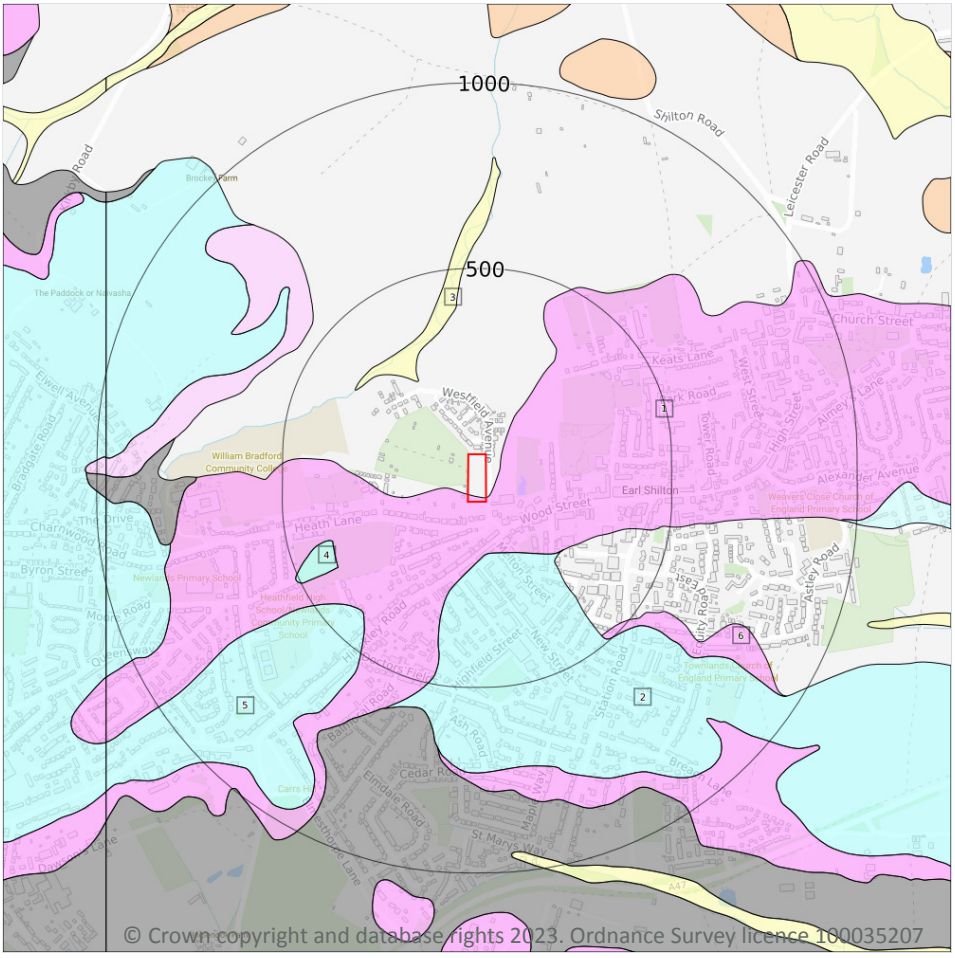
# Geology 1:10,000 scale - Superficial




Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

## 1.3 Superficial geology (10k)

**Records within 500m** **6**

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 13 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **WOSG-XSV** | **Wolston Sand And Gravel - Sand And Gravel** | **Sand And Gravel** |
| 2 | 140m S | ODT-DMTN | Oadby Member - Diamicton | Diamicton |
| 3 | 238m NW | ALV-XCZSV | Alluvium - Clay, Silt, Sand And Gravel | Clay, Silt, Sand And Gravel |
| 4 | 380m SW | ODT-DMTN | Oadby Member - Diamicton | Diamicton |

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 5 | 410m SW | ODT-DMTN | Oadby Member - Diamicton | Diamicton |
| 6 | 477m SE | WOSG-XSV | Wolston Sand And Gravel - Sand And Gravel | Sand And Gravel |

