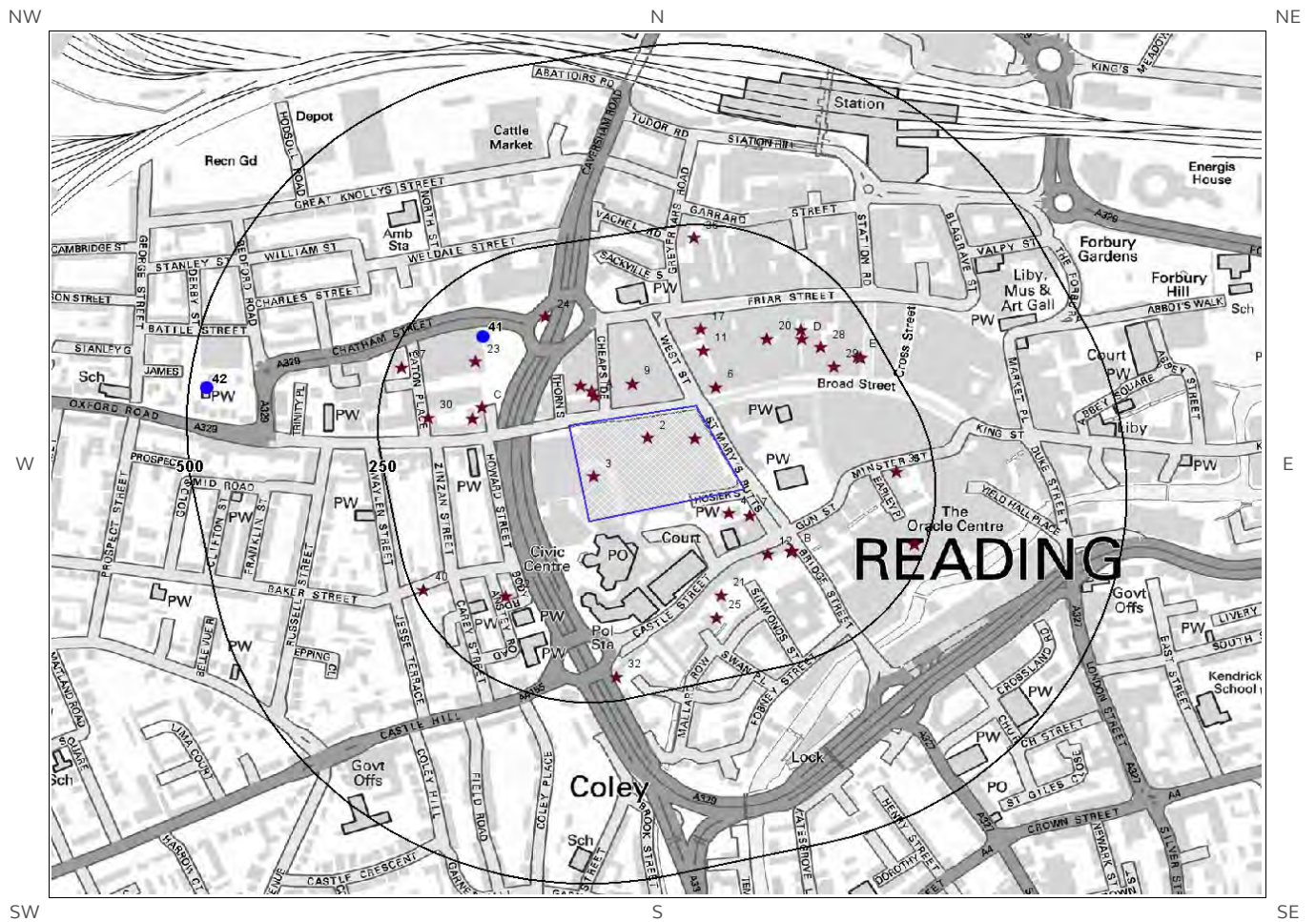


4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

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

40

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	0	On Site	Samsung Reading	471287 173388	14, Broad Street Mall, Reading, RG1 7QE	Electrical Equipment Repair and Servicing	Repair and Servicing
2	0	On Site	Hidden Hearing	471225 173389	19, Oxford Road, Reading, RG1 7QG	Disability and Mobility Equipment	Consumer Products
3	0	On Site	Reading Business Centre	471154 173335	Fountain House 2, Queens Walk, Reading, RG1 7QF	Business Parks and Industrial Estates	Industrial Features
4	28	S	Electricity Sub Station	471332 173285	RG1	Electrical Features	Infrastructure and Facilities
5A	35	N	Amplifon	471156 173446	7, Cheapside, Reading, RG1 7AQ	Disability and Mobility Equipment	Consumer Products
6	36	NE	Boots Hearing Care	471314 173458	70-72, Broad Street, Reading, RG1 2AF	Disability and Mobility Equipment	Consumer Products
7	37	S	Kall Kwik Printing	471358 173282	32, St. Marys Butts, Reading, RG1 2LS	Published Goods	Industrial Products
8A	43	N	UTP Merchant Services Ltd	471152 173453	Zenith House, Cheapside, Reading, RG1 7AQ	Office and Shop Equipment	Industrial Products
9	45	N	Electricity Sub Station	471205 173464	RG1	Electrical Features	Infrastructure and Facilities
10A	53	N	Amplivox Ultratone	471137 173461	Unit 2 7 Cheapside, Reading, RG1 7AQ	Disability and Mobility Equipment	Consumer Products
11	78	N	Electricity Sub Station	471298 173510	RG1	Electrical Features	Infrastructure and Facilities
12	94	S	Waste King	471382 173228	7, Castle Street, Reading, RG1 7SB	Construction and Tool Hire	Hire Services
13B	105	SE	Bracknell News Series	471414 173233	Bowman House, 2-10 Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
14B	105	SE	Berkshire Media Group	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
15B	105	SE	Wokingham News	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
16B	105	SE	Midweek Observer	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
17	107	N	Electricity Sub Station	471295 173539	RG1	Electrical Features	Infrastructure and Facilities
18C	117	W	Electricity Sub Station	471009 173431	RG1	Electrical Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
19C	127	W	Minuteman Press	470996 173415	82, Oxford Road, Reading, RG1 7LJ	Published Goods	Industrial Products
20	131	NE	Electricity Sub Station	471381 173526	RG1	Electrical Features	Infrastructure and Facilities
21	136	S	Tank	471322 173172	RG1	Tanks (Generic)	Industrial Features
22	150	SW	Lowfare Transport	471040 173169	12, Body Road, Reading, RG1 7JP	Vehicle Hire and Rental	Hire Services
23	151	NW	24k Gold Plated Ltd	471000 173494	Flat 3 Hayward, Chatham Place, Reading, RG1 7AZ	Jewellery, Gems, Clocks and Watches	Consumer Products
24	154	N	Electricity Sub Station	471092 173556	RG1	Electrical Features	Infrastructure and Facilities
25	165	S	Electricity Sub Station	471316 173141	RG1	Electrical Features	Infrastructure and Facilities
26D	166	NE	A & Z Mobiles UK Ltd	471427 173525	17, Union Street, Reading, RG1 1EU	Electrical Equipment Repair and Servicing	Repair and Servicing
27D	172	NE	Sanbei Phoneshop	471426 173538	14, Union Street, Reading, RG1 1EU	Radar and Telecommunications Equipment	Industrial Products
28	182	NE	Electricity Sub Station	471452 173514	RG1	Electrical Features	Infrastructure and Facilities
29	183	NE	Specsavers Hearcare	471468 173487	41-43, Broad Street, Reading, RG1 2AA	Disability and Mobility Equipment	Consumer Products
30	184	W	Reading Carpentry Services Ltd	470938 173416	1a, Eaton Place, Reading, RG1 7LP	General Construction Supplies	Industrial Products
31	200	E	carvalet.co.uk	471550 173342	41, Minster Street, Reading, RG1 2JB	Vehicle Cleaning Services	Personal, Consumer and Other Services
32	217	S	Electricity Sub Station	471185 173059	RG1	Electrical Features	Infrastructure and Facilities
33E	217	NE	Q V Offices	471500 173501	25-27, Queen Victoria Street, Reading, RG1 1SY	Business Parks and Industrial Estates	Industrial Features
34E	220	NE	Formscan	471503 173499	25-27, Queen Victoria Street, Reading, RG1 1SY	Printing Related Machinery	Industrial Products
35E	220	NE	Carvenient Club	471503 173499	25-27, Queen Victoria Street, Reading, RG1 1SY	Vehicle Hire and Rental	Hire Services
36	233	N	Electricity Sub Station	471286 173665	RG1	Electrical Features	Infrastructure and Facilities
37	234	W	UK Tyres & Garage	470903 173486	Eaton Place, City Centre, Reading, RG1 7LP	Vehicle Repair, Testing and Servicing	Repair and Servicing
38F	235	E	The Car Wash Co	471574 173242	Management Suite Riverside Level, The Oracle Centre, Reading, RG1 2AG	Vehicle Cleaning Services	Personal, Consumer and Other Services
39F	235	E	Boots Hearing Care	471574 173242	Unit 5 Upper Ground Level, The Oracle Centre, Reading, RG1 2AH	Disability and Mobility Equipment	Consumer Products
40	237	SW	Electricity Sub Station	470932 173179	RG1	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

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

2

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

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
41	167	NW	471010 173528	Obsolete	Welldale Service Station, Chatham Street, Chatham Street, Reading, Reading, RG1 7JF	Not Applicable	Obsolete
42	477	W	470649 173457	Obsolete	Parsons Garage, 211-221, Oxford Road, Oxford Road, Reading, Reading, RG1 7PX	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

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

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

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

0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

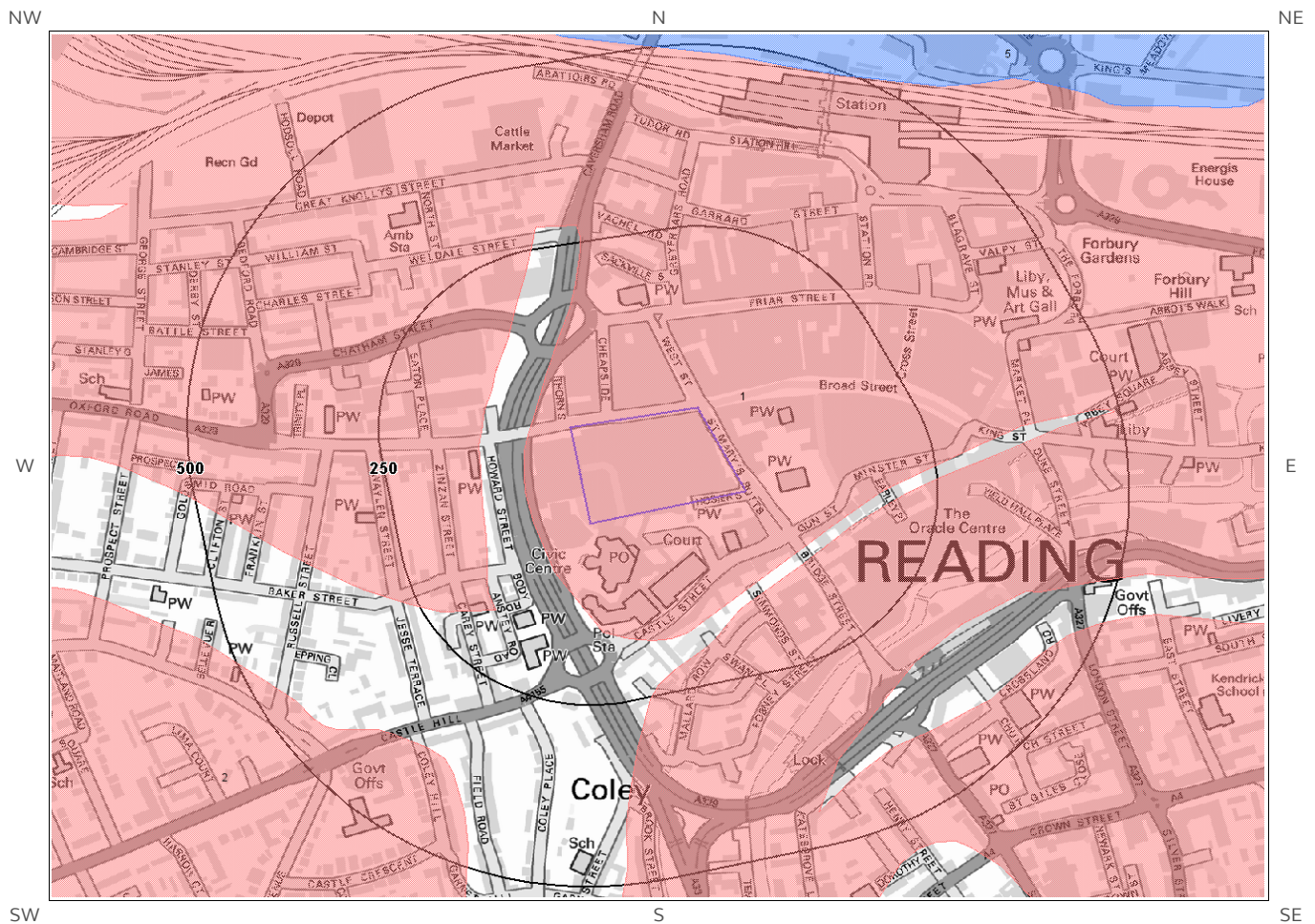
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED)	CHALK

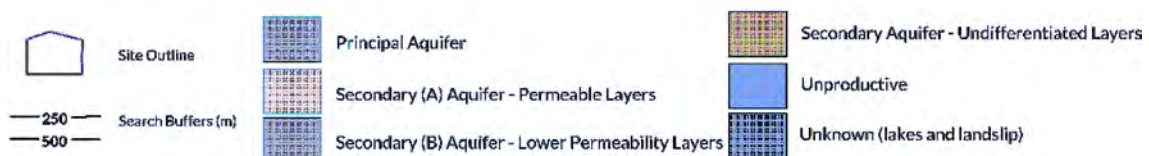
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

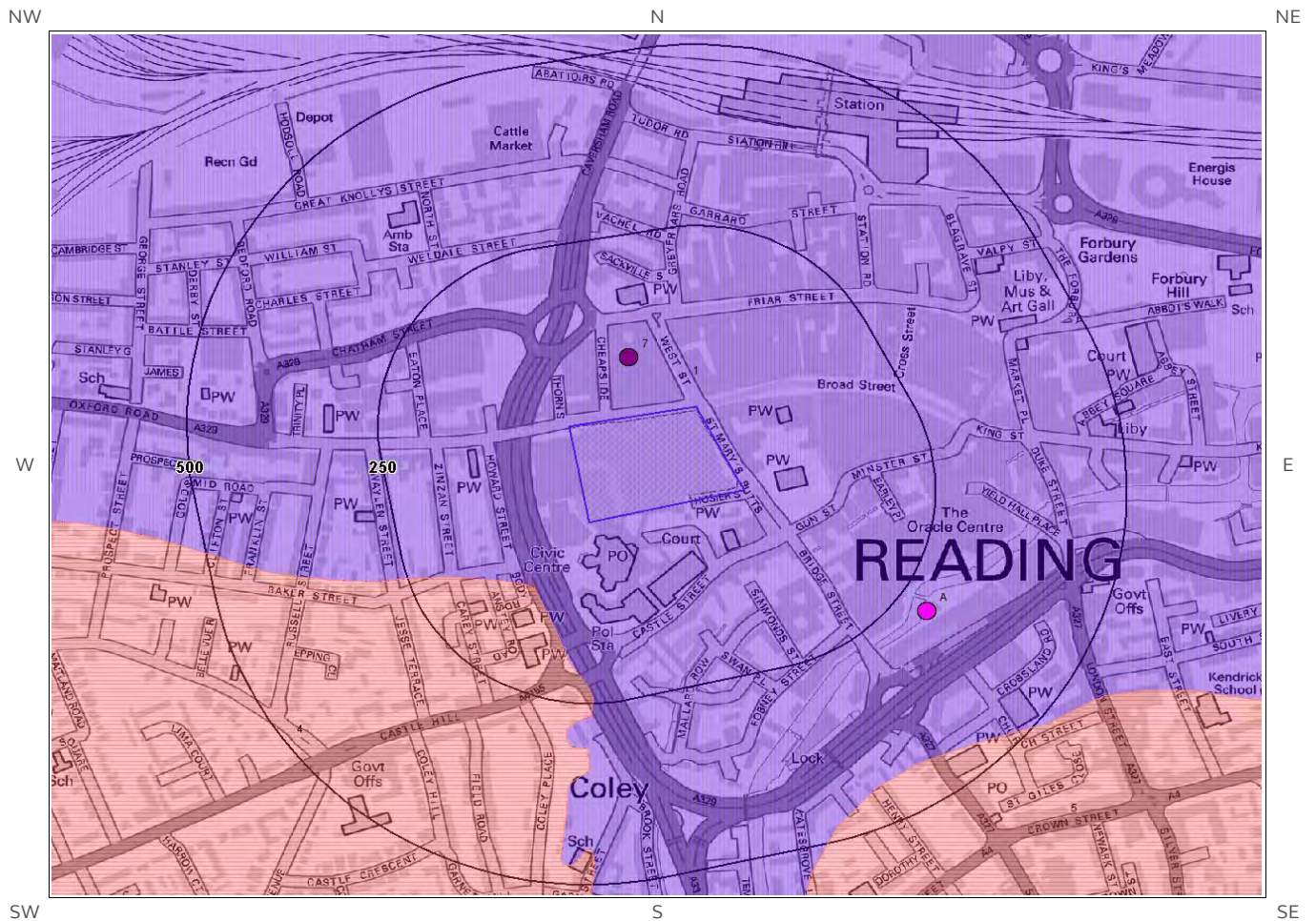
6a. Aquifer Within Superficial Geology



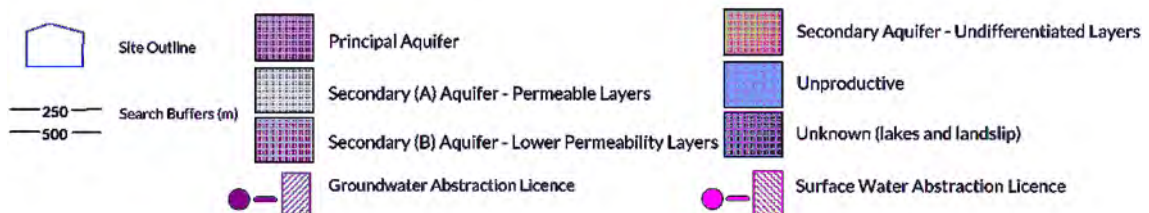
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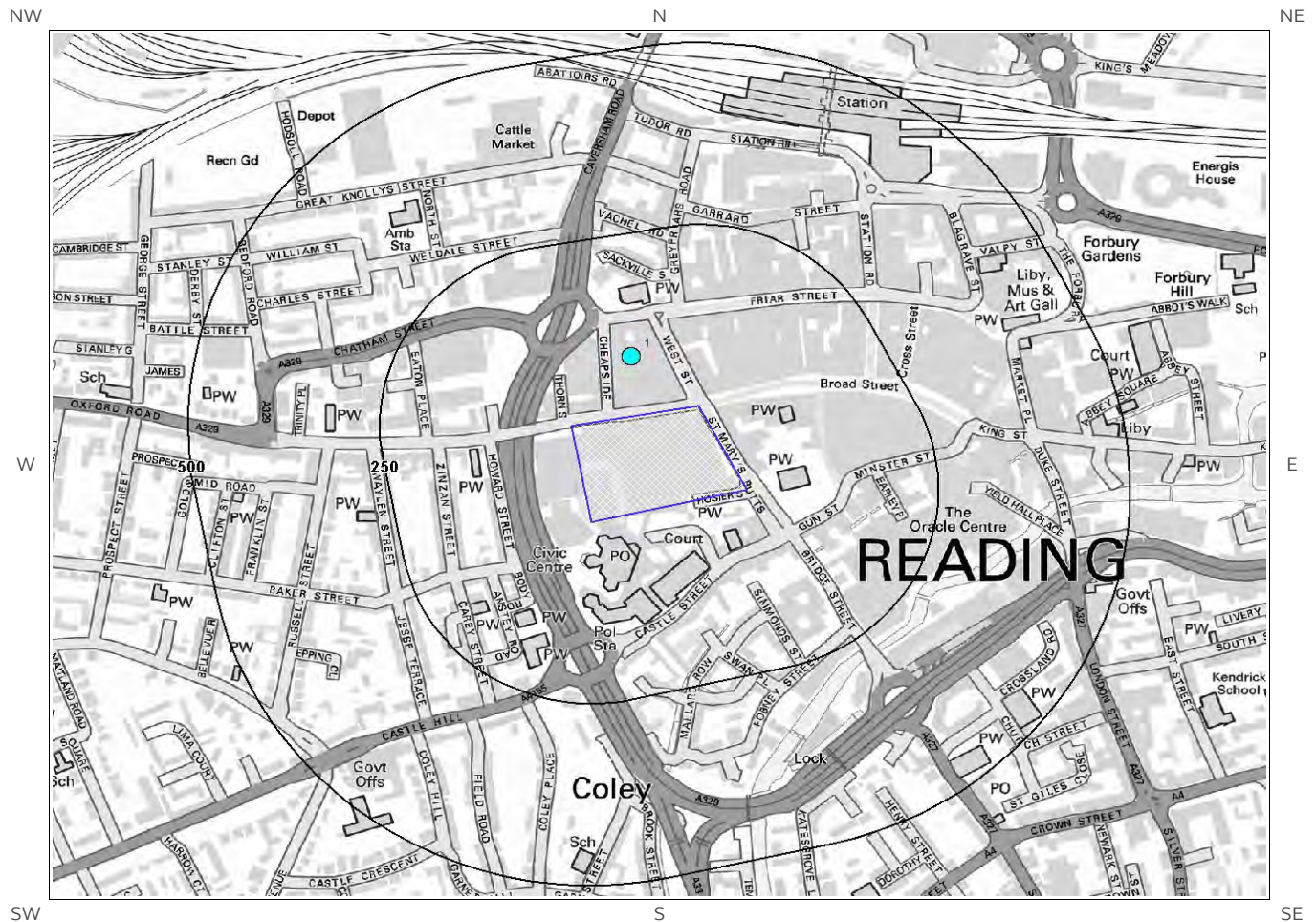
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



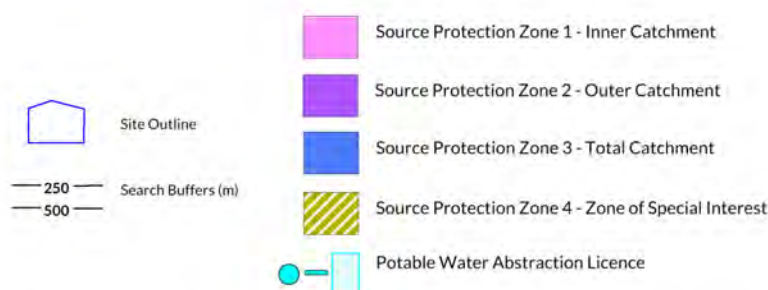
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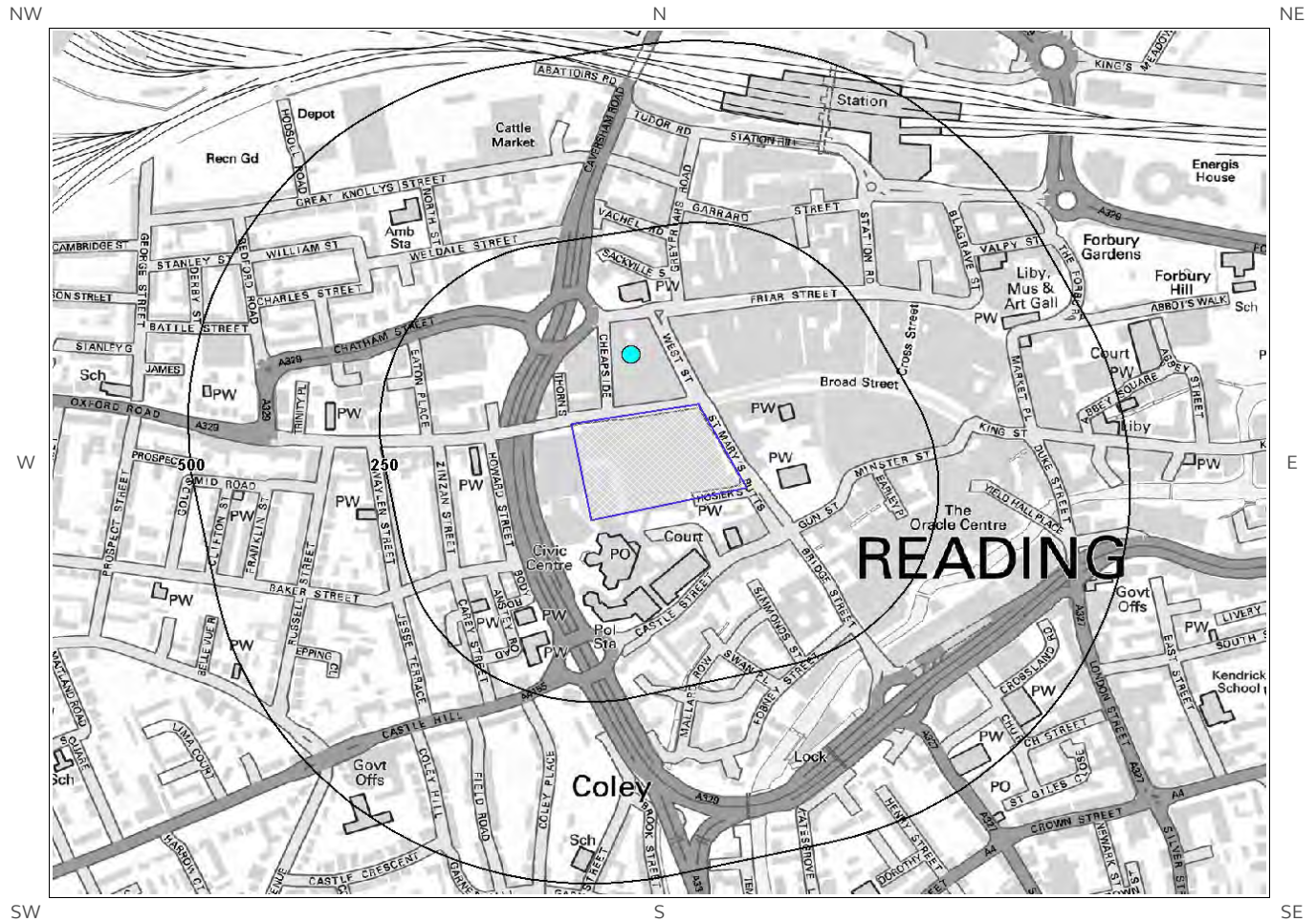
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



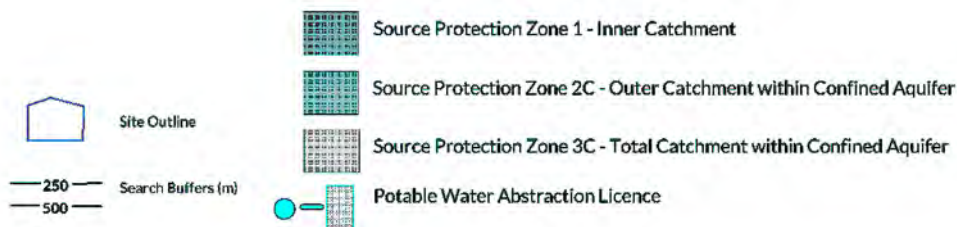
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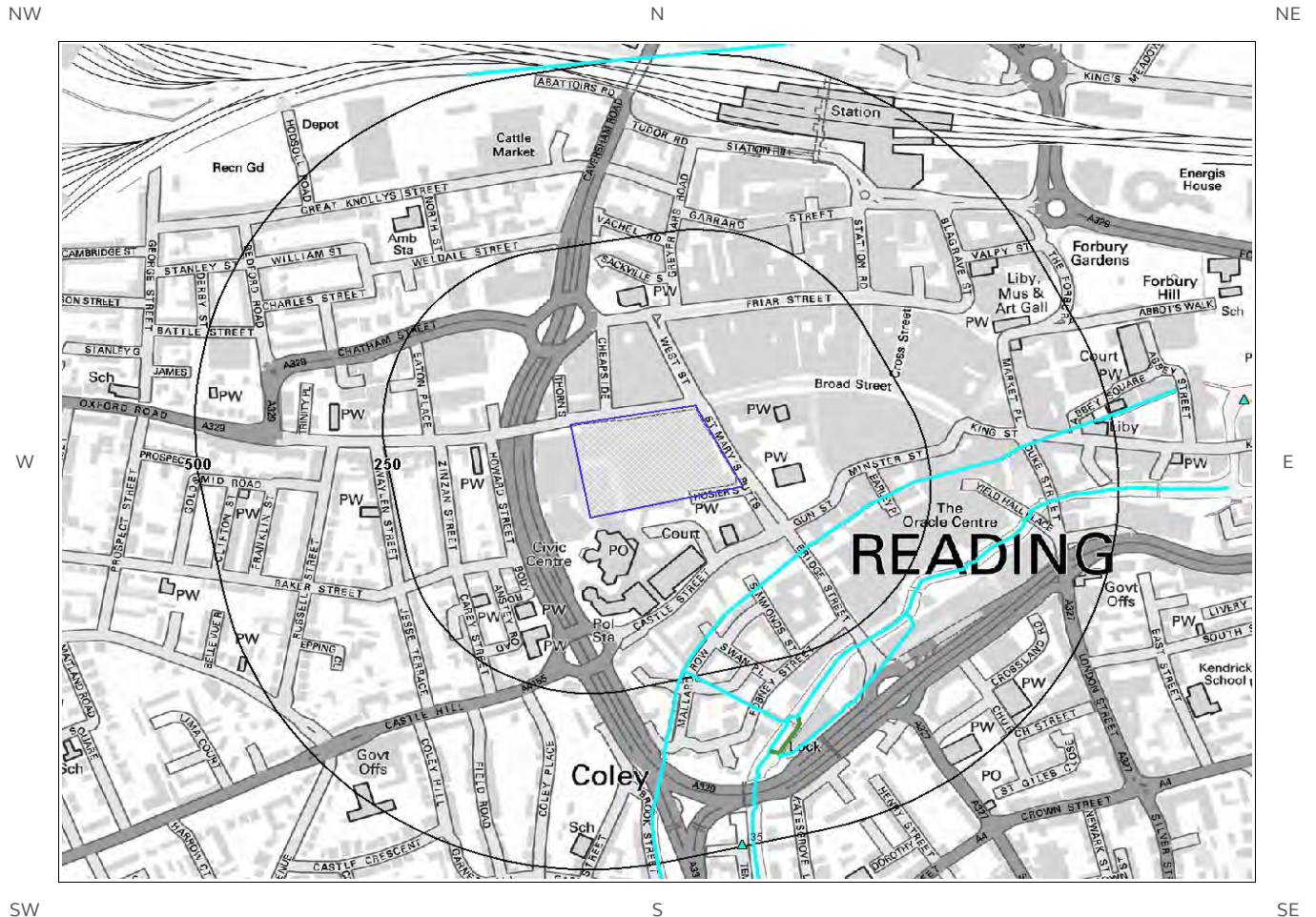
6d. Hydrogeology – Source Protection Zones within confined aquifer



