# SITE INVESTIGATIONS

## Mining Risk Assessment

Where a mining risk is identified within the property boundary a risk assessment is recommended. It aims to identify mining related ground instability that could have an impact on property value.

The site visit will include a visual inspection of the external elevations of the building, outbuildings and garden areas. A written report is provided on the observations, with any recommendations for next steps.

### Key Features

- Unique and comprehensive datasets combining over 40 years of site investigations and our unique mining archive
- Inspections conducted by our expert geologists
- Bespoke assessment to mitigate risks or recommend further actions
- Considers the entire site, not just the buildings

## Trenching

This option is suitable for vacant sites that are accessible by digger.
It is appropriate for visualising mining features and ground conditions and can support Phase 2 Contaminated Land sampling.

### Key Features

- Overhead and underground utility locations assessed
- Ground conditions and mining features recorded
- Depths vary by ground conditions and types of materials excavated
- Written report produced within 10 working day, depending on site complexity

## Drilling

Best suited where access to the site is restricted, to assess surface/near surface ground conditions.

### Key Features

- Overhead and underground utility locations assessed
- A sequence of boreholes drilled
- Drill speed, hammer rate and returns provide an indication of ground conditions
- Each completed hole infilled and sealed
- Written report produced within 2 working days, depending on site complexity
- Report includes plans, cross sections and borehole logs, with clear advice if mining features are encountered

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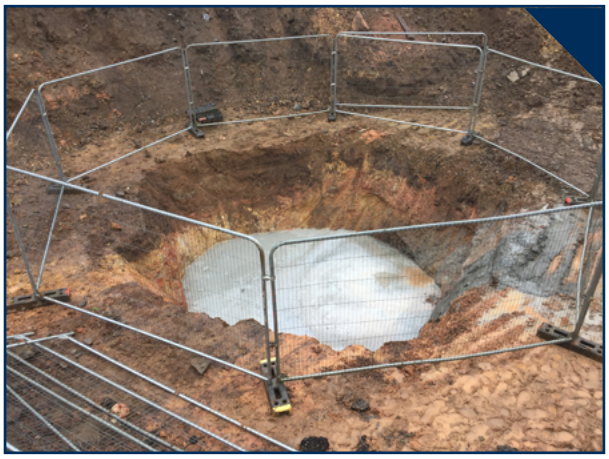
## Foundation Inspection

- Foundation trench excavations are inspected by our mining geologists for signs of mining activity
- Clear advice is provided if mining features are encountered
- Turnaround is within five working days
- Satisfies Building Control and NHBC (National House Building Council) requirements

## Remediation

Once the extent of discovered mine workings are known we can discuss and agree a remediation strategy based on the following options:

1. Protection measures – include fencing a mine shaft, fitting protective grills preventing access to tunnels and adding geotextile reinforced soils over workings
2. Ground replacement – can be as simple as re-filling a shallow surface pit with a suitable material, or various types of grouting of sub-surface mine workings
3. Structural solutions – such as mass concrete plugging and reinforced concrete capping



## Key Features

- Concrete plug designs provided by Groundsure
- Accepted by local authority building control, NHBC and others
- In conjunction with selected specialist contractors to carry out works under Groundsure's supervision
- Liaison with structural engineers to agree suitable scheme if building affected by mine workings

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## Contaminated Land

### Phase 1: desktop study

- An assessment of risks from contamination based upon historic, geological, environmental data and includes a site walkover
- Turnaround is typically within five working days

### Phase 2: sample collection and analysis

- Soil and possibly water samples are taken from the site and tested by an accredited laboratory
- The results are analysed and the contamination risk determined
- Turnaround is typically within 12-15 working days, including laboratory analysis time

### Phase 3: remediation strategy

- If potentially contaminated a strategy to remediate the site is required
- Turnaround is typically within five working days

### Phase 4: remediation inspection

- An inspection and validation report is required to verify the Phase 3 remediation strategy has been followed
- Turnaround is typically within five working days

### Get in touch

To talk to our team or order a site investigation, contact us on: **+44(0)1209 218 861** or email us at: geology@groundsure.com