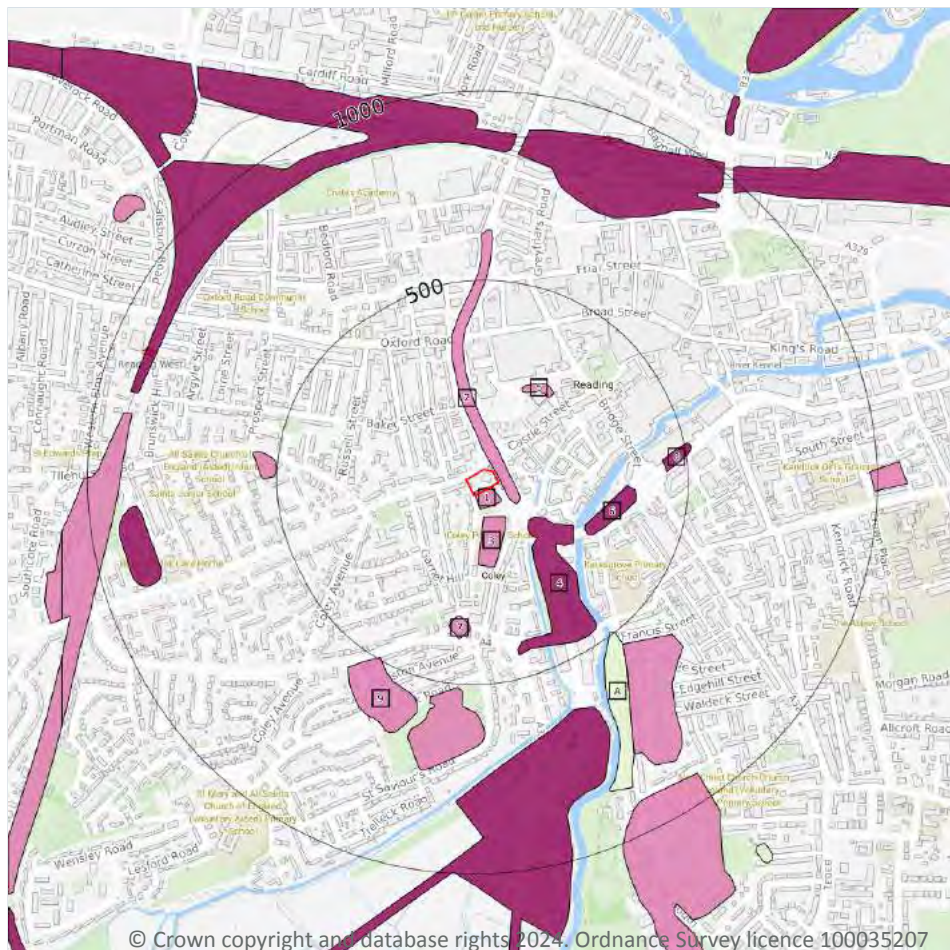
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 100](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU77SW

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

10

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 101](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	6m NE	WGR-VOID	Worked Ground (Undivided)	Void
3	62m S	WGR-VOID	Worked Ground (Undivided)	Void
4	127m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

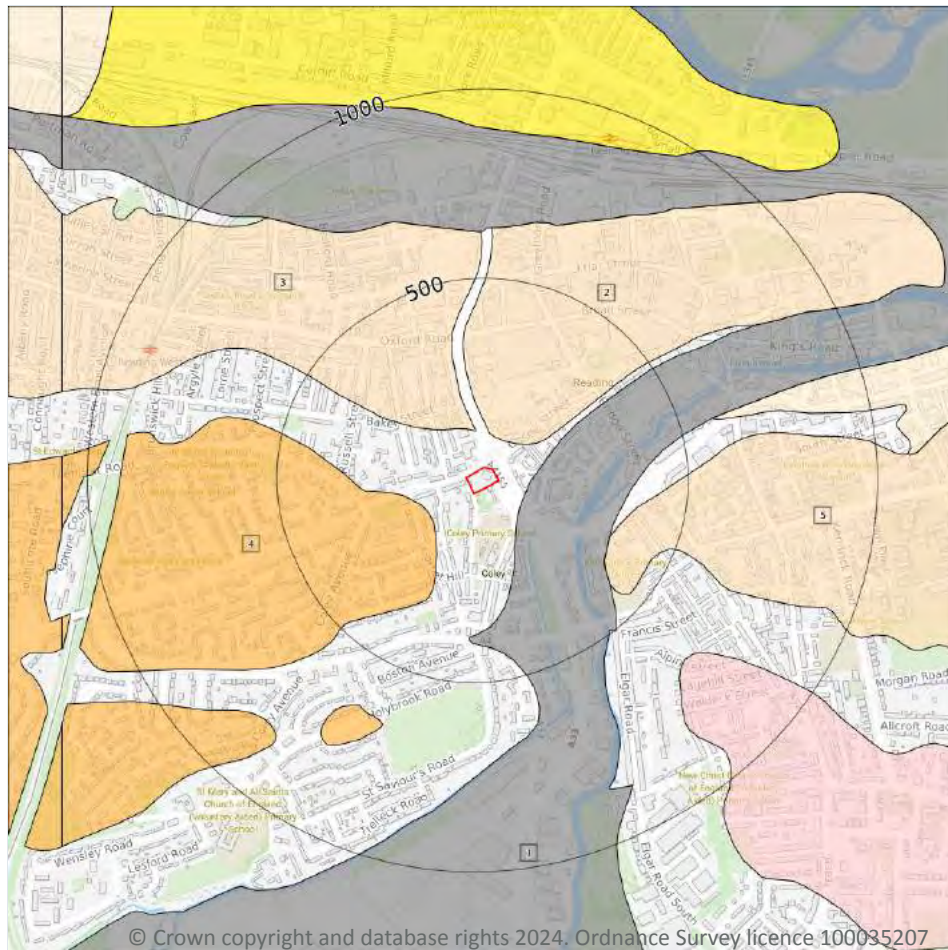


ID	Location	LEX Code	Description	Rock description
5	225m NE	WGR-VOID	Worked Ground (Undivided)	Void
6	254m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	320m S	WGR-VOID	Worked Ground (Undivided)	Void
8	437m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	493m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
9	494m SW	WGR-VOID	Worked Ground (Undivided)	Void

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

5

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 103](#) >

ID	Location	LEX Code	Description	Rock description
1	78m E	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	82m NE	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
3	99m N	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
4	129m SW	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	329m SE	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