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6e. Hydrology – Watercourse Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

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

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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
2	375	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
5	484	N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

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

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

ID	Distance (m)	Direction	Designation	Description
1	0	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
4	116	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
5	440	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

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
7	81	N	471200 173500	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 Annual Volume (m³): 14933 Max Daily Volume (m³): 40.91 Original Application No: - Original Start Date: 11/7/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/4/2008 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/6/2006 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/6/2006 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/7/1966 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/7/1966 Version End Date:
Not shown	792	NW	470600 174000	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 Annual Volume (m³): 6682 Max Daily Volume (m³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/1/1975 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1002	NW	470400 174100	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	Annual Volume (m³): 6682 Max Daily Volume (m³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/1/1975 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:
Not shown	1144	NE	471900 174400	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: Berendsen UK Limited	Annual Volume (m³): 68190 Max Daily Volume (m³): 300.04 Original Application No: NPS/WR/021020 Original Start Date: 9/5/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/1/2016 Version End Date:
Not shown	1169	SE	472400 172800	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	Annual Volume (m³): 127750 Max Daily Volume (m³): 350 Original Application No: WRA/5950 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/1/1992 Version End Date:
Not shown	1359	NW	470100 174300	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	Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1377	E	472700 173600	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	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WRW/A/1061 Original Start Date: 31/7/2000 Expiry Date: 31/08/2001 Issue No: 1 Version Start Date: 31/7/2000 Version End Date:
Not shown	1412	W	469800 173900	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	Annual Volume (m³): 136875 Max Daily Volume (m³): 400 Original Application No: WRA/5942 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: 7/1/1999 Version End Date:
Not shown	1573	NW	470100 174600	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	Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1736	NW	469700 174400	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1736	NW	469700 174400	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: Thames Groundwater Point: Little John's Farm, Reading (b) Data Type: Point Name: DRAYTON Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1807	NW	469500 174200	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
23A	291	SE	471590 173150	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 Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 16/2/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/2/2000 Version End Date:
24A	291	SE	471590 173150	Status: Active 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 Annual Volume (m³): 737856 Max Daily Volume (m³): 2016 Application No: - Original Start Date: 16/2/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/2/2000 Version End Date:
Not shown	1029	N	471440 174450	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 Annual Volume (m³): - Max Daily Volume (m³): - Application No: WRW/A/1115 Original Start Date: 12/5/2003 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 12/5/2003 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1029	N	471440 174450	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 Annual Volume (m³): 1752000 Max Daily Volume (m³): 4800 Application No: WRW/A/1218 Original Start Date: 10/9/2008 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 10/9/2008 Version End Date:
Not shown	1029	N	471440 174450	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 Annual Volume (m³): 31536 Max Daily Volume (m³): 86.4 Application No: WRW/A/1115 Original Start Date: 12/5/2003 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 1/4/2006 Version End Date:
Not shown	1086	NE	472072 174185	Status: Active 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: The Reading Sustainability Centre CIC Annual Volume (m³): 0 Max Daily Volume (m³): 0 Application No: NPS/WR/020629 Original Start Date: 19/2/2016 Expiry Date: 31/3/2028 Issue No: 1 Version Start Date: 19/2/2016 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details
1	81	N	471200 173500	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 Annual Volume (m³): 14933 Max Daily Volume (m³): 40.91 Original Application No: - Original Start Date: 11/7/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1169	SE	472400 172800	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 Annual Volume (m³): 127750 Max Daily Volume (m³): 350 Original Application No: WRA/5950 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1412	W	469800 173900	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 Annual Volume (m³): 136875 Max Daily Volume (m³): 400 Original Application No: WRA/5942 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

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

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.
153	S	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
391	SE	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
35	499	S	471351 172807	River Name: Kennet Reach: Foudry Brook - Holy Brook End/Start of Stretch: Sample Point NGR	B	A	A	A	A
36A	679	E	472020 173440	River Name: Kennet Reach: Holy Brook - Thames End/Start of Stretch: Start of Stretch NGR	B	A	A	A	A
37A	679	E	472020 173440	River Name: Kennet Reach: Foudry Brook - Holy Brook End/Start of Stretch: End of Stretch NGR	B	A	A	A	A
Not shown	1049	NE	472135 174053	River Name: Thames Reach: Whitchurch Stw - Kennet End/Start of Stretch: Sample Point NGR	A	A	A	A	A

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/Direction	Name	Type of Watercourse	Additional Details
1	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
2	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.0
47	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
48	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.0
3	124 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
49	124 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
4	131 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.7
50	131 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.7
5	132 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
51	132 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	143 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.3
52	143 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.3
7	160 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
53	160 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
8	163 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.3
54	163 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.3
9	173 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
55	173 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
10	175 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.4
56	175 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.4
11	191 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
57	191 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
12	197 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
58	197 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
13	240 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.1
14	240 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.8
59	240 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.1
60	240 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.8
15	241 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
61	241 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
16	257 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
62	257 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
17	264 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
63	264 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9
18	272 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 16.0
64	272 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 16.0
19	273 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.9
65	273 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.9
20	282 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
66	282 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
21	334 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.2
Not shown	334 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.2
22	336 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 18.6
Not shown	336 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 18.6
23	337 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.0
Not shown	337 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.0
24	339 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9
Not shown	339 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
25	343 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
Not shown	343 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
26	353 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	353 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
27	367 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	367 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
28	375 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 12.2
29	375 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 17.3
Not shown	375 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 12.2
Not shown	375 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 17.3
30	422 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 8.4
Not shown	422 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 8.4
31	453 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
Not shown	453 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
32	455 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
Not shown	455 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
33	476 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.8
Not shown	476 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.8
34	499 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	499 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

Surface water features within 250m of the study site

Identified

The following surface water records are not represented on mapping:

Distance (m)	Direction
196	S
227	S
244	S
248	S

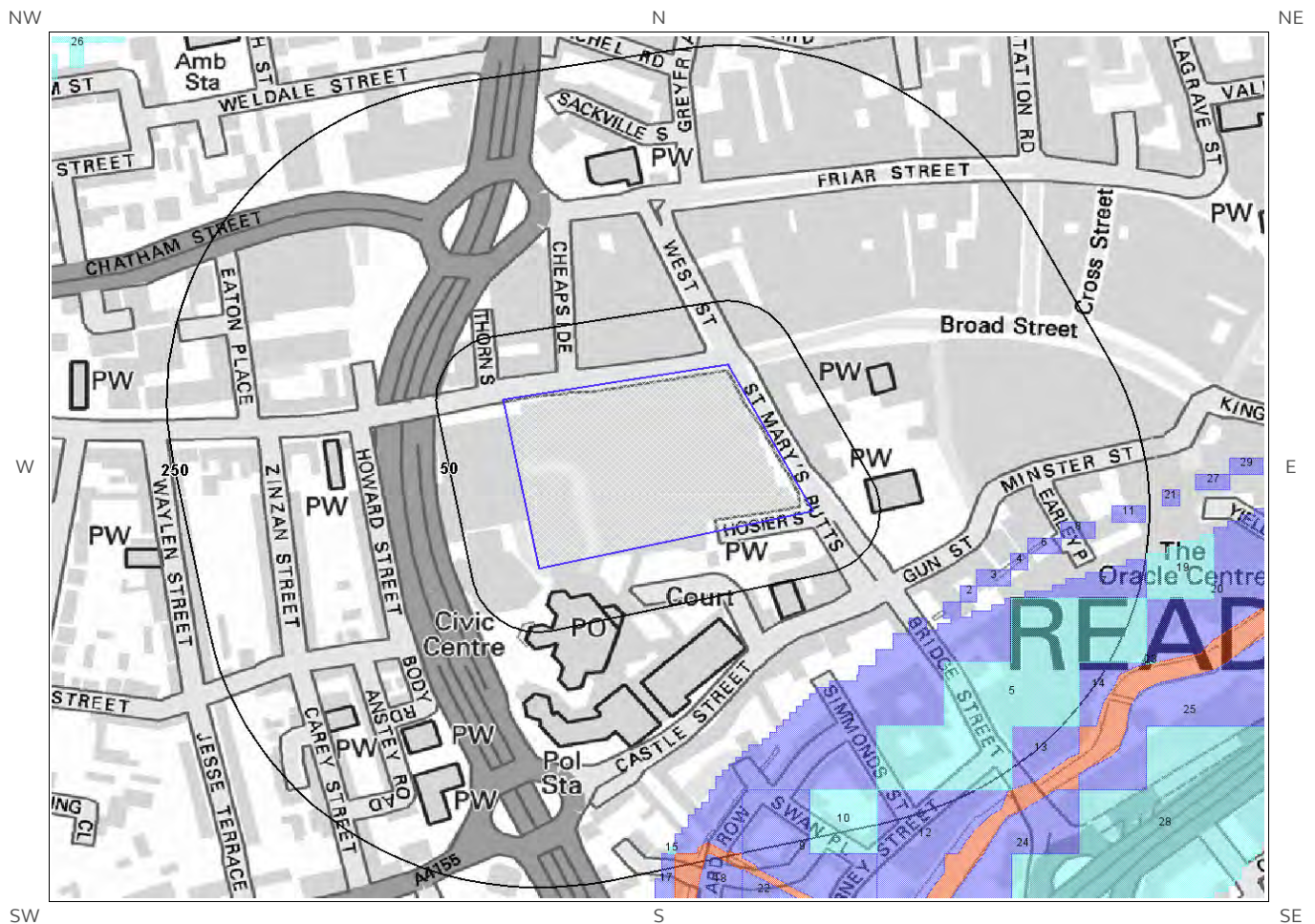
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



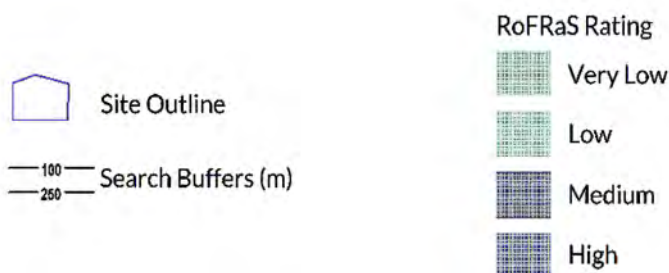
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	110	SE	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
2E	124	SE	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
3H	130	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
4I	150	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
5	161	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
6L	184	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
7N	222	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	110	SE	30-May-2018	Zone 3 - (Fluvial Models)
2E	113	SE	30-May-2018	Zone 3 - (Fluvial Models)
3H	118	SE	30-May-2018	Zone 3 - (Fluvial Models)
4I	120	SE	30-May-2018	Zone 3 - (Fluvial Models)
5	124	SE	30-May-2018	Zone 3 - (Fluvial Models)

6L	126	S	30-May-2018	Zone 3 - (Fluvial Models)
7N	130	E	30-May-2018	Zone 3 - (Fluvial Models)
	135	S	30-May-2018	Zone 3 - (Fluvial Models)
	145	S	30-May-2018	Zone 3 - (Fluvial Models)
	150	E	30-May-2018	Zone 3 - (Fluvial Models)
	154	S	30-May-2018	Zone 3 - (Fluvial Models)
	161	E	30-May-2018	Zone 3 - (Fluvial Models)
	164	S	30-May-2018	Zone 3 - (Fluvial Models)
	173	S	30-May-2018	Zone 3 - (Fluvial Models)
	180	S	30-May-2018	Zone 3 - (Fluvial Models)
	184	E	30-May-2018	Zone 3 - (Fluvial Models)
	202	S	30-May-2018	Zone 3 - (Fluvial Models)
	211	S	30-May-2018	Zone 3 - (Fluvial Models)
	222	E	30-May-2018	Zone 3 - (Fluvial Models)
	233	S	30-May-2018	Zone 3 - (Fluvial Models)
	241	SE	30-May-2018	Zone 3 - (Fluvial Models)

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

Highest risk of flooding onsite

Very Low

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

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

7.4 Flood Defences

Flood Defences within 250m of the study site

None identified

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site

None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified

7.7 Groundwater Flooding Susceptibility Areas

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

Identified

Clearwater Flooding or Superficial Deposits Flooding

Clearwater Flooding

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

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

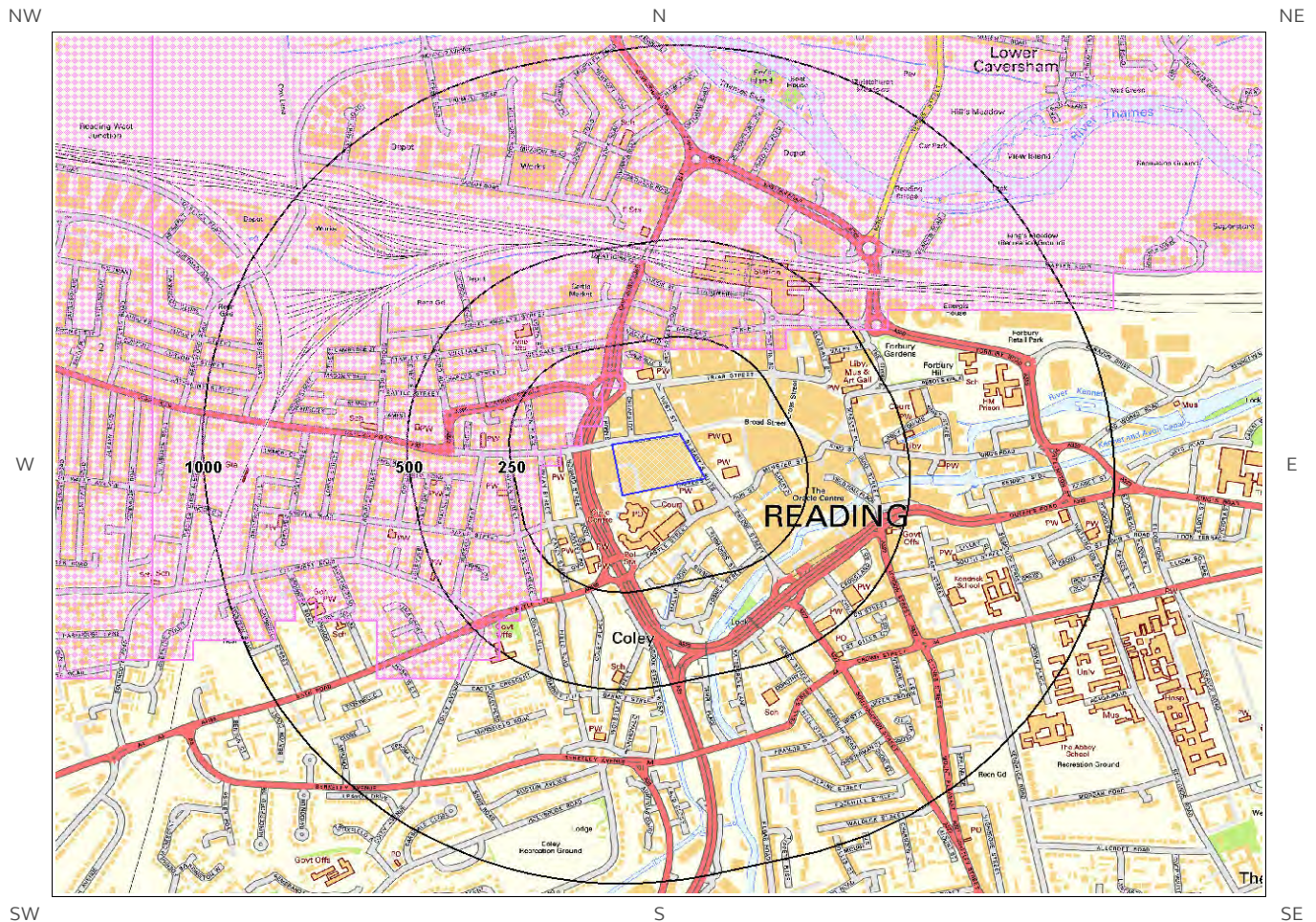
British Geological Survey confidence rating in this result

High

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

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified
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8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

3

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	50	NW	Existing	DEFRA
2	1123	W	Existing	DEFRA
Not shown	1858	E	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our [website](#). The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Negligible

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

Hazard
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Very Low

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

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

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site High

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

Hazard
Very significant soluble rocks are present, with a high possibility of localised subsidence occurring naturally or in adverse conditions such as high surface or subsurface water flow. Obtain specialist advice to advise on need for stabilisation work and/or land management plan to maintain stability. Do not dispose of drainage into the ground. For new build a specialist land stability assessment is necessary. Investigation, remediation and/or mitigation works may be necessary to stabilise the area. Construction work may cause subsidence. Surface drainage must not affect the karst system or groundwater. Increased construction costs are likely. For existing property increase in insurance risk due to potential soluble rocks hazards. Potential of groundwater pollution.

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

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site Negligible

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

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

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site Very Low

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

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

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site Very Low

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

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

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

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

None identified

Database searched and no data found.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

Identified

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
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info@groundsure.com

British Geological Survey Enquiries
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
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Email:
Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: www.environment-agency.gov.uk
Email: enquiries@environment-agency.gov.uk

Public Health England
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000

The Coal Authority
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority
Authority: Reading Borough Council
Phone: 0118 937 3787
Web: <http://beta.reading.gov.uk/>
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<https://www.groundsure.com/terms-and-conditions-may25-2018>

BJB Consulting Limited

Head Office, Unit 7, Calder Close, Calder Park,
WAKEFIELD, WF4 3BA

Groundsure
Reference:

GS-5187836

Your Reference: 2206

Report Date 2 Jul 2018

Report Delivery Method: Email - pdf

Geo Insight

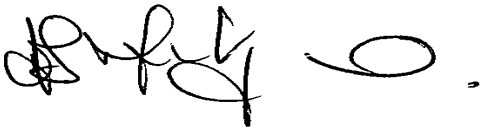
Address: 54 BROAD STREET MALL, BROAD STREET, READING, RG1 7QE

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Geo Insight

Address: 54 BROAD STREET MALL, BROAD STREET, READING, RG1 7QE

Date: 2 Jul 2018

Reference: GS-5187836

Client: BJB Consulting Limited



Aerial Photograph Capture date: 20-Apr-2015
Grid Reference: 471248,173368
Site Size: 2.44ha

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Overview of Findings

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

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

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

Section 1: Geology 1:10,000 Scale

1.1 Artificial Ground	1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?*	Yes
	1.2.2 Are there any records of landslide within 500m of the study site boundary at 1:10,000 scale?	No
1.3 Bedrock, Solid Geology and linear features	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale?	No

Section 2: Geology 1:50,000 Scale

2.1 Artificial Ground	2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary?	No
2.2 Superficial Geology and Landslips	2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?*	Yes
	2.2.2 Are there any records of permeability of superficial ground within 500m of the study site?	Yes
	2.2.3 Are there any records of landslide within 500m of the study site boundary?	No
	2.2.4 Are there any records relating to permeability of landslips within the study site* boundary?	No

Section 2: Geology 1:50,000 Scale

2.3 Bedrock, Solid Geology and linear features

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

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

Yes

2.3.3 Are there any records of linear features within 500m of the study site boundary?

No

Section 3: Radon

3. Radon

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

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

3.2 Radon Protection

No radon protective measures are necessary.

Section 4: Ground Workings

	On-site	0-50m	51-250	251-500	501-1000
4.1 Historical Surface Ground Working Features from Small Scale Mapping	0	0	0	Not Searched	Not Searched
4.2 Historical Underground Workings from Small Scale Mapping	0	0	0	0	0
4.3 Current Ground Workings	0	0	0	20	24

Section 5: Mining, Extraction & Natural Cavities

	On-site	0-50m	51-250	251-500	501-1000
5.1 Historical Mining	0	0	0	0	0
5.2 Coal Mining	0	0	0	0	0
5.3 Johnson Poole and Bloomer Mining Area	1	0	1	2	5
5.4 Non-Coal Mining*	1	0	5	29	13
5.5 Non-Coal Mining Cavities	0	0	0	11	22
5.5 Natural Cavities	0	1	5	18	18

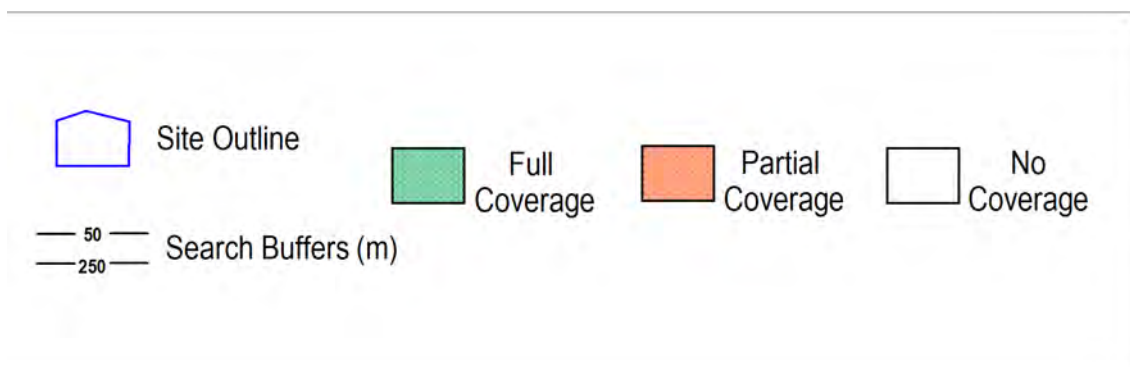
Section 5: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
5.6 Brine Extraction	0	0	0	0	0
5.7 Gypsum Extraction	0	0	0	0	0
5.8 Tin Mining	0	0	0	0	0
5.9 Clay Mining	0	0	0	0	0
Section 6: Natural Ground Subsidence	On-site				
6.1 Shrink-Swell Clay	Negligible				
6.2 Landslides	Very Low				
6.3 Ground Dissolution of Soluble Rocks	High				
6.4 Compressible Deposits	Negligible				
6.5 Collapsible Deposits	Very Low				
6.5 Running Sand	Very Low				
Section 7: Borehole Records	On-site	0-50m	51-250		
7 BGS Recorded Boreholes	14	16	96		
Section 8: Estimated Background Soil Chemistry	On-site	0-50m	51-250		
8 Records of Background Soil Chemistry	1	0	0		
Section 9: Railways and Tunnels	On-site	0-50m	51-250	250-500	
9.1 Tunnels	0	0	0	Not Searched	
9.2 Historical Railway and Tunnel Features	0	0	0	Not Searched	
9.3 Historical Railways	0	0	0	Not Searched	
9.4 Active Railways	0	0	0	Not Searched	
9.5 Railway Projects	0	0	0	1	

1:10,000 Scale Availability



1_10,000 Availability Legend

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Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

ID	Distance	Artificial Coverage	Superficial Coverage	Bedrock Coverage	Mass Movement Coverage
1	0.0	Some deposits are mapped	Full	Full	No coverage
2	1123.0	Some deposits are mapped	Full	Full	No coverage
N3	1567.0	Some deposits are mapped	Full	Full	No coverage
N4	1950.0	Some deposits are mapped	Full	Full	No coverage

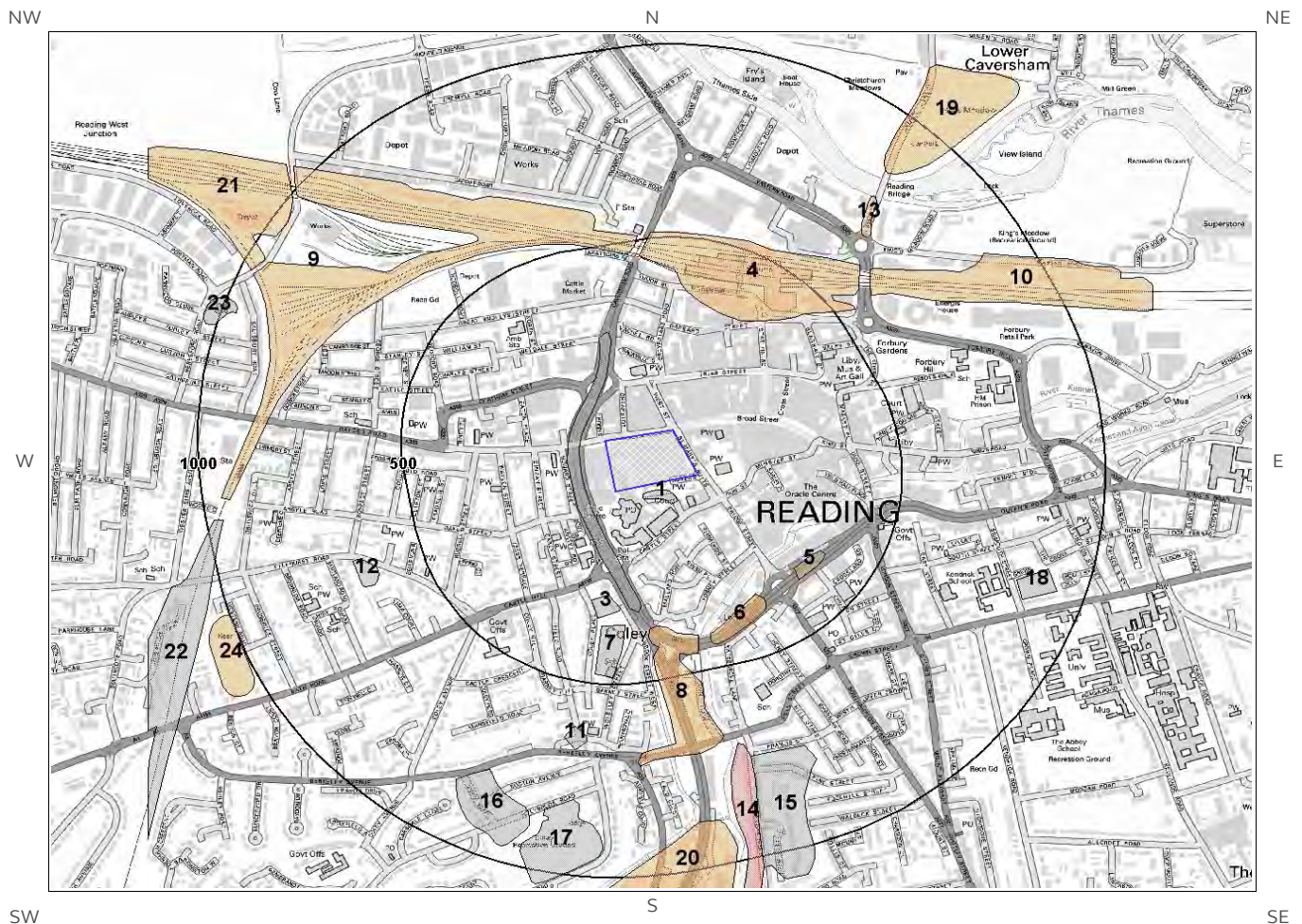
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

Geology	Full Coverage	Partial Coverage	No Coverage
Bedrock	The whole tile has been mapped	Some but not all the tile has been mapped	No coverage
Superficial	The whole tile has been mapped	Some but not all of the tile has been mapped	No coverage
Artificial	Some deposits are mapped on this tile	-	No deposits are mapped
Mass Movement	Some deposits are mapped on this tile	-	No coverage

1 Geology (1:10,000 scale).

1.1 Artificial Ground map (1:10,000 scale)



Artificial Ground Legend

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1. Geology 1:10,000 scale

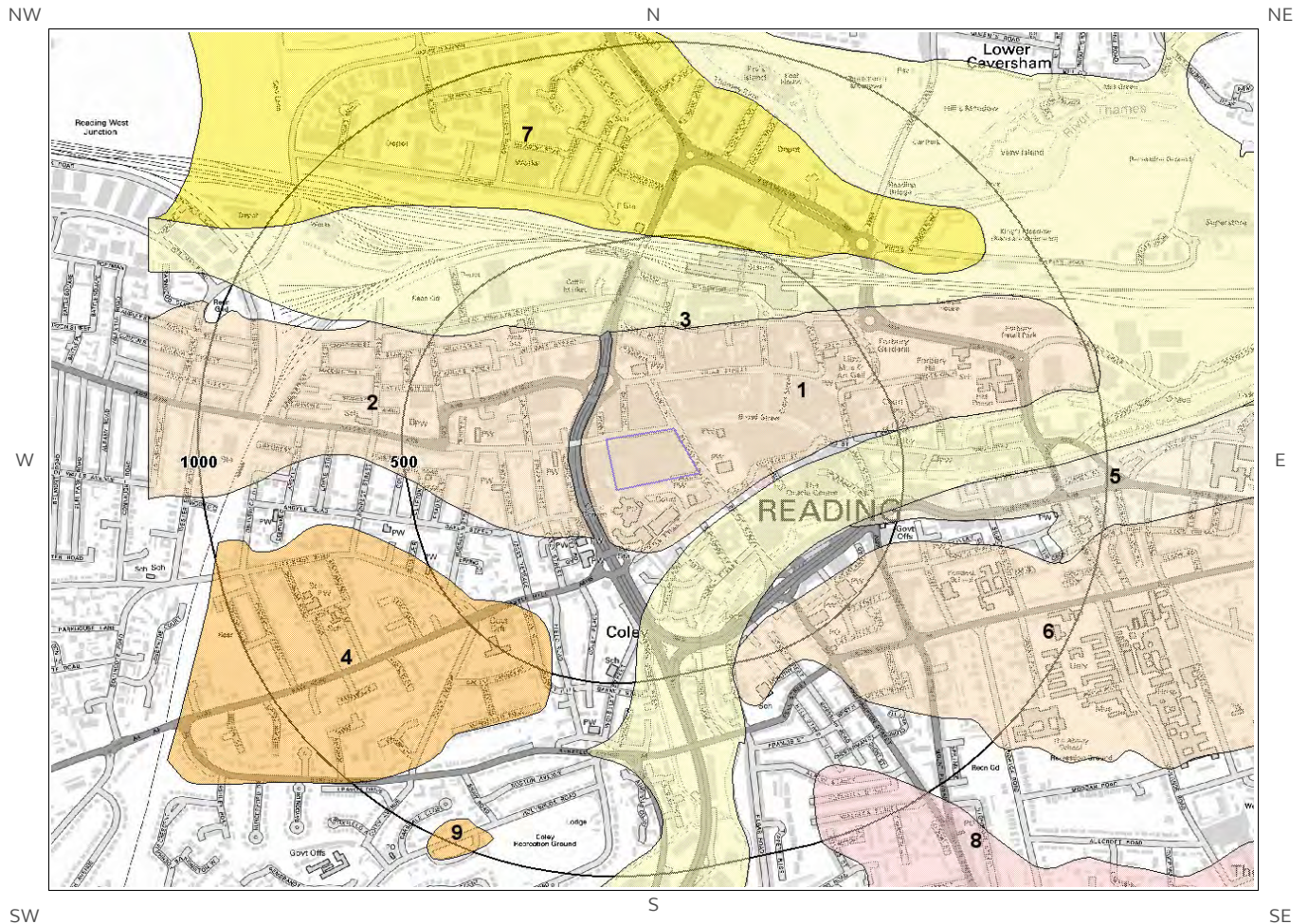
1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

