

254-256, BLACKFEN ROAD, SIDCUP, DA15 8PW

Key results

 **No key issues found**

For information

 **Infrastructure** [page 14 >](#)

 **Ground stability** [page 9 >](#)

 **Planning applications** [page 18 >](#)

Also searched

 **Contaminated land liability**

 **Flooding**

 **Coal mining (CON29M)**

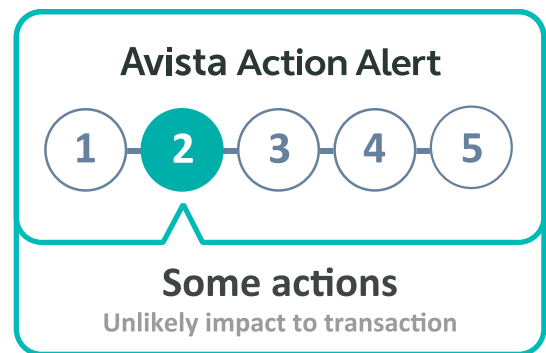
 **Other mining (non-coal)**

 **Radon**

 **Planning constraints**

Groundsure IQ

Based on cost, effort or time associated with next steps to case progression



ClimateIndex™

ClimateIndex™ projects changes in physical and transition risks from:



Flooding



Ground stability



Coastal erosion

5 years



Minor risk

30 years



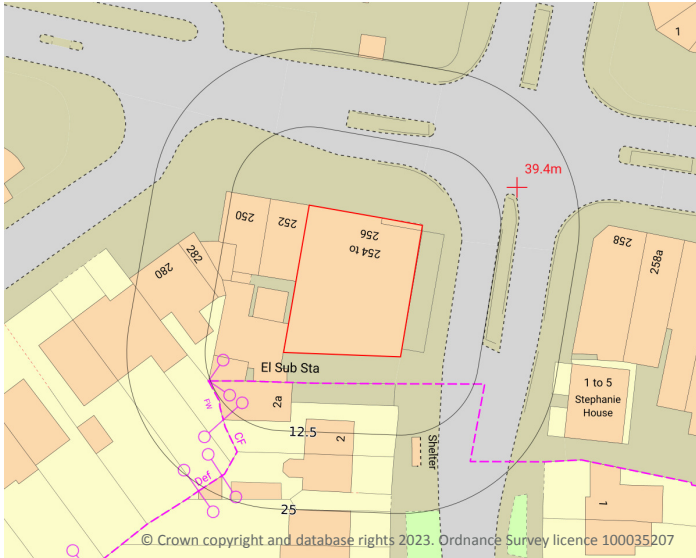
Minor risk

Please refer to [page 4 >](#) for details and guidance

To save you time when assessing the report, we only provide maps and data tables of features we have identified to be of note.

You can view a full list of the information we have searched on [page 26 >](#).

Site Plan



Useful contacts

London Borough of Bexley:
<http://www.bexley.gov.uk/> ↗
customer.services@bexley.gov.uk ↗
020 8303 7777

Environment Agency National Customer
Contact Centre (NCCC):
enquiries@environment-agency.gov.uk ↗
03708 506 506

Avista Action Alert 2

Key results

No key results requiring immediate attention have been identified.

For information

These are findings to be aware of that do not necessarily require immediate action.



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Contact us with any questions at:
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Ref: GS-9492659
Your ref: Blackfen Rd
Grid ref: 546204 174472



Ground stability

The property is indicated to lie within an area that could be affected by natural instability.

The property has a notable shrink swell hazard score and may be susceptible to shrink swell related subsidence.

Next steps for consideration:

- if a survey has been undertaken at the property that considers ground instability and no issues were found, no further action is required
- however, based on the findings of this report, the purchaser should be encouraged to consider potential instability in any future development or alteration of the ground including planting and removing trees, and regardless of the survey outcome
- if no survey has yet been undertaken, we recommend one is carried out by a suitably qualified and experienced person
- if ground instability issues have been or are subsequently identified in a survey we recommend following any advice given in the survey findings
- if the property is in an area at risk of shrink-swell subsidence and has clay drainage pipes, consideration should be given to replacing these with a modern equivalent
- if a residential property, check whether it benefits from an NHBC guarantee or other builder warranty that often covers structural issues. Please note the presence of an NHBC guarantee wouldn't change the risk assessment of this report.



Energy

Wind

Existing or proposed wind installations have been identified within 5km.

Next steps for consideration:

- use the details given in the report to find out more about the potential impacts on the property
- contact the operating company and the relevant Local Authority for further information
- visit the area in order to more accurately assess the impact this wind development would have on the property

Solar

Existing or proposed solar installations have been identified within 5km of the property.

Next steps for consideration:

- use the details given in the report to find out more about the potential impacts on the property by contacting the operating company and/or Local Authority
- visit the area in order to more accurately assess the impact this solar farm would have on the property



ClimateIndex™ physical and transition risks - Breakdown



Our ClimateIndex™ provides a climate score for your property, and projects changes in physical and transition risks from flooding, natural ground instability and coastal erosion. Climate change could have a significant medium to longer term impact on your property, which may be increasingly considered by your lender if you are arranging a mortgage. ClimateIndex™ provides ratings that indicate potential **physical risks** (loss and damage to property) and how these give rise to **transition risks** such as having a material impact on the ability to insure or mortgage the property in the medium to long term. In turn, this could affect the future resale value of the property.

You can see how these relate to the individual calculated risks in the breakdown below.

5 years

Minor risk
30 years

Minor risk

ClimateIndex™

These ratings provide an overall illustration of the individual peril breakdowns below. For example, you may have three individual perils that have been flagged as presenting a moderate or high risk, and collectively they could generate a C rating due to the combined severity of risks present on the property site.

Surface water flooding

Negligible

Negligible

River flooding

Negligible

Negligible

Coastal flooding

Negligible

Negligible

Ground instability

High

High

Coastal erosion - defended

Negligible

Negligible

Coastal erosion - undefended

Negligible

Negligible

Coastal erosion - complex cliffs

Negligible

Negligible


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In 30 years time your property has a ClimateIndex™ rating of B: At present, climate change has very little to no impact on this property and no further actions are necessary at this time.

Over time, this property is susceptible to an increased risk of ground stability due to the impact of climate change. To protect your property against this risk, we recommend the following next steps:

- If no survey has been undertaken, consider commissioning a building survey carried out by a suitably qualified person which looks at ground instability, and how the conditions may become more extreme (more extreme wet and dry periods) with climate change;
- If the property has clay drainage pipes, consider replacing these with a modern equivalent;
- Seek specialist advice before any of the following: starting major building work; removing any mature trees that pre-date the construction of the property; or planting any new trees near the property. The safe planting distance is dependent on the tree species, foundation type and soil composition. A guide can be found [here](#) ↗;
- Ensure foundations of new constructions or extensions are designed with shrink-swell clay soil conditions in mind, particularly how these could become more extreme with climate change;
- Ensure the property has adequate insurance covering subsidence. Premiums may be higher where subsidence has occurred, or the property is at an increased risk. We recommend speaking to an [insurance broker](#) ↗ for specialist advice.

See [page 24](#) > for further details.



ClimateIndex™ transition risks

Energy Performance Certificates (EPC)

All UK properties have an EPC rating that determines how energy efficient they are. To find out the rating for this property, you can visit gov.uk's [Find an energy certificate](#) ↗ service. EPC certificates are valid for 10 years. These will need to be renewed when you wish to sell a property or let to a new tenant.

The EPC certificate will provide property-specific information and guidance on potential options and costs around retrofitting for energy efficiency you may wish to explore either now or at a later date.

Landlords

Currently, the Minimum Energy Efficiency Standards (MEES) requires all rented properties being let in England and Wales to have a minimum EPC rating of 'E'.

By 2028, all rental properties must have an EPC rating of at least 'C'.

The penalty for not having a valid EPC will be raised from £5,000 to £30,000 in 2028.

If the property has an EPC rating of D or E it is important that you consider required or planned retrofit costs against any anticipated equity gain.

Conversely, if energy efficiency is improved at the property through investment in recommended measures, you may be able to unlock improved rates through the increasing number of green mortgages on the market from lenders. A number are now looking at incentivising landlords to invest in energy improvement measures, including reduced or tapered rates once works have been completed. This may have a beneficial effect on the annual profitability of the rental.



Environmental summary



Environmental searches are designed to ensure that significant hazards and risks associated with this property are identified and considered alongside the investment in or purchase of a property.

Please see the Avista Action Alert on [page 2 >](#) for further advice.



Contaminated Land

No significant concerns have been identified as a result of the contaminated land searches.

Contaminated Land Liability **Passed**

Past Land Use **Passed**

Waste and Landfill **Passed**

Current and Recent Industrial **Passed**



Flooding

No significant concerns have been identified as a result of the flood risk searches. No action required.

River and Coastal Flooding **Very Low**

Groundwater Flooding **Negligible**

Surface Water Flooding **Negligible**

Past Flooding **Not identified**

Flood Storage Areas **Not identified**

Further explanation of flood risk assessment can be seen in the Flood information on [page 30 >](#).