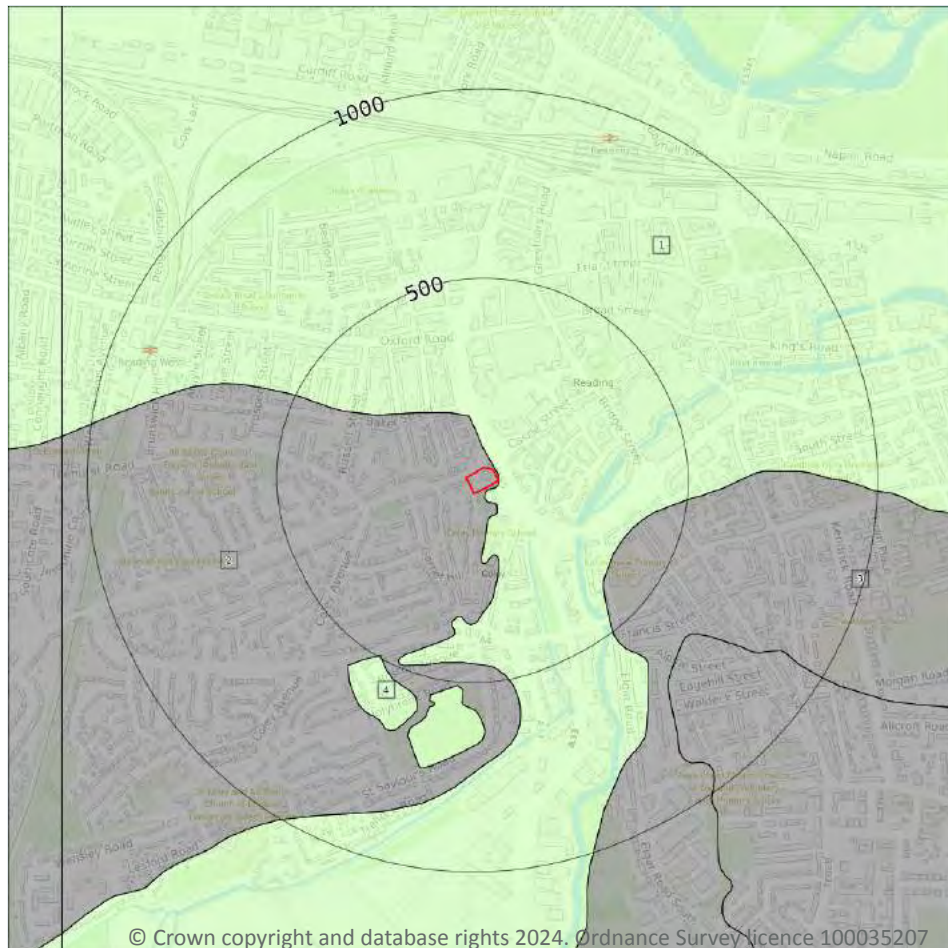
0

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.



Geology 1:10,000 scale - Bedrock



— Site Outline

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

4

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 105](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LSNCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age
2	On site	LMBE-CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch

ID	Location	LEX Code	Description	Rock age
3	360m SE	LMBE- CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch
4	494m SW	LSNCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age

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



— Site Outline
Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

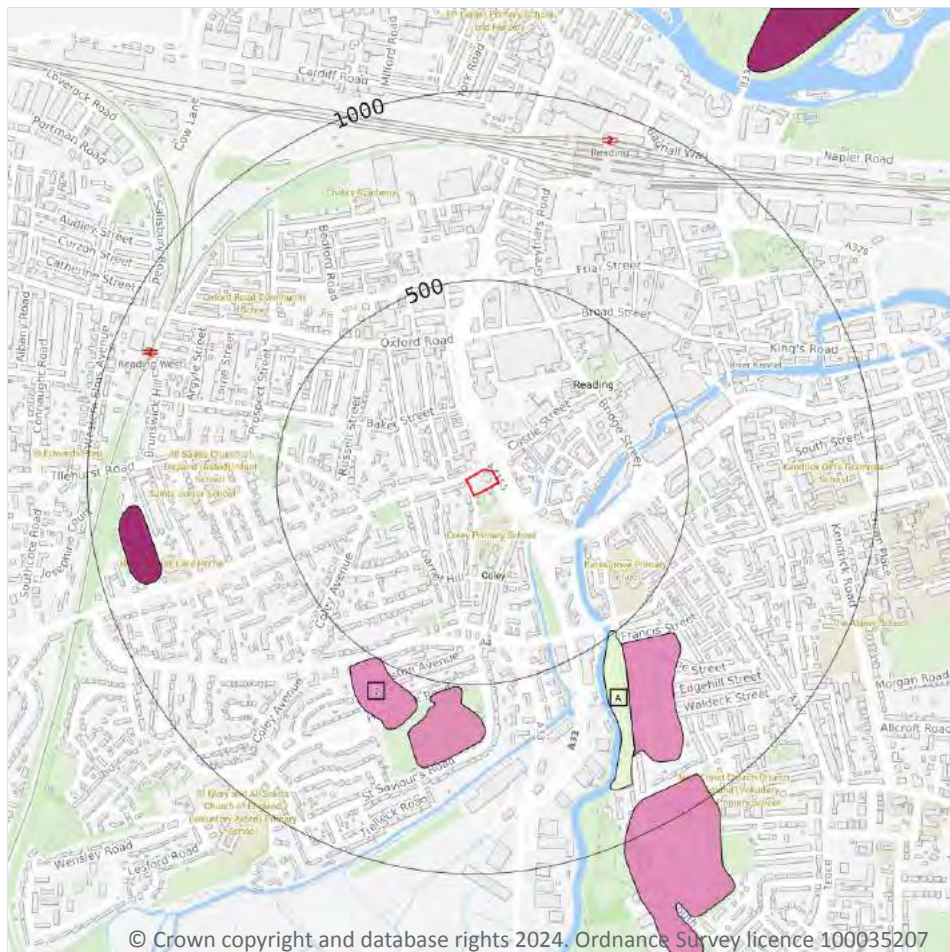
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 107](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW268_reading_v4

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped 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 108](#) >

ID	Location	LEX Code	Description	Rock description
A	490m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
1	496m SW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

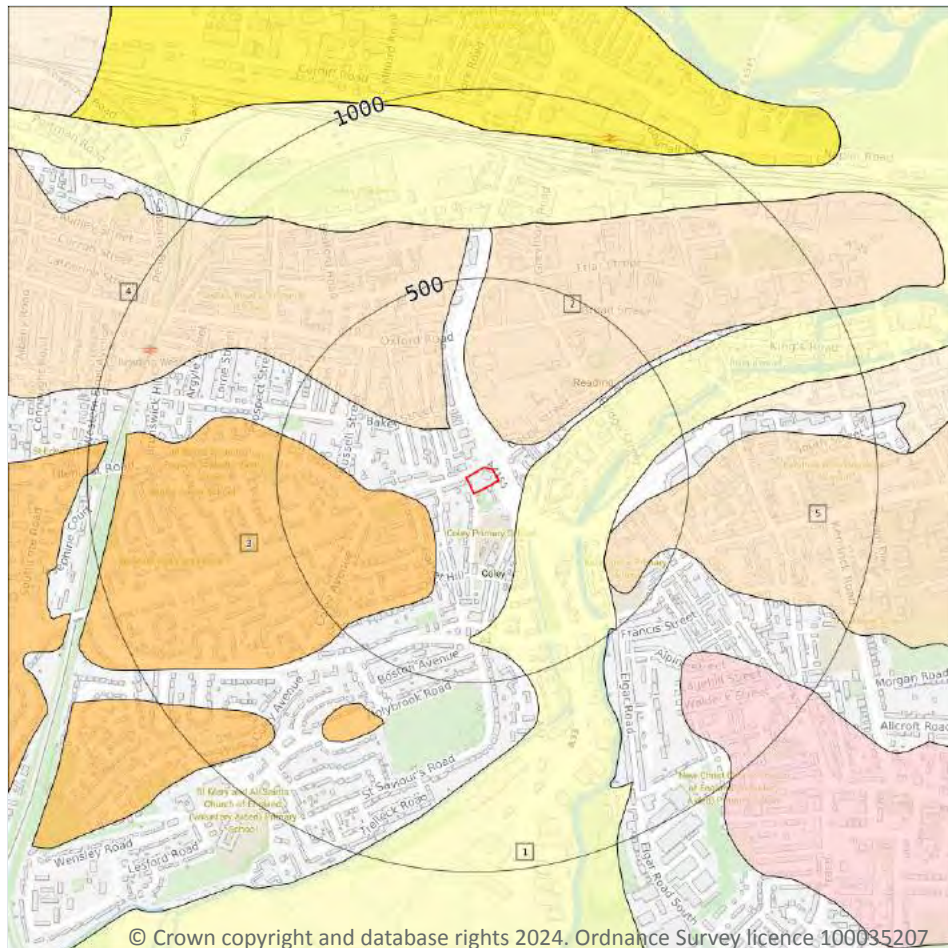
0

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.