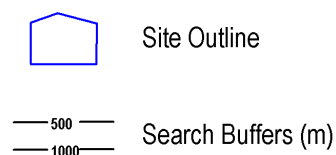
ID	Distance	Direction	LEX Code	Description	Rock Description
1	17.0	S	WGR-VOID	Worked Ground (Undivided)	Void
2	59.0	W	WGR-VOID	Worked Ground (Undivided)	Void
3	269.0	S	WGR-VOID	Worked Ground (Undivided)	Void
4	323.0	N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	337.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	340.0	SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	347.0	S	WGR-VOID	Worked Ground (Undivided)	Void
8	360.0	S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	470.0	N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

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1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
2	88.0	W	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
3	124.0	SE	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
4	378.0	SW	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
5	389.0	E	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel
6	405.0	SE	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
7	486.0	N	LASI-XCZ	Langley Silt Member - Clay And Silt	Clay And Silt

1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

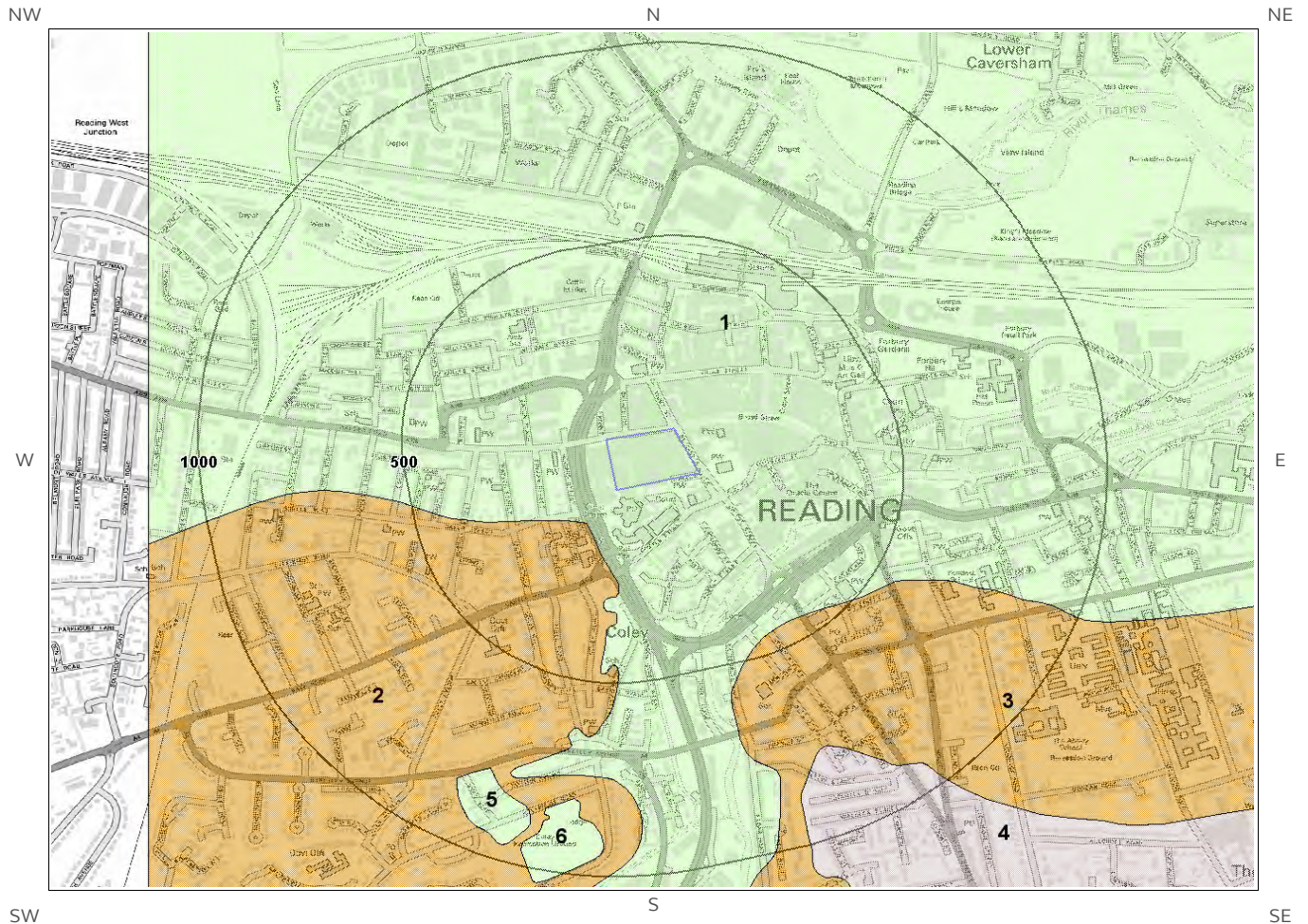
No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

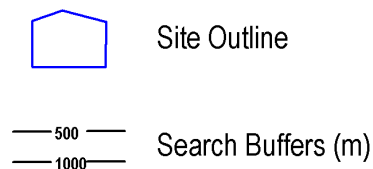
This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.3 Bedrock and linear features map (1:10,000 scale)



Bedrock and linear features Legend

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1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	LSNCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age
2	114.0	SW	LMBE-CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch
3	440.0	SE	LMBE-CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? No

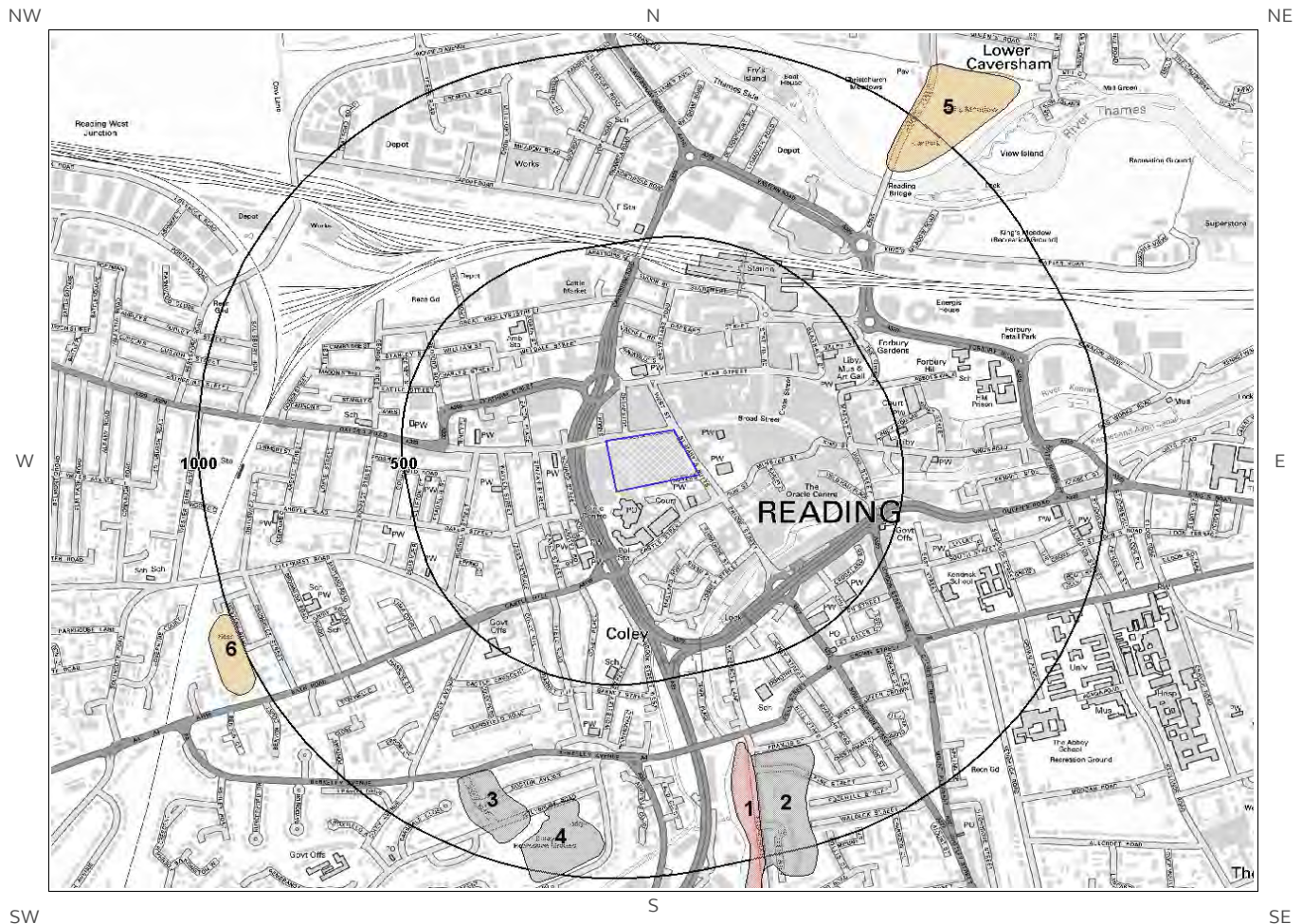
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

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

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



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2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 268

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? No

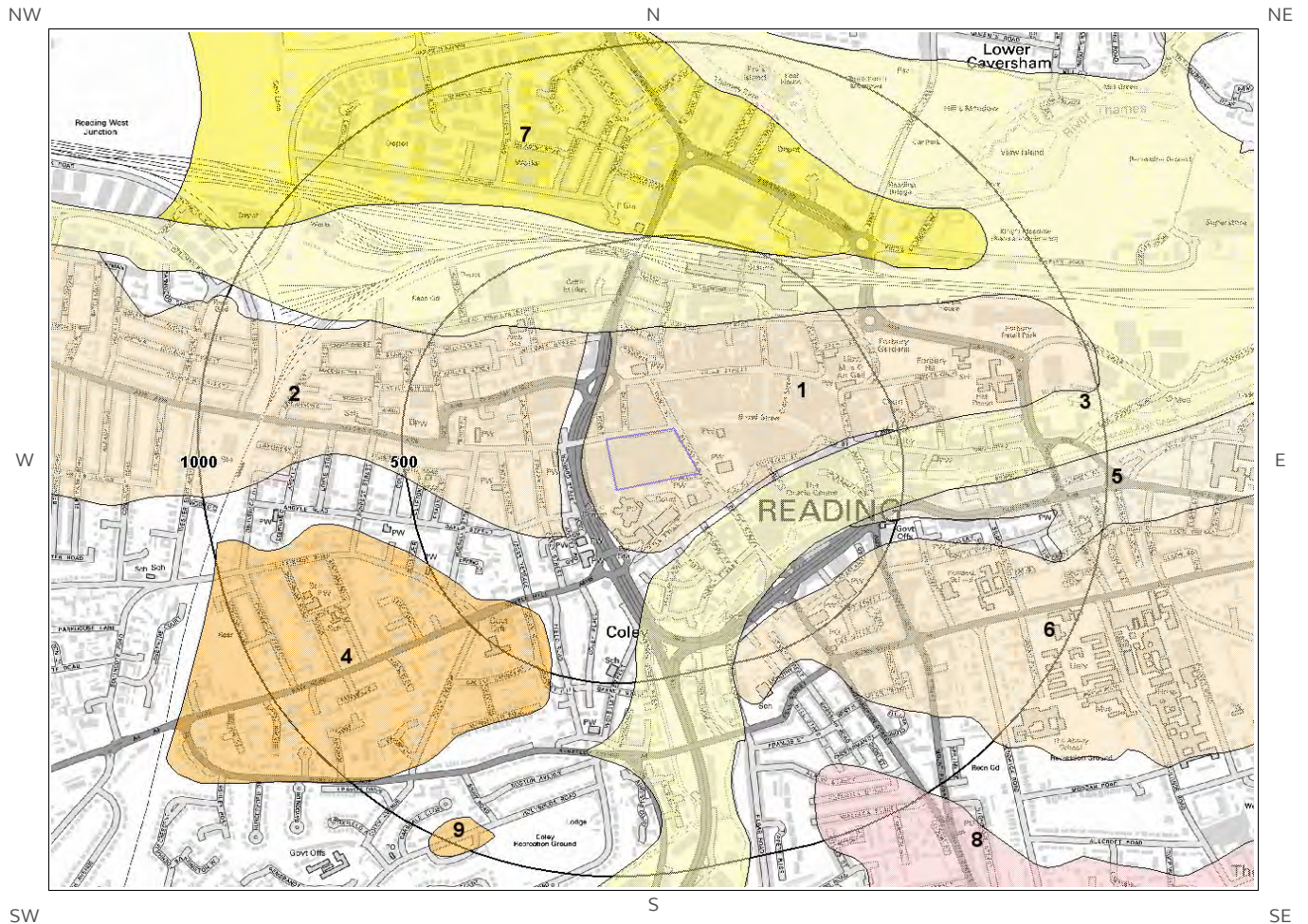
Database searched and no data found.

2.1.2 Permeability of Artificial Ground

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

Database searched and no data found.

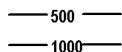
2.2 Superficial Deposits and Landslips map (1:50,000 scale)



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Site Outline



Search Buffers (m)

2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

ID	Distance	Direction	LEX Code	Description	Rock Description
1	0.0	On Site	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
2	114.0	W	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
3	125.0	SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	375.0	SW	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
5	390.0	E	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
6	402.0	SE	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
7	484.0	N	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT

2.2.2 Permeability of Superficial Ground

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

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Intergranular	Very High	High

2.2.3 Landslip

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

Database searched and no data found.

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

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

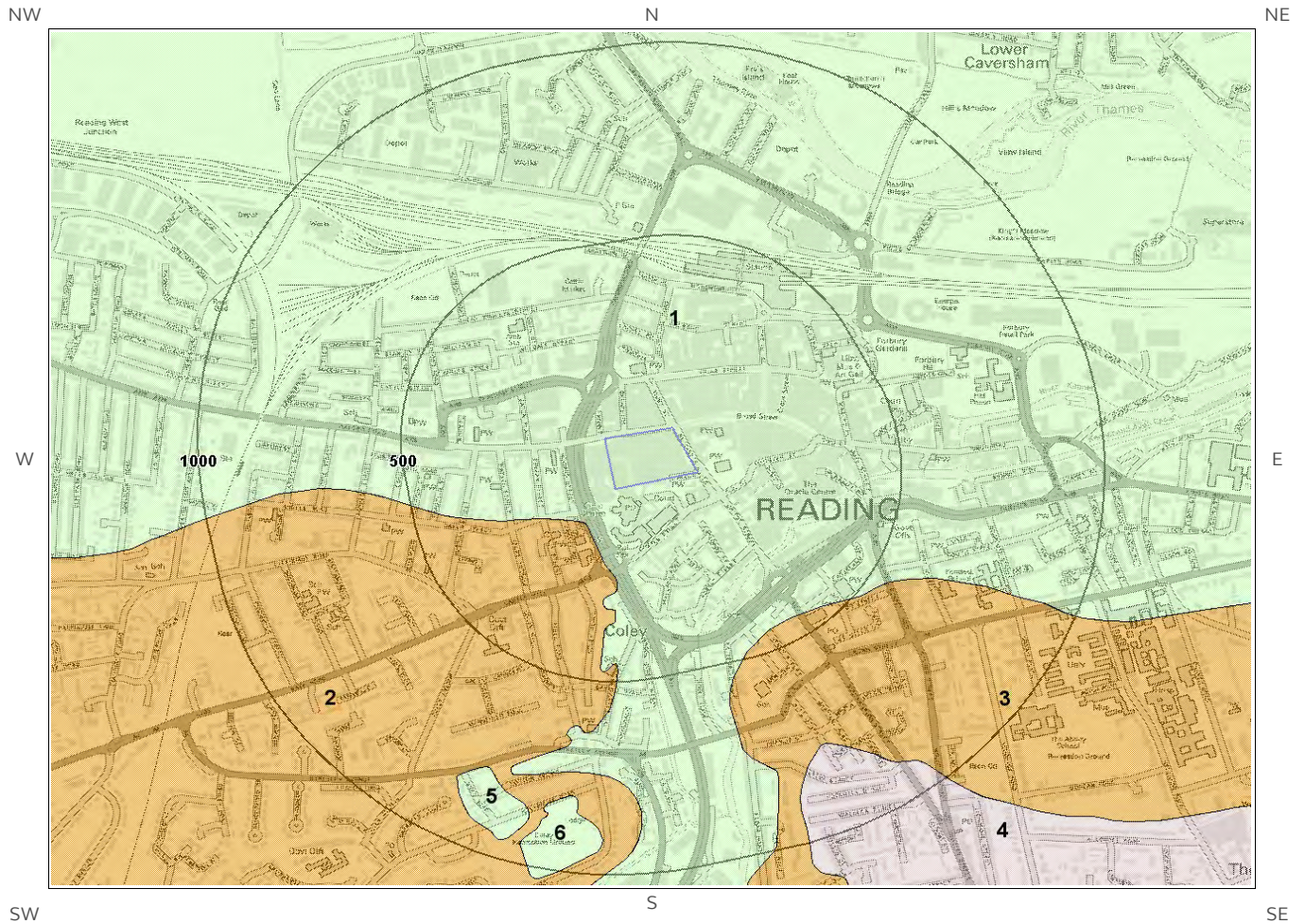
2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary?

No

Database searched and no data found.

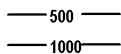
2.3 Bedrock and linear features map (1:50,000 scale)



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Site Outline



Search Buffers (m)

2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 268

2.3.1 Bedrock/Solid Geology

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

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CONIACIAN
2	116.0	SW	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
3	440.0	SE	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN

2.3.2 Permeability of Bedrock Ground

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

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	Very High	Very High

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

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

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

3 Radon Data

3.1 Radon Affected Areas

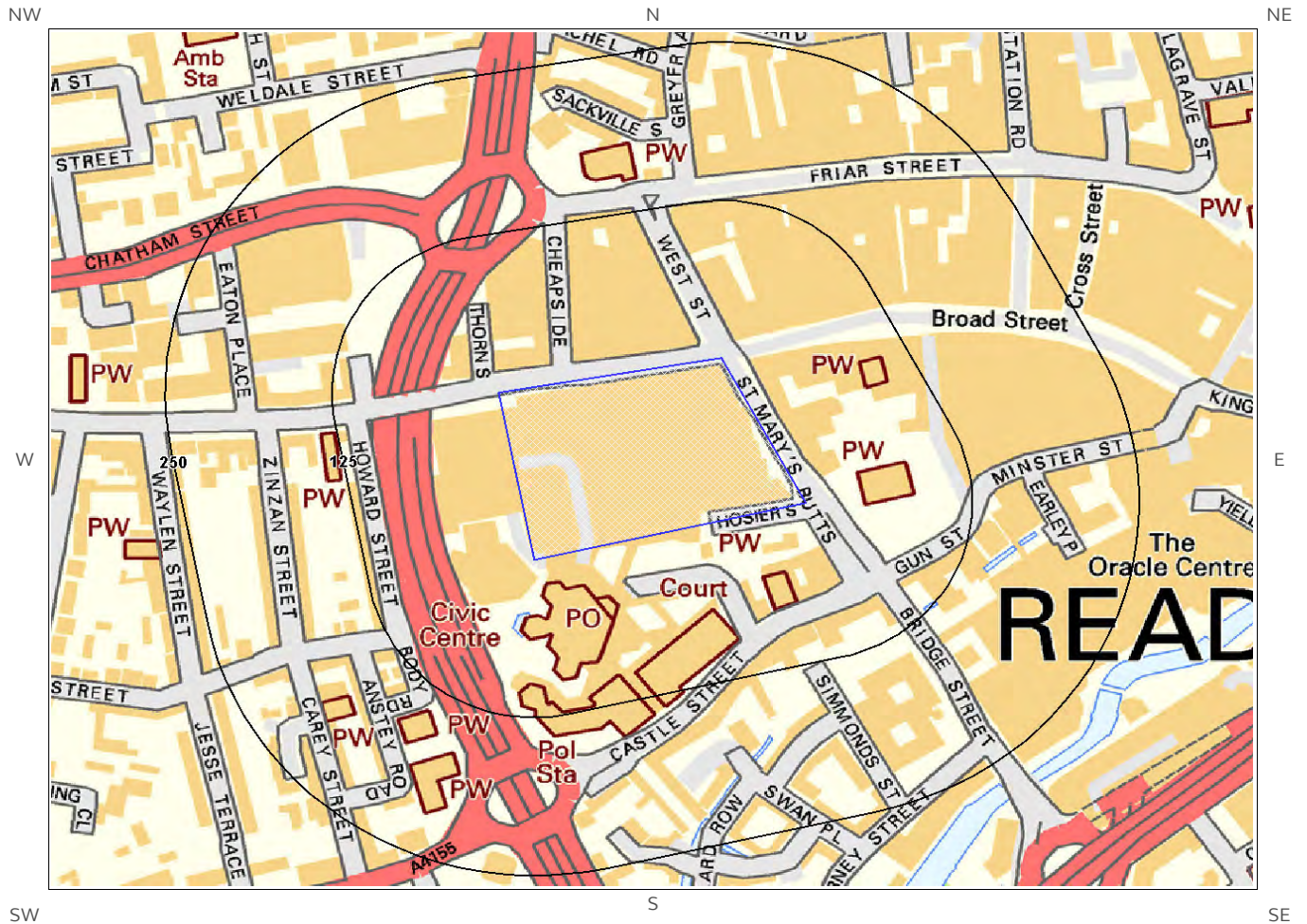
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

3.2 Radon Protection

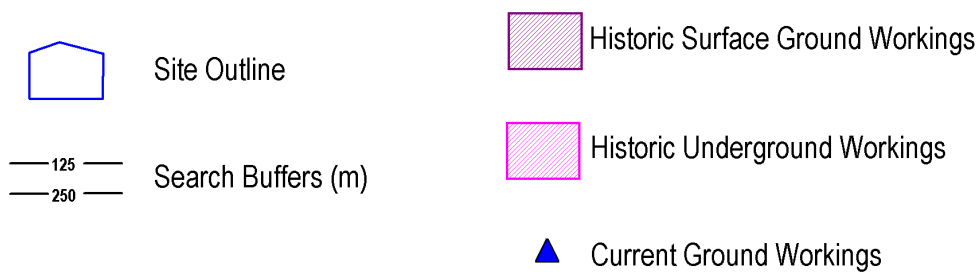
Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

4 Ground Workings map



Ground Workings Legend

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4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

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

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? No

Database searched and no data found.

4.2 Historical Underground Working Features derived from Historical Mapping

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

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

4.3 Current Ground Workings

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

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

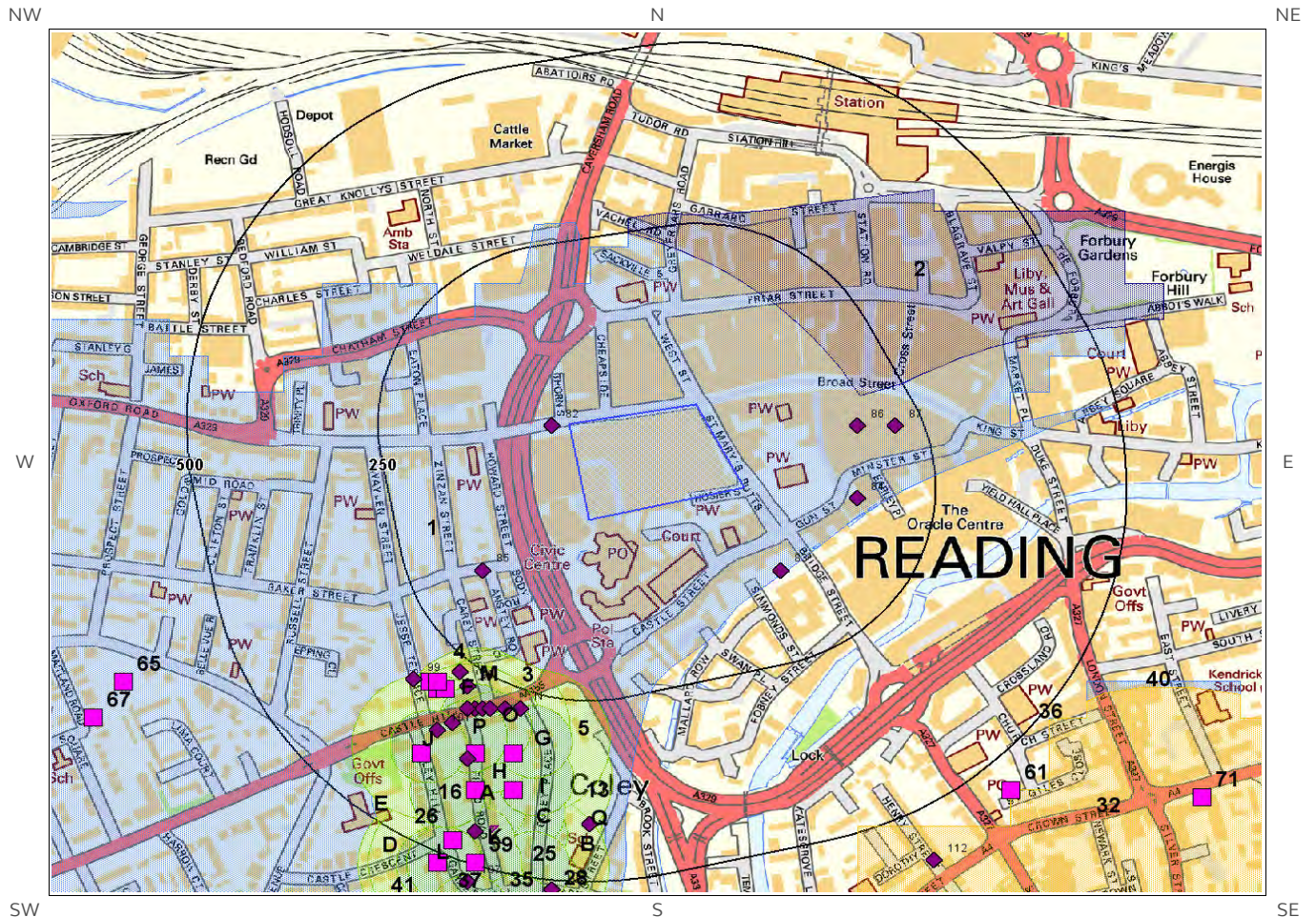
ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	314.0	SW	471023 172986	Chalk	Reading Chalk Mine	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	314.0	SW	471002 172996	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	316.0	S	471076 172966	Chalk	Reading Chalk Mine	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)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	338.0	SW	470991 172974	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	351.0	S	471021 172946	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	366.0	S	471079 172914	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	378.0	SW	470938 172960	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	411.0	SW	470981 172898	Chalk	Neuk & Bramley Chalk Mine	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)	Ceased
Not shown	413.0	S	471067 172868	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	418.0	S	471017 172877	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	418.0	SW	470964 172898	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	430.0	SW	470968 172883	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	442.0	S	471070 172838	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	470.0	S	471002 172827	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	470.0	S	471021 172821	Chalk	Reading Chalk Mine	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)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	471.0	S	471066 172810	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	478.0	S	470978 172827	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	484.0	S	471030 172804	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	487.0	S	471074 172792	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	495.0	S	471010 172798	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	503.0	S	471033 172784	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	512.0	S	470959 172798	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	518.0	SW	470946 172797	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	527.0	S	471018 172763	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	549.0	S	471053 172733	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	551.0	S	471031 172735	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	556.0	S	470985 172742	Chalk	Reading Chalk Mine	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)	Ceased

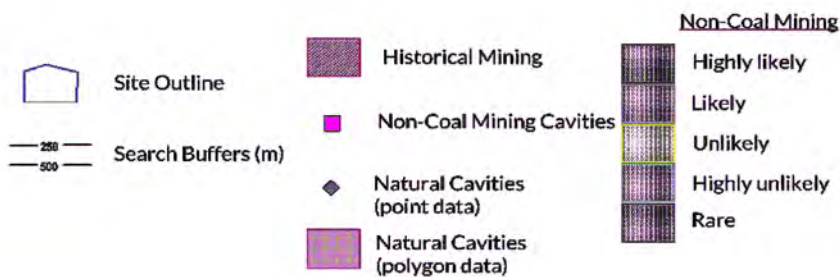
ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	561.0	S	471077 172717	Chalk	Reading Chalk Mine	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	563.0	S	470992 172733	Chalk	Reading Chalk Mine	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)	Ceased
Not shown	581.0	SW	470915 172741	Gravel	Coley Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	588.0	S	470957 172717	Gravel	Coley Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	602.0	S	471044 172680	Clay & Shale	Coley Pottery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	752.0	S	471540 172590	Clay & Shale	Katesgrove Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	826.0	S	471058 172452	Clay & Shale	Coley Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	838.0	SW	470815 172505	Clay & Shale	Avenue Works	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	847.0	S	471551 172495	Clay & Shale	Katesgrove Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	879.0	S	470881 172436	Clay & Shale	Avenue Works	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	915.0	S	471060 172362	Clay & Shale	Coley Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	922.0	S	471549 172417	Clay & Shale	Katesgrove Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	924.0	SE	471778 172498	Clay & Shale	Ivy Bridge Brick Field	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	928.0	S	471686 172452	Clay & Shale	Ivy Bridge Brick Field	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	958.0	S	471046 172321	Clay & Shale	Coley Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	959.0	S	470975 172330	Clay & Shale	Coley Kilns	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	973.0	SW	470502 172547	Gravel	Coley Park Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

5 Mining, Extraction & Natural Cavities map



Mining, Extraction and
Natural Cavities Legend

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5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

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

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

Database searched and no data found.