FloodScore™ insurance rating

Very Low

The rating is compiled by Ambiental, a leading flood risk analysis company. Please see [page 30 >](#)



Radon

Local levels of radon are considered normal. However, if an underground room makes up part of the accommodation, the property should be tested regardless of radon Affected Area status.

Not in a radon affected area



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Non-coal mining summary



Mining records

No records relating to recorded mining areas or activity have been identified in the vicinity of the site.

Mining features	Not identified
Mine plans	Not identified
Researched mining	Not identified
BritPits	Not identified
Mineral Planning Areas	Not identified
Non-coal mining areas	Not identified
Mining cavities	Not identified
Coal mining areas	Not identified
Brine areas	Not identified
Gypsum areas	Not identified
Tin mining areas	Not identified



Historical features

Historical mapping has identified mining features in the vicinity of the site but these are not considered to be of note.

Non-coal mining	Identified
Coal and associated mining	Not identified
Industry associated with mining	Not identified



Geological features

No geological features indicative of mining activity or other sources of ground instability have been identified in the vicinity of the site.

Artificial and made ground	Not identified
Mineral veins	Not identified



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Ground stability summary



Satellite monitoring

Satellite radar measurements have not detected any notable ground movement in the vicinity of the property.

SatSense Rating

Green

Ratings provided by SatSense Ltd, experts in analysis of InSAR ground movement data from satellite radar.



Natural instability

Searches of natural ground stability data have identified potential ground stability risks.

See [page 10](#) > for details and [page 3](#) > for recommended next steps.

Shrink-swell hazard

High

Natural ground subsidence

Moderate

Landslides

Not identified

Natural cavities

Not identified

Coastal erosion

Not identified



Infilled land

No recorded areas of infilled land or landfill have been identified in the vicinity of the site.

Infilled land

Not identified

Historical landfill sites

Not identified



Sinkholes

No records of sinkholes have been identified in the vicinity of the property.

Reported recent incidents

Not identified

Recorded incidents (BGS)

Not identified

Recorded incidents (Stantec)

Not identified

Historical incidents

Not identified



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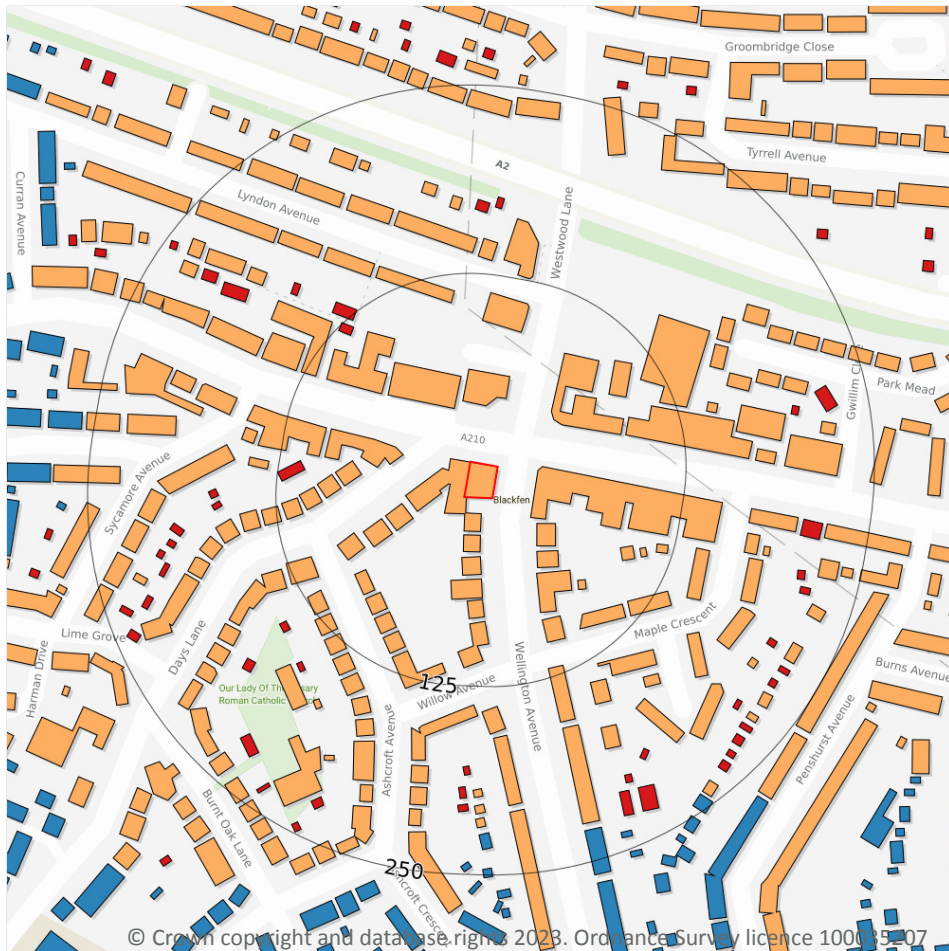
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Ground stability / Property shrink-swell assessment



Site Outline

Search buffers in metres (m)

- Non-Plastic
- Low
- Medium
- High
- Very high

Property shrink-swell assessment

This dataset provides information on the susceptibility to shrink-swell subsidence given underlying geological properties, proximity of trees (using Bluesky National Tree Map), and the characteristics of local buildings (type, age, height, and drainage). These multiple inputs contribute to an overall hazard score for shrink-swell subsidence susceptibility; either 'Low', 'Medium', 'High' or 'Very high' ('Non-Plastic' for areas with this kind of underlying geology). The score for each input is also presented (on a scale 1-10, where 10 is a high susceptibility factor) to provide context of the contributing factors. Please note that building characteristics are taken from Office for National Statistics Lower Super Output Area data, and as such are generalised to give the most likely characteristics for the property. Any assigned rating should not be relied upon if the property is a new build.



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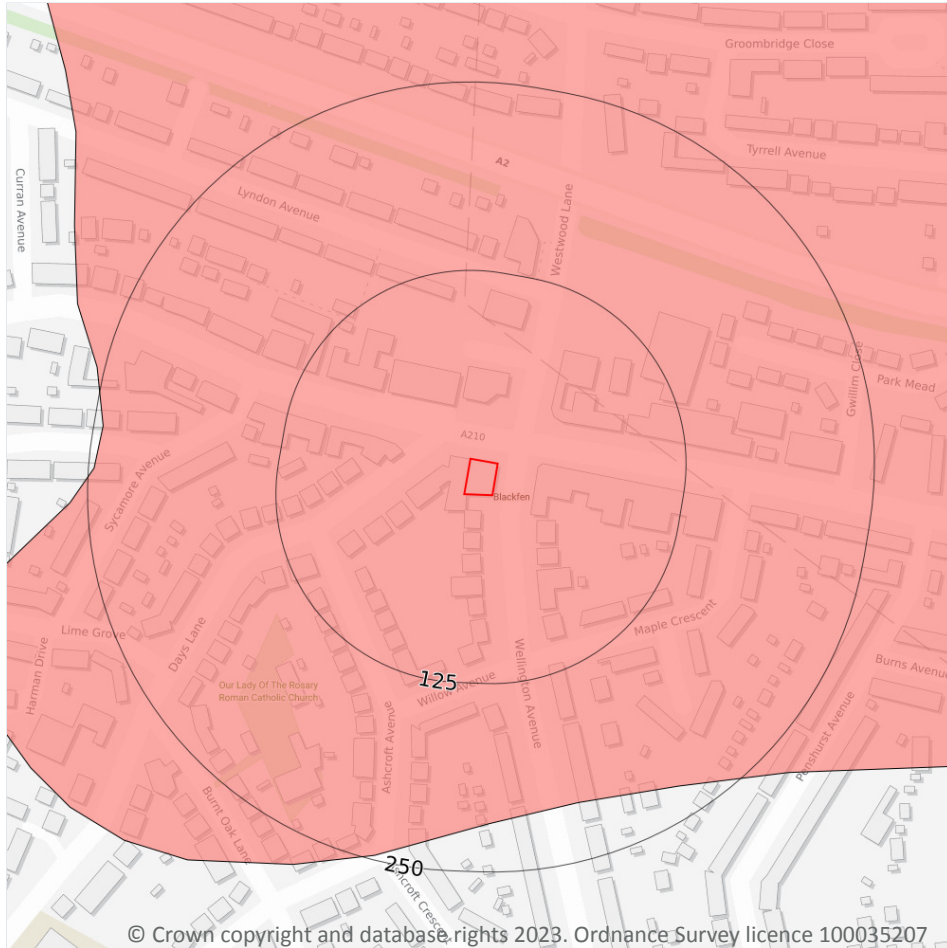
Ref: GS-9492659
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Location	Susceptibility	Input factors
on site	Hazard score: High Description: A high susceptibility to shrink–swell related subsidence	Tree proximity: 2 Underlying geology: 9 Local building age: 7 Local drainage: 10 Local building height: 10 Local building type: 6

This data is sourced from the British Geological Survey.



Ground stability / Shrink-swell clays



— Site Outline
Search buffers in metres (m)

- Moderate
- High

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Shrink-swell clays

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

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

This data is sourced from the British Geological Survey.