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

5

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 110](#) >

ID	Location	LEX Code	Description	Rock description
1	67m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	82m NE	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
3	129m SW	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
4	134m NW	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	325m SE	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

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

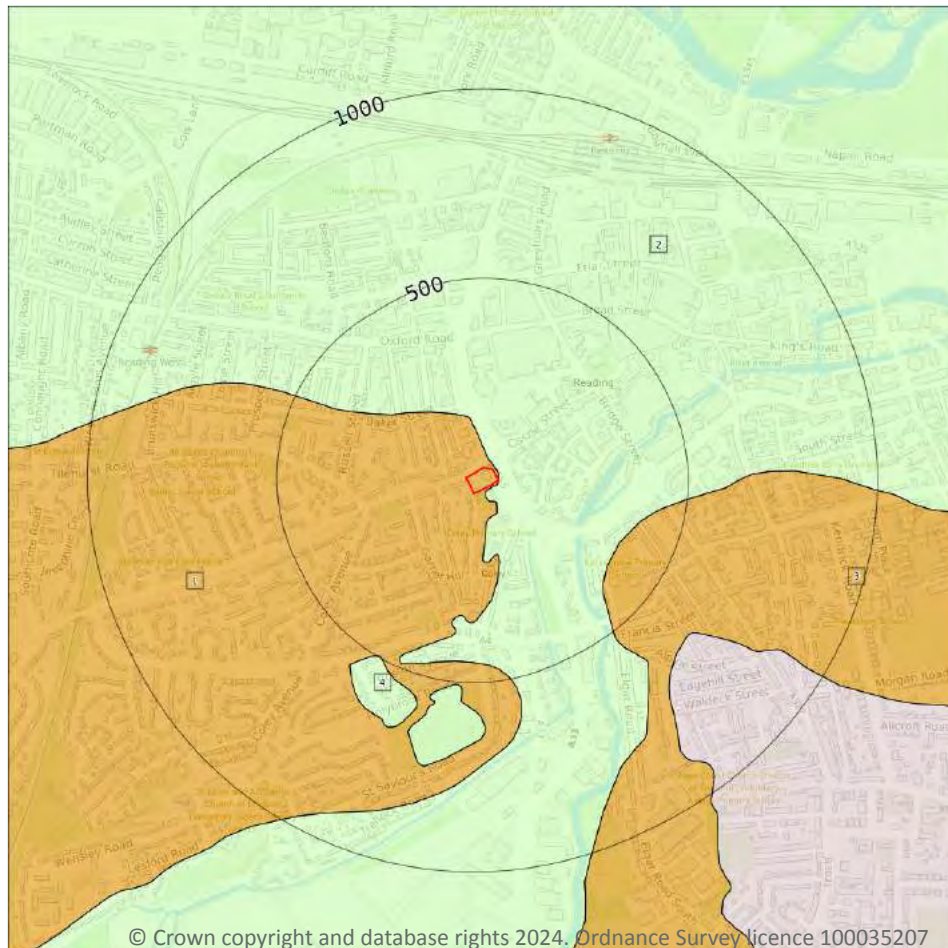
0

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.



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

4

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 112](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	On site	SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CONIACIAN
3	359m SE	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN



ID	Location	LEX Code	Description	Rock age
4	496m SW	SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CONIACIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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
On site	Fracture	Very High	Very High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

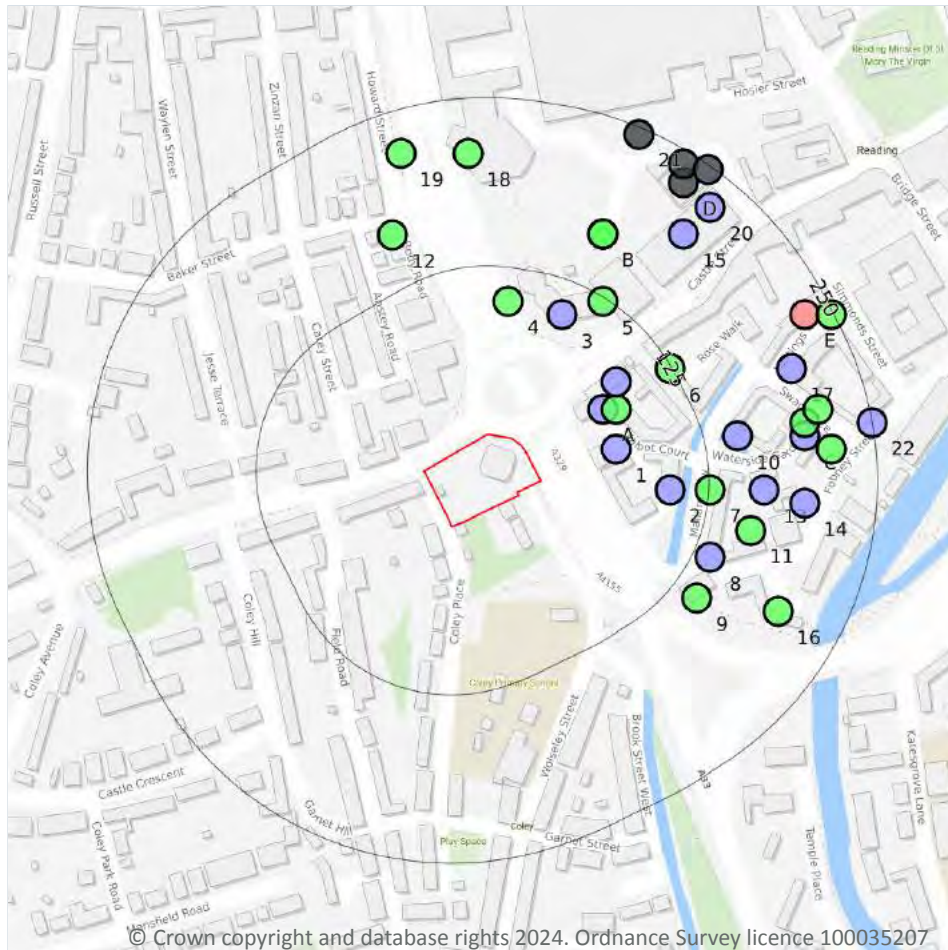
Records within 500m	0
----------------------------	----------

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



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

38

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 114](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	61m E	471210 173040	READING CIVIC CENTRE BHD1	9.14	N	428847 ↗
A	65m NE	471200 173070	55-61 CASTLE STREET READING 2	7.5	N	15043362 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	74m NE	471210 173070	55-61 CASTLE STREET READING 1	14.0	N	15043358 ↗
A	85m NE	471210 173090	55-61 CASTLE STREET READING 3/3A	6.0	N	15043365 ↗
2	96m E	471250 173010	READING CIVIC CENTRE BHD2	6.09	N	428848 ↗
3	99m NE	471170 173140	READING MAGISTRATES CRT P1	10.0	N	428262 ↗
4	100m N	471130 173150	READING CIVIC CENTRE BH3	18.28	N	428844 ↗
5	122m NE	471200 173150	READING MAGISTRATES CRT P2	20.0	N	428263 ↗
6	124m NE	471250 173100	FOBNEY STREET READING 6	15.0	N	428431 ↗
7	126m E	471280 173010	FOBNEY STREET READING 13	12.0	N	428437 ↗
8	138m E	471280 172960	FOBNEY STREET READING 17A	10.0	N	428441 ↗
9	145m SE	471270 172930	FOBNEY STREET READING 19	15.0	N	428442 ↗
10	150m E	471300 173050	FOBNEY STREET READING 9	10.0	N	428433 ↗
11	160m E	471310 172980	FOBNEY STREET READING 16	12.0	N	428440 ↗
12	164m N	471044 173199	3 BAKER STREET READING 1	15.0	N	15631833 ↗
13	166m E	471320 173010	FOBNEY STREET READING 14	10.0	N	428438 ↗
B	166m NE	471200 173200	READING CIVIC OFFICES 1	30.0	N	428256 ↗
B	166m NE	471200 173200	READING CIVIC OFFICES 4	20.0	N	428259 ↗
B	166m NE	471200 173200	READING CIVIC OFFICES 2	20.0	N	428257 ↗
B	166m NE	471200 173200	READING CIVIC OFFICES 3	20.0	N	428258 ↗
14	197m E	471350 173000	FOBNEY STREET READING 15	10.0	N	428439 ↗
15	198m NE	471260 173200	READING MAGISTRATES CRT M2A	7.0	N	428261 ↗
C	199m E	471350 173050	FOBNEY STREET READING 11	10.0	N	428435 ↗
16	201m SE	471330 172920	FOBNEY STREET READING 20A	12.0	N	428443 ↗
C	201m E	471350 173060	COURAGE BREWERIES NO 9 READING	29.56	N	428824 ↗
17	204m E	471340 173100	FOBNEY STREET READING 4	10.0	N	428430 ↗
18	209m N	471100 173260	READING CIVIC CENTRE BH2	18.28	N	428843 ↗
C	213m E	471360 173070	FOBNEY STREET READING 7	12.0	N	428432 ↗
C	217m E	471370 173040	FOBNEY STREET READING 12	15.0	N	428436 ↗