5.2 Coal Mining

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

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

Database searched and no data found.

5.3 Johnson Poole and Bloomer

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

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

The following information provided by JPB is not represented on mapping: Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

5.4 Non-Coal Mining

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

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
1	0.0	On Site	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
2	172.0	NE	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
3	213.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
4	214.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
5	215.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
6M	238.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
7O	263.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
8F	264.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
9G	265.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
10	277.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
11P	288.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
12J	327.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
13	328.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
14I	331.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
15H	354.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
16	376.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
17A	391.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
18A	393.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
19C	394.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
20B	395.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
21Q	407.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
22B	410.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
23C	416.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
24K	419.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
25	436.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
26	459.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
27L	461.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
28	469.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
29D	469.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
30E	475.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
31D	477.0	SW	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
32	491.0	S	Not available	Chalk	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
33D	496.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
34E	498.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
35	498.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
36	509.0	SE	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
37	512.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
Not shown	516.0	S	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
Not shown	519.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
40	522.0	SE	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
41	556.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
Not shown	564.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
Not shown	593.0	S	Not available	Chalk	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
Not shown	615.0	SW	Not available	Chalk	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
Not shown	698.0	S	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
Not shown	834.0	E	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
Not shown	898.0	NW	Not available	Chalk	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
Not shown	982.0	E	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

5.5 Non-Coal Mining Cavities

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

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? Yes

The following Non-Coal Mining Cavities information provided by Peter Brett Associates:

ID	Distance (m)	Direction	NGR	Address	Superficial Deposits	Bedrock Deposits	Extracted Mineral
49F	299.0	SW	470950 173050	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
50F	300.0	SW	470960 173040	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
51F	306.0	SW	470940 173050	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
52F	307.0	SW	470950 173040	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
53G	338.0	S	471050 172950	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
54H	356.0	SW	471000 172950	Reading (Coley), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
55I	386.0	S	471050 172900	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
56J	390.0	SW	470930 172950	Reading (Coley), Berkshire	Lynch Hill Gravels	Lambeth Group, Upper Chalk Formation	Chalk
57H	402.0	S	471000 172900	Reading (Coley), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
58K	478.0	S	470970 172830	Reading (Coley), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
59	496.0	S	471000 172800	Castle Hill Kiln, Reading (Coley), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
60L	513.0	SW	470950 172800	Reading (Coley), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
61	544.0	SE	471700 172900	Reading, Berkshire	Taplow Gravel	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	559.0	S	470980 172740	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	566.0	S	471030 172720	Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	575.0	S	471100 172700	Coley Potteries, Reading (Coley), Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
65	649.0	W	470540 173050	Reading, Berkshire	Lynch Hill Gravel	Lambeth Group, Chalk Group	Chalk
Not shown	684.0	S	471500 172650	Katesgrove Kilns (1), Reading, Berkshire	Worked Ground	Lambeth Group, Upper Chalk Formation	Chalk
67	704.0	SW	470500 173000	Reading (West), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	709.0	SE	471700 172700	Shearmans Brick Kiln, Reading, Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk

ID	Distance (m)	Direction	NGR	Address	Superficial Deposits	Bedrock Deposits	Extracted Mineral
Not shown	717.0	SE	471790 172750	Reading, Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	733.0	S	471500 172600	Katesgrove Kilns (2), Reading, Berkshire	Worked Ground	Lambeth Group, Upper Chalk Formation	Chalk
71	735.0	SE	471950 172890	Jubilee Square, Reading, Berkshire	Taplow Gravel	Chalk Group	Chalk
Not shown	753.0	SE	471700 172650	Shearmans Brick Kiln, Reading, Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	826.0	SE	471900 172700	The Old Orchard Kiln, Reading, Berkshire	-	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	838.0	W	470350 173020	Reading (West), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	847.0	W	470300 173200	Coopers Brick & Lime Manufactory, Reading (West), Berkshire	Lynch Hill Gravel	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	875.0	E	472200 173100	Reading, Berkshire	Taplow Gravel	Chalk Group	Chalk
Not shown	886.0	S	471000 172400	Wheeler Works, Reading (Coley), Berkshire	Worked Ground	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	889.0	SE	471700 172500	Ivy Lodge Brickfield/ Southampton Kiln, Reading, Berkshire	Boyn Hill Gravel	London Clay, Lambeth Group, Upper Chalk Formation	Chalk
Not shown	890.0	S	471550 172450	Katesgrove Kilns (3), Reading, Berkshire	Worked Ground	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	915.0	SW	470750 172450	Avenue Works, Reading (Coley), Berkshire	Worked Ground	Lambeth Group, Upper Chalk Formation	Chalk
Not shown	958.0	SE	471850 172500	The Upper Kiln, Reading, Berkshire	-	London Clay, Lambeth Group, Upper Chalk Formation	Chalk

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? Yes

The following Natural Cavities information provided by Peter Brett Associates:

ID	Distance (m)	Direction	NGR	Superficial Deposits	Bedrock Deposits	Cavity Type and Number
82	23.0	W	471100 173400	Taplow Gravel	Chalk Group	Solution Pipe x 3
83	127.0	S	471400 173200	Taplow Gravel	Chalk Group	Solution Pipe x 2
84	149.0	E	471500 173300	Taplow Gravel	Chalk Group	Solution Pipe x 1

ID	Distance (m)	Direction	NGR	Superficial Deposits	Bedrock Deposits	Cavity Type and Number
85	157.0	SW	471010 173200	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 3
86	169.0	NE	471500 173400	Taplow Gravel	Chalk Group	Solution Pipe x 3
87	214.0	NE	471550 173400	Taplow Gravel	Chalk Group	Solution Pipe x 5
88M	272.0	SW	470980 173060	-	Chalk Group, Lambeth Group	Solution Pipe x 1
89N	278.0	S	471060 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
90	282.0	SW	470990 173040	-	Chalk Group, Lambeth Group	Solution Pipe x 1
91N	285.0	SW	471040 173010	-	Chalk Group, Lambeth Group	Solution Pipe x 1
92O	293.0	SW	471020 173010	-	Chalk Group, Lambeth Group	Solution Pipe x 1
93P	298.0	SW	471010 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
94O	298.0	SW	471010 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
95O	303.0	SW	471000 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
96O	303.0	SW	471000 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
97O	303.0	SW	471000 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
98P	308.0	SW	470990 173010	-	Chalk Group, Lambeth Group	Solution Widened Joint or Fissure x 1
99	320.0	SW	470920 173050	-	Chalk Group, Lambeth Group	Solution Pipe x 1
100P	335.0	SW	470970 172990	-	Chalk Group, Lambeth Group	Solution Pipe x 1
101	354.0	SW	470950 172980	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 2
102H	369.0	SW	470990 172940	-	Chalk Group, Lambeth Group	Solution Pipe x 1
103Q	423.0	S	471150 172850	-	Chalk Group	Solution Widened Joint or Fissure x 1
104K	440.0	S	471022 172845	-	Chalk Group, Lambeth Group	Solution Pipe x 3
105K	458.0	S	471000 172840	-	Chalk Group, Lambeth Group	Solution Pipe x 1
106	515.0	S	471100 172760	-	Chalk Group, Lambeth Group	Solution Pipe x 1
107	528.0	S	470990 172770	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	543.0	S	471140 172730	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	543.0	S	471130 172730	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	544.0	S	471000 172750	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 1

ID	Distance (m)	Direction	NGR	Superficial Deposits	Bedrock Deposits	Cavity Type and Number
Not shown	573.0	S	471000 172720	-	Chalk Group, Lambeth Group	Solution Pipe x 1
112	574.0	SE	471600 172800	-	Chalk Group, Lambeth Group	Unknown
Not shown	613.0	S	471040 172670	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	633.0	S	471040 172650	-	Chalk Group	Solution Pipe x 1
Not shown	642.0	S	471040 172640	-	Chalk Group	Solution Pipe x 1
Not shown	646.0	S	471020 172640	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	654.0	S	471030 172630	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	820.0	W	470380 172990	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	826.0	W	470370 173000	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 2
Not shown	880.0	SW	470490 172690	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	904.0	W	470250 173160	-	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	914.0	W	470240 173160	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 1
Not shown	916.0	W	470240 173150	Lynch Hill Gravel	Chalk Group, Lambeth Group	Solution Pipe x 1

5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

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

Database searched and no data found.

5.8 Gypsum Extraction

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

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

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

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

Database searched and no data found.

5.10 Clay Mining

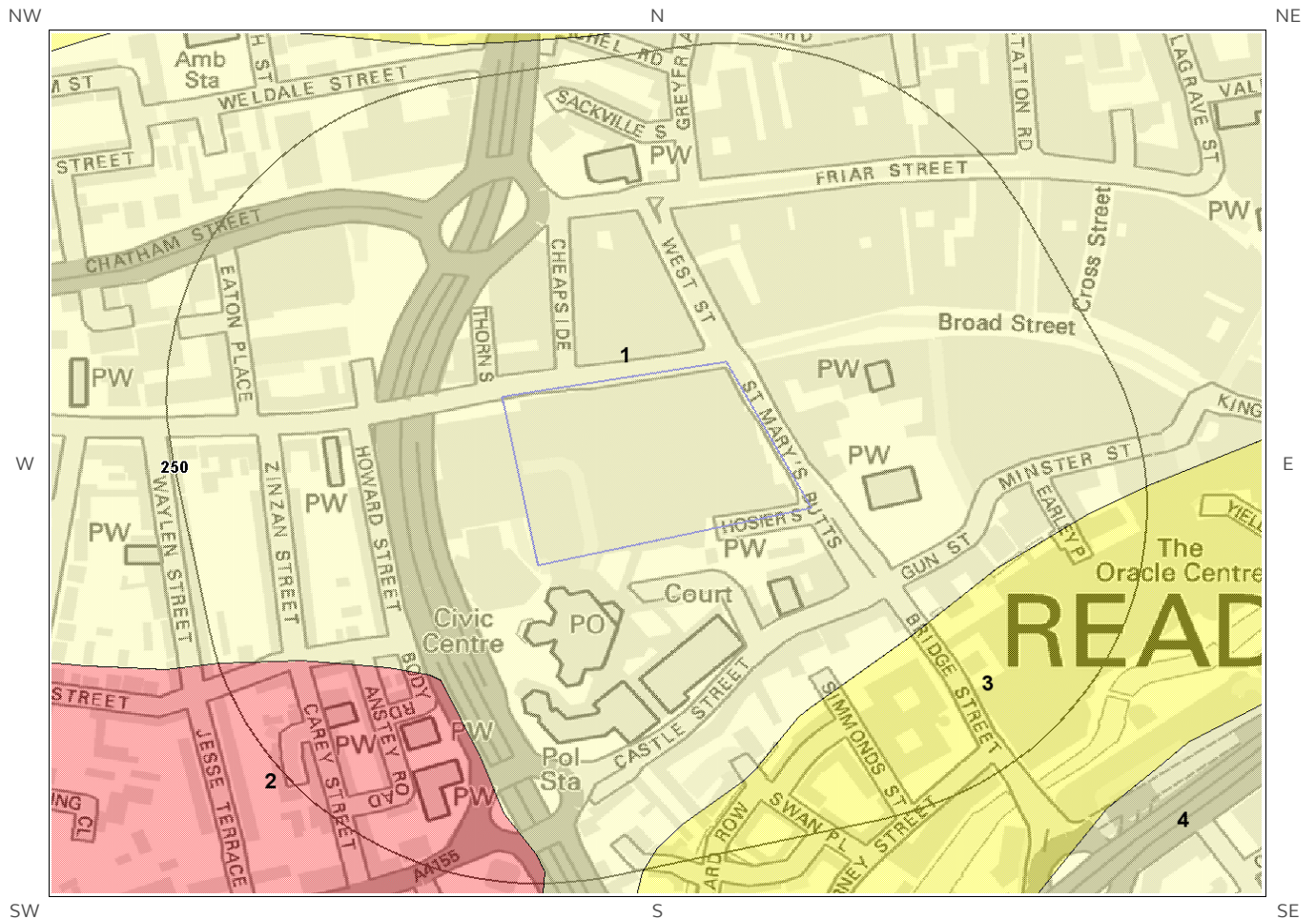
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

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

Database searched and no data found.

6 Natural Ground Subsidence

6.1 Shrink-Swell Clay map

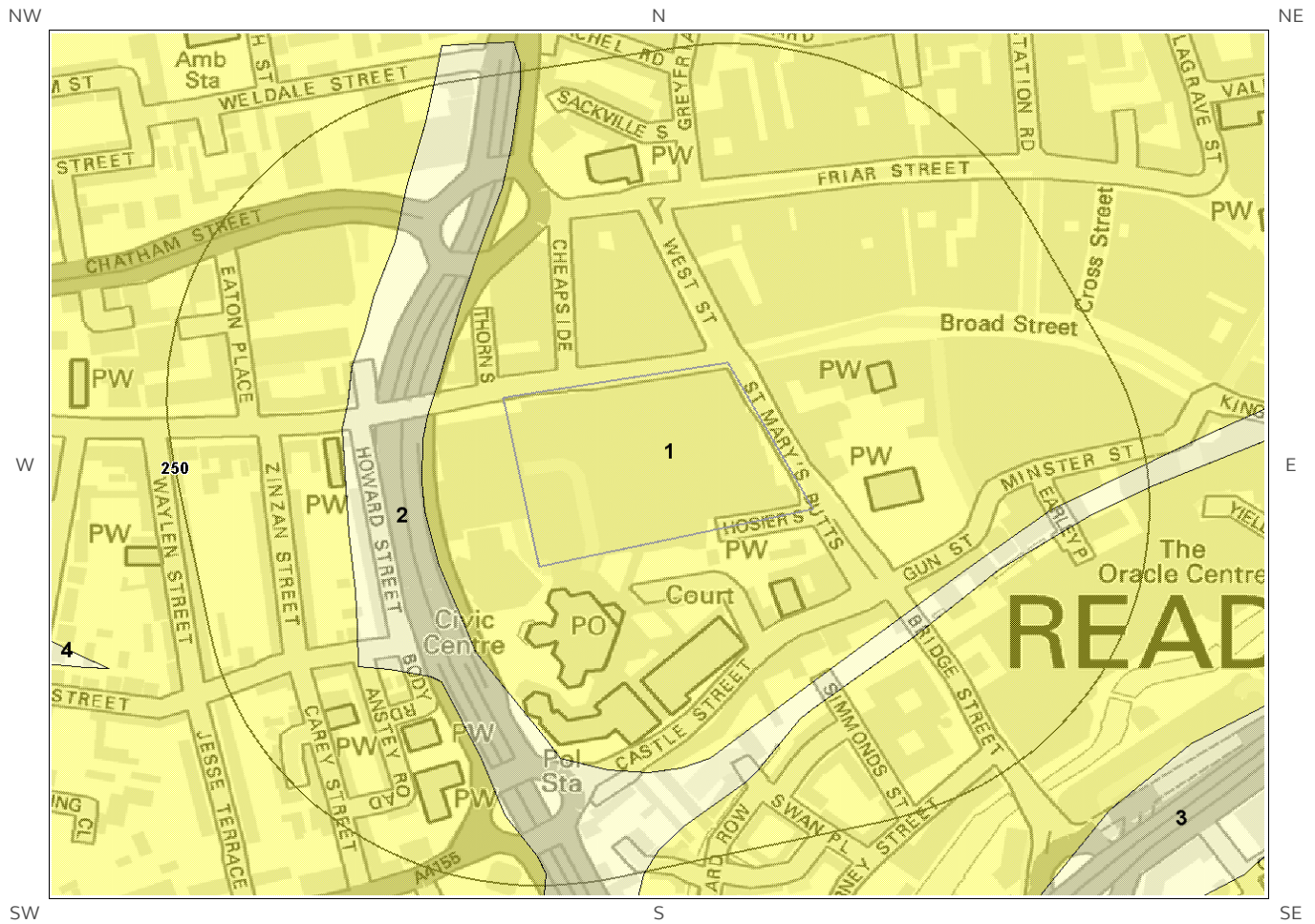


Shrink Swell Clay Legend

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6.2 Landslides map

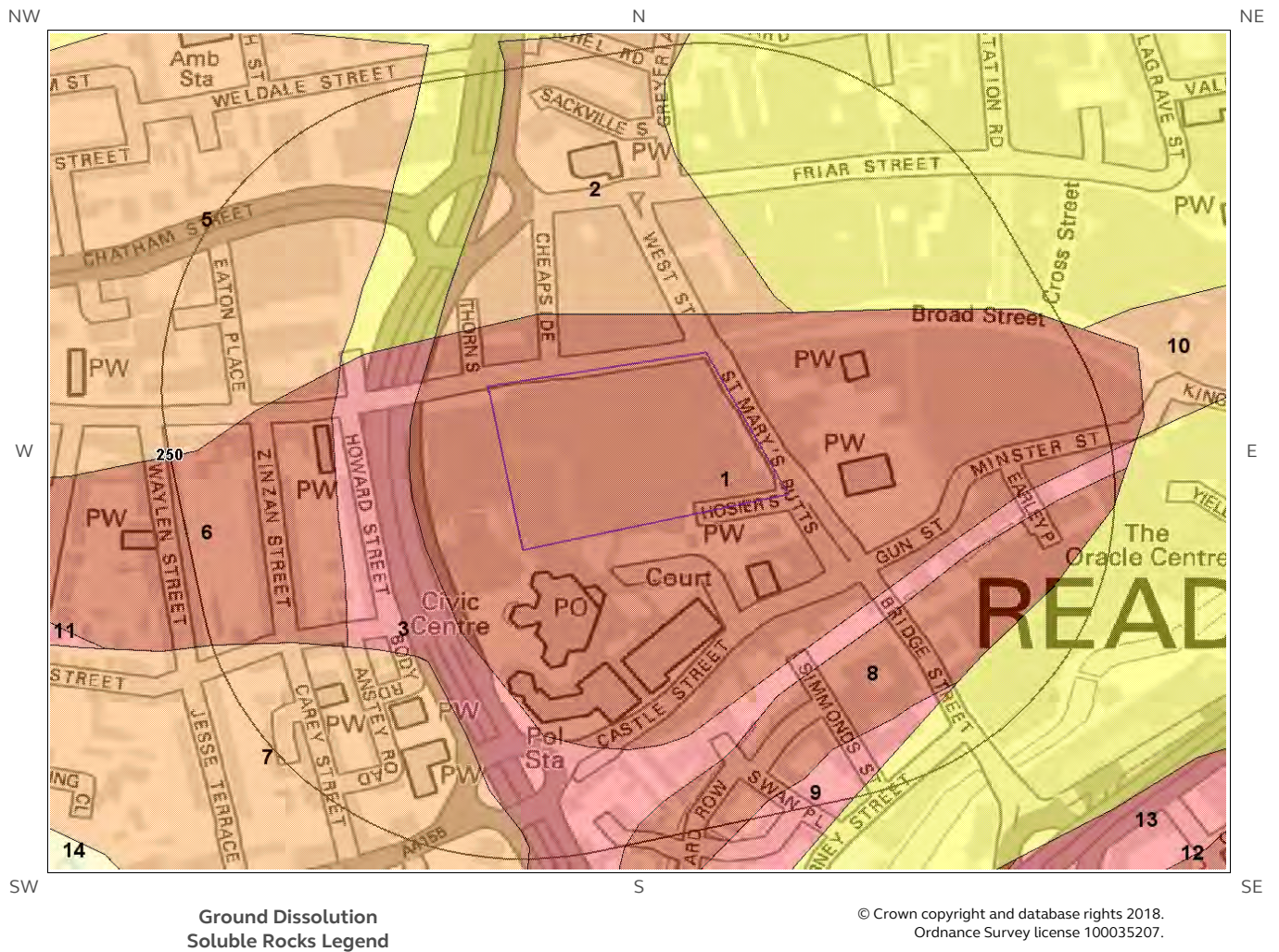


Landslides Legend

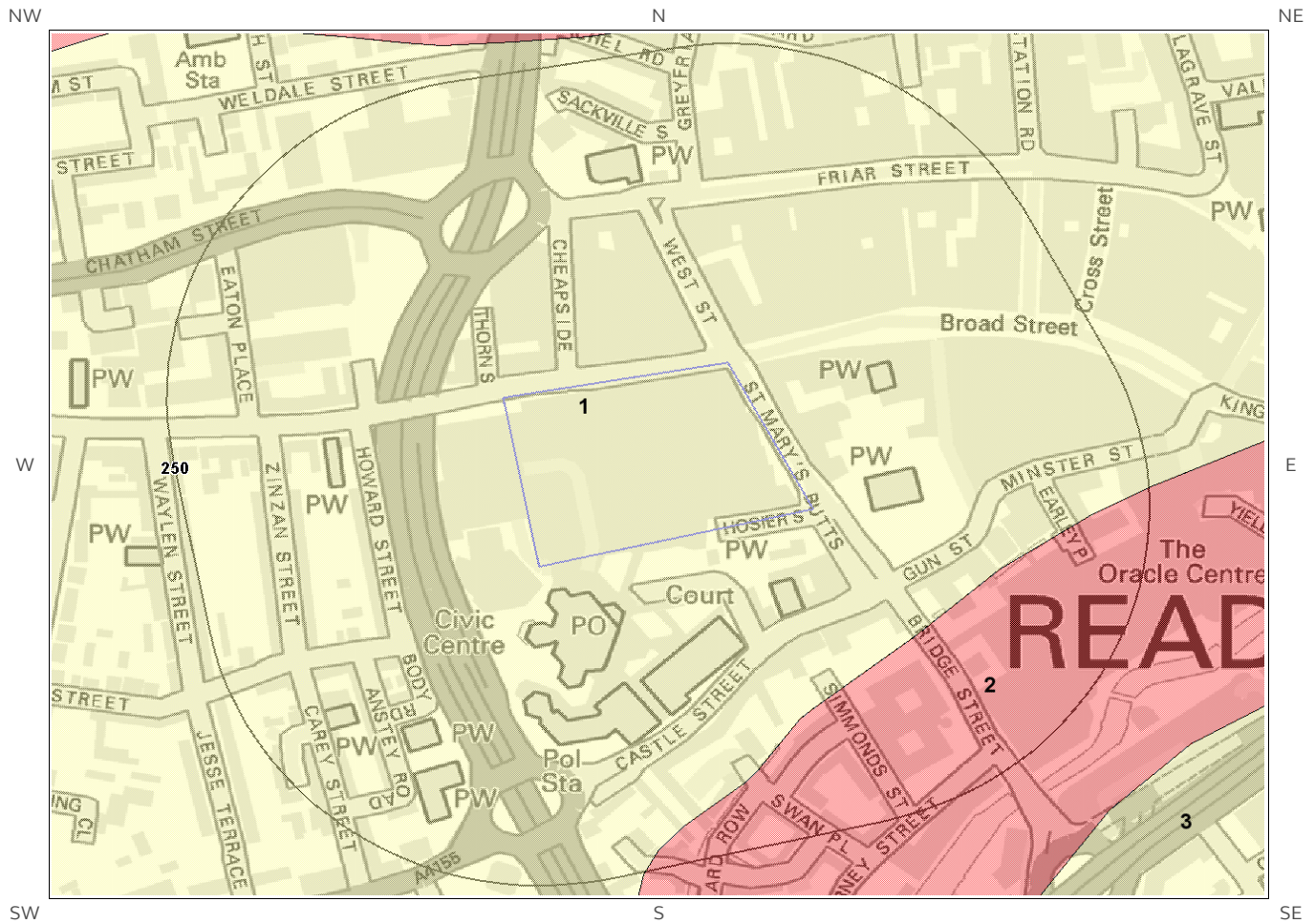
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6.3 Ground Dissolution of Soluble Rocks map



6.4 Compressible Deposits map

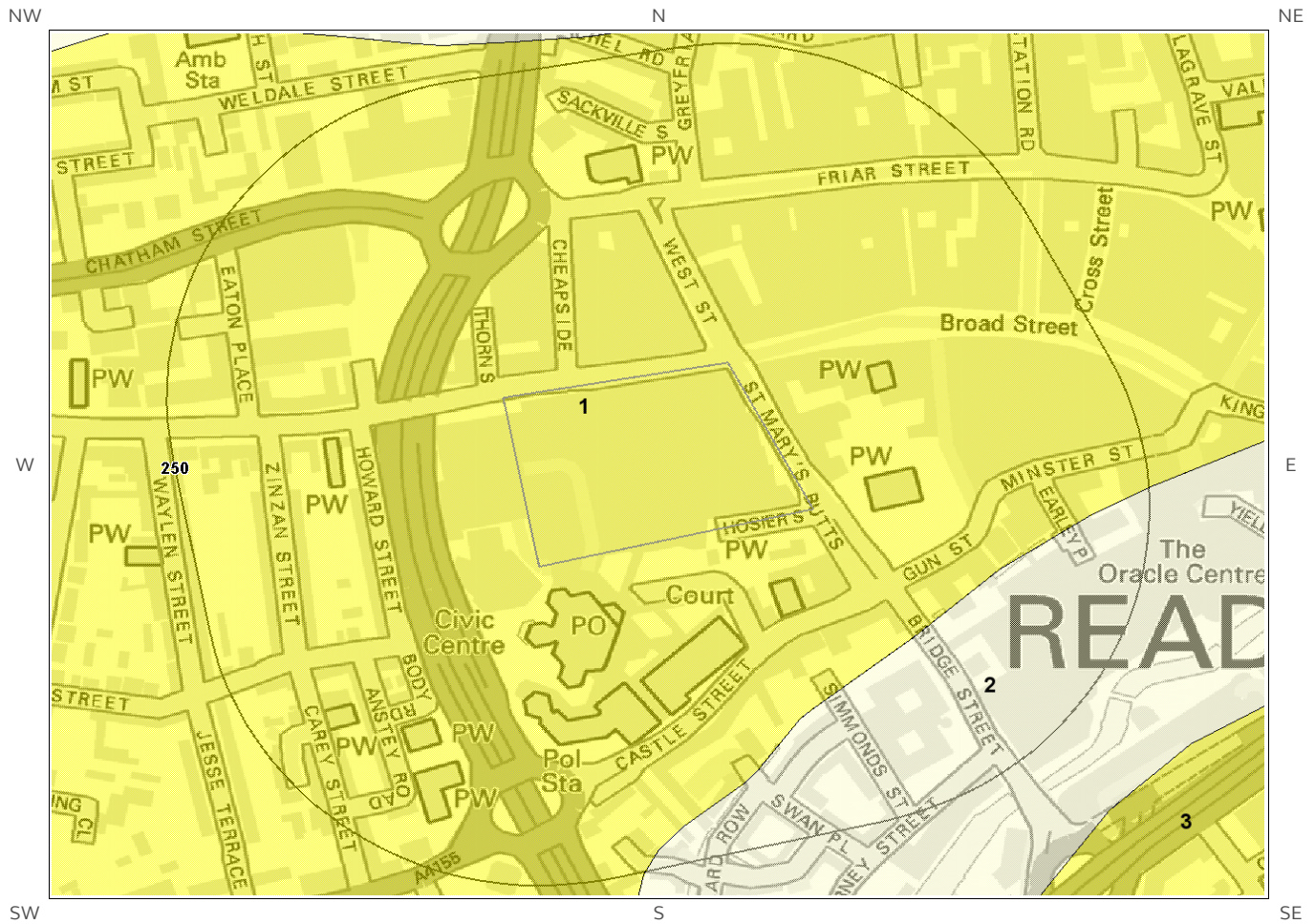


Compressible Deposits Legend

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6.5 Collapsible Deposits map

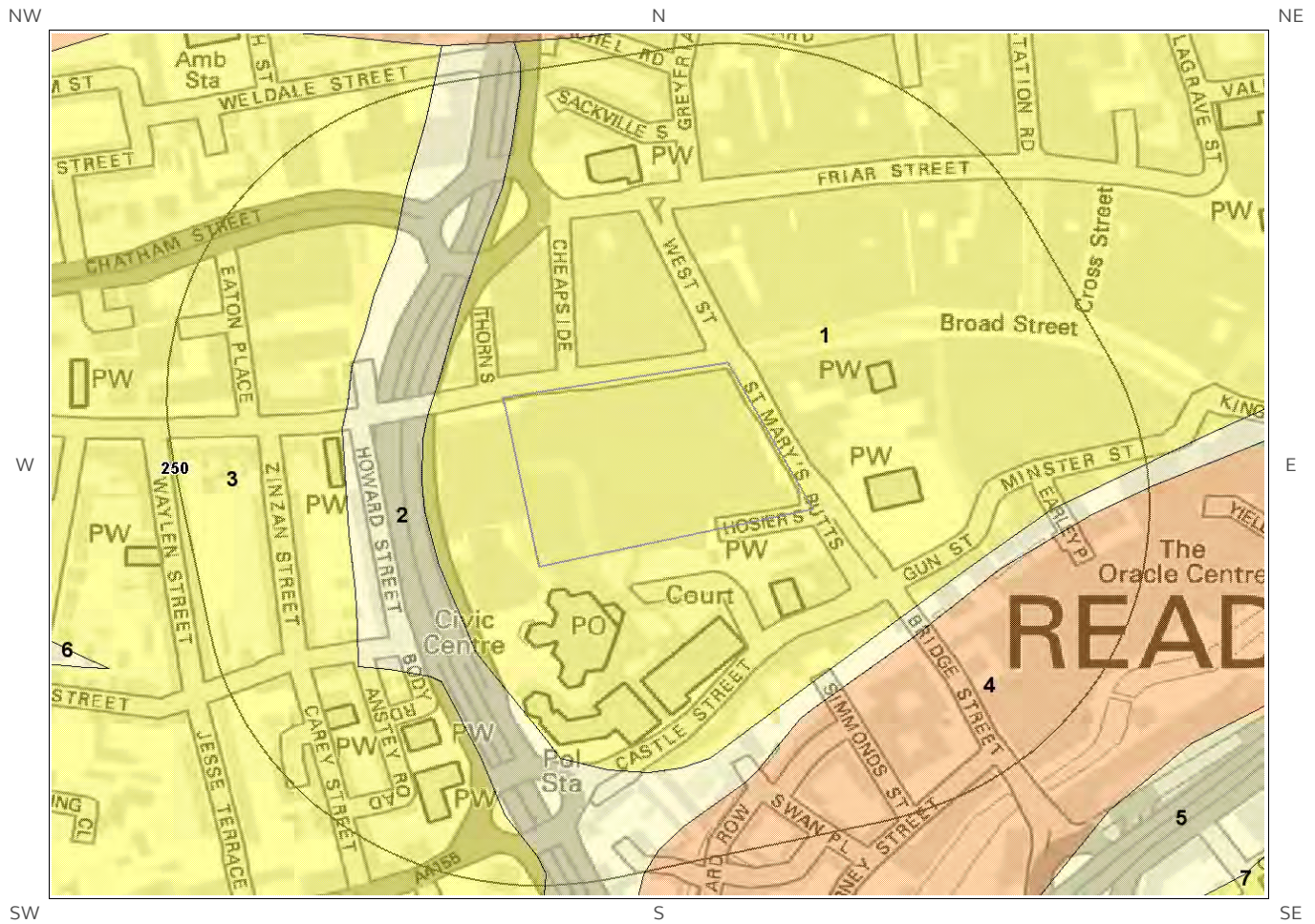


Collapsible Deposits Legend

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6.6 Running Sand map



Running Sand Legend

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6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