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Transportation summary



HS2

No results for Phase 1 or Phase 2 of the HS2 project (including the 2016 amendments) have been identified within 5km of the property. However, HS2 routes are still under consultation and exact alignments may change in the future.

Visual assessments are only provided by Groundsure if the property is within 2km of Phase 1 and 2a. Other assessments may be available from HS2.

HS2 Route	Not identified
HS2 Safeguarding	Not identified
HS2 Stations	Not identified
HS2 Depots	Not identified
HS2 Noise	Not assessed
HS2 Visual impact	Not assessed

Crossrail

The property is not within 250 metres of either the Crossrail 1 or Crossrail 2 project.

Crossrail 1 Route	Not identified
Crossrail 1 Stations	Not identified
Crossrail 2 Route	Not identified
Crossrail 2 Stations	Not identified
Crossrail 2 Worksites	Not identified
Crossrail 2 Safeguarding	Not identified
Crossrail 2 Headhouse	Not identified

Other Railways

The property is not within 250 metres of any active or former railways, subway lines, DLR lines, subway stations or railway stations.

Active Railways and Tunnels	Not identified
Historical Railways and Tunnels	Not identified
Railway and Tube Stations	Not identified
Underground	Not identified



Energy summary



Oil and gas

No historical, active or planned wells or extraction areas have been identified near the property.

Oil and gas areas
Oil and gas wells

Not identified
Not identified



Wind and Solar

Our search of existing and planned renewable wind and solar infrastructure has identified results.

Please see the Avista Action Alert on [page 2](#) > for further advice. Additionally, see [page 15](#) > for details of the identified issues.

Planned Multiple Wind Turbines

Not identified

Planned Single Wind Turbines

Identified

Existing Wind Turbines

Not identified

Proposed Solar Farms

Identified

Existing Solar Farms

Not identified



Energy

Our search of major energy transmission or generation infrastructure and nationally significant infrastructure projects has identified results.

Please see the Avista Action Alert on [page 2](#) > for further advice. Additionally, see [page 17](#) > for details of the identified issues.

Power stations

Not identified

Energy Infrastructure Projects

Identified

Not identified

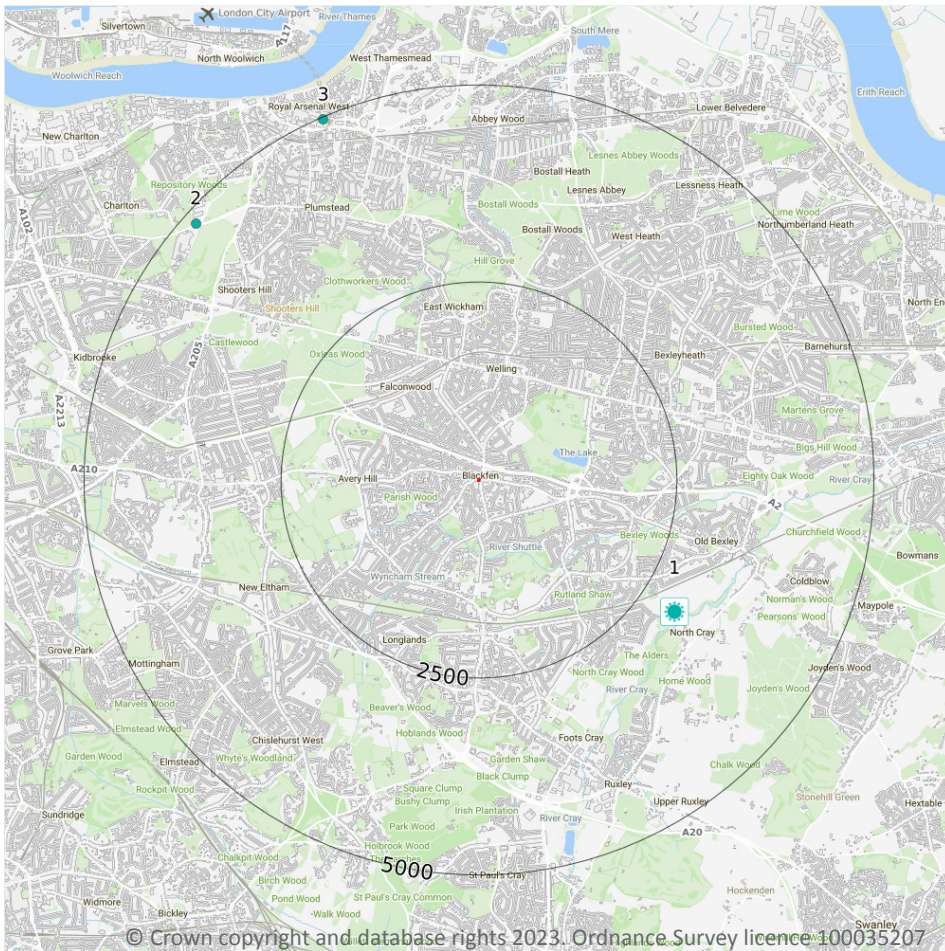


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Energy / Wind and solar



— Site Outline

Search buffers in metres (m)



Wind farms



Proposed wind farms



Proposed wind turbines



Existing and agreed solar installations



Proposed solar installations

Proposed wind turbines

Planning applications for individual wind turbines have been proposed within 5,000m of the property. See below for details of the operating company, number of turbines, project and turbine capacity.

Please note some planning applications identified as having been refused may have subsequently been granted on appeal without appearing as such within this report. Additionally, please be aware that as the identified records are taken from a planning record archive, the proposals identified may have already been undertaken.



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ID	Distance	Direction	Details	
2	4-5 km	NW	Site Name: Gatehouse, 1 Repository Road, London, Greenwich, Central London, SE18 4BQ Planning Application Reference: 06/1717/F Type of Project: Wind Turbine	Application Date: 2006-07-12 Planning Stage: Plans Approved Detail Plans Granted Project Details: Scheme comprises construction of a 3-bladed wind turbine (diameter 3.495m) on a 6.621m high pole (approx 8.37m at highest point). Approximate Grid Reference: 542611, 177731
3	4-5 km	NW	Site Name: Unit 9, The I O Centre, Skeffington Street, Dawsetway Ltd, London, Greenwich, Central London, SE18 6SR Planning Application Reference: 06/2894/F Type of Project: Wind Turbine	Application Date: 2006-11-24 Planning Stage: Plans Approved Detail Plans Granted Project Details: Scheme comprises construction of a wind turbine on roof of building. Approximate Grid Reference: 544230, 179048

This information is derived from planning data supplied by Glenigan, in some cases with further accuracy applied by Groundsure's experts. This search includes planning applications for single wind turbines only, within 5,000m of the property. This data is updated on a quarterly basis.

If the existence of a planning application, passed or refused, may have a material impact with regard to the decision to purchase the property, Groundsure recommends independent, thorough enquiries are made with the Local Authority. If any applications have been identified within this report, Groundsure have included the planning reference to enable further enquiries to be made.

Proposed solar installations

There is a planning permission application relating to a solar farm or smaller installation near to the property.

Please note this will not include small domestic solar installations and that one site may have multiple applications for different aspects of their design and operation. Also note that the presence of an application for planning permission is not an indication of permission having been granted. Please be aware that as the identified records are taken from a planning record archive, the proposals identified may have already been undertaken. See below for details of the proposals.

ID	Distance	Direction	Address	Details	
1	2-3 km	SE	Bexley Water Treatment Works, Riverside Road, Sidcup, Kent, DA14 4PT	Applicant name: Mr David Wilson Application Status: With Case Officer Application Date: 04/04/2019 Application Number: 19/00812/SCREEN	Request for a Screening Opinion under Regulation 6 of the Town and Country Planning (E.I.A.) Regulations 2017 in relation to the proposed ground mounted photovoltaic solar generator.

The data is sourced from public registers of planning information and is updated every two weeks.

