

Ref: JOMAS-8446056 **Your ref**: P4134JJ2485-1 **Grid ref**: 514772 174269

Location	Hazard rating	Details
41m E	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Date: 13 January 2022



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m 2

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 97

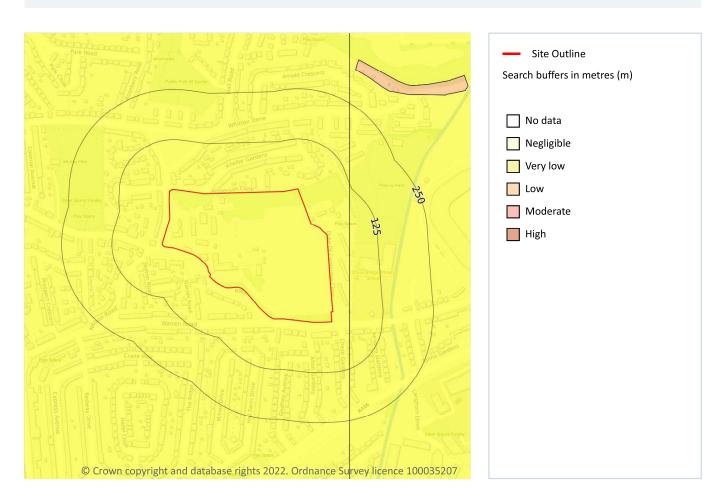
Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
41m E	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.





Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m 2

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

Features are displayed on the Natural ground subsidence - Landslides map on page 98

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





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Location	Hazard rating	Details
41m E	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

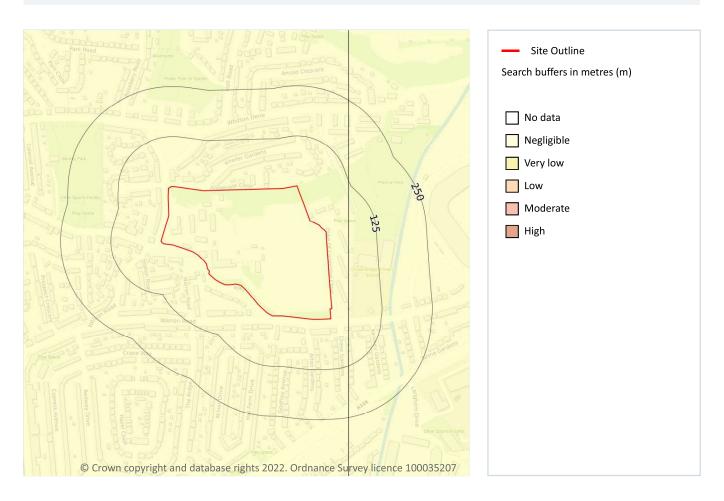
This data is sourced from the British Geological Survey.



Date: 13 January 2022



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m 2

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 100**

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



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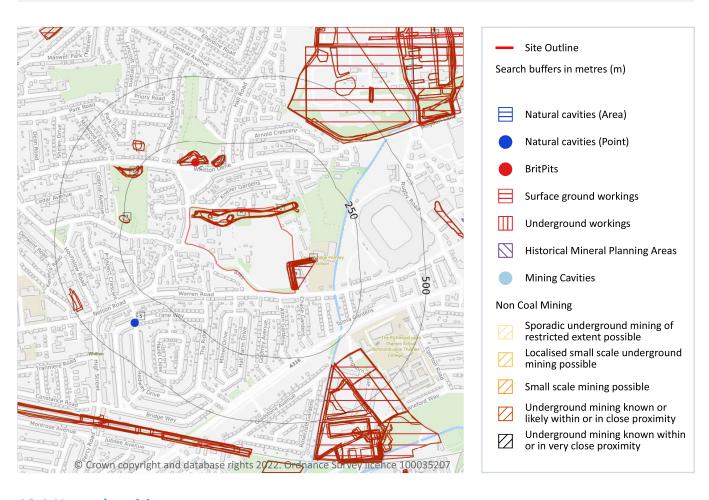
Location	Hazard rating	Details
41m E	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.