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

What is the maximum hazard rating of natural subsidence within the study site** boundary? High

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
2	50.0	W	Negligible	No indicators for slope instability identified. No special actions required to avoid problems due to landslides. No special ground investigation required and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

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

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	High	Very significant soluble rocks are present, with a high possibility of localised subsidence occurring naturally or in adverse conditions such as high surface or subsurface water flow. Obtain specialist advice to advise on need for stabilisation work and/or land management plan to maintain stability. Do not dispose of drainage into the ground. For new build - a specialist land stability assessment is necessary. Investigation, remediation and/or mitigation works may be necessary to stabilise the area. Construction work may cause subsidence. Surface drainage must not affect the karst system or groundwater. Increased construction costs are likely. For existing property - increase in insurance risk due to potential soluble rocks hazards. Potential of groundwater pollution.
2	31.0	N	Low	Significant soluble rocks are present. Low possibility of subsidence occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow. Consider implications for stability when changes to drainage or new construction are planned. For new build - site investigation should consider potential for dissolution problems on the site and its surroundings. Care should be taken with local drainage into the bedrock. Some possibility groundwater pollution. For existing property - possible increase in insurance risk due to soluble rocks.
3	50.0	W	Moderate	Very significant soluble rocks are present, with a moderate possibility of local natural subsidence due to high surface or subsurface water flow. Do not load the land or undertake building work before obtaining specialist advice. Do not dispose of drainage to the ground. Some possibility groundwater pollution. Maintain drainage infrastructure. For new build - specialist site investigation and stability assessment may be necessary before construction. Construction work may cause subsidence. Increased construction costs are likely. For existing property - probable increase in insurance risk due to soluble rocks.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

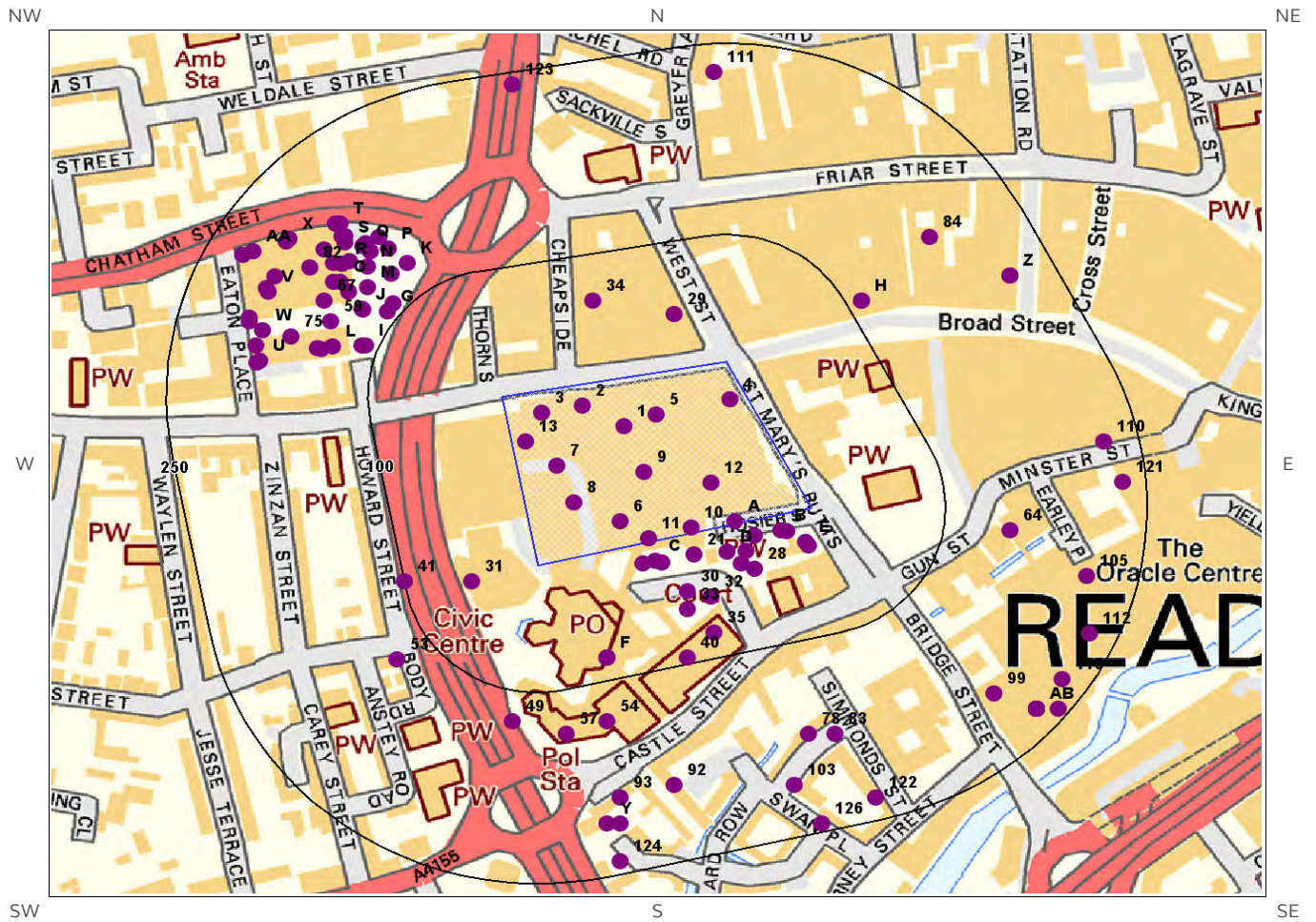
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

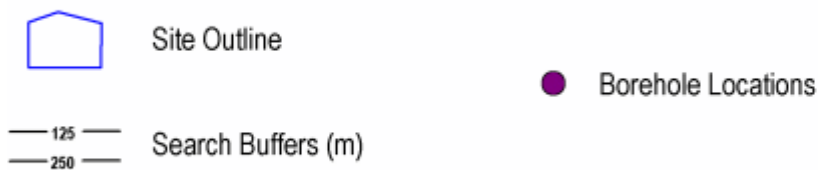
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	50.0	W	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

7 Borehole Records map



Borehole Records Legend

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7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

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ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	0.0	On Site	471213 173382	SU77SW867	9.0	READING COMMERCIAL CENTRE 4
2	0.0	On Site	471182 173398	SU77SW866	9.0	READING COMMERCIAL CENTRE 3
3	0.0	On Site	471152 173392	SU77SW864	15.0	READING COMMERCIAL CENTRE 1
4	0.0	On Site	471292 173403	SU77SW872	7.0	READING COMMERCIAL CENTRE 9
5	0.0	On Site	471237 173391	SU77SW871	9.0	READING COMMERCIAL CENTRE 8
6	0.0	On Site	471210 173307	SU77SW869	9.0	READING COMMERCIAL CENTRE 6
7	0.0	On Site	471163 173351	SU77SW865	5.0	READING COMMERCIAL CENTRE 2
8	0.0	On Site	471176 173322	SU77SW868	5.0	READING COMMERCIAL CENTRE 5/5A
9	0.0	On Site	471228 173346	SU77SW870	8.0	READING COMMERCIAL CENTRE 7
10	0.0	On Site	471263 173302	SU77SW1150	-1.0	READING CIVIC CENTRE WS112
11	0.0	On Site	471231 173294	SU77SW1149	-1.0	READING CIVIC CENTRE WS111
12	0.0	On Site	471278 173337	SU77SW873	9.0	READING COMMERCIAL CENTRE 10
13	0.0	On Site	471140 173370	SU77SW690	18.0	READING CIVIC CENTRE BH1
14A	0.0	On Site	471295 173307	SU77SW1151	-1.0	READING CIVIC CENTRE WS113
15A	12.0	S	471310 173296	SU77SW1143	-1.0	READING CIVIC CENTRE TP104
16B	13.0	S	471330 173300	SU77SW1135	-1.0	READING CIVIC CENTRE 103
17B	13.0	S	471330 173300	SU77SW1136	-1.0	READING CIVIC CENTRE 104
18B	15.0	S	471334 173299	SU77SW1148	-1.0	READING CIVIC CENTRE WS105
19C	16.0	S	471236 173276	SU77SW1133	-1.0	READING CIVIC CENTRE 101
20C	16.0	S	471227 173274	SU77SW1147	-1.0	READING CIVIC CENTRE TP110
21	17.0	S	471265 173281	SU77SW1140	-1.0	READING CIVIC CENTRE TP101
22C	18.0	S	471241 173275	SU77SW1141	-1.0	READING CIVIC CENTRE TP102

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
23D	21.0	S	471290 173283	SU77SW1142	-1.0	READING CIVIC CENTRE TP103
24D	23.0	S	471304 173284	SU77SW1134	-1.0	READING CIVIC CENTRE 102
25E	25.0	S	471348 173291	SU77SW1138	-1.0	READING CIVIC CENTRE 107
26E	29.0	S	471350 173288	SU77SW1137	-1.0	READING CIVIC CENTRE 106
27D	32.0	S	471300 173274	SU77SW1144	-1.0	READING CIVIC CENTRE TP105
28	38.0	S	471310 173270	SU77SW693	18.0	READING CIVIC CENTRE BH4
29	43.0	N	471250 173470	SU77SW668	9.0	WEST STREET READING
30	45.0	S	471260 173252	SU77SW1145	-1.0	READING CIVIC CENTRE TP106
31	51.0	W	471100 173260	SU77SW691	18.0	READING CIVIC CENTRE BH2
32	52.0	S	471278 173248	SU77SW1146	-1.0	READING CIVIC CENTRE TP107
33	58.0	S	471260 173238	SU77SW1139	-1.0	READING CIVIC CENTRE 108
34	63.0	N	471190 173480	SU77SW47	46.0	CHEAPSIDE READING
35	80.0	S	471280 173220	SU77SW108	9.0	READING MAGISTRATES CRT M1
36F	82.0	S	471200 173200	SU77SW104	30.0	READING CIVIC OFFICES 1
37F	82.0	S	471200 173200	SU77SW107	20.0	READING CIVIC OFFICES 4
38F	82.0	S	471200 173200	SU77SW106	20.0	READING CIVIC OFFICES 3
39F	82.0	S	471200 173200	SU77SW105	20.0	READING CIVIC OFFICES 2
40	95.0	S	471260 173200	SU77SW109	7.0	READING MAGISTRATES CRT M2A
41	100.0	W	471050 173260	SU77SW694	18.0	READING CIVIC CENTRE BH5
42G	109.0	NW	471037 173472	SU77SW1118	2.0	CHATHAM PLACE READING TP07
43I	109.0	W	471021 173445	SU77SW1093	11.0	CHATHAM PLACE READING 8
44G	109.0	NW	471041 173478	SU77SW1101	12.0	CHATHAM PLACE READING 14
45H	111.0	NE	471390 173480	SU77SW191	22.0	BROAD STREET READING 1
46H	111.0	NE	471390 173480	SU77SW192	18.0	BROAD STREET READING 2
47I	112.0	W	471018 173445	SU77SW1109	30.0	CHATHAM PLACE READING 8R
48J	124.0	NW	471019 173473	SU77SW1091	11.0	CHATHAM PLACE READING 6
49	125.0	S	471130 173150	SU77SW692	18.0	READING CIVIC CENTRE BH3
50J	125.0	NW	471018 173474	SU77SW1107	40.0	CHATHAM PLACE READING 6R
51K	126.0	NW	471052 173510	SU77SW1116	2.0	CHATHAM PLACE READING TP05

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
52K	127.0	NW	471040 173501	SU77SW1123	1.0	CHATHAM PLACE READING TP12
53	129.0	SW	471044 173199	SU77SW844	15.0	3 BAKER STREET READING 1
54	131.0	S	471200 173150	SU77SW111	20.0	READING MAGISTRATES CRT P2
55M	132.0	NW	471022 173491	SU77SW1126	1.0	CHATHAM PLACE READING TP15
56L	133.0	W	470996 173444	SU77SW1119	3.0	CHATHAM PLACE READING TP08
57	135.0	S	471170 173140	SU77SW110	10.0	READING MAGISTRATES CRT P1
58L	140.0	W	470988 173442	SU77SW1094	11.0	CHATHAM PLACE READING 9
59	141.0	NW	470995 173464	SU77SW1130	1.0	CHATHAM PLACE READING TP19
60M	141.0	NW	471008 173487	SU77SW1127	2.0	CHATHAM PLACE READING TP16
61L	143.0	W	470985 173443	SU77SW1110	30.0	CHATHAM PLACE READING 9R
62N	143.0	NW	471022 173507	SU77SW1125	1.0	CHATHAM PLACE READING TP14
63P	143.0	NW	471038 173521	SU77SW1122	1.0	CHATHAM PLACE READING TP11
64	149.0	E	471500 173300	SU77SW52	20.0	READING BH1&2
65O	150.0	NW	471002 173495	SU77SW1105	50.0	CHATHAM PLACE READING 4R
66N	151.0	NW	471024 173519	SU77SW1115	2.0	CHATHAM PLACE READING TP04
67	152.0	NW	470990 173480	SU77SW1132	1.0	CHATHAM PLACE READING TP21
68O	154.0	NW	470997 173495	SU77SW1089	11.0	CHATHAM PLACE READING 4
69P	155.0	NW	471031 173530	SU77SW1121	3.0	CHATHAM PLACE READING TP10
70N	155.0	NW	471009 173511	SU77SW810	30.0	CHATHAM STREET - READING 2
71Q	157.0	NW	471019 173523	SU77SW1098	11.0	CHATHAM PLACE READING 12A
72Q	157.0	NW	471021 173525	SU77SW1097	11.0	CHATHAM PLACE READING 12
73R	158.0	NW	471003 173509	SU77SW1124	1.0	CHATHAM PLACE READING TP13
74R	164.0	NW	470997 173510	SU77SW1117	2.0	CHATHAM PLACE READING TP06
75	165.0	W	470965 173452	SU77SW1120	2.0	CHATHAM PLACE READING TP09
76S	169.0	NW	471005 173526	SU77SW1100	11.0	CHATHAM PLACE READING 13A
77S	172.0	NW	471005 173531	SU77SW1099	4.0	CHATHAM PLACE READING 13
78	173.0	S	471350 173140	SU77SW671	34.0	COURAGE BREWERIES NO 8 READING
79S	174.0	NW	471003 173531	SU77SW1114	4.0	CHATHAM PLACE READING TP03
80S	174.0	NW	471003 173531	SU77SW1113	1.0	CHATHAM PLACE READING TP02

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
81R	175.0	NW	470990 173520	SU77SW1096	11.0	CHATHAM PLACE READING 11
82	176.0	NW	470979 173506	SU77SW1131	1.0	CHATHAM PLACE READING TP20
83	178.0	S	471370 173140	SU77SW277	15.0	FOBNEY STREET READING 3
84	179.0	NE	471440 173530	SU77SW45	26.0	UNION STREET READING
85T	182.0	NW	471002 173541	SU77SW1112	3.0	CHATHAM PLACE READING TP01
86U	183.0	W	470942 173433	SU77SW1095	10.0	CHATHAM PLACE READING 10
87T	184.0	NW	470999 173541	SU77SW1086	12.0	CHATHAM PLACE READING 1
88T	184.0	NW	470998 173541	SU77SW1102	60.0	CHATHAM PLACE READING 1R
89U	185.0	W	470940 173432	SU77SW1111	31.0	CHATHAM PLACE READING 10R
90W	186.0	W	470944 173457	SU77SW1129	2.0	CHATHAM PLACE READING TP18A
91U	188.0	W	470939 173445	SU77SW811	30.0	CHATHAM STREET - READING 3
92	191.0	S	471250 173100	SU77SW279	15.0	FOBNEY STREET READING 6
93	192.0	S	471210 173090	SU77SW775	6.0	55-61 CASTLE STREET READING 3/3A
94V	193.0	NW	470948 173487	SU77SW1090	11.0	CHATHAM PLACE READING 5
95V	194.0	NW	470953 173499	SU77SW1128	3.0	CHATHAM PLACE READING TP17
96V	195.0	NW	470947 173490	SU77SW1106	42.0	CHATHAM PLACE READING 5R
97W	198.0	W	470934 173464	SU77SW1108	38.0	CHATHAM PLACE READING 7R
98W	199.0	W	470934 173467	SU77SW1092	10.0	CHATHAM PLACE READING 7
99	199.0	SE	471488 173172	SU77SW329	13.0	THE ORACLE READING 3
100X	201.0	NW	470964 173529	SU77SW1103	30.0	CHATHAM PLACE READING 2R
101X	202.0	NW	470962 173527	SU77SW1087	3.0	CHATHAM PLACE READING 2
102Y	209.0	S	471200 173070	SU77SW774	8.0	55-61 CASTLE STREET READING 2
103	210.0	S	471340 173100	SU77SW278	10.0	FOBNEY STREET READING 4
104Y	211.0	S	471210 173070	SU77SW773	14.0	55-61 CASTLE STREET READING 1
105	212.0	E	471557 173264	SU77SW346	30.0	THE ORACLE READING 13
106Z	217.0	NE	471500 173500	SU77SW628	6.0	147 FRIARS STREET READING
107Z	217.0	NE	471500 173500	SU77SW629	12.0	22/24 CROSS STREET READING
108A A	218.0	NW	470937 173519	SU77SW1088	3.0	CHATHAM PLACE READING 3
109A A	223.0	NW	470929 173516	SU77SW1104	48.0	CHATHAM PLACE READING 3R

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
110	224.0	E	471570 173370	SU77SW29	26.0	BROAD STREET READING
111	228.0	N	471280 173660	SU77SW16	12.0	16 GREYFRIARS ROAD READING
112	229.0	SE	471559 173219	SU77SW347	25.0	THE ORACLE READING 15
113	230.0	SE	471539 173183	SU77SW335	13.0	THE ORACLE READING 9
114A B	230.0	SE	471520 173160	SU77SW669	4.0	COURAGE BREWERIES NO 2 READING
115A B	230.0	SE	471520 173160	SU77SW42/D	37.0	COURAGE BREWERIES 6 READING
116A B	230.0	SE	471520 173160	SU77SW670	4.0	COURAGE BREWERIES NO 5 READING
117A B	230.0	SE	471520 173160	SU77SW42/B	46.0	COURAGE BREWERIES 4 READING
118A B	230.0	SE	471520 173160	SU77SW624	116.0	COURAGE BREWERIES NO 1 READING
119A B	230.0	SE	471520 173160	SU77SW42/A	105.0	COURAGE BREWERIES 1 READING
120A B	230.0	SE	471520 173160	SU77SW42/C	37.0	COURAGE BREWERIES 3 READING
121	232.0	E	471584 173338	SU77SW328	30.0	THE ORACLE READING 2
122	233.0	S	471400 173090	SU77SW43	89.0	COURAGE BREWERIES 7 READING
123	240.0	N	471130 173650	SU77SW682	12.0	READING CO-OP SACKVILLE STREET
124	241.0	S	471210 173040	SU77SW695	9.0	READING CIVIC CENTRE BHD1
125A B	242.0	SE	471536 173160	SU77SW348	30.0	THE ORACLE READING 16
126	244.0	S	471360 173070	SU77SW280	12.0	FOBNEY STREET READING 7

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/15639757
 #2: scans.bgs.ac.uk/sobi_scans/boreholes/15639740
 #3: scans.bgs.ac.uk/sobi_scans/boreholes/15639724
 #4: scans.bgs.ac.uk/sobi_scans/boreholes/15639890
 #5: scans.bgs.ac.uk/sobi_scans/boreholes/15639888
 #6: scans.bgs.ac.uk/sobi_scans/boreholes/15639766
 #7: scans.bgs.ac.uk/sobi_scans/boreholes/15639728
 #8: scans.bgs.ac.uk/sobi_scans/boreholes/15639760
 #9: scans.bgs.ac.uk/sobi_scans/boreholes/15639772
 #12: scans.bgs.ac.uk/sobi_scans/boreholes/15639895
 #13: scans.bgs.ac.uk/sobi_scans/boreholes/428842
 #28: scans.bgs.ac.uk/sobi_scans/boreholes/428845
 #29: scans.bgs.ac.uk/sobi_scans/boreholes/428820
 #31: scans.bgs.ac.uk/sobi_scans/boreholes/428843
 #34: scans.bgs.ac.uk/sobi_scans/boreholes/428199
 #35: scans.bgs.ac.uk/sobi_scans/boreholes/428260
 #36F: scans.bgs.ac.uk/sobi_scans/boreholes/428256
 #37F: scans.bgs.ac.uk/sobi_scans/boreholes/428259
 #38F: scans.bgs.ac.uk/sobi_scans/boreholes/428258
 #39F: scans.bgs.ac.uk/sobi_scans/boreholes/428257
 #40: scans.bgs.ac.uk/sobi_scans/boreholes/428261
 #41: scans.bgs.ac.uk/sobi_scans/boreholes/428846
 #42G: scans.bgs.ac.uk/sobi_scans/boreholes/18382989
 #43I: scans.bgs.ac.uk/sobi_scans/boreholes/18381994
 #44G: scans.bgs.ac.uk/sobi_scans/boreholes/18382006
 #45H: scans.bgs.ac.uk/sobi_scans/boreholes/428343
 #46H: scans.bgs.ac.uk/sobi_scans/boreholes/428344
 #47I: scans.bgs.ac.uk/sobi_scans/boreholes/18382966
 #48J: scans.bgs.ac.uk/sobi_scans/boreholes/18381992
 #49: scans.bgs.ac.uk/sobi_scans/boreholes/428844
 #50J: scans.bgs.ac.uk/sobi_scans/boreholes/18382963
 #51K: scans.bgs.ac.uk/sobi_scans/boreholes/18382984
 #52K: scans.bgs.ac.uk/sobi_scans/boreholes/18383004
 #53: scans.bgs.ac.uk/sobi_scans/boreholes/15631833
 #54: scans.bgs.ac.uk/sobi_scans/boreholes/428263
 #55M: scans.bgs.ac.uk/sobi_scans/boreholes/18383043
 #56L: scans.bgs.ac.uk/sobi_scans/boreholes/18382990
 #57: scans.bgs.ac.uk/sobi_scans/boreholes/428262
 #58L: scans.bgs.ac.uk/sobi_scans/boreholes/18381995
 #59: scans.bgs.ac.uk/sobi_scans/boreholes/18383047
 #60M: scans.bgs.ac.uk/sobi_scans/boreholes/18383044
 #61L: scans.bgs.ac.uk/sobi_scans/boreholes/18382969
 #62N: scans.bgs.ac.uk/sobi_scans/boreholes/18383042
 #63P: scans.bgs.ac.uk/sobi_scans/boreholes/18383002
 #64: scans.bgs.ac.uk/sobi_scans/boreholes/428204
 #65O: scans.bgs.ac.uk/sobi_scans/boreholes/18382594
 #66N: scans.bgs.ac.uk/sobi_scans/boreholes/18382983
 #67: scans.bgs.ac.uk/sobi_scans/boreholes/18383049
 #68O: scans.bgs.ac.uk/sobi_scans/boreholes/18381990
 #69P: scans.bgs.ac.uk/sobi_scans/boreholes/18382993
 #70N: scans.bgs.ac.uk/sobi_scans/boreholes/15616939
 #71Q: scans.bgs.ac.uk/sobi_scans/boreholes/18381999
 #72Q: scans.bgs.ac.uk/sobi_scans/boreholes/18381998
 #73R: scans.bgs.ac.uk/sobi_scans/boreholes/18383005
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 #75: scans.bgs.ac.uk/sobi_scans/boreholes/18382991

#76S: scans.bgs.ac.uk/sobi_scans/boreholes/18382003
 #77S: scans.bgs.ac.uk/sobi_scans/boreholes/18382001
 #78: scans.bgs.ac.uk/sobi_scans/boreholes/428823
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 #80S: scans.bgs.ac.uk/sobi_scans/boreholes/18382981
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 #82: scans.bgs.ac.uk/sobi_scans/boreholes/18383048
 #83: scans.bgs.ac.uk/sobi_scans/boreholes/428429
 #84: scans.bgs.ac.uk/sobi_scans/boreholes/428197
 #85T: scans.bgs.ac.uk/sobi_scans/boreholes/18382980
 #86U: scans.bgs.ac.uk/sobi_scans/boreholes/18381996
 #87T: scans.bgs.ac.uk/sobi_scans/boreholes/18381987
 #88T: scans.bgs.ac.uk/sobi_scans/boreholes/18382007
 #89U: scans.bgs.ac.uk/sobi_scans/boreholes/18382978
 #90W: scans.bgs.ac.uk/sobi_scans/boreholes/18383046
 #91U: scans.bgs.ac.uk/sobi_scans/boreholes/15616943
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 #95V: scans.bgs.ac.uk/sobi_scans/boreholes/18383045
 #96V: scans.bgs.ac.uk/sobi_scans/boreholes/18382962
 #97W: scans.bgs.ac.uk/sobi_scans/boreholes/18382965
 #98W: scans.bgs.ac.uk/sobi_scans/boreholes/18381993
 #99: scans.bgs.ac.uk/sobi_scans/boreholes/428481
 #100X: scans.bgs.ac.uk/sobi_scans/boreholes/18382009
 #101X: scans.bgs.ac.uk/sobi_scans/boreholes/18381988
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 #104Y: scans.bgs.ac.uk/sobi_scans/boreholes/15043358
 #105: scans.bgs.ac.uk/sobi_scans/boreholes/428498
 #106Z: scans.bgs.ac.uk/sobi_scans/boreholes/428780
 #107Z: scans.bgs.ac.uk/sobi_scans/boreholes/428781
 #108AA: scans.bgs.ac.uk/sobi_scans/boreholes/18381989
 #109AA: scans.bgs.ac.uk/sobi_scans/boreholes/18382123
 #110: scans.bgs.ac.uk/sobi_scans/boreholes/428177
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 #123: scans.bgs.ac.uk/sobi_scans/boreholes/428834
 #124: scans.bgs.ac.uk/sobi_scans/boreholes/428847
 #125AB: scans.bgs.ac.uk/sobi_scans/boreholes/428500
 #126: scans.bgs.ac.uk/sobi_scans/boreholes/428432

8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

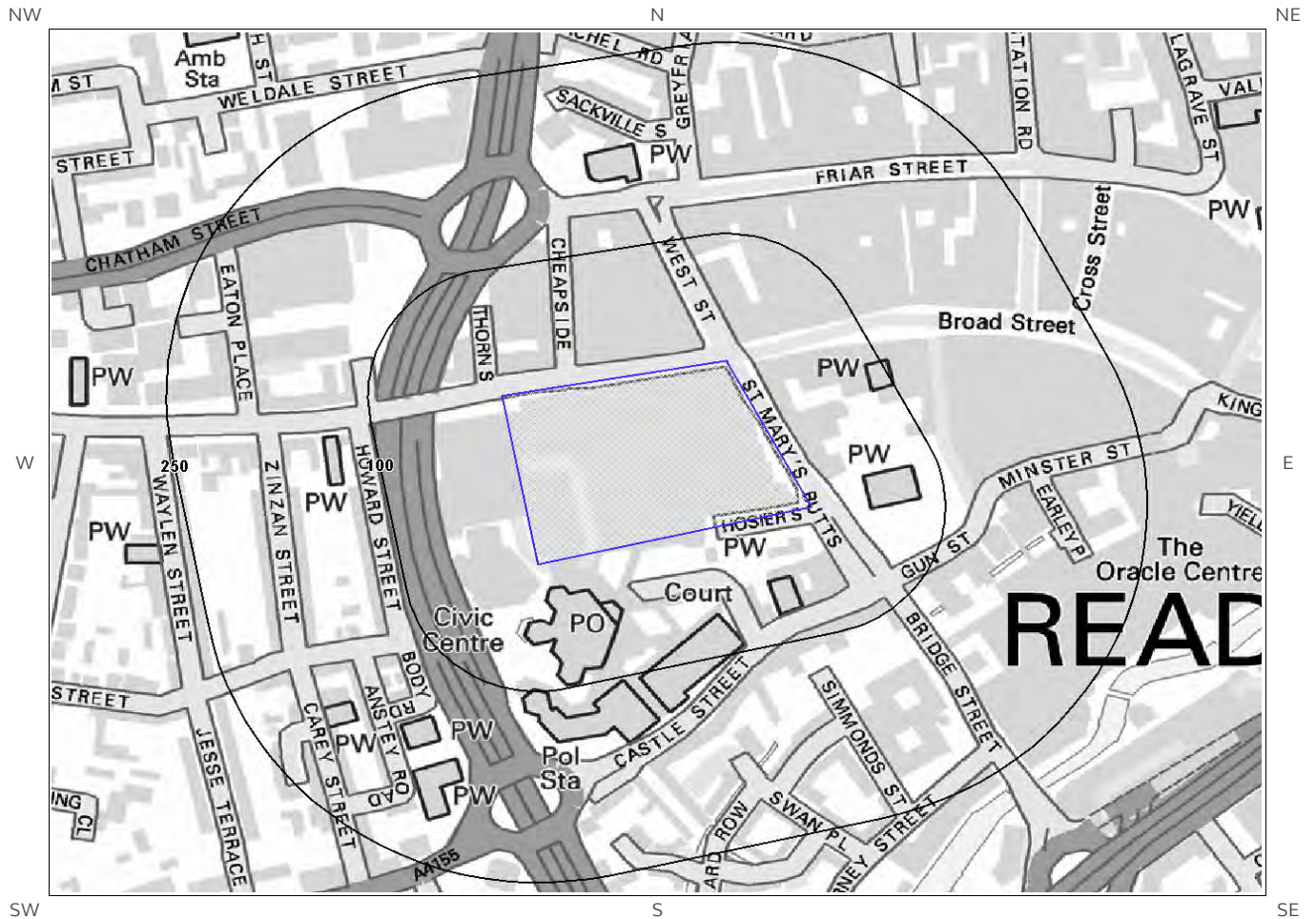
1

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg

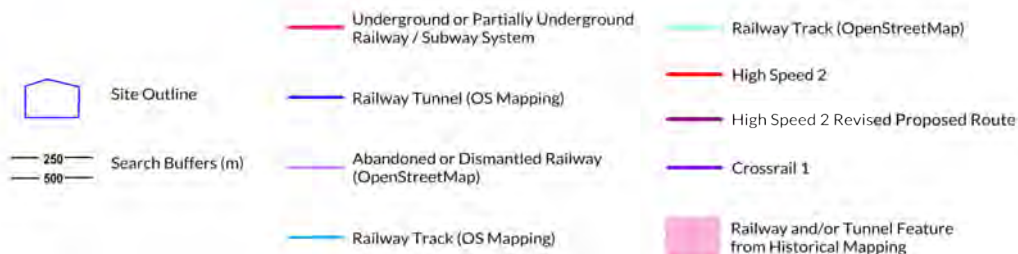
*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? No

Is the study site within 500m of the route of the Crossrail 1 rail project? Yes

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

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<https://www.groundsure.com/terms-and-conditions-may25-2018>



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Head Office, Unit 7, Calder Close, Calder Park,
WAKEFIELD, WF4 3BA

Groundsure
Reference:

GS-5187835

Your Reference: 2206

Report Date 2 Jul 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: 54 BROAD STREET MALL, BROAD STREET, READING, RG1 7QE

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

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Address: 54 BROAD STREET MALL, BROAD STREET, READING, RG1 7QE
Date: 2 Jul 2018
Reference: GS-5187835
Client: BJB Consulting Limited

NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 20-Apr-2015
Grid Reference: 471248,173368
Site Size: 2.44ha

Report Reference: GS-5187835
Client Reference: 2206

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Overview of Findings

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

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	1	0	16	100
1.2 Additional Information – Historical Tank Database	0	0	27	71
1.3 Additional Information – Historical Energy Features Database	0	3	48	88
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	1
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	4	0	39	46
1.6 Potentially Infilled Land	0	0	0	4
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	1	11
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	1	0	2	12
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	1	3
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	2	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	4	5

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	3	6	31	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	1	1
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology				0-500m		
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site				Identified		
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site				Identified		
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	1	0	5	10
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	2	0	4
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	1	0	2	2
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	1	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	Yes	Yes	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	30	38	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	Identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Potential at Surface					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	High					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	1	0	0	0	2
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards	
9.1 Maximum risk of natural ground subsidence	High
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Negligible
9.1.2 Maximum Landslides hazard rating identified on the study site	Very Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	High
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Negligible
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary.