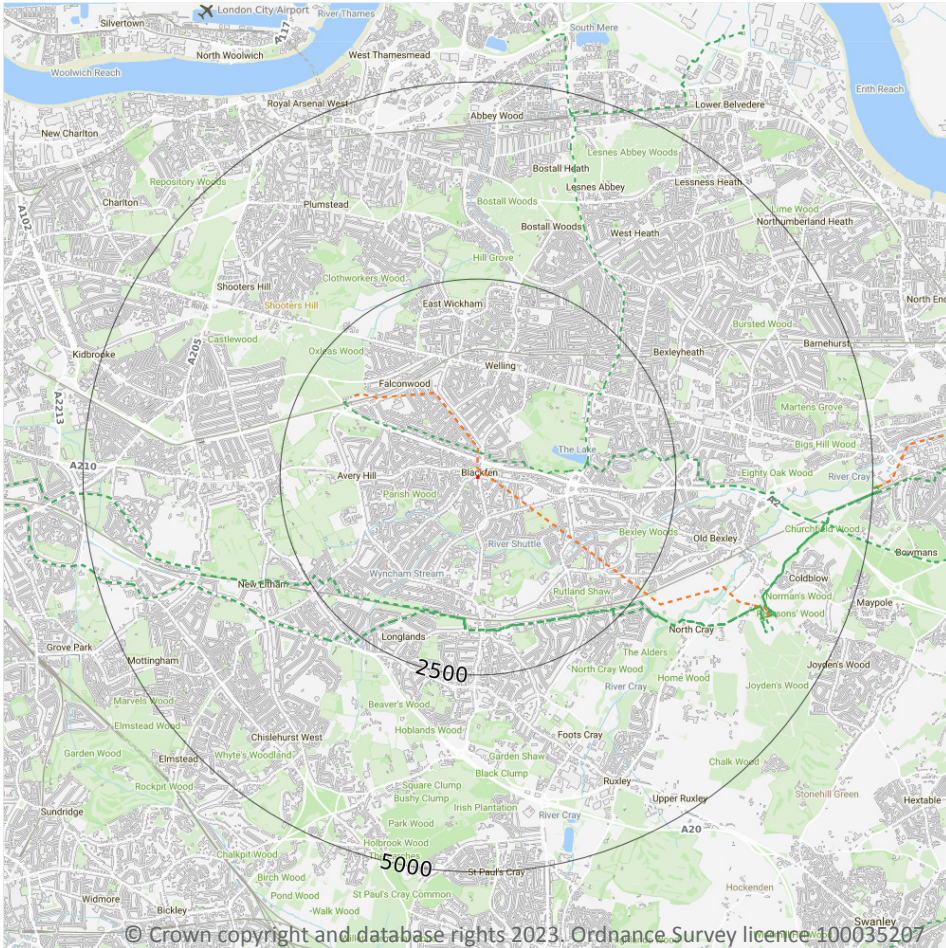


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Energy / Energy infrastructure



Site Outline

Search buffers in metres (m)

- Power stations
- Nuclear sites
- Gas sites
- Electricity substations
- Energy development projects
- Gas pipelines
- Electricity Lines
- Electricity Cable
- Electricity transmission lines and pylons

Electricity transmission lines and pylons

The nearest overhead transmission lines and/or pylon is located 72m from the property.

Overhead power transmission lines are known to emit electromagnetic fields (EMF). For further information on issues associated with transmission lines you may wish to contact the EMF Unit Public Information Line on 0845 7023270 or visit www.emfs.info. Guidance on electromagnetic fields resulting from transmission and distribution lines can also be found on the Public Health England (PHE) website.

This data is sourced from the National Grid. Groundsure provide the data for information only and do not make any judgment on the risks or otherwise of EMFs. However, if the existence of overhead power transmission may have a material impact with regard to the decision to purchase the property, Groundsure recommends contacting these organisations.

Planning summary



Planning Applications

Using Local Authority planning information supplied and processed by Glenigan dating back 10 years, this information is designed to help you understand possible changes to the area around the property. Please note that even successful applications may not have been constructed and new applications for a site can be made if a previous one has failed. We advise that you use this information in conjunction with a visit to the property and seek further expert advice if you are concerned or considering development yourself.

2

Large Developments

searched to 250m

Please see [page 19](#) > for details of the proposed developments.**23**

Small Developments

searched to 75m

Please see [page 20](#) > for details of the proposed developments.**3**

House extensions or new builds

searched to 50m

Please see [page 22](#) > for details of the proposed developments.

Please note the links for planning records were extracted at the time the application was submitted therefore some links may no longer work. In these cases, the application details can be found by entering the application reference manually into the Authority's planning website.

In order to understand this planning data better together with its limitations you should read the full detailed limitations on [page 32](#) >.



Planning constraints

No protected areas have been identified within 50 metres of the property. Protected areas include nature reserves and other conservation areas.

Environmental Protected Areas Not identified
Visual and Cultural Protected Areas Not identified

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Planning Applications



- Site Outline
- Search buffers in metres (m)
- Grouped applications
- Large Project planning application
- Large Project planning application (polygon)
- Small Project planning application
- Small Project planning application (polygon)
- House Extension planning application

Large projects searched to 250m

2 large developments within 250m from the property have been submitted for planning permission during the last ten years. Large developments are considered to be residential builds of 10 or more houses (or 1-9 units if value is greater than £1 million) and all other projects with a value of £250,000 or more. Please see below for details of the proposed developments.

ID	Details	Description	Online record
ID: 5 Distance: 75 m Direction: NE	Application reference: 18/02794/FUL Application date: 31/10/2018 Council: Bexley Accuracy: Proximity	Address: The Co-operative Food, Westwood Lane, Bexley, London, DA15 9PS Project: Convenience Store (Refurbishment) Last known status: Detailed plans have been granted.	Link

ID	Details	Description	Online record
ID: 6 Distance: 222 m Direction: W	Application reference: 13/01633/FUL Application date: 04/10/2013 Council: Bexley Accuracy: Proximity	Address: Premier Autocentres, 184 - 214 Blackfen Road, Bexley, London, DA15 8PT Project: Car Showroom Building Last known status: Detailed plans have been granted.	Link ↗

Small projects searched to 75m

23 small developments within 75m from the property have been submitted for planning permission during the last ten years. Small developments are considered to be residential builds of 3-9 houses or other developments with a project value of less than £250,000. Please see below for details of the proposed developments.

ID	Details	Description	Online record
ID: A Distance: 0 Direction: on site	Application reference: 23/01848/FUL Application date: 27/07/2023 Council: Bexley Accuracy: Proximity	Address: 254 - 256 Blackfen Road, Bexley, London, DA15 8PW Project: Shop (Alterations) Last known status: Detailed plans have been granted.	Link ↗
ID: A Distance: 0 Direction: on site	Application reference: 20/00729/OUT Application date: 05/05/2020 Council: Bexley Accuracy: Proximity	Address: 254 Blackfen Road, Bexley, London, DA15 8PW Project: 9 Flats Last known status: Outline approval has been refused.	Link ↗
ID: B Distance: 18 m Direction: W	Application reference: 21/02775/FUL Application date: 31/08/2021 Council: Bexley Accuracy: Proximity	Address: 280 Days Lane, Bexley, London, DA15 8PG Project: Shop (Extension/Alterations) Last known status: The application for detail approval has been refused.	Link ↗
ID: 1 Distance: 31 m Direction: SE	Application reference: 14/02077/FUL Application date: 29/12/2014 Council: Bexley Accuracy: Proximity	Address: 1a Wellington Avenue, Bexley, London, DA15 9HG Project: 6 Flats Last known status: The application for detail approval has been refused.	Link ↗
ID: 2 Distance: 48 m Direction: NW	Application reference: 22/01927/FUL Application date: 27/09/2022 Council: Bexley Accuracy: Proximity	Address: 7 Gloucester Parade, Blackfen Ro, Bexley, London, DA15 8PS Project: Shop (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: C Distance: 48 m Direction: S	Application reference: 15/00999/FUL Application date: 19/05/2015 Council: Bexley Accuracy: Proximity	Address: 1a Wellington Avenue, Kent, Bexley, London, DA15 9HG Project: 5 Flats Last known status: Detailed plans have been granted.	Link ↗
ID: D Distance: 52 m Direction: W	Application reference: 18/01544/FUL Application date: 13/06/2018 Council: Bexley Accuracy: Proximity	Address: 248 Blackfen Road, Bexley, London, DA15 8PW Project: Chiropractor Clinic (Conversion) Last known status: Detailed plans have been granted.	Link ↗



ID	Details	Description	Online record
ID: D Distance: 52 m Direction: W	Application reference: 18/02124/FUL Application date: 09/08/2018 Council: Bexley Accuracy: Proximity	Address: 248A Blackfen Road, Bexley, London, DA15 8PW Project: Chiropractor Clinic (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: E Distance: 56 m Direction: NE	Application reference: 23/01689/FUL Application date: 12/07/2023 Council: Bexley Accuracy: Proximity	Address: 267 Westwood Lane, Bexley, London, DA15 9PS Project: Hot Food Takeaway (Conversion) Last known status: The application for detail approval has been refused.	Link ↗
ID: 3 Distance: 57 m Direction: NW	Application reference: 16/03205/FUL Application date: 23/12/2016 Council: Bexley Accuracy: Proximity	Address: 6 Blackfen Road, Bexley, London, DA15 8PS Project: Nail/Beauty Bar (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: F Distance: 58 m Direction: E	Application reference: 15/00163/FUL Application date: 16/03/2015 Council: Bexley Accuracy: Proximity	Address: Blackfen Post Office, 16 - 17 Blackfen Road, Bexley, London, DA15 9LU Project: 4 Flats (Extension) Last known status: Detailed plans have been granted.	Link ↗
ID: F Distance: 58 m Direction: E	Application reference: 14/00843/FUL Application date: 25/06/2014 Council: Bexley Accuracy: Proximity	Address: 16 - 17 Blackfen Road, Bexley, London, DA15 9LU Project: 4 Flats (Extension) Last known status: The application for detail approval has been refused.	Link ↗
ID: E Distance: 59 m Direction: NE	Application reference: 13/01836/FUL Application date: 05/11/2013 Council: Bexley Accuracy: Proximity	Address: Wellington Parade, 3 Blackfen Road, Bexley, London, DA15 9NB Project: Beauty Salon (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: E Distance: 60 m Direction: NE	Application reference: 22/01112/FUL Application date: 28/04/2022 Council: Bexley Accuracy: Proximity	Address: 3 Wellington Parade, Blackfen Ro, Bexley, London, DA15 9NB Project: Restaurant/Cafe (Conversion/Alterations) Last known status: Detailed plans have been granted.	Link ↗
ID: E Distance: 60 m Direction: NE	Application reference: 15/01716/FUL Application date: 29/07/2015 Council: Bexley Accuracy: Proximity	Address: 3 Wellington Parade, Blackfen Road, Bexley, London, DA15 9NB Project: Pet Retail/Grooming Service (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: E Distance: 66 m Direction: NE	Application reference: 19/01808/FUL Application date: 17/09/2019 Council: Bexley Accuracy: Proximity	Address: Wellington Parade, 4 - 5 Blackfen Road, Bexley, London, DA15 9NB Project: Preschool & Soft Play (Conversion) Last known status: An application has been submitted for detailed approval.	Link ↗
ID: E Distance: 66 m Direction: NE	Application reference: 15/02297/FUL Application date: 02/11/2015 Council: Bexley Accuracy: Proximity	Address: Wellington Parade, 4 - 5 Blackfen Road, Bexley, London, DA15 9NB Project: Restaurant (Conversion) Last known status: Detailed plans have been granted.	Link ↗