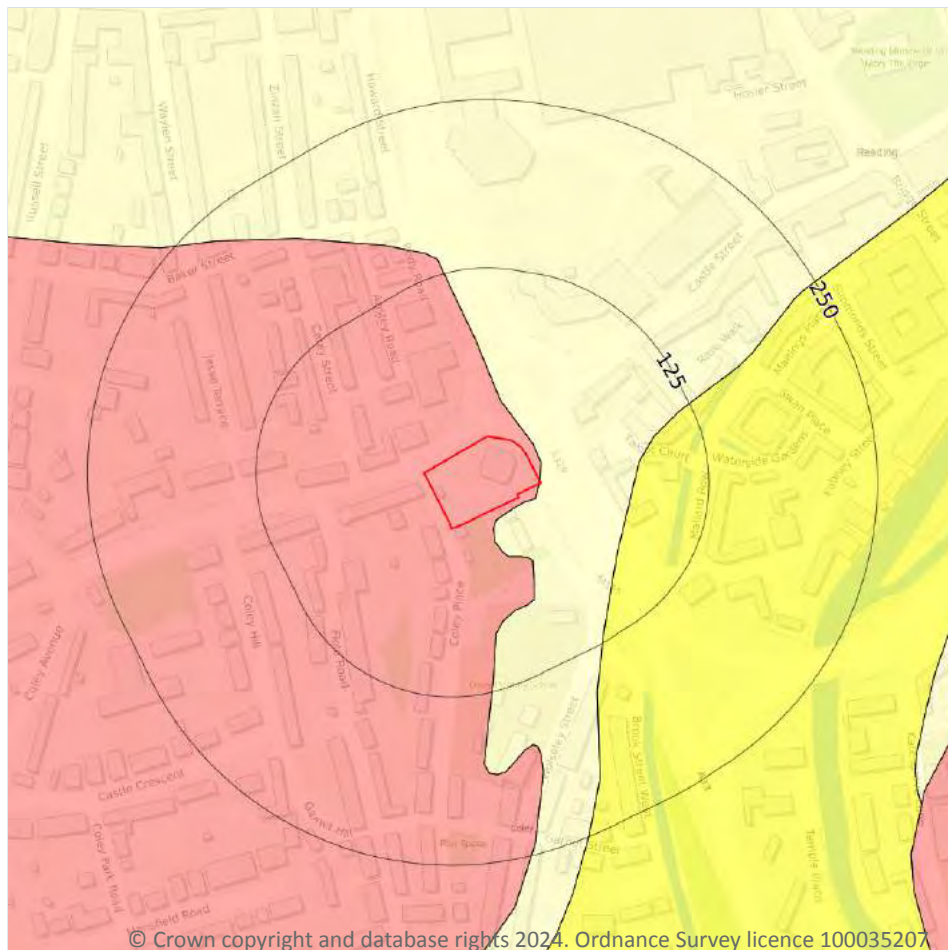


ID	Location	Grid reference	Name	Length	Confidential	Web link
19	219m N	471050 173260	READING CIVIC CENTRE BH5	18.28	N	428846 ↗
20	226m NE	471280 173220	READING MAGISTRATES CRT M1	9.0	N	428260 ↗
D	229m NE	471260 173238	READING CIVIC CENTRE 108	-	Y	N/A
E	231m NE	471350 173140	COURAGE BREWERIES NO 8 READING	34.14	N	428823 ↗
D	241m NE	471260 173252	READING CIVIC CENTRE TP106	-	Y	N/A
21	245m NE	471227 173274	READING CIVIC CENTRE TP110	-	Y	N/A
D	247m NE	471278 173248	READING CIVIC CENTRE TP107	-	Y	N/A
E	249m NE	471370 173140	FOBNEY STREET READING 3	15.0	N	428429 ↗
22	250m E	471400 173060	FOBNEY STREET READING 10	10.0	N	428434 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

2

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).

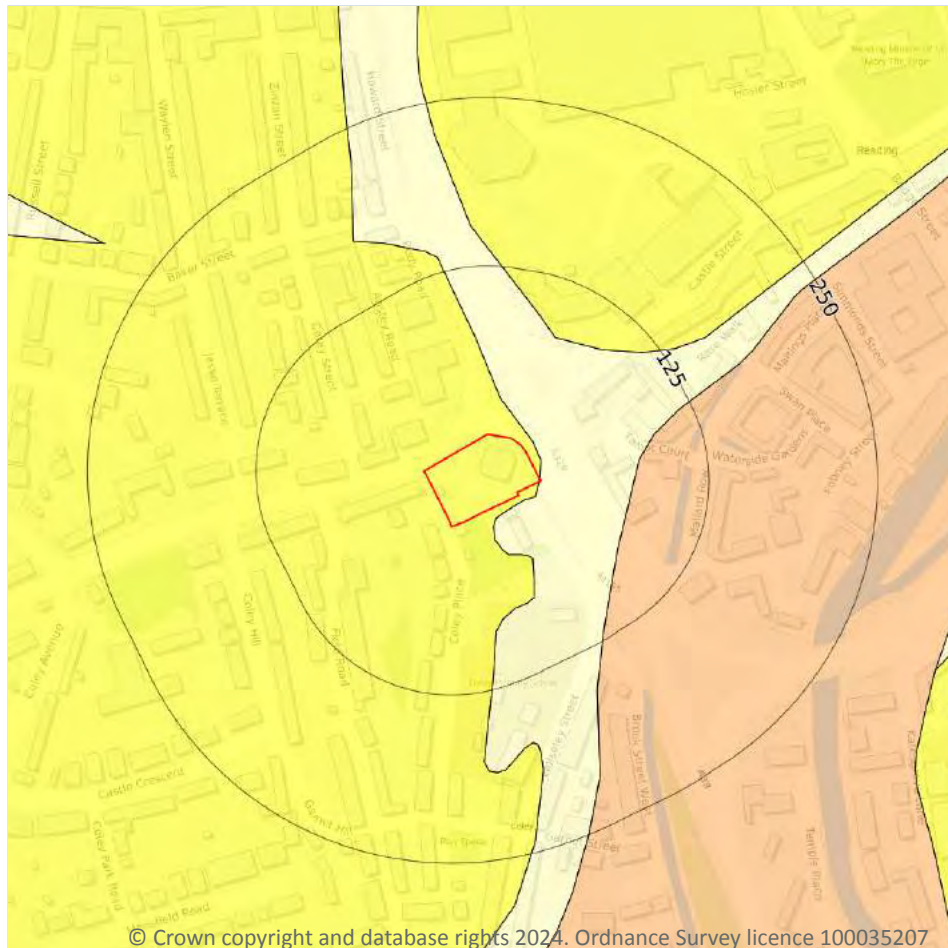
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 117 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