Section 10: Mining	
10.1 Coal mining areas within 75m of the study site	None identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	Identified
10.3 Brine affected areas within 75m of the study site	None identified

Using this report

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

1. Historical Industrial Sites

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

2. Environmental Permits, Incidents and Registers

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

3. Landfills and Other Waste Sites

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

4. Current Land Uses

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

5. Geology

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

6. Hydrogeology and Hydrology

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

7. Flooding

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

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

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

10. Mining

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

11. Contacts

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

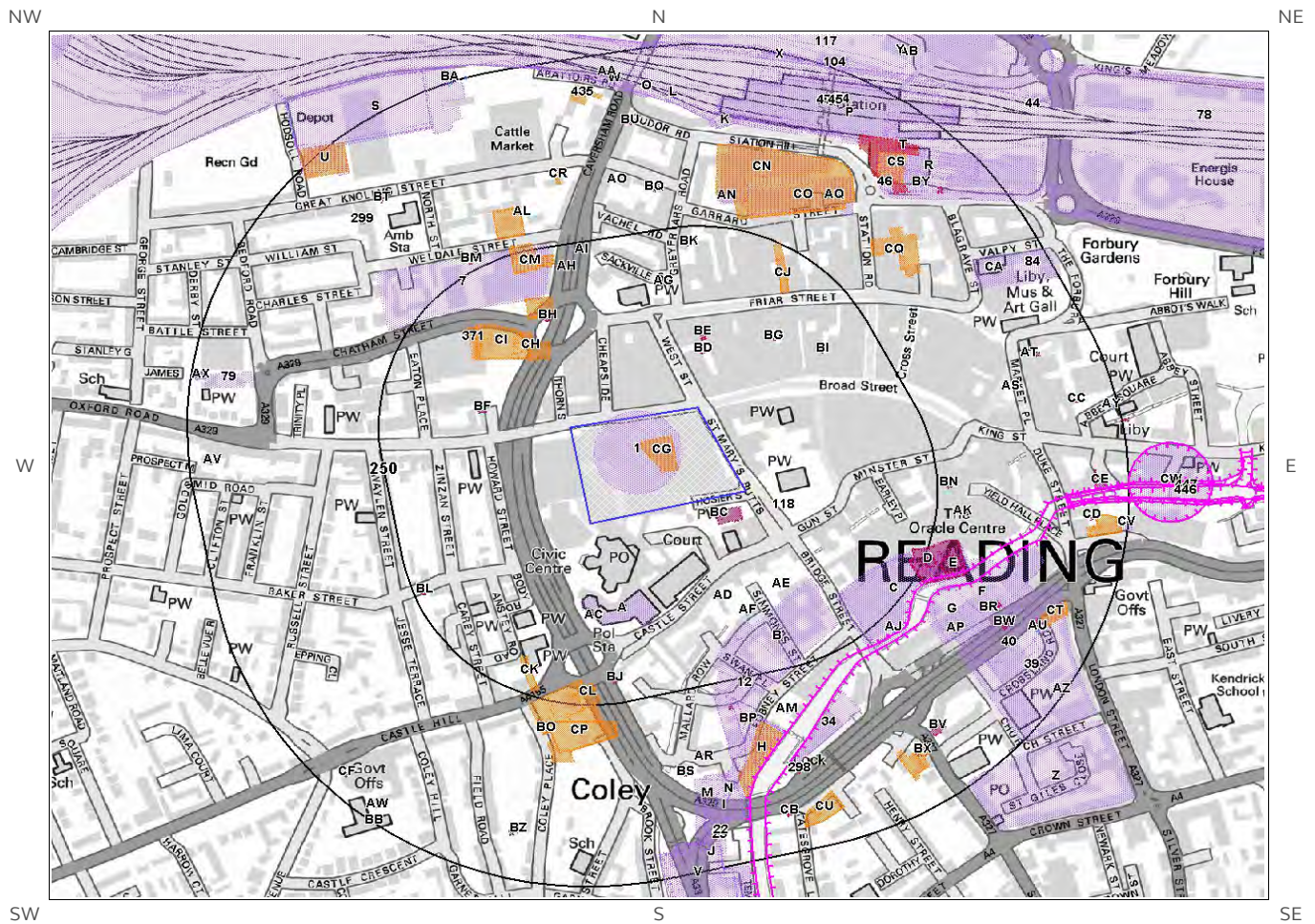
Note: Maps

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

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

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

1. Historical Land Use



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1. Historical Industrial Sites

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

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

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 117

ID	Distance [m]	Direction	Use	Date
1	0	On Site	Smithy	1913
2A	101	S	Police Station	1989
3A	101	S	Police Station	1977
4A	101	S	Police Station	1994
5B	146	SE	Brewery	1971
6B	146	SE	Brewery	1977
7	182	N	Unspecified Depot	1977
8C	185	SE	Brewery	1933
9C	187	SE	Brewery	1977
10C	187	SE	Brewery	1971
11C	188	SE	Brewery	1938
12	191	S	Unspecified Commercial/Industrial	1933
13C	195	SE	Unspecified Commercial/Industrial	1898
14C	195	SE	Brewery	1938
15C	195	SE	Brewery	1913
16D	245	E	Unspecified Tanks	1971
17D	245	E	Unspecified Tanks	1977
18D	255	SE	Unspecified Tank	1898
19I	263	S	Railway Sidings	1938
20	270	S	Railway Sidings	1913
21CO	273	N	Garage	1971
22	274	S	Railway Sidings	1933
23E	275	E	Unspecified Tank	1913
24E	275	E	Unspecified Tank	1898
25	278	S	Railway Sidings	1938
26G	280	SE	Unspecified Commercial/Industrial	1933
27BR	283	SE	Unspecified Mill	1898
28AN	284	N	Smithy	1913
29F	285	SE	Unspecified Depot	1977
30F	285	SE	Unspecified Depot	1994
31F	285	SE	Unspecified Depot	1989
32CN	286	N	Bus Station	1994

33BP	299	S	Railway Building	1913
34	302	SE	Hospitals	1898
35H	308	S	Unspecified Commercial/Industrial	1933
36G	316	SE	Railway Sidings	1933
37H	322	S	Railway Building	1938
38I	329	S	Railway Sidings	1962
39	355	SE	Unspecified Factory	1977
40	360	SE	Unspecified Factory	1971
41J	372	S	Goods Depot	1933
42M	374	S	Railway Building	1962
43J	375	S	Goods Depot	1938
44	382	NE	Railway Sidings	1898
45	383	NE	Railway Sidings	1938
46	384	NE	Railway Building	1962
47	384	NE	Railway Sidings	1962
48K	385	N	Railway Building	1989
49K	385	N	Railway Building	1977
50K	385	N	Railway Building	1994
51L	385	N	Railway Sidings	1989
52L	385	N	Railway Sidings	1994
53M	385	S	Railway Buildings	1913
54	386	N	Railway Sidings	1913
55	387	N	Railway Sidings	1938
56N	389	S	Railway Buildings	1938
57N	391	S	Railway Building	1962
58P	392	NE	Railway Station	1994
59O	396	N	Railway Sidings	1977
60O	396	N	Railway Sidings	1971
61CA	400	NE	Telegraph House	1971
62P	401	N	Railway Station	1962
63P	401	N	Railway Station	1989
64P	401	N	Railway Station	1977
65P	401	N	Railway Station	1971
66P	403	N	Railway Station	1898
67CS	403	NE	Garage	1971
68AA	404	N	Railway Sidings	1933
69Q	405	N	Railway Station	1913
70Q	405	N	Railway Station	1938
71R	405	NE	Terminus	1898
72R	406	NE	Terminus	1938
73Q	407	N	Railway Station	1938
74R	408	NE	Terminus	1933
75R	409	NE	Terminus	1913
76R	409	NE	Terminus	1938
77Q	412	N	Railway Station	1933

78	413	NE	Railway Sidings	1933
79	419	W	Nursery	1913
80S	438	N	Corporation Yard	1994
81S	438	N	Corporation Yard	1989
82T	440	NE	Railway Building	1913
83T	440	NE	Railway Building	1938
84	446	NE	Police Station	1971
85S	451	NW	Corporation Yard	1962
86S	451	NW	Corporation Yard	1913
87S	451	NW	Corporation Yard	1938
88S	451	NW	Corporation Yard	1938
89U	454	NW	Unspecified Works	1977
90U	454	NW	Unspecified Commercial/Industrial	1989
91U	454	NW	Unspecified Commercial/Industrial	1994
92V	455	S	Railway Sidings	1971
93V	455	S	Railway Sidings	1977
94V	455	S	Unspecified Depot	1971
95V	455	S	Unspecified Depot	1977
96S	458	NW	Corporation Yard	1933
97W	458	N	Railway Building	1898
98W	462	N	Railway Building	1913
99X	489	N	Railway Building	1971
100X	489	N	Railway Building	1989
101X	489	N	Railway Building	1977
102X	489	N	Railway Building	1994
103CV	489	E	Smithy	1913
104	491	N	Railway Building	1898
105Y	494	N	Railway Works	1913
106Y	494	N	Railway Works	1938
107Z	495	SE	Tin Works	1913
108Z	495	SE	Tin Works	1938
109AA	495	N	Railway Building	1938
110AA	495	N	Railway Building	1913
111AB	496	N	Unspecified Works	1971
112AB	496	N	Unspecified Works	1962
113AB	496	N	Unspecified Works	1977
114AA	498	N	Railway Building	1938
115Y	499	N	Unspecified Works	1938
116CW	500	E	Unspecified Wharf	1938
117	500	N	Unspecified Works	1933

1.2 Additional Information – Historical Tank Database

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

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

98

ID	Distance (m)	Direction	Use	Date
118	51	SE	Unspecified Tank	1931
119AC	130	S	Unspecified Tank	1879
120AC	130	S	Unspecified Tank	1879
121AD	137	S	Unspecified Tank	1980
122AD	137	S	Unspecified Tank	1970
123AE	139	S	Unspecified Tank	1970
124AE	139	S	Unspecified Tank	1980
125AF	161	S	Unspecified Tank	1980
126AF	162	S	Unspecified Tank	1970
127AG	173	N	Unspecified Tank	1900
128AG	177	N	Unspecified Tank	1912
129AG	179	N	Unspecified Tank	1879
130AG	179	N	Unspecified Tank	1879
131AH	214	N	Tank or Trough	1880
132AH	214	N	Tank or Trough	1880
133D	230	E	Gas Works	1879
134D	230	E	Gas Works	1879
135D	230	E	Gas Works	1912
136D	230	E	Gas Works	1900
137D	233	SE	Gas Works	1879
138AI	235	N	Unspecified Tank	1880
139AI	235	N	Unspecified Tank	1880
140AI	238	N	Unspecified Tank	1880
141AI	238	N	Unspecified Tank	1880
142D	246	E	Tanks	1968
143D	247	E	Tanks	1962
144D	247	E	Tanks	1979
145D	252	E	Tanks	1957
146D	252	E	Tanks	1958
147D	253	E	Tanks	1956
148D	253	E	Gasometer	1879
149D	253	E	Gasometer	1879
150D	253	SE	Gasometer	1900
151D	254	E	Gasometer	1879
152AJ	270	SE	Tank or Trough	1879
153AJ	270	SE	Tank or Trough	1879
154AJ	272	SE	Tank or Trough	1879

155E	273	E	Gasometer	1912
156E	273	E	Gasometer	1900
157E	273	E	Gasometer	1879
158E	273	E	Gasometer	1879
159E	275	E	Gasometer	1879
160D	277	SE	Unspecified Tank	1956
161D	278	SE	Unspecified Tank	1957
162D	278	SE	Unspecified Tank	1958
163AK	283	E	Tanks	1879
164AK	283	E	Tanks	1879
165BO	290	S	Unspecified Tank	1972
166E	294	E	Tanks	1957
167E	294	E	Tanks	1958
168E	294	E	Tanks	1962
169E	294	E	Tanks	1956
170E	294	E	Tanks	1968
171E	295	E	Tanks	1979
172AL	299	N	Pump and Tank	1880
173AL	299	N	Pump and Tank	1880
174E	302	E	Tanks	1968
175E	302	E	Tanks	1962
176E	303	E	Tanks	1979
177AM	307	S	Unspecified Tank	1988
178AM	307	S	Unspecified Tank	1980
179AM	308	S	Unspecified Tank	1970
180AN	310	N	Unspecified Tank	1969
181AO	322	N	Tank or Trough	1879
182AO	322	N	Tank or Trough	1879
183AO	324	N	Tank or Trough	1879
184AO	324	N	Tank or Trough	1879
185AP	332	SE	Unspecified Tank	1900
186AP	333	SE	Unspecified Tank	1879
187AQ	338	NE	Tank or Trough	1879
188AQ	338	NE	Tank or Trough	1879
189AQ	340	NE	Tank or Trough	1879
190AR	347	S	Unspecified Tank	1879
191AR	347	S	Unspecified Tank	1879
192AS	371	E	Tank or Trough	1879
193AS	371	E	Tank or Trough	1879
194AT	412	NE	Pump and Tank	1879
195AT	412	NE	Pump and Tank	1879
196BY	421	NE	Unspecified Tank	1988
197AU	421	SE	Unspecified Tank	1968
198AU	422	SE	Unspecified Tank	1979
199AV	468	W	Unspecified Tank	1958
200AV	468	W	Unspecified Tank	1959

201AW	480	SW	Unspecified Tank	1879
202AW	480	SW	Unspecified Tank	1879
203AX	481	W	Unspecified Tank	1971
204AX	483	W	Unspecified Tank	1993
205AX	483	W	Unspecified Tank	1986
206AY	487	E	Unspecified Tank	1988
207AY	487	E	Unspecified Tank	1997
208AZ	493	SE	Tanks	1968
209AZ	493	SE	Tanks	1962
210BA	495	N	Tanks	1986
211BA	495	N	Tanks	1993
212BB	498	SW	Unspecified Tank	1976
213BA	498	N	Unspecified Tank	1993
214BA	498	N	Unspecified Tank	1986
215BB	499	SW	Unspecified Tank	1988

1.3 Additional Information – Historical Energy Features Database

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

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

139

ID	Distance (m)	Direction	Use	Date
216BC	19	S	Electricity Substation	1970
217BC	19	S	Electricity Substation	1988
218BC	19	S	Electricity Substation	1980
219BD	75	N	Electricity Substation	1993
220BD	75	N	Electricity Substation	1994
221BD	75	N	Electricity Substation	1996
222BD	93	N	Electricity Substation	1988
223BD	93	N	Electricity Substation	1979
224BD	93	N	Electricity Substation	1993
225BE	93	N	Electricity Substation	1986
226BE	93	N	Electricity Substation	1969
227BE	96	N	Electricity Substation	1994
228BE	96	N	Electricity Substation	1996
229BF	111	W	Electricity Substation	1980
230BF	111	W	Electricity Substation	1988
231BF	112	W	Electricity Substation	1970
232BG	135	NE	Electricity Substation	1993
233BG	135	NE	Electricity Substation	1988
234BG	135	NE	Electricity Substation	1996
235BG	135	NE	Electricity Substation	1994

236BG	136	NE	Electricity Substation	1986
237BH	149	N	Electricity Substation	1988
238BH	149	N	Electricity Substation	1979
239BH	149	N	Electricity Substation	1993
240BH	149	N	Electricity Substation	1986
241BH	149	N	Electricity Substation	1994
242BH	149	N	Electricity Substation	1996
243BI	177	NE	Electricity Substation	1969
244BI	178	NE	Electricity Substation	1993
245BI	178	NE	Electricity Substation	1988
246BI	178	NE	Electricity Substation	1979
247BI	178	NE	Electricity Substation	1996
248BI	178	NE	Electricity Substation	1994
249BI	178	NE	Electricity Substation	1986
250BJ	215	S	Electricity Substation	1980
251BJ	215	S	Electricity Substation	1988
252BK	223	N	Electricity Substation	1986
253BK	224	N	Electricity Substation	1988
254BK	224	N	Electricity Substation	1979
255BK	224	N	Electricity Substation	1993
256BK	227	N	Electricity Substation	1996
257BK	227	N	Electricity Substation	1994
258BK	228	N	Electricity Substation	1969
259D	230	E	Gas Works	1879
260D	230	E	Gas Works	1879
261D	230	E	Gas Works	1900
262D	230	E	Gas Works	1912
263D	233	SE	Gas Works	1879
264BL	234	SW	Electricity Substation	1971
265BL	236	SW	Electricity Substation	1986
266BL	236	SW	Electricity Substation	1993
267D	253	E	Gasometer	1879
268D	253	E	Gasometer	1879
269D	253	SE	Gasometer	1900
270D	254	E	Gasometer	1879
271BM	259	NW	Electricity Substation	1971
272BM	259	NW	Electricity Substation	1986
273BN	262	E	Electricity Substation	1968
274BN	262	E	Electricity Substation	1988
275BN	263	E	Electricity Substation	1997
276BN	263	E	Electricity Substation	1988
277BN	263	E	Electricity Substation	1979
278D	264	E	Electricity Substation	1968
279D	264	E	Electricity Substation	1979
280E	273	E	Gasometer	1912
281E	273	E	Gasometer	1900

282E	273	E	Gasometer	1879
283E	273	E	Gasometer	1879
284E	275	E	Gasometer	1879
285BO	277	S	Electricity Substation	1988
286BP	284	S	Electricity Substation	1988
287BQ	303	N	Electricity Substation	1993
288BQ	305	N	Electricity Substation	1994
289BQ	305	N	Electricity Substation	1996
290BR	358	SE	Electricity Substation	1988
291F	359	SE	Electricity Substation	1997
292F	361	SE	Electricity Substation	1988
293BS	363	S	Electricity Substation	1996
294BS	363	S	Electricity Substation	1995
295BR	367	SE	Electricity Substation	1979
296BW	377	SE	Electricity Substation	1968
297BR	378	SE	Electricity Substation	1979
298	389	S	Electricity Substation	1969
299	389	NW	Electricity Substation	1971
300BT	395	NW	Electricity Substation	1993
301BT	395	NW	Electricity Substation	1986
302BU	399	N	Electricity Substation	1988
303BU	399	N	Electricity Substation	1993
304BV	400	SE	Electricity Substation	1982
305BU	400	N	Electricity Substation	1994
306BU	400	N	Electricity Substation	1996
307BV	409	SE	Electricity Substation	1982
308BW	413	SE	Electricity Substation	1988
309AU	414	SE	Electricity Substation	1997
310AU	414	SE	Electricity Substation	1988
311BX	421	SE	Electricity Substation	1982
312AT	422	NE	Electricity Substation	1993
313AT	422	NE	Electricity Substation	1979
314AT	422	NE	Electricity Substation	1988
315AT	422	NE	Electricity Substation	1988
316AT	422	NE	Electricity Substation	1986
317BX	422	SE	Electricity Substation	1982
318BX	422	SE	Electricity Substation	1979
319BY	431	NE	Electricity Substation	1979
320BY	431	NE	Electricity Substation	1986
321BY	431	NE	Electricity Substation	1971
322BZ	432	S	Electricity Substation	1991
323BZ	432	S	Electricity Substation	1986
324BZ	434	S	Electricity Substation	1996
325BZ	434	S	Electricity Substation	1995
326BZ	434	S	Electricity Substation	1968
327BZ	435	S	Electricity Substation	1969

328BZ	435	S	Electricity Substation	1972
329CA	438	NE	Electricity Substation	1979
330CA	438	NE	Electricity Substation	1988
331CA	438	NE	Electricity Substation	1988
332CA	438	NE	Electricity Substation	1993
333CA	438	NE	Electricity Substation	1971
334CA	438	NE	Electricity Substation	1986
335CB	443	S	Electricity Substation	1996
336CB	443	S	Electricity Substation	1995
337CB	444	S	Electricity Substation	1972
338CB	445	S	Electricity Substation	1986
339CB	445	S	Electricity Substation	1991
340CC	446	E	Electricity Substation	1988
341CC	448	E	Electricity Substation	1988
342CC	448	E	Electricity Substation	1997
343CD	450	E	Electricity Substation	1988
344CD	451	E	Electricity Substation	1997
345CE	455	E	Electricity Substation	1988
346CE	456	E	Electricity Substation	1997
347CE	458	E	Electricity Substation	1988
348CF	466	SW	Electricity Substation	1993
349CF	466	SW	Electricity Substation	1976
350CF	467	SW	Electricity Substation	1988
351AX	483	W	Electricity Substation	1971
352AX	484	W	Electricity Substation	1986
353AX	484	W	Electricity Substation	1993
354AY	498	E	Electricity Substation	1997

1.4 Additional Information – Historical Petrol and Fuel Site Database

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

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

1

ID	Distance (m)	Direction	Use	Date
355T	391	NE	Filling Station	1979

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

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

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 89

ID	Distance (m)	Direction	Use	Date
356CG	0	On Site	Garage	1958
357CG	0	On Site	Garage	1957
358CG	0	On Site	Garage	1957
359CG	0	On Site	Garage	1962
360CH	98	N	Garage	1957
361CH	98	N	Garage	1962
362CH	99	N	Garage	1957
363CH	99	N	Garage	1958
364CI	109	NW	Car Park and Garage	1994
365CI	109	NW	Car Park and Garage	1996
366CI	110	NW	Multistorey Garage and Car Park	1988
367CI	110	NW	Multistorey Garage and Car Park	1979
368CI	110	NW	Multistorey Garage and Car Park	1993
369CI	110	NW	Car Park and Garage	1986
370CI	117	NW	Car Park and Garage	1969
371	154	NW	Garage	1971
372BH	155	N	Garage	1962
373BH	155	N	Garage	1957
374BH	157	N	Garage	1957
375BH	157	N	Garage	1958
376CJ	191	NE	Garage	1962
377CJ	191	NE	Garage	1957
378CJ	191	NE	Garage	1969
379CJ	192	NE	Garage	1958
380CJ	192	NE	Garage	1957
381CK	198	SW	Garage	1958
382CK	198	SW	Garage	1957
383CK	202	SW	Garage	1962
384CK	202	SW	Garage	1957
385CL	214	S	Garage	1957
386CL	214	S	Garage	1958
387CL	215	S	Garage	1962
388CM	222	N	Garage	1957
389CM	222	N	Garage	1957
390CM	223	N	Garage	1958
391CM	223	N	Garage	1962
392CL	225	S	Garage	1957
393CL	226	S	Garage	1957
394CL	226	S	Garage	1958

395CL	227	S	Garage	1962
396CL	227	S	Garage	1970
397CL	227	S	Garage	1957
398CL	227	S	Garage	1980
399CN	265	N	Garage	1957
400CN	265	N	Garage	1957
401CN	265	N	Garage	1958
402CO	270	N	Garage	1962
403CO	270	N	Garage	1969
404AL	272	N	Garage	1996
405AL	272	N	Garage	1994
406AL	272	N	Garage	1993
407AL	272	N	Garage	1988
408CP	272	S	Garage	1957
409CP	272	S	Garage	1959
410AL	273	N	Garage	1986
411CP	273	S	Garage	1957
412CP	273	S	Garage	1968
413CP	273	S	Garage	1969
414CP	273	S	Garage	1972
415CQ	309	NE	Garage	1962
416CQ	309	NE	Garage	1956
417CQ	309	NE	Garage	1971
418CQ	310	NE	Garage	1957
419CQ	310	NE	Garage	1958
420H	314	S	Depot and Destructor Works	1957
421CR	333	N	Garage	1958
422CR	333	N	Garage	1957
423CR	333	N	Garage	1962
424CR	333	N	Garage	1969
425CR	333	N	Garage	1957
426CS	396	NE	Garage	1971
427BX	410	SE	Garage	1959
428BX	411	SE	Garage	1957
429BX	411	SE	Garage	1957
430CT	420	SE	Police Garage	1968
431CT	421	SE	Police Garage	1979
432CU	426	S	Garage	1957
433CU	426	S	Garage	1969
434CU	431	S	Garage	1972
435	435	N	Garage	1969
436CU	444	S	Garage	1968
437CU	444	S	Garage	1957
438CU	444	S	Garage	1959
439CV	447	E	Garage	1957

440CV	447	E	Garage	1958
441CV	453	E	Garage	1968
442CV	454	E	Garage	1956
443CV	454	E	Garage	1962
444U	456	NW	Agricultural Engineering Works	1971

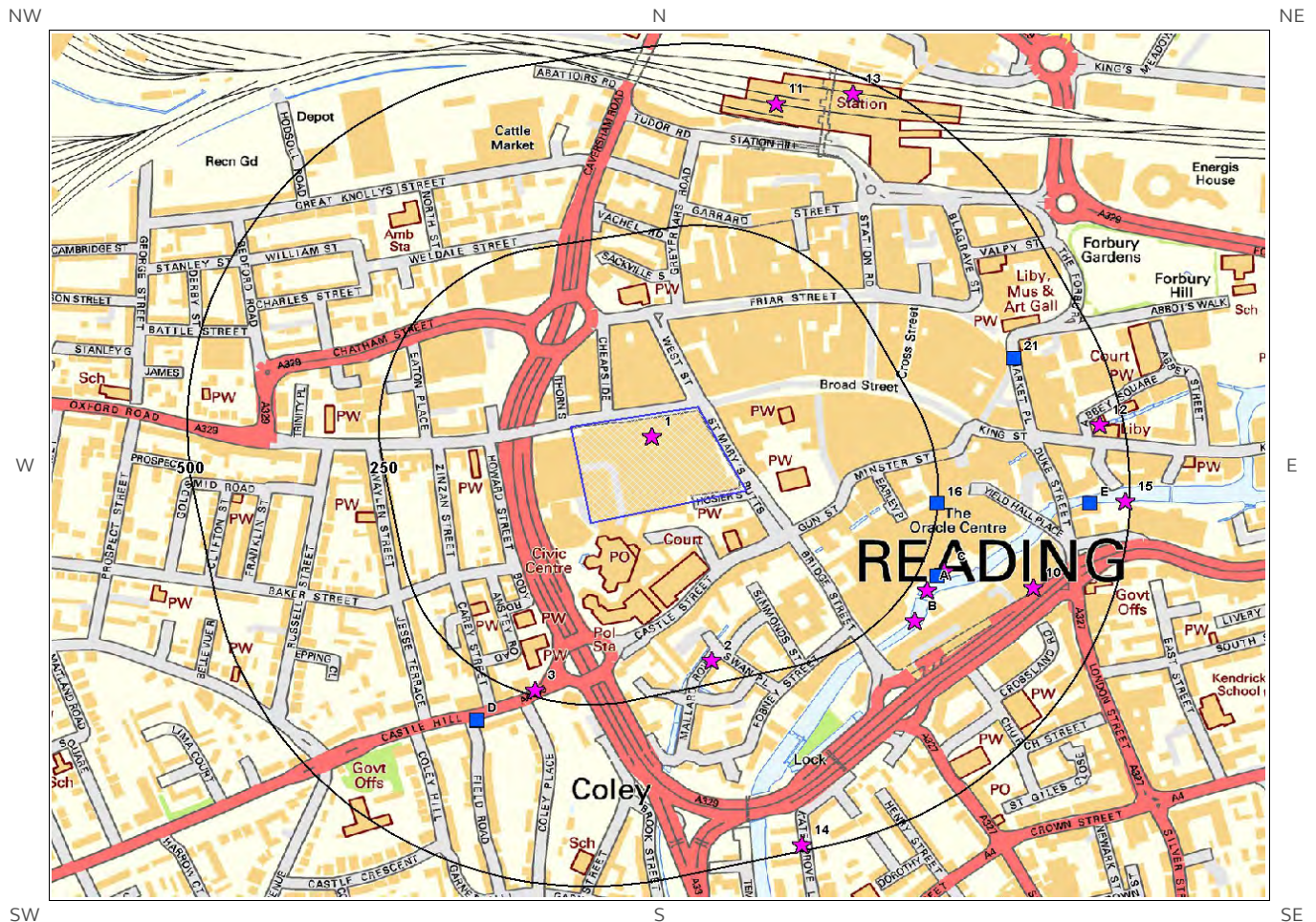
1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 4