ID	Details	Description	Online record
ID: G Distance: 68 m Direction: W	Application reference: 19/02549/FUL Application date: 22/10/2019 Council: Bexley Accuracy: Proximity	Address: 244 Blackfen Road, Bexley, London, DA15 8PW Project: Shop (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: G Distance: 68 m Direction: W	Application reference: 16/00744/FUL Application date: 26/04/2016 Council: Bexley Accuracy: Proximity	Address: 244 Blackfen Road, Bexley, London, DA15 8PW Project: Gym (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: H Distance: 68 m Direction: NW	Application reference: 18/02831/FUL Application date: 15/01/2019 Council: Bexley Accuracy: Proximity	Address: Gloucester Parade, 1 - 3 Blackfen Road, Bexley, London, DA15 8PS Project: 5 Flats (Conversion) Last known status: Detailed plans have been granted.	Link ↗
ID: H Distance: 68 m Direction: NW	Application reference: 18/02466/FUL Application date: 02/10/2018 Council: Bexley Accuracy: Proximity	Address: Gloucester Parade, 1 - 3 Blackfen Road, Bexley, London, DA15 8PS Project: Childrens Day Nursery (Conversion) Last known status: The application for detail approval has been refused.	Link ↗
ID: H Distance: 68 m Direction: NW	Application reference: 17/03068/FUL Application date: 09/01/2018 Council: Bexley Accuracy: Proximity	Address: Gloucester Parade, 1 - 3 Blackfen Road, Bexley, London, DA15 8PS Project: Restaurant (Conversion/Alterations) Last known status: Detailed plans have been granted.	Link ↗
ID: 4 Distance: 69 m Direction: E	Application reference: 22/03134/FUL Application date: 29/12/2022 Council: Bexley Accuracy: Proximity	Address: 14 Blackfen Road, Bexley, London, DA15 9LU Project: Restaurant & Takeaway (Conversion) Last known status: An application has been submitted for detailed approval.	Link ↗

House extensions and small new builds searched to 50m

3 house extensions and small new builds within 50m from the property have been submitted for planning permission during the last ten years.

ID	Details	Description	Online record
ID: B Distance: 18 m Direction: W	Application reference: 22/00458/FUL Application date: 13/04/2022 Council: Bexley Accuracy: Exact	Address: 280 Days Lane, Bexley, London, DA15 8PG Project: House (Alterations) Last known status: Detailed plans have been granted.	Link ↗
ID: B Distance: 18 m Direction: W	Application reference: 21/02190/FUL Application date: 01/09/2021 Council: Bexley Accuracy: Exact	Address: 280 Days Lane, Bexley, London, DA15 8PG Project: House (Alterations) Last known status: The application for detail approval has been refused.	Link ↗



ID	Details	Description	Online record
ID: C Distance: 48 m Direction: S	Application reference: 15/01424/FUL Application date: 23/06/2015 Council: Bexley Accuracy: Exact	Address: 11 Wellington Avenue, Bexley, London, DA15 9HG Project: House (Extension) Last known status: Detailed plans have been granted.	Link ↗

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Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Ref: GS-9492659
Your ref: Blackfen Rd
Grid ref: 546204 174472

Climate change / Flood risk (5 and 30 Years)

Ambiental's FloodScore™ Climate data provides flood risk information from river, tidal and surface water flooding for a range of future time periods and emissions scenarios (Low emissions - RCP 2.6, medium and most likely emissions - RCP 4.5, and high emission - RCP 8.5). The temperature increases shown for each scenario are predicted increases by 2081-2100. The models are based on the UK Climate Projections 2018 (UKCP18). It is plausible that climate change will increase the severity and frequency of flood events in the future. FloodScore™ Climate has been designed to provide banks, building societies and insurers with future flood risk information for their long-term assets. The data within this report is based on the highest risk found within a buffer zone around the buildings. The 'Year' in the table represents the median of the date range used for each modelled timeframe.

Temp increase range	Year	Combined flood risk	River flooding	Coastal flooding	Surface water flooding
RCP 2.6 0.9-2.3°C	2027	Negligible	Negligible	Negligible	Negligible
RCP 2.6 0.9-2.3°C	2055	Negligible	Negligible	Negligible	Negligible

Temp increase range	Year	Combined flood risk	River flooding	Coastal flooding	Surface water flooding
RCP 4.5 1.7-3.2°C	2027	Negligible	Negligible	Negligible	Negligible
RCP 4.5 1.7-3.2°C	2055	Negligible	Negligible	Negligible	Negligible

Temp increase range	Year	Combined flood risk	River flooding	Coastal flooding	Surface water flooding
RCP 8.5 3.2-5.4°C	2027	Negligible	Negligible	Negligible	Negligible
RCP 8.5 3.2-5.4°C	2055	Negligible	Negligible	Negligible	Negligible

This data is sourced from Ambiental Risk Analytics.

Climate change / Natural ground instability (5 and 30 Years)

This data shows the increase in shrink swell subsidence hazards as a result of climate change. When certain soils take in water they can swell, causing heave. Conversely, when these soils dry out they can shrink and cause subsidence. Climate change will result in higher temperature and therefore likely cause periods of drought and an increase in shrink swell subsidence. This data has been produced using the Met Office local projections to accurately model predicted rainfall, it is only available for RCP8.5 (the 'worst case' climate scenario).

Temp increase range	Year	Wet scenario	Average rainfall	Dry scenario
RCP 8.5 3.2-5.4°C	2030s	Likely	Highly likely	Extremely likely
RCP 8.5 3.2-5.4°C	2050s	Highly likely	Extremely likely	Extremely likely



This data is sourced from the British Geological Survey.



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Ref: GS-9492659

Your ref: Blackfen Rd

Grid ref: 546204 174472

Datasets searched

This is a full list of the data searched in this report. If we have found results of note we will state "Identified". If no results of note are found, we will state "Not identified". Our intelligent filtering will hide "Not identified" sections to speed up your workflow.

Contaminated Land		Contaminated Land	
Former industrial land use (1:10,560 and 1:10,000 scale)	Not identified	Dangerous industrial substances (D.S.I. List 2)	Not identified
Former tanks	Not identified	Pollution incidents	Not identified
Former energy features	Not identified	Flooding	
Former petrol stations	Not identified	Risk of flooding from rivers and the sea	Not identified
Former garages	Not identified	Flood storage areas: part of floodplain	Not identified
Former military land	Not identified	Historical flood areas	Not identified
Former landfill (from Local Authority and historical mapping records)	Not identified	Areas benefiting from flood defences	Not identified
Waste site no longer in use	Not identified	Flood defences	Not identified
Active or recent landfill	Not identified	Proposed flood defences	Not identified
Former landfill (from Environment Agency Records)	Not identified	Surface water flood risk	Not identified
Active or recent licensed waste sites	Not identified	Groundwater flooding	Not identified
Recent industrial land uses	Not identified	Radon	
Current or recent petrol stations	Not identified	Radon	Not identified
Hazardous substance storage/usage	Not identified	Mining features	
Sites designated as Contaminated Land	Not identified	Mine entries	Not identified
Historical licensed industrial activities	Not identified	Mineralised veins	Not identified
Current or recent licensed industrial activities	Not identified	Surface workings	Not identified
Local Authority licensed pollutant release	Not identified	Surface features	Not identified
Pollutant release to surface waters	Not identified	Underground mine workings	Not identified
Pollutant release to public sewer	Not identified	Reported subsidence	Not identified
Dangerous industrial substances (D.S.I. List 1)	Not identified	Mine waste tips	Not identified
		Secured features	Not identified



Mining features

Licence boundaries	Not identified
Researched mining	Not identified
Mining Record Office plans	Not identified
BGS mine plans	Not identified

Mining records

BritPits	Not identified
Mineral Planning Areas	Not identified
Non-coal mining areas	Not identified
Mining cavities	Not identified
Coal mining areas	Not identified
Brine areas	Not identified
Gypsum areas	Not identified
Tin mining areas	Not identified