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 118](#) >

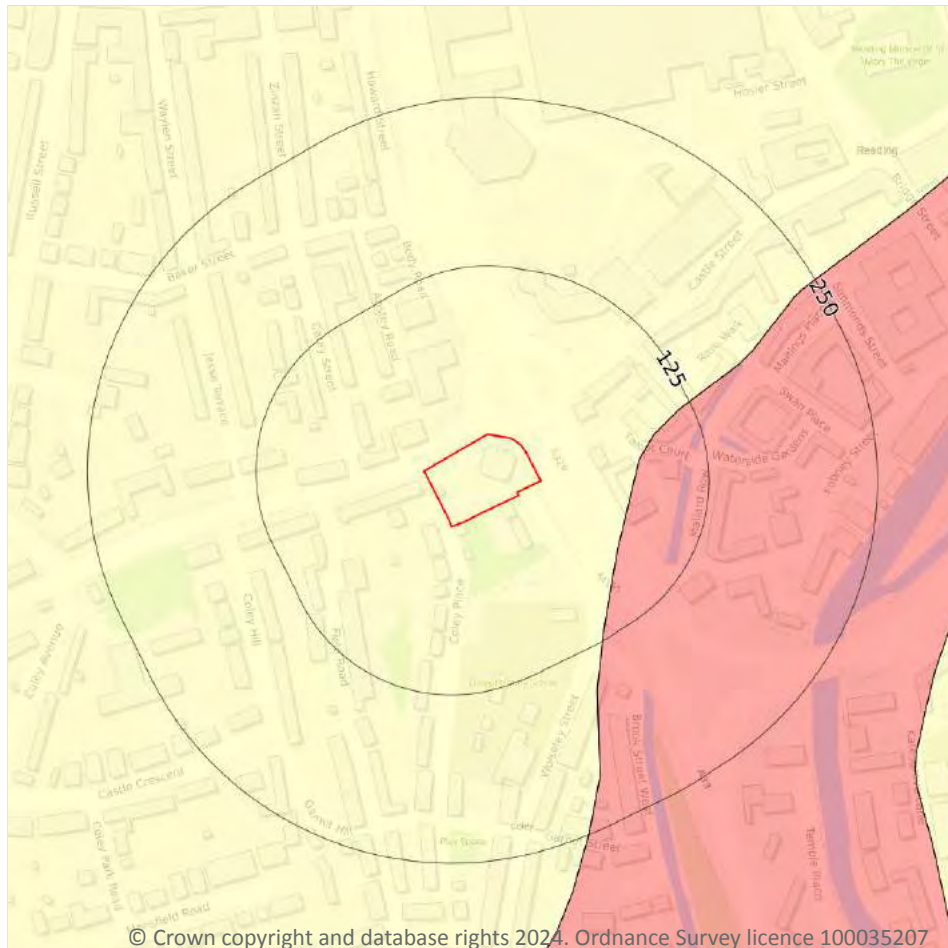
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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.

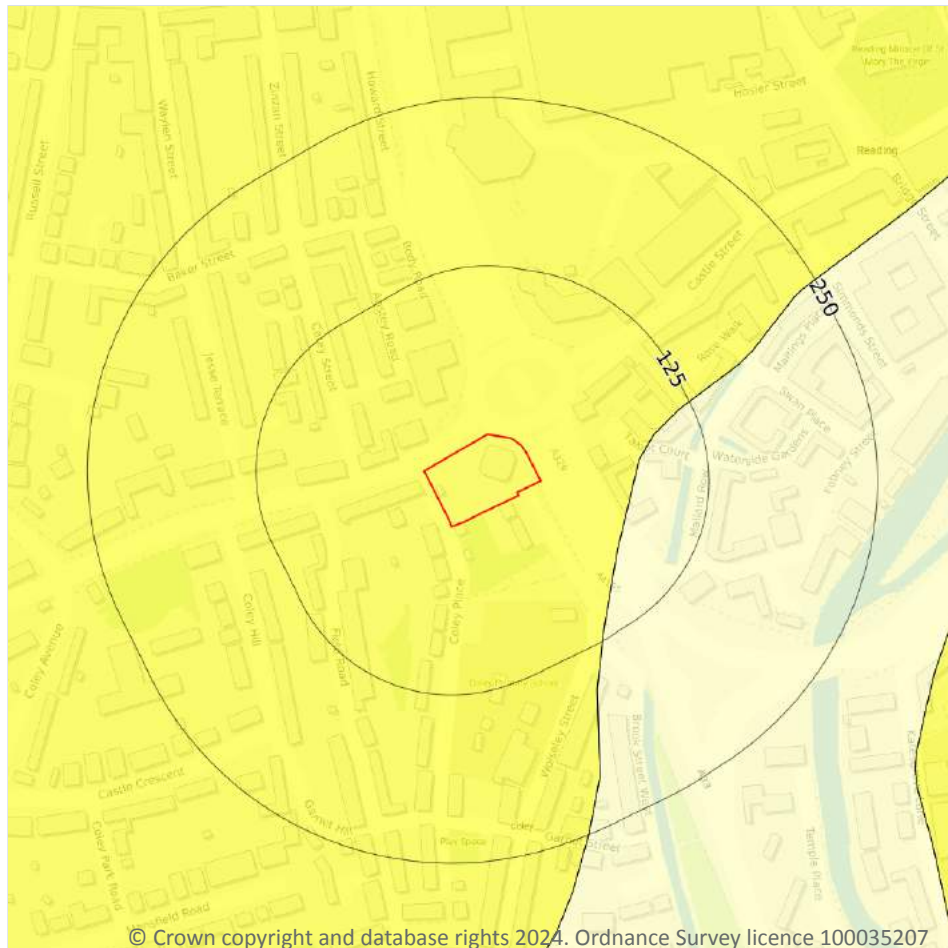
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 120](#) >

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



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

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.

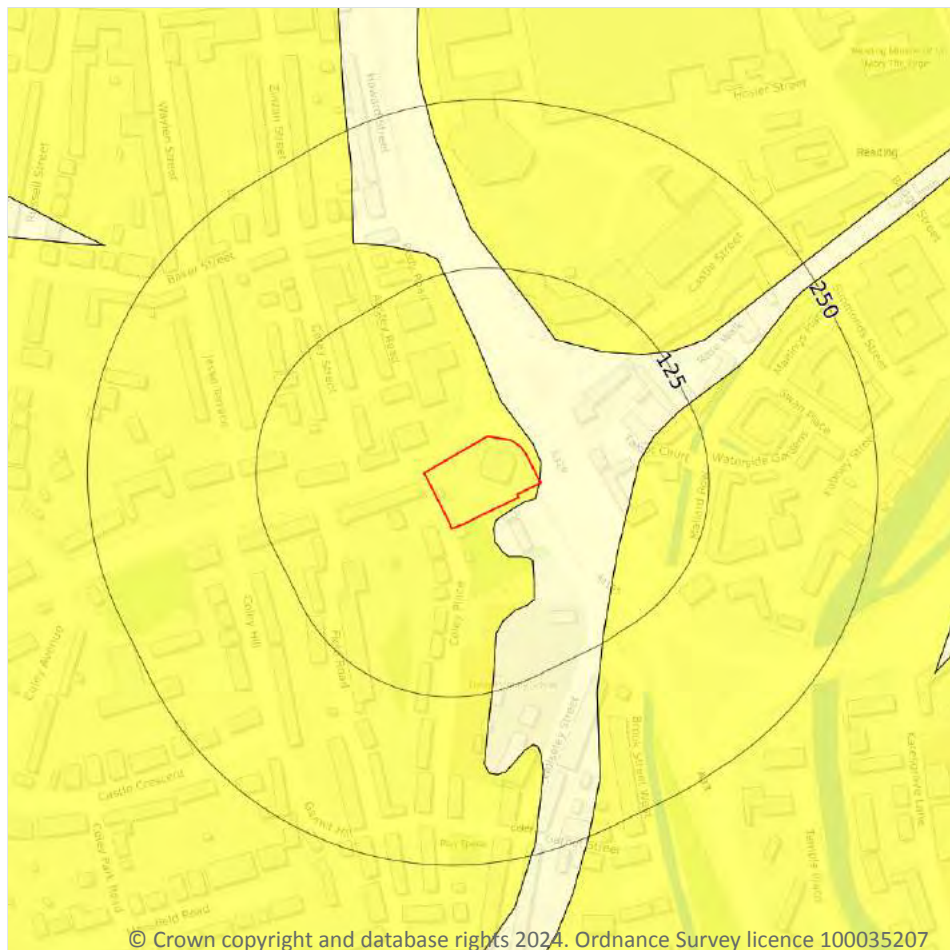
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 121 >](#)