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

ID	Distance(m)	Direction	Use	Date
445	261	SE	Canal	1938
446	418	E	Canal	1938
447	419	E	Canal	1933
448CW	500	E	Unspecified Wharf	1938

2. Environmental Permits, Incidents and Registers Map



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2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

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

12

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
16	248	E	471600 173300	Address: 17/23 KING STREET, READING, BERKSHI, 17/23 KING STREET, READING, BERK, SHIRE Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTWC.3315 Permit Version: 1 Receiving Water: HOLY BROOK Status: REVOKED - UNSPECIFIED Issue date: 12/06/1989 Effective Date: 12-Jun-1989 Revocation Date: 27/06/1991
17C	274	SE	471600 173200	Address: 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-Dec-1955 Revocation Date: 12/06/1990
18D	309	SW	471000 173002	Address: 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-Nov-1989 Revocation Date: 31/03/1997
19D	310	SW	471000 173001	Address: 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-Nov-1989 Revocation Date: 02/09/2010
20D	310	SW	471000 173001	Address: 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-Sep-2010 Revocation Date: 13/10/2015
21	392	NE	471700 173500	Address: FACTORY PREMISES, KINGS ROAD, READI, FACTORY PREMISES, KINGS ROAD, RE, ADING, BERKS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0294 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986

ID	Distance (m)	Direction	NGR	Details
22E	448	E	471800 173300	Address: PREMISES, KINGS RD, READING, BERKS, PREMISES, KINGS RD, READING, BER, KS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0299 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986
23E	448	E	471800 173300	Address: PREMISES, KINGS RD, READING, BERKS, PREMISES, KINGS RD, READING, BER, KS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0298 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986
24E	448	E	471800 173300	Address: FACTORY AT READING, BERKS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTR.0508 Permit Version: 1 Receiving Water: KENNET Status: REVOKED - UNSPECIFIED Issue date: 22/03/1962 Effective Date: 22-Mar-1962 Revocation Date: 03/04/1987
25E	448	E	471800 173300	Address: PREMISES, KINGS RD, READING, BERKS, PREMISES, KINGS RD, READING, BER, KS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0297 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986
26E	448	E	471800 173300	Address: PREMISES, KINGS RD, READING, BERKS, PREMISES, KINGS RD, READING, BER, KS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0295 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986
27E	448	E	471800 173300	Address: PREMISES, KINGS RD, READING, BERKS, PREMISES, KINGS RD, READING, BER, KS Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCP.0296 Permit Version: 1 Receiving Water: R KENNET Status: REVOKED - UNSPECIFIED Issue date: 12/02/1964 Effective Date: 12-Feb-1964 Revocation Date: 04/02/1986

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

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

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

15

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
1	0	On Site	471228 173393	Incident Date: 05-Jan-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)
2	219	S	471306 173084	Incident Date: 11-Oct-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)
3	241	S	471075 173044	Incident Date: 29-Aug-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)
4A	272	SE	471587 173181	Incident Date: 04-Oct-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)
5A	272	SE	471587 173181	Incident Date: 04-Oct-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)
6C	280	SE	471609 173207	Incident Date: 19-Aug-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)
7B	282	SE	471570 173139	Incident Date: 17-Aug-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)
8B	282	SE	471570 173139	Incident Date: 17-Aug-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)
9B	282	SE	471570 173139	Incident Date: 17-Aug-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)

ID	Distance (m)	Direction	NGR	Details	
10	396	E	471725 173184	Incident Date: 11-Oct-2003 Incident Identification: 195650 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	429	N	471390 173850	Incident Date: 26-Apr-2002 Incident Identification: 74851 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
12	468	E	471812 173408	Incident Date: 28-Jun-2005 Incident Identification: 324802 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	476	NE	471490 173864	Incident Date: 14-May-2003 Incident Identification: 158358 Pollutant: Oils and Fuel Pollutant Description: Other Oil or Fuel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	492	S	471423 172830	Incident Date: 13-Aug-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)
15	493	E	471845 173303	Incident Date: 18-Jun-2003 Incident Identification: 166999 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

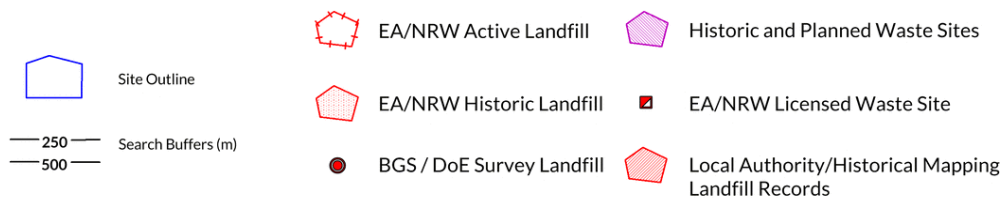
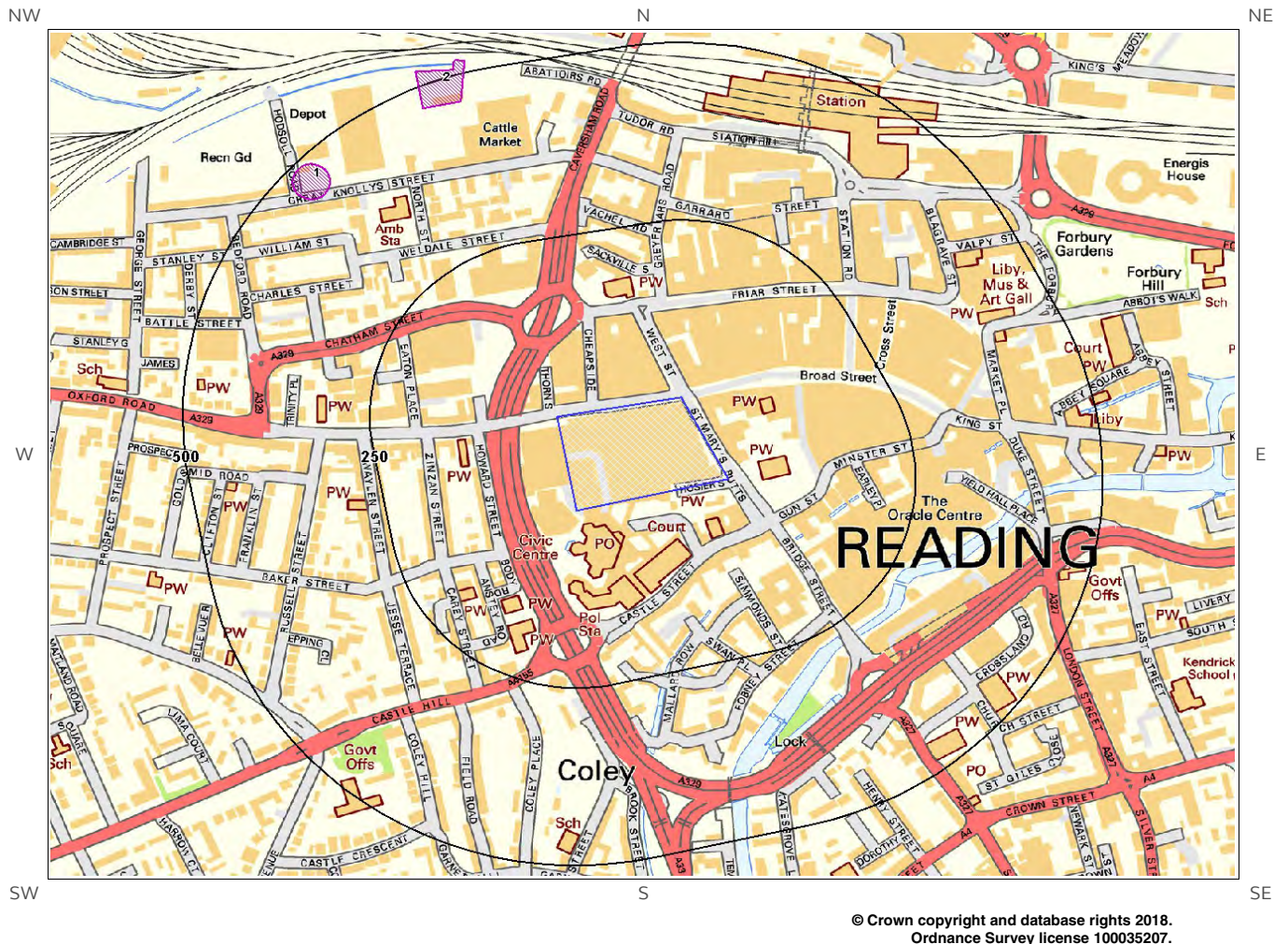
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site

0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

4

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

ID	Distance (m)	Direction	NGR	Details
Not shown	951	NW		Site Address: Cow Lane, Reading, Berkshire Waste Licence: - Site Reference: TP0340, RDG4 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: 31-Dec-1950 Last Recorded: 31-Dec-1959
Not shown	1071	N		Site Address: Richfield Avenue, Reading, Berkshire Waste Licence: - Site Reference: RDG11, TP0122 Waste Type: Commercial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: 31-Dec-1970 Last Recorded: 31-Dec-1979
Not shown	1197	S		Site Address: Waterloo Meadows, Reading, Berkshire Waste Licence: - Site Reference: TP0154, RDG8 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	1456	E		Site Address: Napier Road, Reading, Berkshire Waste Licence: - Site Reference: TP0266, RDG3 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -

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

0

Database searched and no data found.

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

0

Database searched and no data found.

3.2 Other Waste Sites

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

2

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

ID	Distance (m)	Direction	NGR	Details		
1	441	NW	470794 173736	Type of Site: Surface Car Park/Waste Station Site Address: Great Knollys Street, Hodsoll Road, READING, Berkshire, RG1 7HP	Planning Application Reference: 96/0097/R3/NJP Date: 01/09/1996	Further Details: Relocation of a public car park and civic amenity recycling centre with associated landscaping. Relocation of a public car park and civic amenity recycling centre with associated landscaping. Detailed plans approved 29th May, 1996. An application (ref: 96/0097/R3/NJP) for Detailed Planning permission was submitted to Reading B.C. on 14th February 1996. Data Source: Historic Planning Application Data Type: Point
2	462	N	470967 173873	Type of Site: Refuse Yard Site Address: N/A	Planning Application Reference: N/A Date: 1879	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

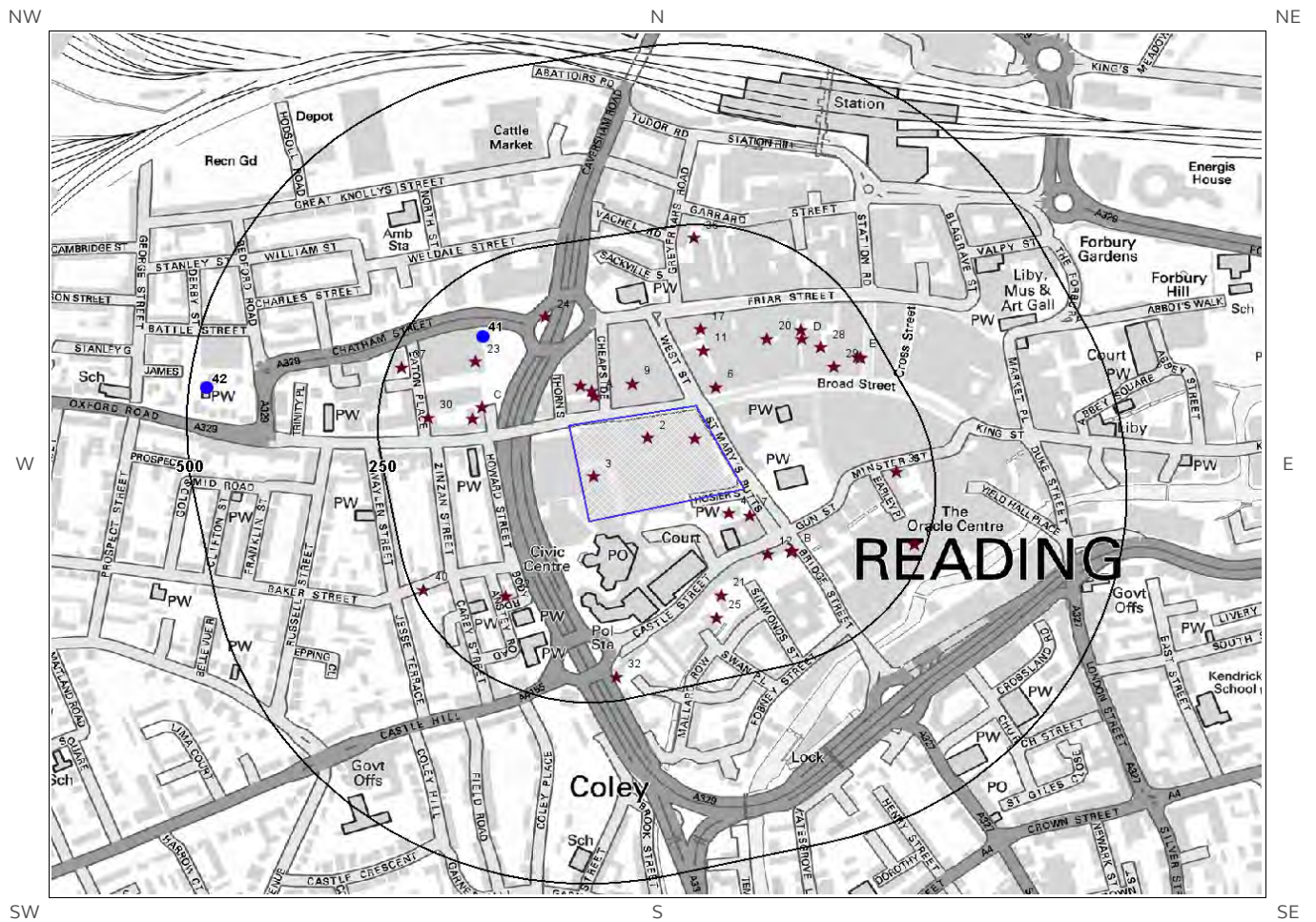
9

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

ID	Distance (m)	Direction	NGR	Details
Not shown	749	W	470400 173600	Site Address: E.G.W Carter, 54, Gower Street, Reading, Berkshire, RG1 7PE Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAR001 EPR reference: EA/EPR/LP3699EF/S004 Operator: E G W Carter Waste Management licence No: 86001 Annual Tonnage: 9322.0 Issue Date: 19/03/1996 Effective Date: - Modified: - Surrendered Date: 23/07/1999 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: E G W Carter Correspondence Address: -
Not shown	985	NW	470497 174166	Site Address: 128, Cardiff Road, Reading, Berkshire, RG1 8PQ Type: 75kte Materials Recycling Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCO003 EPR reference: EP3893VZ/A001 Operator: M Collard Waste Management Services Ltd Waste Management licence No: 101199 Annual Tonnage: 0.0 Issue Date: 11/02/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: M Collard Waste Management Services Ltd Correspondence Address: -
Not shown	989	NW	470500 174174	Site Address: 128, Cardiff Road, Reading, Berkshire, RG1 8PQ Type: 75kte HCl Waste TS + treatment Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RCO001 EPR reference: EA/EPR/EB3500KB/T001 Operator: R Collard Limited Waste Management licence No: 101199 Annual Tonnage: 74999.0 Issue Date: 11/02/2010 Effective Date: 11/10/2016 Modified: 09/07/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: R Collard Limited Correspondence Address: -
Not shown	989	NW	470500 174174	Site Address: 128, Cardiff Road, Reading, Berkshire, RG1 8PQ Type: 75kte HCl Waste TS + treatment Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCO003 EPR reference: EA/EPR/EP3893VZ/V002 Operator: M Collard Waste Management Services Ltd Waste Management licence No: 101199 Annual Tonnage: 74999.0 Issue Date: 11/02/2010 Effective Date: - Modified: 09/07/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: M Collard Waste Management Services Ltd Correspondence Address: -
Not shown	1004	NW	470200 173800	Site Address: Elliot Metal Company Ltd, 3, Loverock Road, Battle Farm Indus Est, Reading, Berkshire, RG3 1NL Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: EA/EPR/LP3199EB/V005 Operator: Sims Group Uk Limited Waste Management licence No: 86002 Annual Tonnage: 74999.0 Issue Date: 06/04/1993 Effective Date: 27/04/2002 Modified: 20/04/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Sims Group U K Ltd Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
Not shown	1004	NW	470200 173800	Site Address: Elliot Metal Company Ltd, 3, Loverock Road, Battle Farm Indus Est, Reading, Berkshire, RG3 1NL Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: EA/EPR/LP3199EB/V006 Operator: Sims Group U K Ltd Waste Management licence No: 86002 Annual Tonnage: 74999.0 Issue Date: 06/04/1993 Effective Date: 27/04/2002 Modified: 27/08/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Sims Group U K Ltd Correspondence Address: -
Not shown	1004	NW	470200 173800	Site Address: Elliot Metal Company Ltd, 3, Loverock Road, Battle Farm Indus Est, Reading, RG3 1NL Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIM001 EPR reference: - Operator: Simsmetal Uk Limited Waste Management licence No: 86002 Annual Tonnage: 4999.0 Issue Date: 06/04/1993 Effective Date: 27/04/2002 Modified: 26/04/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Simsmetal U K Limited Correspondence Address: 4, The Uplands, Nailsea, Somerset, BS48 4RR
Not shown	1004	NW	470200 173800	Site Address: Elliot Metal Company Ltd, 3, Loverock Road, Battle Farm Indus Est, Reading, Berkshire, RG3 1NL Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PAR197 EPR reference: EA/EPR/CB3909KB/S002 Operator: Parsons Metal Recycling Limited Waste Management licence No: 86002 Annual Tonnage: 0.0 Issue Date: 06/04/1993 Effective Date: 26/06/2015 Modified: 27/08/2014 Surrendered Date: 08/03/2016 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Parsons Metal Recycling Limited Correspondence Address: -
Not shown	1040	E	472390 173390	Site Address: Omega Park, Alton, Hampshire, GU34 2QE Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOP003 EPR reference: - Operator: Hopkins Recycling Ltd Waste Management licence No: 83406 Annual Tonnage: 4910.0 Issue Date: 15/10/2002 Effective Date: - Modified: 17/12/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Alton House Waste Recycling Centre Correspondence Address: Hopkins Recycling Limited, Unit 10, Bridge Farm, Curbridge, Botley, Southampton, Hampshire, SO30 2HB

4. Current Land Use Map



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- | | | | | | |
|---|--------------------|---|--------------------------|--|---------------------------------|
|  | Site Outline |  | Current Industrial Sites |  | Electricity Transmission Cables |
|  | Search Buffers (m) |  | Petrol & Fuel Sites |  | Gas Transmission Pipelines |

4. Current Land Uses

4.1 Current Industrial Data

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

40

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	0	On Site	Samsung Reading	471287 173388	14, Broad Street Mall, Reading, RG1 7QE	Electrical Equipment Repair and Servicing	Repair and Servicing
2	0	On Site	Hidden Hearing	471225 173389	19, Oxford Road, Reading, RG1 7QG	Disability and Mobility Equipment	Consumer Products
3	0	On Site	Reading Business Centre	471154 173335	Fountain House 2, Queens Walk, Reading, RG1 7QF	Business Parks and Industrial Estates	Industrial Features
4	28	S	Electricity Sub Station	471332 173285	RG1	Electrical Features	Infrastructure and Facilities
5A	35	N	Amplifon	471156 173446	7, Cheapside, Reading, RG1 7AQ	Disability and Mobility Equipment	Consumer Products
6	36	NE	Boots Hearing Care	471314 173458	70-72, Broad Street, Reading, RG1 2AF	Disability and Mobility Equipment	Consumer Products
7	37	S	Kall Kwik Printing	471358 173282	32, St. Marys Butts, Reading, RG1 2LS	Published Goods	Industrial Products
8A	43	N	UTP Merchant Services Ltd	471152 173453	Zenith House, Cheapside, Reading, RG1 7AQ	Office and Shop Equipment	Industrial Products
9	45	N	Electricity Sub Station	471205 173464	RG1	Electrical Features	Infrastructure and Facilities
10A	53	N	Amplivox Ultratone	471137 173461	Unit 2 7 Cheapside, Reading, RG1 7AQ	Disability and Mobility Equipment	Consumer Products
11	78	N	Electricity Sub Station	471298 173510	RG1	Electrical Features	Infrastructure and Facilities
12	94	S	Waste King	471382 173228	7, Castle Street, Reading, RG1 7SB	Construction and Tool Hire	Hire Services
13B	105	SE	Bracknell News Series	471414 173233	Bowman House, 2-10 Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
14B	105	SE	Berkshire Media Group	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
15B	105	SE	Wokingham News	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
16B	105	SE	Midweek Observer	471413 173232	2-10, Bridge Street, Reading, RG1 2LU	Published Goods	Industrial Products
17	107	N	Electricity Sub Station	471295 173539	RG1	Electrical Features	Infrastructure and Facilities
18C	117	W	Electricity Sub Station	471009 173431	RG1	Electrical Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
19C	127	W	Minuteman Press	470996 173415	82, Oxford Road, Reading, RG1 7LJ	Published Goods	Industrial Products
20	131	NE	Electricity Sub Station	471381 173526	RG1	Electrical Features	Infrastructure and Facilities
21	136	S	Tank	471322 173172	RG1	Tanks (Generic)	Industrial Features
22	150	SW	Lowfare Transport	471040 173169	12, Body Road, Reading, RG1 7JP	Vehicle Hire and Rental	Hire Services
23	151	NW	24k Gold Plated Ltd	471000 173494	Flat 3 Hayward, Chatham Place, Reading, RG1 7AZ	Jewellery, Gems, Clocks and Watches	Consumer Products
24	154	N	Electricity Sub Station	471092 173556	RG1	Electrical Features	Infrastructure and Facilities
25	165	S	Electricity Sub Station	471316 173141	RG1	Electrical Features	Infrastructure and Facilities
26D	166	NE	A & Z Mobiles UK Ltd	471427 173525	17, Union Street, Reading, RG1 1EU	Electrical Equipment Repair and Servicing	Repair and Servicing
27D	172	NE	Sanbei Phoneshop	471426 173538	14, Union Street, Reading, RG1 1EU	Radar and Telecommunications Equipment	Industrial Products
28	182	NE	Electricity Sub Station	471452 173514	RG1	Electrical Features	Infrastructure and Facilities
29	183	NE	Specsavers Hearcare	471468 173487	41-43, Broad Street, Reading, RG1 2AA	Disability and Mobility Equipment	Consumer Products
30	184	W	Reading Carpentry Services Ltd	470938 173416	1a, Eaton Place, Reading, RG1 7LP	General Construction Supplies	Industrial Products
31	200	E	carvalet.co.uk	471550 173342	41, Minster Street, Reading, RG1 2JB	Vehicle Cleaning Services	Personal, Consumer and Other Services
32	217	S	Electricity Sub Station	471185 173059	RG1	Electrical Features	Infrastructure and Facilities
33E	217	NE	Q V Offices	471500 173501	25-27, Queen Victoria Street, Reading, RG1 1SY	Business Parks and Industrial Estates	Industrial Features
34E	220	NE	Formscan	471503 173499	25-27, Queen Victoria Street, Reading, RG1 1SY	Printing Related Machinery	Industrial Products
35E	220	NE	Carvenient Club	471503 173499	25-27, Queen Victoria Street, Reading, RG1 1SY	Vehicle Hire and Rental	Hire Services
36	233	N	Electricity Sub Station	471286 173665	RG1	Electrical Features	Infrastructure and Facilities
37	234	W	UK Tyres & Garage	470903 173486	Eaton Place, City Centre, Reading, RG1 7LP	Vehicle Repair, Testing and Servicing	Repair and Servicing
38F	235	E	The Car Wash Co	471574 173242	Management Suite Riverside Level, The Oracle Centre, Reading, RG1 2AG	Vehicle Cleaning Services	Personal, Consumer and Other Services
39F	235	E	Boots Hearing Care	471574 173242	Unit 5 Upper Ground Level, The Oracle Centre, Reading, RG1 2AH	Disability and Mobility Equipment	Consumer Products
40	237	SW	Electricity Sub Station	470932 173179	RG1	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

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

2

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

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
41	167	NW	471010 173528	Obsolete	Welldale Service Station, Chatham Street, Chatham Street, Reading, Reading, RG1 7JF	Not Applicable	Obsolete
42	477	W	470649 173457	Obsolete	Parsons Garage, 211-221, Oxford Road, Oxford Road, Reading, Reading, RG1 7PX	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

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

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

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

0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

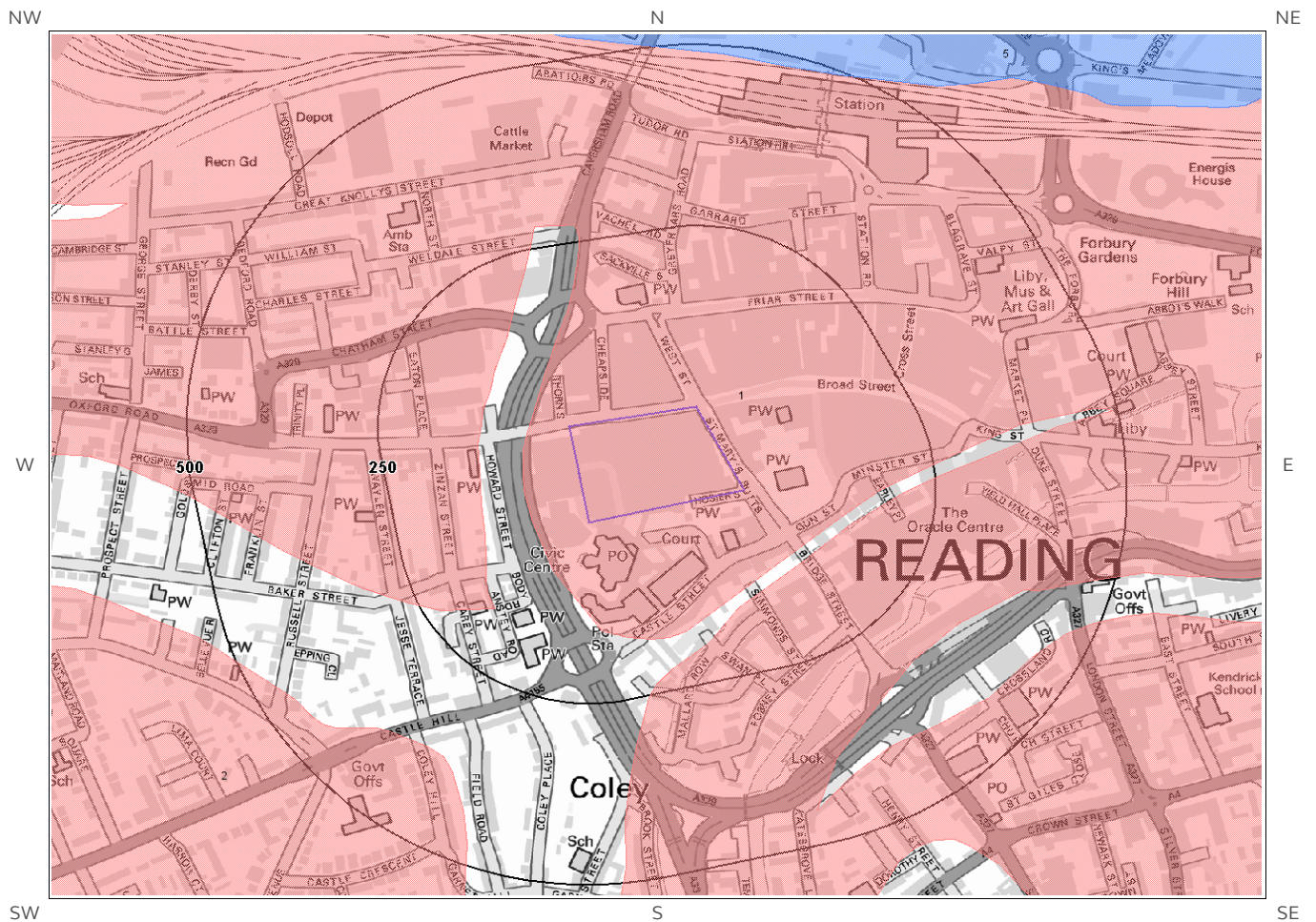
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED)	CHALK

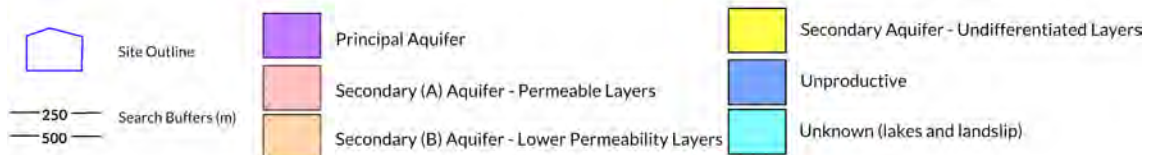
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