Historical Features

Non-coal mining	Identified
Coal and associated mining	Not identified
Industry associated with mining	Not identified

Geological features

Artificial and made ground (10k)	Not identified
Linear features - mineral veins (10k)	Not identified
Artificial and made ground (50k)	Not identified
Linear features - mineral veins (50k)	Not identified

Satellite monitoring

Satellite monitoring	Not identified
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Natural instability

Property shrink-swell assessment	Identified
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Natural instability

Shrink-swell clays	Identified
Landslides	Not identified
National landslide database	Not identified
Running sands	Not identified
Compressible deposits	Not identified
Collapsible deposits	Not identified
Dissolution of soluble rocks	Not identified
Natural cavities	Not identified

Coastal Erosion

Complex cliffs	Not identified
Projections with intervention measures in place	Not identified
Projections with no active intervention	Not identified
Complex cliffs	Not identified
Projections with intervention measures in place	Not identified
Projections with no active intervention	Not identified

Infilled land

Infilling from historical mapping	Not identified
Active landfill sites	Not identified
Historical landfill (from Environment Agency records)	Not identified
Historical landfill (from Local Authority and historical mapping records)	Not identified

Sinkholes

Reported recent incidents	Not identified
Recorded incidents (BGS)	Not identified
Recorded incidents (Stantec)	Not identified
Historical incidents	Not identified



Transportation

HS2 route: nearest centre point of track	Not identified
HS2 route: nearest overground section	Not identified
HS2 surface safeguarding	Not identified
HS2 subsurface safeguarding	Not identified
HS2 Homeowner Payment Zone	Not identified
HS2 Extended Homeowner Protection Zone	Not identified
HS2 stations	Not identified
HS2 depots	Not identified
HS2 noise and visual assessment	Not identified
Crossrail 1 route	Not identified
Crossrail 1 stations	Not identified
Crossrail 2 route	Not identified
Crossrail 2 stations	Not identified
Crossrail 2 worksites	Not identified
Crossrail 2 headhouses	Not identified
Crossrail 2 safeguarding area	Not identified
Active railways	Not identified
Railway tunnels	Not identified
Active railway stations	Not identified
Historical railway infrastructure	Not identified
Abandoned railways	Not identified
London Underground and DLR lines	Not identified
London Underground and DLR stations	Not identified
Underground	Not identified
Underground stations	Not identified

Oil and gas

Oil or gas drilling well	Not identified
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Oil and gas

Proposed oil or gas drilling well	Not identified
Licensed blocks	Not identified
Potential future exploration areas	Not identified

Wind and solar

Wind farms	Not identified
Proposed wind farms	Not identified

Proposed wind turbines **Identified**

Existing and agreed solar installations	Not identified
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Proposed solar installations **Identified**

Energy

Electricity transmission lines and pylons **Identified**

National Grid energy infrastructure	Not identified
Power stations	Not identified
Nuclear installations	Not identified
Large Energy Projects	Not identified

Planning

Large projects searched to 250m **Identified**

Small projects searched to 75m **Identified**

House extensions and small new builds searched to 50m **Identified**

Planning constraints

Sites of Special Scientific Interest	Not identified
Internationally important wetland sites (Ramsar Sites)	Not identified
Special Areas of Conservation	Not identified
Special Protection Areas (for birds)	Not identified
National Nature Reserves	Not identified



Planning constraints

Local Nature Reserves	Not identified
Designated Ancient Woodland	Not identified
Green Belt	Not identified
World Heritage Sites	Not identified
Areas of Outstanding Natural Beauty	Not identified
National Parks	Not identified
Conservation Areas	Not identified
Listed Buildings	Not identified
Certificates of Immunity from Listing	Not identified
Scheduled Monuments	Not identified
Registered Parks and Gardens	Not identified

Climate change

Flood risk (5 and 30 Years)	Identified
Natural ground instability (5 and 30 Years)	Identified



Contaminated land liability assessment methodology

As part of this report Groundsure provide a professional assessment of the risks posed by key environmental information which could lead to the property being designated as 'Contaminated Land' as defined under Part 2A of the Environmental Protection Act 1990. This assessment is based on the following data:

- historical land use (compiled from 1:10,000 and 1:10,560 maps)
- petrol stations, garages, energy features and tanks (compiled from 1:1,250 and 1:2,500 maps) – for selected areas.
- historic military / ordnance sites
- landfill and waste transfer/treatment or disposal sites (including scrap yards)
- current and recent industrial uses (as defined by PointX data)
- Catalyst petrol station
- Part A(1), Part A(2) and Part B Authorisations
- sites determined as Contaminated Land under Part 2A EPA 1990
- Planning Hazardous Substance Consents
- Environment Agency Recorded Pollution Incidents
- Dangerous Substances Inventory Releases (DSI)
- Red List Discharge Consent

The level of risk associated with the property is either Passed or Action Required. If the report result is Action Required it does not necessarily mean that the site is unsuitable for purchase, but only that further assessment of the risk associated with the site is required.

Method Statement

In assessing specific site risk, Groundsure follows principles used extensively throughout the environmental consultancy sector. Our system looks at the potential for specific industries to have generated residual contamination and for this contamination to remain at a site, or to have migrated to neighbouring sites. Sites are scored based on this system and if a site scores highly it indicates a high level of risk.

Limitations of the Study

This report has been prepared with the assumption that the site is in residential use and that no significant (re)development is planned. The screening process reviews historical mapping and a range of current databases. The historical land use database reviewed for this study does NOT include 1:2,500 or 1:1,250 scale maps except for Groundsure's additional information database of selected features namely tanks, energy features, petrol filling stations and garages. This additional information database covers the majority of the UK, but not all. Where 1:2500 or 1:1250 scale maps are utilised all relevant and available map epochs to Groundsure are used. Additionally, this review does NOT include specific enquiries to the Local Authority who may hold additional information and it does NOT include a site visit/inspection. Your attention is drawn to the Terms and Conditions of Groundsure Limited under which this service is provided.

Flood information

The Flood Risk Assessment section is based on datasets covering a variety of different flooding types. No inspection of the property or of the surrounding area has been undertaken by Groundsure or the data providers. The modelling of flood hazards is extremely complex and in creating a national dataset certain assumptions have been made and all such datasets will have limitations. These datasets should be used to give an indication of relative flood risk rather than a definitive answer. Local actions and minor variations, such as blocked drains or streams etc. can greatly alter the effect of flooding. A low or negligible modelled flood risk does not guarantee that flooding will not occur. Nor will a high risk mean that flooding definitely will occur. Groundsure's overall flood risk assessment takes account of the cumulative risk of river and coastal data, historic flood events and areas benefiting from flood defences provided by the Environment Agency/Natural Resources Wales (in England and Wales) and surface water (pluvial) and groundwater flooding provided by Ambient Risk Analytics. In Scotland the river and coastal flood models are also provided by Ambient Risk Analytics.



Risk of flooding from rivers and the sea

This is an assessment of flood risk for England and Wales produced using local data and expertise, provided by the Environment Agency (RoFRaS model) and Natural Resources Wales (FRAW model). It shows the chance of flooding from rivers or the sea presented in categories taking account of flood defences and the condition those defences are in. The model uses local water level and flood defence data to model flood risk.

The categories associated with the Environment Agency and Natural Resources Wales models are as follows:

RoFRaS (rivers and sea) and FRAW (rivers):

Very Low - The chance of flooding from rivers or the sea is considered to be less than 1 in 1000 (0.1%) in any given year.

Low - The chance of flooding from rivers or the sea is considered to be less than 1 in 100 (1%) but greater than or equal to 1 in 1000 (0.1%) in any given year.

Medium - The chance of flooding from rivers or the sea is considered to be less than 1 in 30 (3.3%) but greater than 1 in 100 (1%) in any given year.

High - The chance of flooding from rivers or the sea is considered to be greater than or equal to 1 in 30 (3.3%) in any given year.

FRAW (sea):

Very Low - The chance of flooding from the sea is considered to be less than 1 in 1000 (0.1%) in any given year.

Low - The chance of flooding from the sea is considered to be less than 1 in 200 (0.5%) but greater than or equal to 1 in 1000 (0.1%) in any given year.

Medium - The chance of flooding from the sea is considered to be less than 1 in 30 (3.3%) but greater than 1 in 200 (0.5%) in any given year.

High - The chance of flooding from the sea is considered to be greater than or equal to 1 in 30 (3.3%) in any given year.

Historic flood events

Over 86,000 events are recorded within this database. This data is used to understand where flooding has occurred in the past and provides details as available. Absence of a historic flood event for an area does not mean that the area has never flooded, but only that Environment Agency/Natural Resources Wales do not currently have records of flooding within the area. Equally, a record of a flood footprint in previous years does not mean that an area will flood again, and this information does not take account of flood management schemes and improved flood defences.

Surface water flooding

Ambiental Risk Analytics surface water flood map identifies areas likely to flood following extreme rainfall events, i.e. land naturally vulnerable to surface water or "pluvial" flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1000 year rainfall events. The flood risks for these rainfall events are reported where the depth would be greater than the threshold for a standard property to modern building standards. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though older ones may even flood in a 1 in 5 year rainstorm event.