18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m 1

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

Features are displayed on the Mining, ground workings and natural cavities map on page 102



Ref: JOMAS-8446056 Your ref: P4134JJ2485-1 Grid ref: 514772 174269

ID	Location	Details	Source
5	363m SW	Type: Scour Hollows x 1 Superficial Geology: - Bedrock Geology: Chalk Group, Lambeth Group, London Clay Formation, Thanet Sand Formation	Simple Bibliography: - Full Bibliography: NEWMAN, T., The impact of adverse geological conditions on the design and construction of the Thames Water Ring Main in Greater London, 2009; Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m 1

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

Features are displayed on the Mining, ground workings and natural cavities map on page 102

ID	Location	Details	Description
С	170m N	Name: Whitton Dean Gravel Pit Address: TWICKENHAM, Surrey Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m 40

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

Features are displayed on the Mining, ground workings and natural cavities map on page 102

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Ponds	1865	1:10560
Α	On site	Pond	1959	1:10560
Α	On site	Pond	1938	1:10560



Ref: JOMAS-8446056 **Your ref**: P4134JJ2485-1 **Grid ref**: 514772 174269

ID	Location	Land Use	Year of mapping	Mapping scale
Α	On site	Pond	1912	1:10560
Α	On site	Water Body	1938	1:10560
Α	On site	Water Body	1912	1:10560
Α	On site	Water Body	1894	1:10560
Α	On site	Water Body	1933	1:10560
Α	On site	Water Body	1894	1:10560
Α	On site	Pond	1896	1:10560
Α	On site	Pond	1898	1:10560
В	On site	Unspecified Pit	1894	1:10560
В	On site	Unspecified Ground Workings	1938	1:10560
В	On site	Unspecified Ground Workings	1912	1:10560
В	On site	Unspecified Pit	1865	1:10560
В	On site	Unspecified Pit	1938	1:10560
В	On site	Unspecified Pit	1912	1:10560
В	On site	Unspecified Pit	1894	1:10560
В	On site	Unspecified Pit	1933	1:10560
В	On site	Unspecified Heap	1935	1:10560
В	On site	Unspecified Pit	1933	1:10560
В	On site	Unspecified Heap	1935	1:10560
В	On site	Unspecified Pit	1898	1:10560
2	52m E	Unspecified Pit	1894	1:10560
С	162m N	Gravel Pit	1912	1:10560
D	163m N	Unspecified Pit	1912	1:10560
D	164m N	Gravel Pit	1912	1:10560
D	167m N	Unspecified Pit	1933	1:10560
D	167m N	Unspecified Pit	1933	1:10560
D	168m N	Unspecified Pit	1938	1:10560
С	171m N	Gravel Pit	1933	1:10560



Ref: JOMAS-8446056 **Your ref**: P4134JJ2485-1 **Grid ref**: 514772 174269

ID	Location	Land Use	Year of mapping	Mapping scale
С	172m N	Gravel Pit	1912	1:10560
С	173m N	Gravel Pit	1938	1:10560
С	173m N	Gravel Pit	1912	1:10560
D	175m N	Unspecified Pit	1912	1:10560
3	226m W	Pond	1912	1:10560
Е	229m NW	Pond	1912	1:10560
Е	229m NW	Pond	1894	1:10560
Е	230m NW	Pond	1865	1:10560
Е	241m NW	Pond	1912	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m 6

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

Features are displayed on the Mining, ground workings and natural cavities map on page 102

ID	Location	Land Use	Year of mapping	Mapping scale
АВ	738m NE	Tunnel	1987	1:10000
АВ	738m NE	Tunnel	1974	1:10000
АВ	738m NE	Tunnel	1966	1:10560
AE	807m NE	Tunnel	1987	1:10000
AE	807m NE	Tunnel	1974	1:10000
AE	807m NE	Tunnel	1966	1:10560

This is data is sourced from Ordnance Survey/Groundsure.





0

18.5 Historical Mineral Planning Areas

Records within 500m

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m 0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m 0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site 0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site 0

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

This data is sourced from the Coal Authority.



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18.10 Brine areas

Records on site 0

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

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

18.11 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

Records on site 0

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

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





19 Radon



19.1 Radon

Records on site 1

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

Features are displayed on the Radon map on page 108

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

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