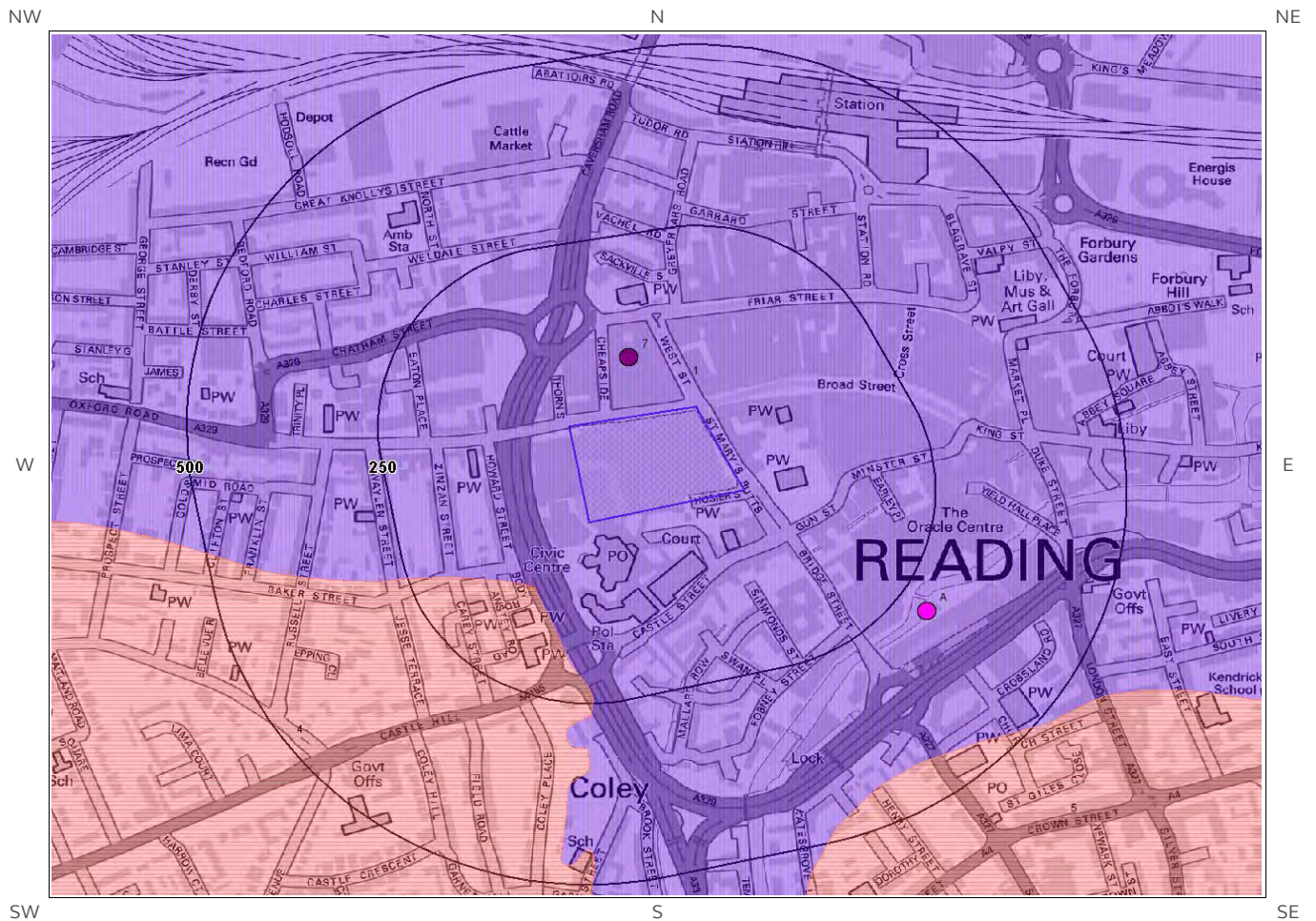
6a. Aquifer Within Superficial Geology



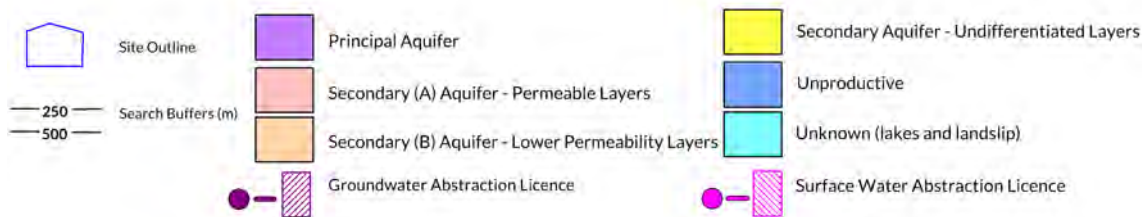
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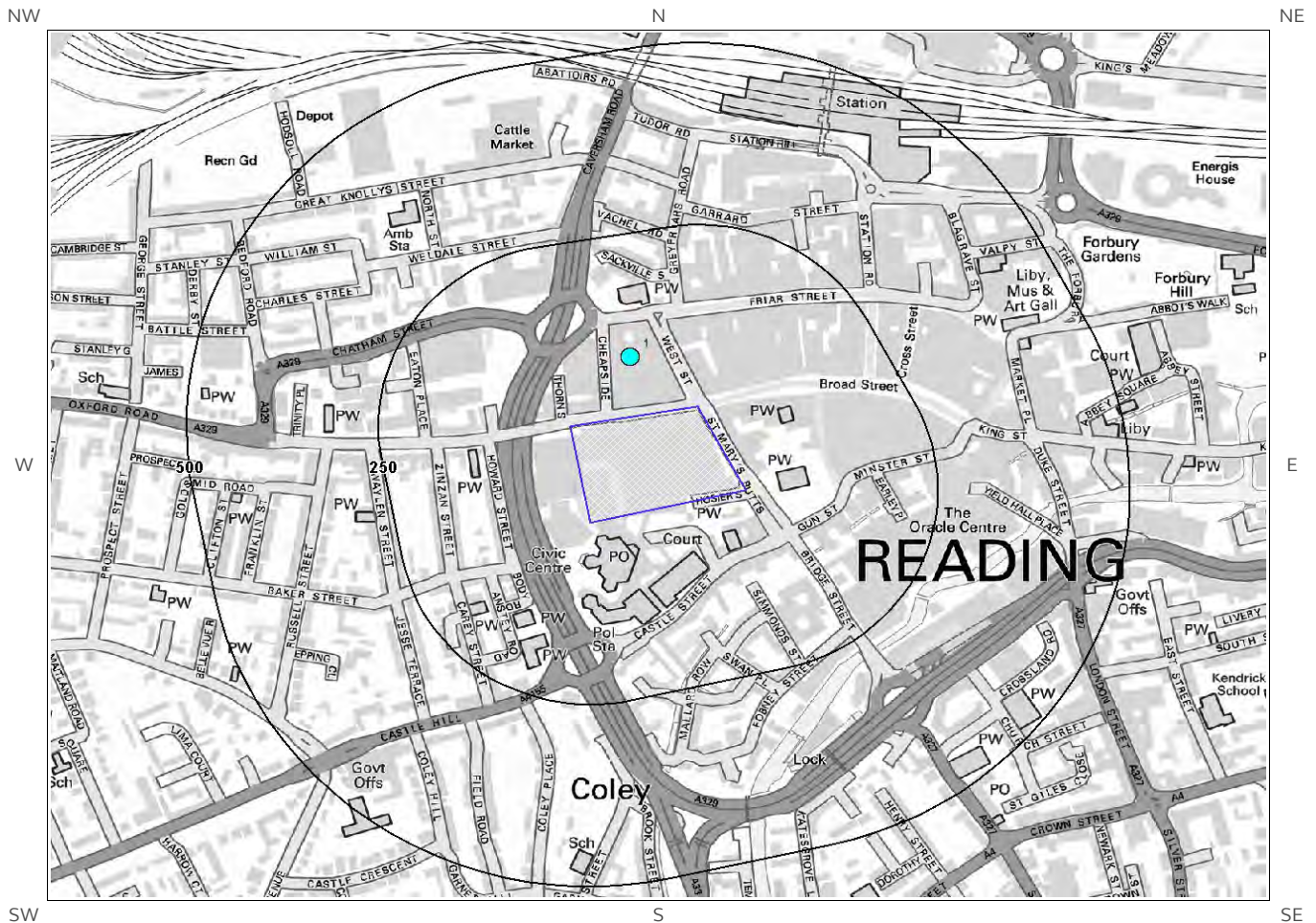
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



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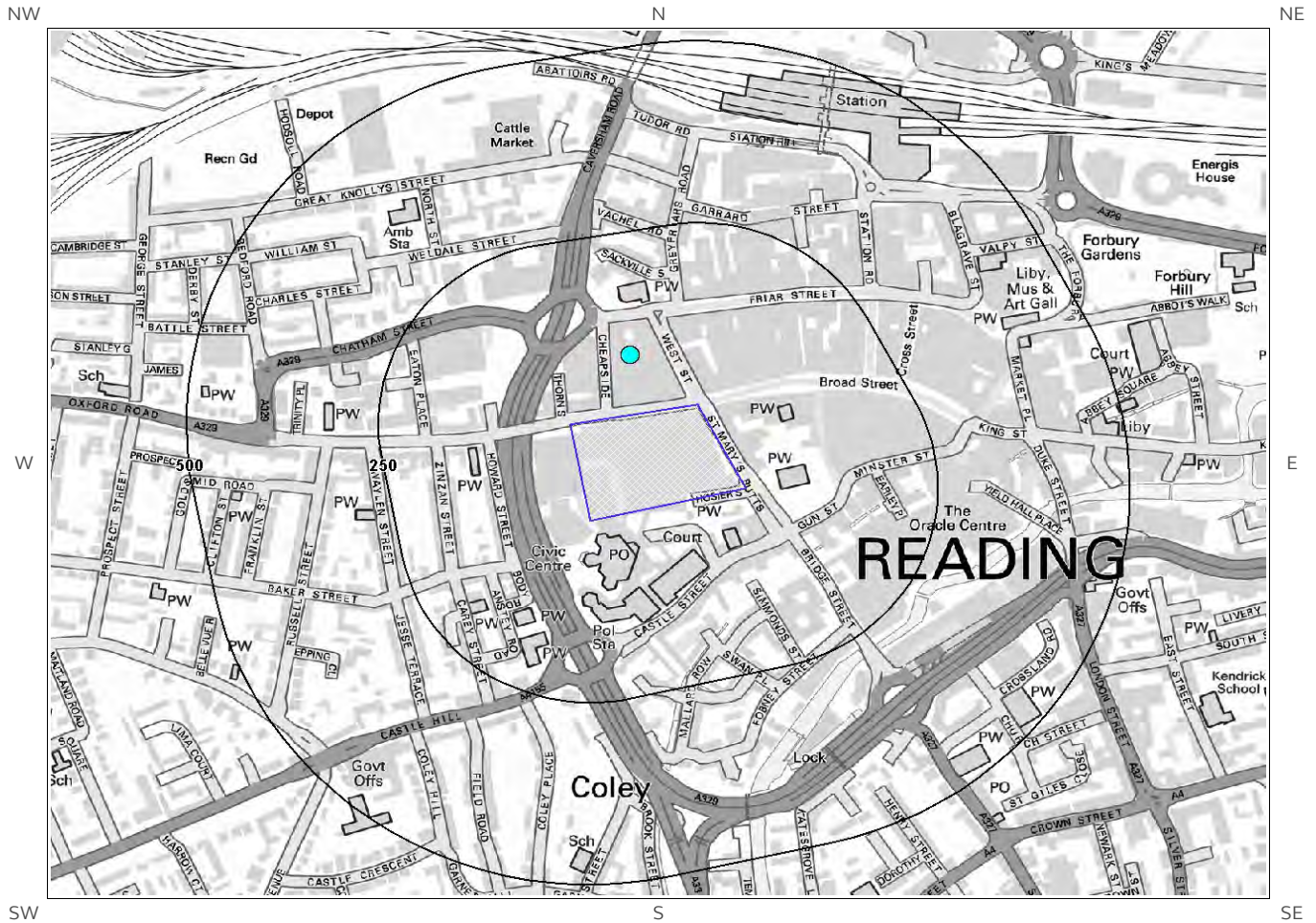


6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

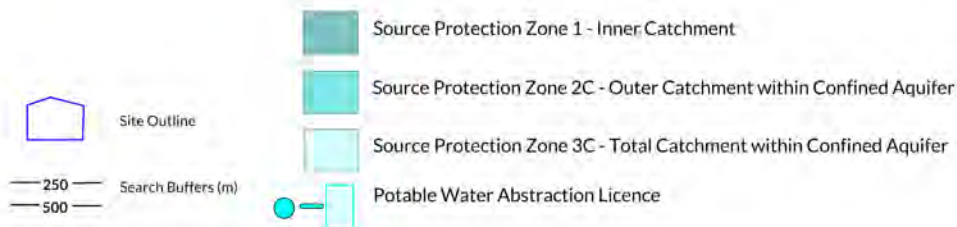


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6d. Hydrogeology – Source Protection Zones within confined aquifer



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

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

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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
2	375	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
5	484	N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

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

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

ID	Distance (m)	Direction	Designation	Description
1	0	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
4	116	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
5	440	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

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
7	81	N	471200 173500	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 Annual Volume (m³): 14933 Max Daily Volume (m³): 40.91 Original Application No: - Original Start Date: 11/7/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/4/2008 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/6/2006 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/6/2006 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/7/1966 Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/7/1966 Version End Date:
Not shown	792	NW	470600 174000	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 Annual Volume (m³): 6682 Max Daily Volume (m³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/1/1975 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1002	NW	470400 174100	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 Annual Volume (m³): 6682 Max Daily Volume (m³): 27.28 Original Application No: WR.A/4547 Original Start Date: 22/1/1975 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:
Not shown	1144	NE	471900 174400	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: Berendsen UK Limited Annual Volume (m³): 68190 Max Daily Volume (m³): 300.04 Original Application No: NPS/WR/021020 Original Start Date: 9/5/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/1/2016 Version End Date:
Not shown	1169	SE	472400 172800	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 Annual Volume (m³): 127750 Max Daily Volume (m³): 350 Original Application No: WRA/5950 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/1/1992 Version End Date:
Not shown	1359	NW	470100 174300	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1377	E	472700 173600	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WRW/A/1061 Original Start Date: 31/7/2000 Expiry Date: 31/08/2001 Issue No: 1 Version Start Date: 31/7/2000 Version End Date:
Not shown	1412	W	469800 173900	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 Annual Volume (m³): 136875 Max Daily Volume (m³): 400 Original Application No: WRA/5942 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: 7/1/1999 Version End Date:
Not shown	1573	NW	470100 174600	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1736	NW	469700 174400	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1736	NW	469700 174400	Status: Active Licence No: 28/39/23/0070 Details: General Farming & Domestic Direct Source: Thames Groundwater Point: Little John's Farm, Reading (b) Data Type: Point Name: DRAYTON Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:
Not shown	1807	NW	469500 174200	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 Annual Volume (m³): 9819 Max Daily Volume (m³): 26.82 Original Application No: WR.A/3088 Original Start Date: 9/1/1967 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1967 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
23A	291	SE	471590 173150	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 Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 16/2/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/2/2000 Version End Date:
24A	291	SE	471590 173150	Status: Active 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 Annual Volume (m³): 737856 Max Daily Volume (m³): 2016 Application No: - Original Start Date: 16/2/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/2/2000 Version End Date:
Not shown	1029	N	471440 174450	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 Annual Volume (m³): - Max Daily Volume (m³): - Application No: WRW/A/1115 Original Start Date: 12/5/2003 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 12/5/2003 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1029	N	471440 174450	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 Annual Volume (m³): 1752000 Max Daily Volume (m³): 4800 Application No: WRW/A/1218 Original Start Date: 10/9/2008 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 10/9/2008 Version End Date:
Not shown	1029	N	471440 174450	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 Annual Volume (m³): 31536 Max Daily Volume (m³): 86.4 Application No: WRW/A/1115 Original Start Date: 12/5/2003 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 1/4/2006 Version End Date:
Not shown	1086	NE	472072 174185	Status: Active 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: The Reading Sustainability Centre CIC Annual Volume (m³): 0 Max Daily Volume (m³): 0 Application No: NPS/WR/020629 Original Start Date: 19/2/2016 Expiry Date: 31/3/2028 Issue No: 1 Version Start Date: 19/2/2016 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details
1	81	N	471200 173500	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 Annual Volume (m³): 14933 Max Daily Volume (m³): 40.91 Original Application No: - Original Start Date: 11/7/1966 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.A/1988 Original Start Date: 11/7/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date:
Not shown	729	N	470900 174100	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 Annual Volume (m³): 90920 Max Daily Volume (m³): 727.4 Original Application No: - Original Start Date: 23/1/1990 Expiry Date: - Issue No: 101 Version Start Date: - Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1169	SE	472400 172800	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 Annual Volume (m³): 127750 Max Daily Volume (m³): 350 Original Application No: WRA/5950 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1412	W	469800 173900	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 Annual Volume (m³): 136875 Max Daily Volume (m³): 400 Original Application No: WRA/5942 Original Start Date: 17/1/1992 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

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

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.
153	S	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
391	SE	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
35	499	S	471351 172807	River Name: Kennet Reach: Foudry Brook - Holy Brook End/Start of Stretch: Sample Point NGR	B	A	A	A	A
36A	679	E	472020 173440	River Name: Kennet Reach: Holy Brook - Thames End/Start of Stretch: Start of Stretch NGR	B	A	A	A	A
37A	679	E	472020 173440	River Name: Kennet Reach: Foudry Brook - Holy Brook End/Start of Stretch: End of Stretch NGR	B	A	A	A	A
Not shown	1049	NE	472135 174053	River Name: Thames Reach: Whitchurch Stw - Kennet End/Start of Stretch: Sample Point NGR	A	A	A	A	A

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/Direction	Name	Type of Watercourse	Additional Details
1	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
2	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.0
47	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
48	122 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.0
3	124 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
49	124 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
4	131 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.7
50	131 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.7
5	132 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
51	132 SE	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	143 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.3
52	143 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.3
7	160 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
53	160 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
8	163 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.3
54	163 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.3
9	173 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
55	173 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
10	175 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.4
56	175 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.4
11	191 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
57	191 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
12	197 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
58	197 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.9
13	240 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.1
14	240 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.8
59	240 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.1
60	240 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.8
15	241 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
61	241 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
16	257 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
62	257 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
17	264 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
63	264 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9
18	272 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 16.0
64	272 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 16.0
19	273 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.9
65	273 SE	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.9
20	282 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
66	282 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
21	334 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.2
Not shown	334 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 13.2
22	336 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 18.6
Not shown	336 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 18.6
23	337 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.0
Not shown	337 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 5.0
24	339 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9
Not shown	339 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 6.9

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
25	343 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
Not shown	343 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 2.6
26	353 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	353 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
27	367 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	367 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
28	375 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 12.2
29	375 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 17.3
Not shown	375 S	River Kennet Alternative Name: -	Canal. A manmade watercourse for inland navigation.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 12.2
Not shown	375 S	River Kennet Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 17.3
30	422 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 8.4
Not shown	422 S	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 8.4
31	453 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
Not shown	453 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
32	455 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
Not shown	455 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
33	476 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.8
Not shown	476 E	Holy Brook Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.8
34	499 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	499 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Thames Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

Surface water features within 250m of the study site

Identified

The following surface water records are not represented on mapping:

Distance (m)	Direction
196	S
227	S
244	S
248	S

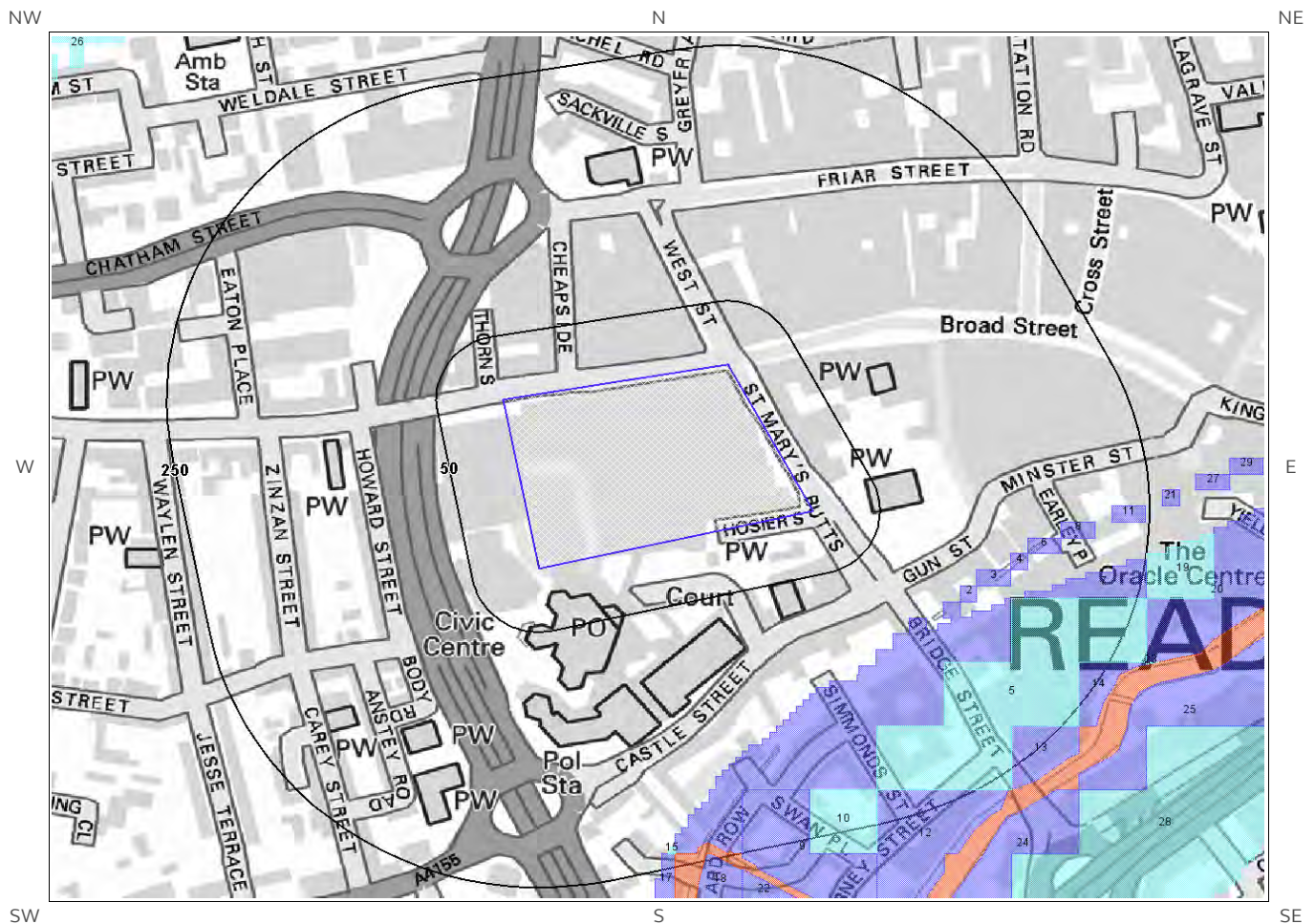
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



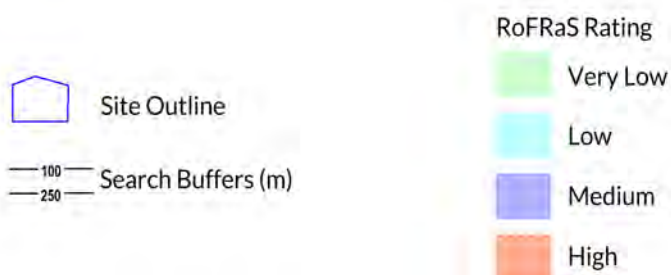
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	110	SE	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
2E	124	SE	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
3H	130	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
4I	150	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
5	161	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
6L	184	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)
7N	222	E	29-May-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

Identified

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

ID	Distance (m)	Direction	Update	Type
1	110	SE	30-May-2018	Zone 3 - (Fluvial Models)
2E	113	SE	30-May-2018	Zone 3 - (Fluvial Models)
3H	118	SE	30-May-2018	Zone 3 - (Fluvial Models)
4I	120	SE	30-May-2018	Zone 3 - (Fluvial Models)
5	124	SE	30-May-2018	Zone 3 - (Fluvial Models)

6L	126	S	30-May-2018	Zone 3 - (Fluvial Models)
7N	130	E	30-May-2018	Zone 3 - (Fluvial Models)
	135	S	30-May-2018	Zone 3 - (Fluvial Models)
	145	S	30-May-2018	Zone 3 - (Fluvial Models)
	150	E	30-May-2018	Zone 3 - (Fluvial Models)
	154	S	30-May-2018	Zone 3 - (Fluvial Models)
	161	E	30-May-2018	Zone 3 - (Fluvial Models)
	164	S	30-May-2018	Zone 3 - (Fluvial Models)
	173	S	30-May-2018	Zone 3 - (Fluvial Models)
	180	S	30-May-2018	Zone 3 - (Fluvial Models)
	184	E	30-May-2018	Zone 3 - (Fluvial Models)
	202	S	30-May-2018	Zone 3 - (Fluvial Models)
	211	S	30-May-2018	Zone 3 - (Fluvial Models)
	222	E	30-May-2018	Zone 3 - (Fluvial Models)
	233	S	30-May-2018	Zone 3 - (Fluvial Models)
	241	SE	30-May-2018	Zone 3 - (Fluvial Models)

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

Highest risk of flooding onsite

Very Low

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

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

7.4 Flood Defences

Flood Defences within 250m of the study site

None identified

Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site

None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site

None identified

7.7 Groundwater Flooding Susceptibility Areas

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

Identified

Clearwater Flooding or Superficial Deposits Flooding

Clearwater Flooding

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

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

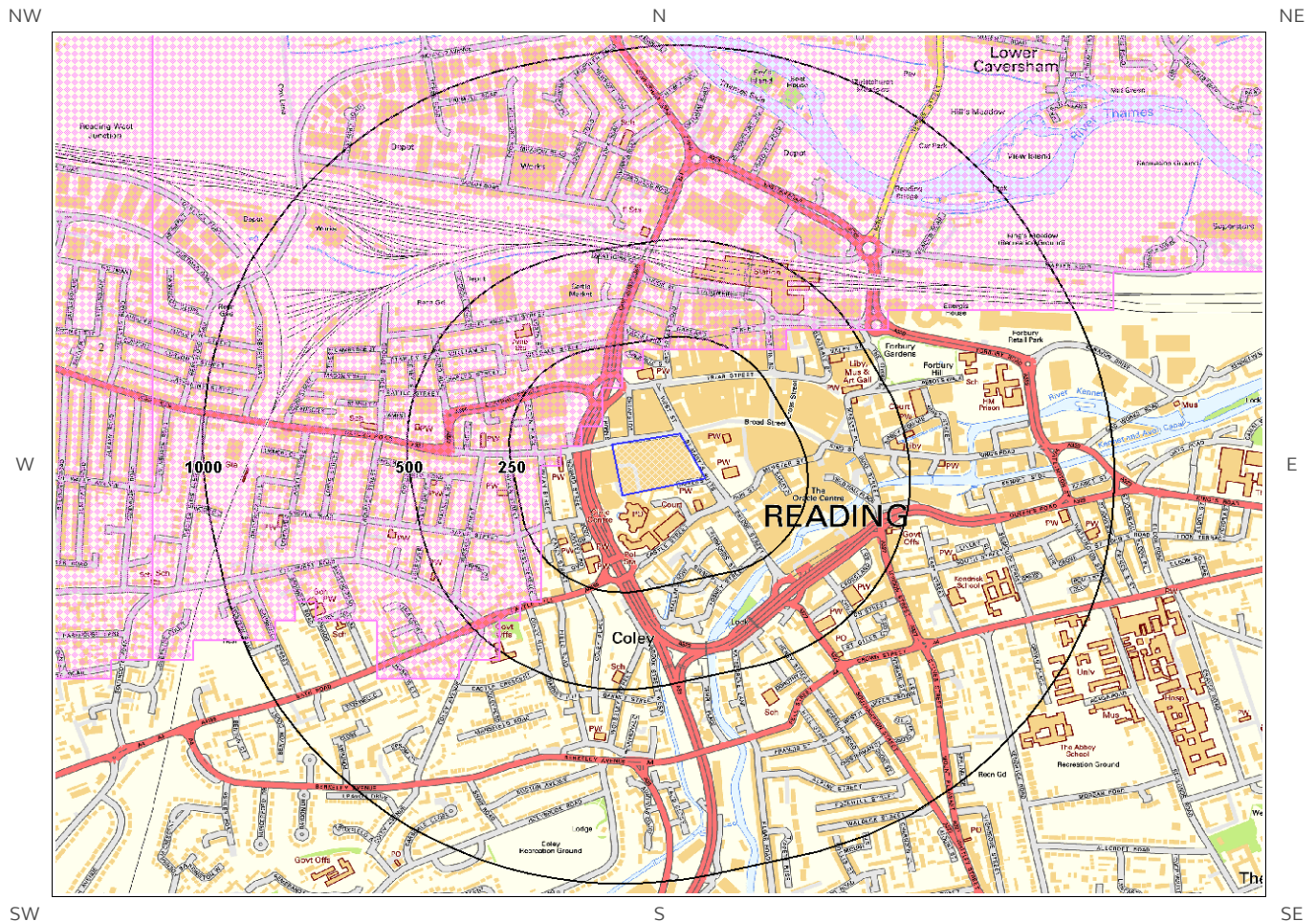
British Geological Survey confidence rating in this result

High

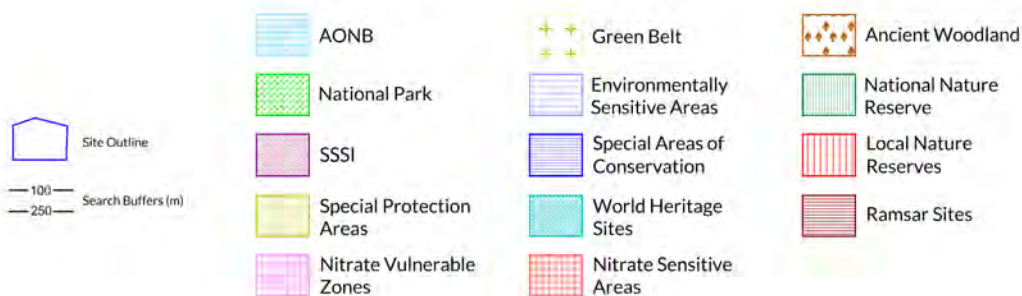
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified
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8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

3

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
1	50	NW	Existing	DEFRA
2	1123	W	Existing	DEFRA
Not shown	1858	E	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

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

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Negligible

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

Hazard
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Very Low

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

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

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site High

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

Hazard
Very significant soluble rocks are present, with a high possibility of localised subsidence occurring naturally or in adverse conditions such as high surface or subsurface water flow. Obtain specialist advice to advise on need for stabilisation work and/or land management plan to maintain stability. Do not dispose of drainage into the ground. For new build a specialist land stability assessment is necessary. Investigation, remediation and/or mitigation works may be necessary to stabilise the area. Construction work may cause subsidence. Surface drainage must not affect the karst system or groundwater. Increased construction costs are likely. For existing property increase in insurance risk due to potential soluble rocks hazards. Potential of groundwater pollution.

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

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site Negligible

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

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

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site Very Low

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

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

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site Very Low

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

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

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

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

None identified

Database searched and no data found.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

Identified

The following non-coal mining information is provided by the BGS:

Distance (m)	Direction	Name	Commodity	Assessment of likelihood
0.0	On Site	Not available	Chalk	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

Past underground mine workings may occur. The rock types present in these areas are such that small mineral veins may be present on which it is possible that small scale mining has been undertaken and/or it is possible that limited underground extraction of other materials may have occurred. All such occurrences are likely to be of minor localised extent and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.