Proposed flood defences

The data includes all Environment Agency/Natural Resources Wales's projects over £100K that will change or sustain the standards of flood defence in England and Wales over the next 5 years. It also includes the equivalent schemes for all Local Authority and Internal Drainage Boards.

Flood storage areas

Flood Storage Areas may also act as flood defences. A flood storage area may also be referred to as a balancing reservoir, storage basin or balancing pond. Its purpose is to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel. It may also delay the timing of a flood peak so that its volume is discharged over a longer time interval. These areas are also referred to as Zone 3b or 'the functional floodplain' and has a 5% or greater chance of flooding in any given year, or is designed to flood in the event of an extreme (0.1%) flood or another probability which may be agreed between the Local Planning Authority and Environment Agency/Natural Resources Wales, including water conveyance routes. Development within Flood Storage Areas is severely restricted.

Groundwater flooding



Groundwater flooding is flooding caused by unusually high groundwater levels. It occurs as excess water emerging at the ground surface or within underground structures such as basements. Groundwater flooding tends to be more persistent than surface water flooding, in some cases lasting for weeks or months, and it can result in significant damage to property. This risk assessment is based on a 5m Digital Terrain Model (DTM) and 1 in 100 year and 1 in 250 year return periods.

Ambiental FloodScore™ insurance rating

The property has been rated as **Very Low** risk.

Ambiental's FloodScore™ risk rating gives an indicative assessment of the potential insurance risk classification from flooding, which can provide an indication of how likely it is that a property's policy will be ceded to Flood Re. The assessment is based on Ambiental's river, tidal and surface water flood data and other factors which some insurers may use in their assessment are not included.

Flood Re is a re-insurance scheme that makes flood cover more widely available and affordable as part of your residential property home insurance. Properties at higher risk of flooding may have the flood part of their policy ceded to Flood Re by their insurer. It is important to understand that Flood Re does not apply to all situations. Exclusions from Flood Re includes properties constructed after 1 January 2009; properties not within domestic Council Tax bands A to H (or equivalent); commercial properties, certain buy to let scenarios and buildings comprising four or more residential units. A full list of the exemptions can be found on the Flood Re website (<https://www.floodre.co.uk/can-flood-re-help-me/eligibility-criteria/>) ↗.

The Ambiental FloodScore™ insurance rating is classified into six different bandings:

Very High indicates a level of risk that may make it more likely that standard insurance premiums will be higher, or additional terms may apply to the provision of flood cover. There is a very high possibility that the cover for flooding at the property will be ceded into the Flood Re scheme, particularly if the property has flooded in the past.

High indicates a level of risk that may make it more likely that standard insurance premiums will be higher, or additional terms may apply to the provision of flood cover. There is a high possibility that the cover for flooding at the property will be ceded into the Flood Re scheme, particularly if the property has flooded in the past.

Moderate-High indicates a level of risk that may make it more likely that standard insurance premiums will be higher, or additional terms may apply to the provision of flood cover. There is a moderate possibility that the cover for flooding at the property will be ceded into the Flood Re scheme, particularly if the property has flooded in the past.

Moderate indicates a level of risk that may make it more likely that standard insurance premiums will be higher, or additional terms may apply to the provision of flood cover. There is a low possibility that the cover for flooding at the property will be ceded into the Flood Re scheme, unless the property has flooded in the past.

Low indicates a level of risk that is likely to mean standard cover and premiums are available for flood cover. There is a low possibility the cover for flooding at the property will be ceded into the Flood Re scheme, unless the property has flooded in the past.

Very Low indicates a level of flood risk that should not have any impact on the provision of flood cover for the property.

Planning data limitations

The planning applications section of this report contains data provided under licence from Glenigan, who are widely recognised in the industry as the market leaders in the collection and distribution of planning information in the UK. Glenigan collects on average 4,000 planning applications per day. As such, neither Groundsure or Glenigan are able to check the accuracy of the information that has been submitted by the applicant. All application information is based on the information submitted at the time of application and due to the volumes and the automated processes involved it is not possible to undertake additional checks to confirm its accuracy. As with any dataset of this size and complexity there are limitations, which are highlighted below.

The planning section in our report is fully automated and Groundsure does not undertake visits to the Local Authority or manually search for planning records against other sources as this would be cost-prohibitive to most clients. With each report, Glenigan provides Groundsure with the location detail for each planning application, which is then published within our report. The method for deriving the location detail depends on the type of planning application.

The location of applications are represented in this report as single points for house extensions and small new builds, small developments and points or polygons for large developments. If an application associated with a small development is shown on the map as a polygon it is because it was once classified as a large development and has since been downgraded. The location of



applications is derived from either the grid references provided by the applicant on the planning application form or by address finding software using the site address. If the application is represented by a point, it may not represent the nearest border of the development and may fall outside of the development boundary. If the application is represented by a polygon, we only map the outer extents of proposed developments. Some developments are comprised of multiple areas and in these cases we will show all polygons on the map but only label the one closest to the property. The information contained within this report should be used in conjunction with a visit to the relevant local authority's website to determine the exact location of the development, determine any possible distinctions within the development area, and how this may impact the subject property.

Groundsure has incorporated a dynamic search radius to ensure the most relevant data is presented. This variable search distance is based on House of Commons Library data which categorises areas according to the size of the settlement. Groundsure has distilled these into three core categories. These categories are mega urban, urban and rural and the following search distances apply:

- Mega urban: 250m for large developments, 75m for small developments and 50m for house extensions and small new builds
- Urban: 500m for large developments, 125m for small developments and 50m for house extensions and small new builds
- Rural: 750m for large development, 500m for small development and 250m for house extensions and small new builds

Please note, the search radius assigned to this property is detailed within the planning section of the report.

Due to differing methodologies adopted by Local Authorities, some planning applications identified as having been refused may have subsequently been granted on appeal without appearing as such within this report. As such, if any refused applications are identified within this report, or should the existence or absence of a planning application, consent or similar have a material impact with regard to the decision to purchase a property, the client or beneficiary should make independent thorough enquiries of the Local Authority. Groundsure has excluded certain records of the publicly available data from this report which may have created duplications of reference to the same application. This includes, but is not limited to, data relating to applications such as amendments or variations of planning applications, discharge of conditions, or other associated applications. The report does not contain information on Lawful Development Certificates, Permitted Developments, Prior Approvals, Tree Preservation Orders, and other applications that are considered minor in terms of the level of construction. Additionally, an area of land may be identified for development within the local authority development plan, but for which no formal planning application exists. As such these are not included within the search.

Groundsure provides a web link to individual planning records in this report, but over time Local Authorities may have altered their website structure or record storage and so not all links may still be active. In the case of broken links, customers can use the planning application reference to search the Local Authority planning website manually. Due to data collection methods and processing time, there may be a period of up to 10 days between the application being published on the local authority website and appearing within the Groundsure report.

It is important to note the terms and conditions under which the report was sold, and in particular, whilst Groundsure makes every effort to ensure that data is sourced from reliable providers, it is unable to guarantee that the information is accurate, complete or up to date. Groundsure shall not be liable for any losses or damages incurred by the client or beneficiary, including but not limited to any losses or damages that arise as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such part is based on any Third Party Content or any reasonable interpretation of Third Party Content. We recommend checking the contents of the TA6 Property Information Form completed by the seller to determine if any planning applications were revealed. If they were not and you believe this should have been included we recommend discussing this with your conveyancer.

Conservation Area data limitations

Please note the Conservation Area data is provided by Historic England and individual Local Authorities. Due to different methodologies used by different Local Authorities the data may be incomplete. We recommend reviewing your local search for confirmation.



Underground data limitations

This database was created by Groundsure using publicly available open data and data from OpenStreetMap. The data is not provided by or endorsed by Transport for London (TfL) and minor differences between TfL's official data and Groundsure's data may occur in relation to the London Underground. Please note that the London Underground, Merseyrail, and Tyne and Wear Metro operate both underground and above ground.