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



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

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 122 >](#)

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

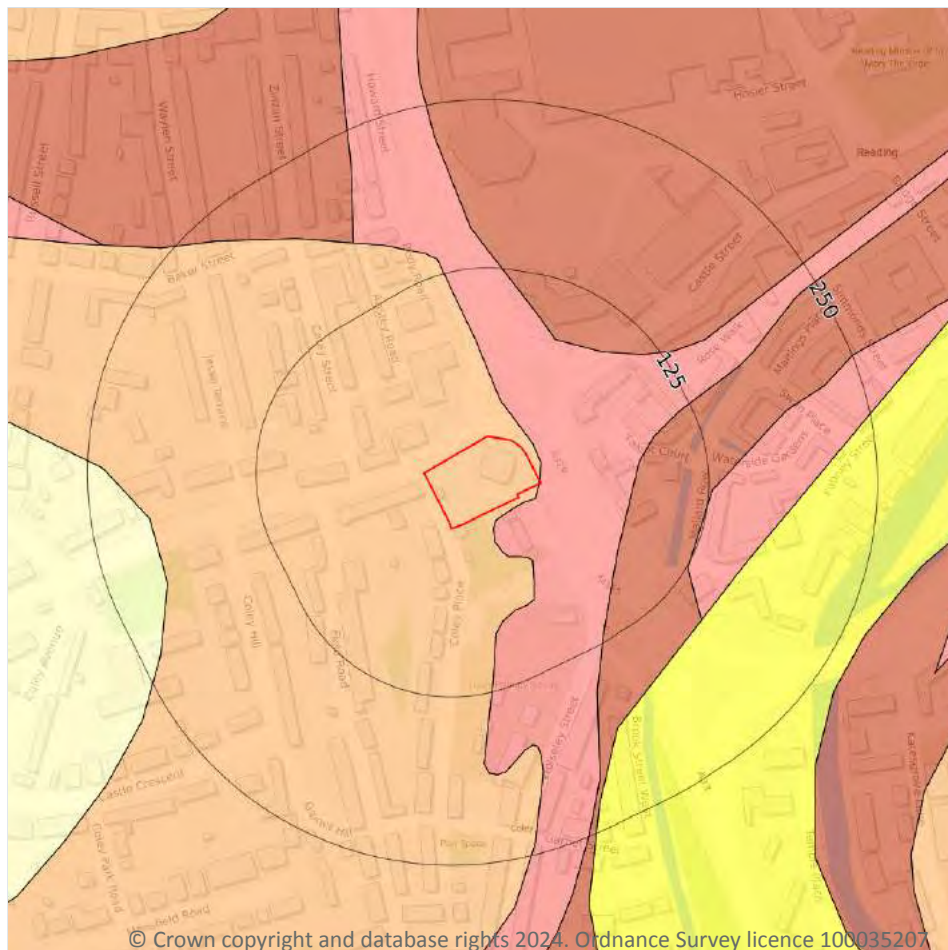


Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

2

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 124](#) >

Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

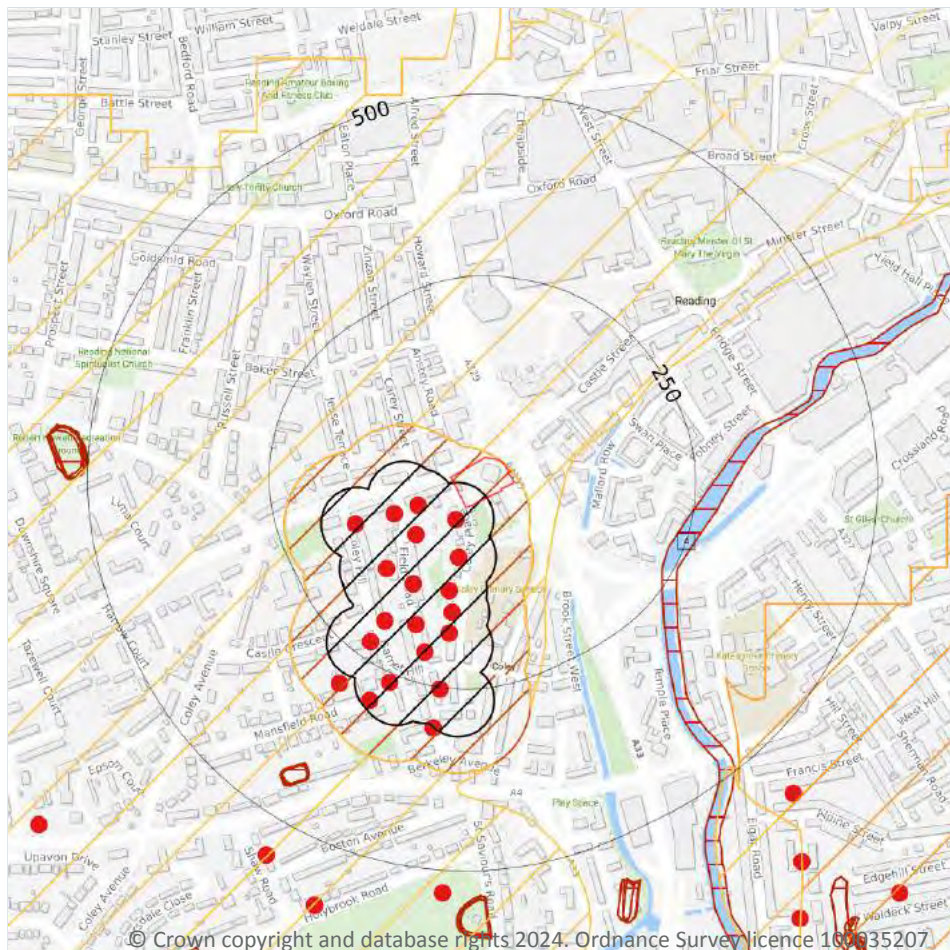


Location	Hazard rating	Details
On site	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

32

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 and ground workings map on [page 126](#) >

ID	Location	Details	Description
2	21m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
B	58m W	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	69m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
B	72m W	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
B	77m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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



ID	Location	Details	Description
B	92m W	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	117m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	128m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	137m SW	Name: Neuk & Bramley Chalk Mine Address: Coley, READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
3	145m W	Name: Reading Chalk Mine Address: Coley, READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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



ID	Location	Details	Description
A	146m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	151m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	157m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	174m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	175m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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



ID	Location	Details	Description
A	178m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	188m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	191m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	191m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	201m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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



ID	Location	Details	Description
A	206m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	226m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	231m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	234m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	252m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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



ID	Location	Details	Description
A	254m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	262m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	266m S	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	268m SW	Name: Reading Chalk Mine Address: READING, Berkshire Commodity: Chalk Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
A	297m SW	Name: Coley Gravel Pit Address: Coley, READING, Berkshire Commodity: 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



ID	Location	Details	Description
A	298m SW	Name: Coley Gravel Pit Address: Coley, READING, Berkshire Commodity: 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
A	306m S	Name: Coley Pottery Address: The Mount, READING, Berkshire Commodity: Clay & Shale 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.