Subsidence data limitations

The natural ground subsidence assessment is based on the British Geological Survey's GeoSure data. GeoSure is a natural ground stability hazard susceptibility dataset, based on the characteristics of the underlying geology, rather than an assessment of risk. A hazard is defined as a potentially damaging event or phenomenon, whereas a risk is defined as the likelihood of the hazard impacting people, property or capital. The GeoSure dataset consists of six data layers for each type of natural ground subsidence hazard. These are shrink-swell clay, landslide, compressible ground, collapsible ground, dissolution of soluble rock and running sand. Each hazard is then provided with a rating on its potential to cause natural ground subsidence. This rating goes from A-E, with A being the lowest hazard, E being the highest. Groundsure represent full GeoSure data as either Negligible (ratings of A), Very Low (ratings of B), Low (C), Moderate (D) or High (E). Where GeoSure Basic is instead used, ratings are displayed as Negligible-Very Low (A or B ratings), Low (C) or Moderate-High (D or E). The GeoSure data only takes into account the geological characteristics at a site. It does not take into account any additional factors such as the characteristics of buildings, local vegetation including trees or seasonal changes in the soil moisture content which can be related to local factors such as rainfall and local drainage. These factors should be considered as part of a structural survey of the property carried out by a competent structural surveyor. For more information on the "typical safe distance" trees should be from a property please see this guide:

www.abi.org.uk/globalassets/sitecore/files/documents/publications/public/migrated/home/protecting-your-home-from-subsidence-damage.pdf ↗

ClimateIndex™ data and limitations

Groundsure's ClimateIndex™ is an assessment of the physical risk to the property from hazards which may be exacerbated by climate change. It considers the following hazards only:

- River flooding
- Flooding from the sea and tidal waters
- Surface water flooding
- Shrink swell subsidence
- Coastal erosion

These hazards are assessed using a weighted sum model, which allows for the consistent comparison of hazards between different time periods, emissions scenarios and the relative severity of predicted impacts. All flood and subsidence impacts have been produced using the latest UKCP18 climate prediction models. Assessments are provided for the short term (c.5 years) and medium term (c.30 years) only. A range of [Representative Concentration Pathways \(RCPs\)](#) ↗ have been used depending on the source dataset and its derivation. For example, flood data has been provided for RCP2.6, 4.5 and 8.5, whereas subsidence data has been derived using local projections only available for RCP8.5. Each RCP variance has been assigned an appropriate weighting in the calculator to reflect the relative likelihood of that scenario and where a full range of RCP scenarios is not available Groundsure have extrapolated to give equivalent values.

The banding applied to a property reflects its current and future risk from the hazards identified above. If a property's banding does not change from the present day to the medium term, the property's risk profile is not considered likely to be affected by climate change, though risks may still be present. Any increase in the banding of a property indicates that the property has the potential to be affected by climate change.



Band	Description	Short term (c.5 year)	Medium term (c.30 year)
A	No risks of concern predicted	76%	75%
B	Minor risks e.g. low level surface water flooding	15%	15%
C	Minor to moderate risks e.g. river flood event above property threshold	4%	4%
D	Moderate risks e.g. above threshold flood events and significant increase in subsidence potential	2%	2%
E	Significant risks e.g. multiple flood risks above property threshold	2%	2%
F	Severe risks to property e.g. coastal erosion risk	1%	2%

Approximate percentage of properties falling into each band. The figures have been calculated based on an assessment of residential properties only.

Mining information

Non-coal mining assessment

This mining search has been compiled from the archive information held by Groundsure. As with all historic mining records, there is no guarantee or assurance of reliability or accuracy of these records. Not all mining activities were recorded or are publically available. Groundsure can't be held responsible for any omissions or errors in the information upon which our interpretation has been based.

Historical mining records vary in document age, reliability, reproduction, quality of the original record, the reason to produce the original document, the skill of the original surveyor and the accuracy of the available surveying equipment at the time of production. It must be accepted that the information is subject to interpretation. Alternative interpretations may be possible.

In any area, sporadic, un-surveyed and ancient mine workings can exist, and unrecorded mine workings or mineralised veins can never be ruled out. Groundsure cannot be held responsible for any settlement or subsidence associated with unrecorded mining features, or from mining plans that are not publically available.

If the property or site is subject to future development we recommend that the ownership of the minerals below the site's surface is established. This detail may be sought from a legal adviser or via the Land Registry. You can then assess whether there is a possibility of any proposed development disturbing or trespassing upon any minerals in third party ownership at the site.

In addition, a mining site investigation may be required to satisfy planning or building regulation conditions. Contact Groundsure for further advice.

Coal Authority data

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Satellite monitoring

SatSense produces countrywide ground movement products based on satellite radar data. For property movement products in the UK we use data from the ESA Sentinel-1 satellite constellation, which has a resolution of 4 by 14 metres. This means that the smallest objects we can detect are the size of a large shed, and we often get multiple measurement points over individual houses. We receive a new radar image every six days, and data collection started in 2015 (although initially, acquisition frequency was lower). This means we have 250+ measurements in time everywhere in the UK. By analysing this long time history using a technique known as InSAR, we can detect long-term movements as low as 1 mm/yr, which is far below movement levels expected to cause property damage.

What is InSAR?

Interferometric Synthetic Aperture Radar (InSAR) is a processing technique that uses the difference between radar images to detect ground movements with high precision. Two (or more) radar images are overlaid such that they match exactly, and the radar measurements for every matching pixel in the images are differenced. The phase information from this difference is then used to extract ground movement for every pixel. SatSense processes all available data over the United Kingdom.

Why can't we measure everywhere?

A limitation of InSAR is that it relies on consistent radar returns from the reflecting surface (buildings, fields, woodland). While some types of surfaces, like buildings, bridges and bare ground are naturally very consistent, ground cover like dense vegetation and fast-growing crops inherently can vary rapidly over time and therefore interfere with the radar measurement. During our processing, we detect which points provide usable measurements, and which points have had too much interference. This means coverage is variable; dense in urban areas, but much more sparse in rural areas.

Why do we need risk indices?

The SatSense ground movement product measures a wide range of ground movements, from long-term, large regional signals to event level movement of individual points. Not all movements have the same damage potential for buildings. Compare an entire town that is subsiding due to groundwater variations to a single building subsiding due to local instability. Buildings in the subsiding town are all moving at very similar rates, meaning there is little to no relative movement between them. This makes the potential for damage much lower than the individual building moving with respect to its neighbours.

To differentiate between different types of movements, we've developed a way to extract different types of movements that are potentially damaging to property. This information is captured by the SatSense risk indices. These risk indices are described below:

- **Property** - This shows any long-term differential movement of the property with respect to its immediate surroundings, in other words, very localised movements. Examples of processes that could flag up this risk index would be trees affecting the nearby water table, local ground instability and small scale nearby building work.
- **Surrounds** – Focuses on slightly larger scale movements, how is the street or estate moving with respect to the wider area. Examples of processes that could flag up this risk index are tunnelling, large scale nearby building work and groundwater extraction.
- **Local Area** - Our widest scale index, showing how a town/neighbourhood as a whole is moving. This index is normally flagged up due to the presence of large scale historic mining or large scale groundwater extraction. Due to the wide area and the limited potential for damage likely to be associated with this type of movement, this index will only indicate amber or green, never red.
- **Gradient** – Looks for bending over medium spatial scales. This index will flag up properties that might not be moving much themselves but are being affected by movements in the vicinity.
- **Acceleration** - Looks at the recent changes in movements, flagging up properties that might not have historically been moving, but have recently seen an increase. It also provides information on whether properties that have moved historically continue to move, or whether the movement is decreasing.
- **Range** – Looks at the amplitude of movement over time. This will highlight periodic (seasonal) movements, and event style movements like sinkholes.

National Coastal Erosion Risk Mapping (NCERM)

The National Coastal Erosion Risk Mapping (2018-2021) shows the coastal baseline. This baseline is split to 'frontages'. These are defined as lengths of the coast with consistent characteristics based on the cliff behaviour characteristics and the defence characteristics. It is intended as an up-to-date and reliable benchmark dataset showing erosion extents and rates for three periods:



- Short Term (0 – 20yr);
- Medium Term (20 – 50yr); and
- Long Term (50 – 100yr).

For the 5th, 50th and 95th percentile confidence levels (degrees of certainty, where 95th percentile equates to 95% certainty) for:

- No Active Intervention Policy Scenario; and
- With the implementation of Shoreline Management Plan (SMP) 2 Policies.

Defence type and SMP policies for each of the three periods described above are included.

The data and associated information is intended for guidance - it cannot provide details for individual properties. The NCERM information considers the predominant risk at the coast, although flooding and erosion processes are often linked, and data on the erosion of foreshore features are, in general, not included.

The data describes the upper and lower estimates of erosion risk at a particular location, within which the actual location of the coastline is expected to lie. The data does not estimate the absolute location of the future coastline. Details of geologically complex areas, known as "complex cliffs" are, in general, not included within the estimates of erosion risk due to the inherent uncertainties associated with predicting the timing and extent of erosion at these locations.

This dataset succeeds National Coastal Erosion Risk Mapping (NCERM) - National (2012 - 2017) Attribution statement: © Environment Agency copyright and/or database right

BGS Property Shrink Swell Assessment

This dataset uses OS Open Maps building polygons to derive its assessment. These are often representative of more than one building and so the score assigned is representative of the highest risk found within the connected building units e.g. a pair of semi-detached properties or a terraced row. The baseline mapping used to derive the assessment will be updated at least annually.

The assessment does not cover any man-made hazards and is based on, and limited to the input datasets including OS Open Buildings, Office for National Statistics data, Bluesky Tree Map and BGS GeoSure shrink-swell. An indication of natural ground instability related to shrink-swell does not necessarily mean that a location will definitely be affected by ground movement or subsidence. Such an assessment can only be made by inspection of the area by a qualified professional.



Conveyancing Information Executive and our terms & conditions

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- liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Operations Director, Groundsure Ltd, Nile House, Nile Street, Brighton, BN1 1HW. Tel: 01273 257 755. Email: info@groundsure.com

↗ If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk ↗ We will co-operate fully with the Ombudsman during an investigation and comply with their final decision.

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