18.2 Surface ground workings

Records within 250m

1

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 126 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
4	231m E	Canal	1938	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.



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

8

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).

Features are displayed on the Mining and ground workings map on [page 126 >](#)

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Ruby Court	Chalk	D	Underground mining is considered likely to have occurred within or close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
A	On site	Ruby Court	Chalk	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
1	1m NE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
5	384m SE	Not available	Chalk	C	Underground mine workings may have occurred in the past, or current mines may be operating to modern engineering standards. Potential for difficult ground conditions should be considered.
6	490m SE	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
8	542m NE	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	646m E	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	970m E	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	1
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Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

Location	Details
On site	Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) may have information such as mining plans and maps held within their archive that have occurred within 1km of this property. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.

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 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

49

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
On site	Stone
On site	Stone
On site	Stone
On site	Stone
On site	Stone
On site	Stone
10m SW	Stone
14m W	Stone
18m SW	Stone
19m SW	Stone
19m S	Stone
22m SW	Stone
22m SW	Stone
35m S	Stone
36m S	Stone



Location	Mineral type
38m W	Stone
44m S	Stone
46m W	Stone
46m S	Stone
61m S	Stone
64m SW	Stone
72m W	Stone
73m SW	Stone
81m SW	Stone
83m W	Stone
95m SW	Stone
96m S	Stone
96m SW	Stone
99m SW	Stone
100m SW	Stone
120m W	Stone
125m S	Stone
136m S	Stone
136m SW	Stone
173m SW	Stone
199m S	Stone
199m SW	Stone
201m S	Stone
206m SW	Stone
213m S	Stone
215m S	Stone
221m S	Stone
225m S	Stone



Location	Mineral type
228m S	Stone
259m SW	Stone
262m S	Stone
277m E	Stone
494m SE	Stone
494m SW	Stone

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0
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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	0
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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
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Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.



18.13 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

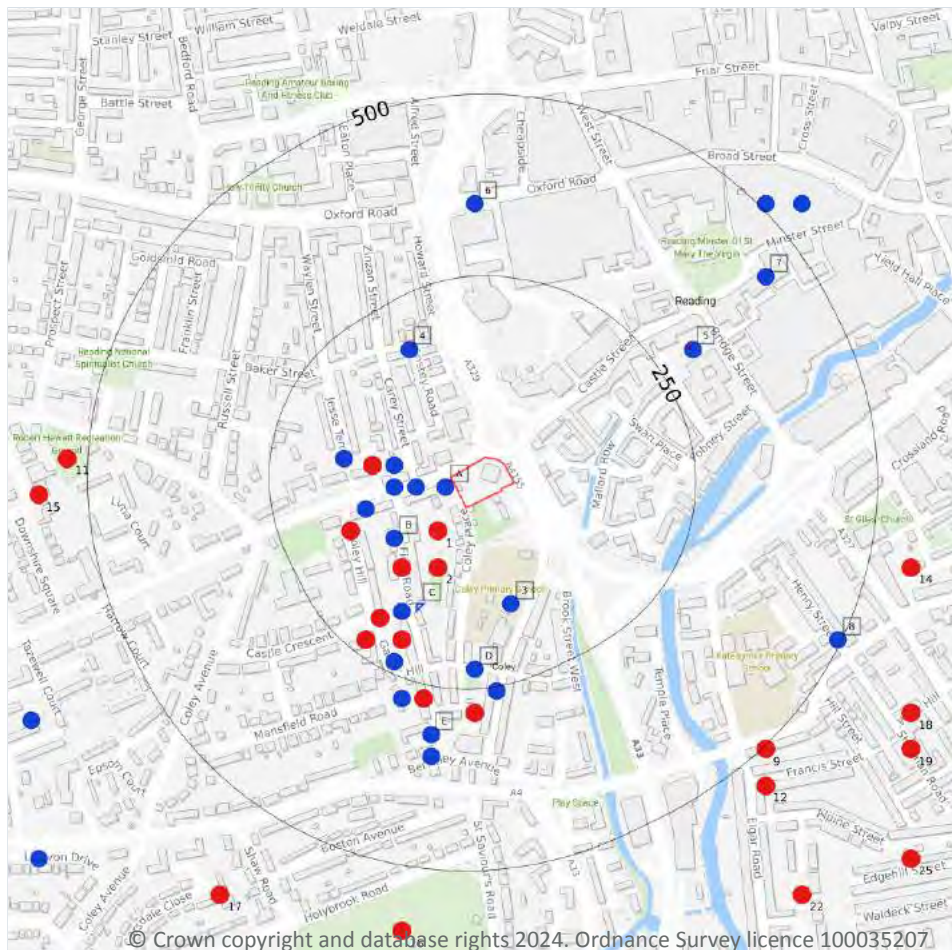
18.16 Clay mining

Records on site	0
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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 Ground cavities and sinkholes



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- Mining cavities
- Reported recent incidents
- Historical incidents
- BGS karst database (Point)
- BGS karst database (Line)
- BGS karst database (Area)

19.1 Natural cavities

Records within 500m

34

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.

Features are displayed on the Ground cavities and sinkholes map on [page 140](#) >

ID	Location	Details	Source
A	13m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: PBA Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely



ID	Location	Details	Source
A	30m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	49m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: PBA Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	59m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	59m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	68m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	68m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	68m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	78m W	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	79m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	94m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely



ID	Location	Details	Source
A	103m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
B	106m SW	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	125m W	Type: Solution Pipe x 2 Superficial Geology: Lynch Hill Gravel Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
C	144m SW	Type: Solution Pipe x 3 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: PBA Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
3	146m S	Type: Solution Widened Joint or Fissure x 1 Superficial Geology: - Bedrock Geology: Chalk Group	Simple Bibliography: PBA Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
A	149m W	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
C	167m SW	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Confidential Full Bibliography: Confidential Confidentiality: Data source to remain anonymous, data can be used freely
4	181m NW	Type: Solution Widened Joint or Fissure x 3 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates LLP Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
D	223m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
C	234m SW	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely



ID	Location	Details	Source
C	248m S	Type: Solution Pipe x 1 Superficial Geology: Lynch Hill Gravel Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
D	256m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
D	258m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
C	277m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
5	303m NE	Type: Solution Pipe x 2 Superficial Geology: Taplow Gravel Bedrock Geology: Chalk Group	Simple Bibliography: Reading Borough Council Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
E	316m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
E	336m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
E	346m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
6	349m N	Type: Solution Pipe x 3 Superficial Geology: Taplow Gravel Bedrock Geology: Chalk Group	Simple Bibliography: Reading Borough Council Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
E	349m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely



ID	Location	Details	Source
E	357m S	Type: Solution Pipe x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Peter Brett Associates Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
7	442m NE	Type: Solution Pipe x 1 Superficial Geology: Taplow Gravel Bedrock Geology: Chalk Group	Simple Bibliography: Reading Borough Council Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
8	495m SE	Type: Unknown Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group	Simple Bibliography: Confidential Full Bibliography: Confidential Confidentiality: Data source to remain anonymous, data can be used freely

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

35

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.

Features are displayed on the Ground cavities and sinkholes map on [page 140 >](#)

ID	Location	Mine Address	Mineral	Data source	Publisher
1	50m SW	Reading (Coley), Berkshire	Chalk	-	-
2	91m SW	Reading (Coley), Berkshire	Chalk	-	-
B	94m SW	Reading (Coley), Berkshire	Chalk	-	-
A	109m W	Reading (Coley), Berkshire	Chalk	-	-
A	119m W	Reading (Coley), Berkshire	Chalk	-	-
A	120m W	Reading (Coley), Berkshire	Chalk	-	-
B	121m SW	Reading (Coley), Berkshire	Chalk	-	-
A	130m W	Reading (Coley), Berkshire	Chalk	-	-
A	156m W	Reading (Coley), Berkshire	Chalk	-	-
C	193m SW	Reading (Coley), Berkshire	Chalk	-	-
C	203m SW	Castle Hill Kiln, Reading (Coley), Berkshire	Chalk	-	-



ID	Location	Mine Address	Mineral	Data source	Publisher
C	229m SW	Reading (Coley), Berkshire	Chalk	-	-
C	266m SW	Reading (Coley), Berkshire	Chalk	-	-
C	269m S	Reading (Coley), Berkshire	Chalk	-	-
D	283m S	Coley Potteries, Reading (Coley), Berkshire	Chalk	The Brick-making Industry in Reading: A Temporal & Spatial Analysis	Undergraduate Dissertation, University of Reading
9	504m SE	Katesgrove Kilns (1), Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
11	528m W	Reading, Berkshire	Chalk	-	-
12	542m SE	Katesgrove Kilns (2), Reading, Berkshire	Chalk	READING CHALK MINES	TRANS.GEO.SOC., 4, 780
14	558m E	Reading, Berkshire	Chalk	-	-
15	568m W	Reading (West), Berkshire	Chalk	-	-
16	589m S	Wheeler Works, Reading (Coley), Berkshire	Chalk	The Brick-making Industry in Reading: A Temporal & Spatial Analysis	Undergraduate Dissertation, University of Reading
17	631m SW	Avenue Works, Reading (Coley), Berkshire	Chalk	-	PhD Thesis, University of Reading
18	631m SE	Shearmans Brick Kiln, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
19	658m SE	Shearmans Brick Kiln, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	690m E	Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
22	691m SE	Katesgrove Kilns (3), Reading, Berkshire	Chalk	THE ENGINEERING GEOMORPHOLOGY OF KARST DEVELOPMENT AND THE PREDICTION OF SUBS..	PHD THESIS,LONDON UNIVERSITY
-	718m W	Reading (West), Berkshire	Chalk	-	-
-	742m SW	Reading (Coley), Berkshire	Chalk	-	PhD Thesis, University of Reading
25	752m SE	Ivy Lodge Brickfield/ Southampton Kiln, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	787m W	Coopers Brick & Lime Manufactory, Reading (West), Berkshire	Chalk	-	-



ID	Location	Mine Address	Mineral	Data source	Publisher
-	806m E	Jubilee Square, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	810m E	The Old Orchard Kiln, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	867m SE	The Upper Kiln, Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	899m W	Reading, Berkshire	Chalk	-	-
-	993m W	Reading, Berkshire	Chalk	-	-

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0
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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
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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.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

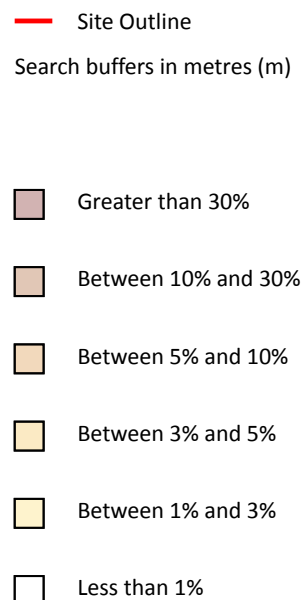
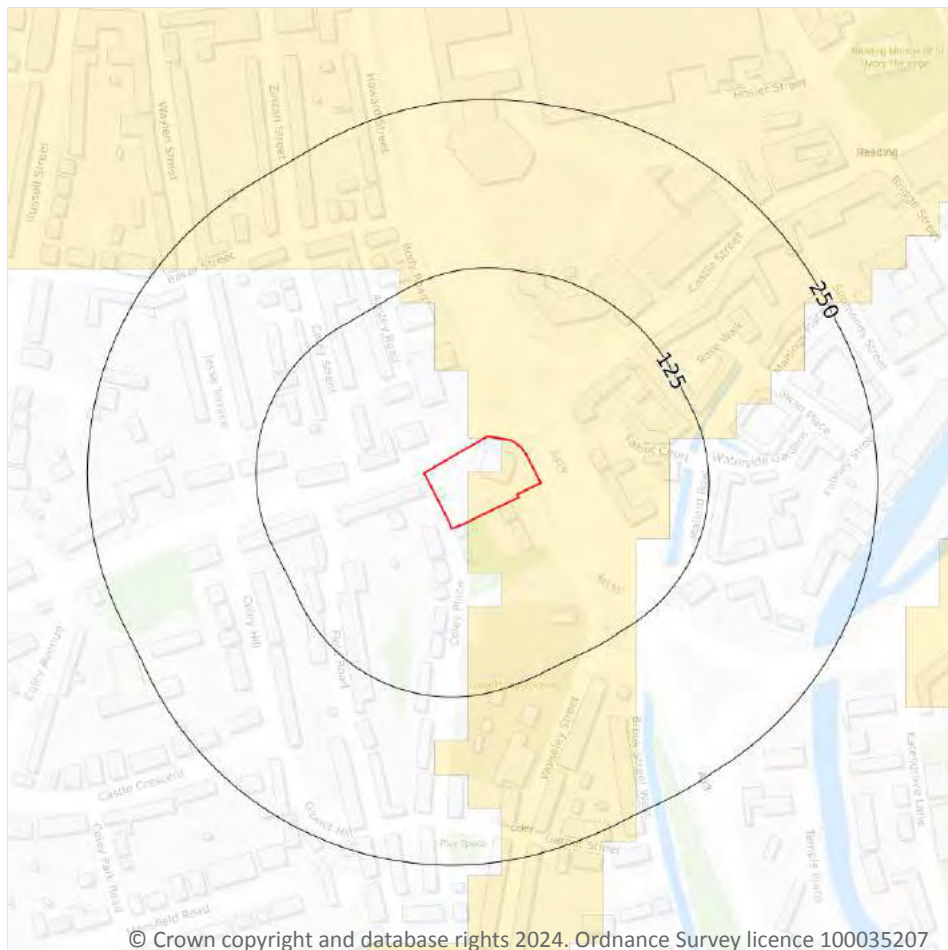
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

2

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 148](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None



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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

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	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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).

This data is sourced from the British Geological Survey.



21.3 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.



22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)**
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 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.

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

0

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

17

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 152 >](#)

Location	Land Use	Year of mapping	Mapping scale
155m E	Railway Sidings	1912	2500
155m E	Railway Sidings	1931	2500
157m E	Railway Sidings	1957	2500
157m E	Railway Sidings	1958	2500
158m E	Railway Sidings	1938	10560
162m SE	Railway Sidings	1962	10560
171m E	Railway Sidings	1913	10560
178m E	Railway Sidings	1933	10560
179m E	Railway Sidings	1938	10560
187m E	Railway Sidings	1957	2500
187m E	Railway Sidings	1959	2500
187m E	Railway Sidings	1957	1250
203m SE	Railway Sidings	1969	1250
213m SE	Railway Sidings	1977	10000
213m SE	Railway Sidings	1971	10000
229m SE	Railway Sidings	1972	1250
230m SE	Railway Sidings	1968	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.

22.6 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.

22.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 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.

22.9 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.



22.10 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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Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