*This data is sourced from the British Geological Survey.*

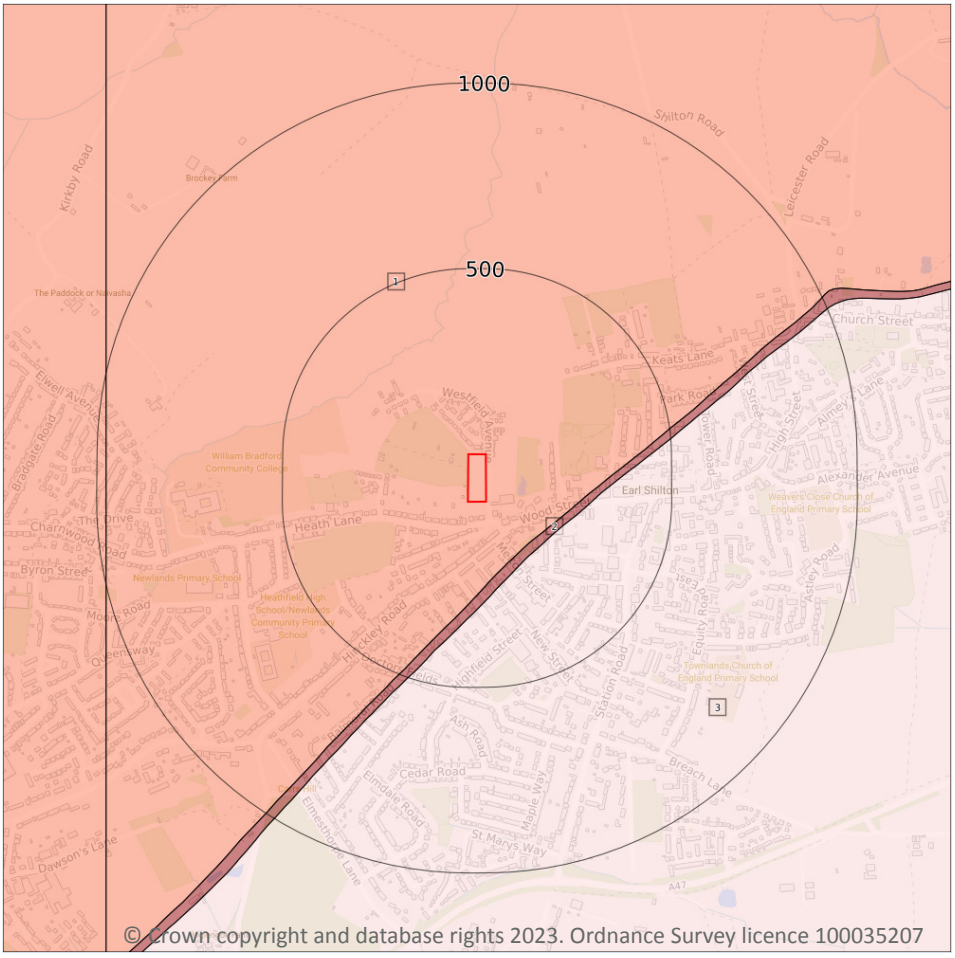
## 1.4 Landslip (10k)

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

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

# Geology 1:10,000 scale - Bedrock




Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

## 1.5 Bedrock geology (10k)

| Records within 500m | 3 |
|---|---|

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 15 >**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **GUN-MDST** | **Gunthorpe Member - Mudstone** | **Ladinian Age - Anisian Age** |
| 2 | 160m SE | COT-SDST | Cotgrave Sandstone Member - Sandstone | Carnian Age |
| 3 | 186m SE | EDW-MDST | Edwalton Member - Mudstone | Carnian Age |

*This data is sourced from the British Geological Survey.*

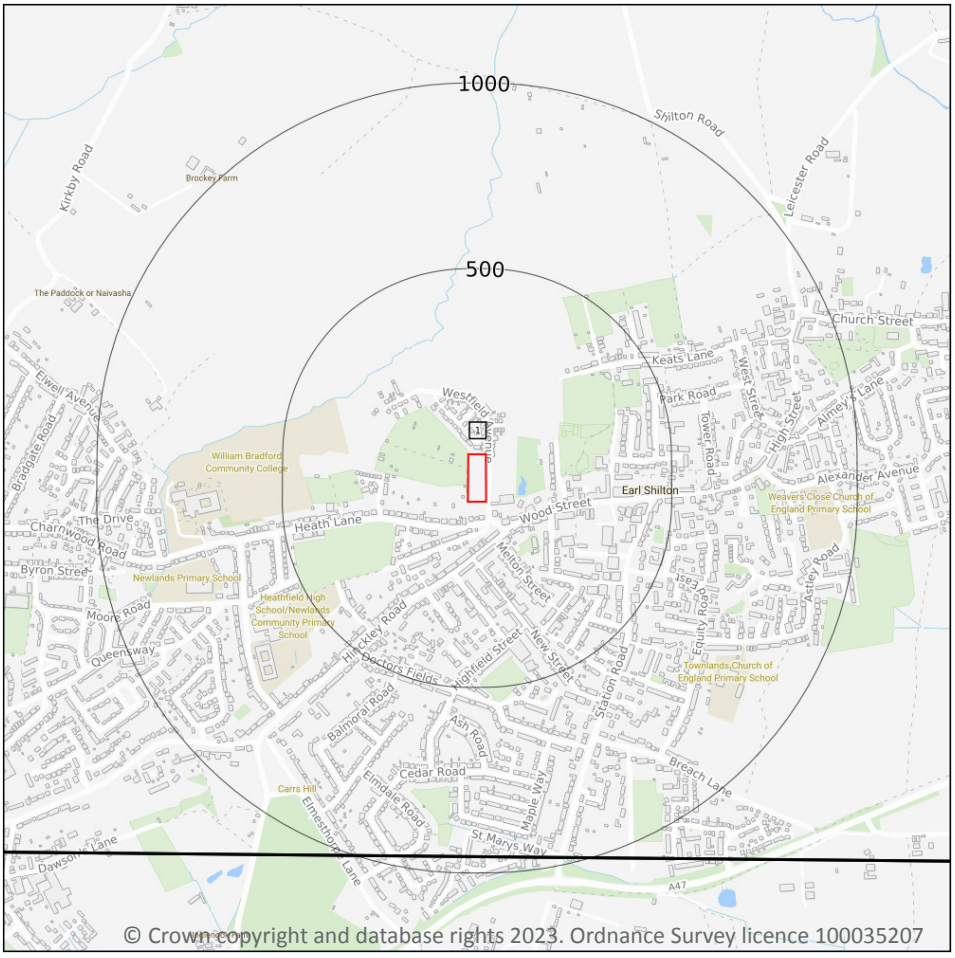
## 1.6 Bedrock faults and other linear features (10k)

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

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*

# 2 Geology 1:50,000 scale - Availability




Site Outline

Search buffers in metres (m)

Geological map tile

## 2.1 50k Availability

| Records within 500m | 1 |
|---|---|

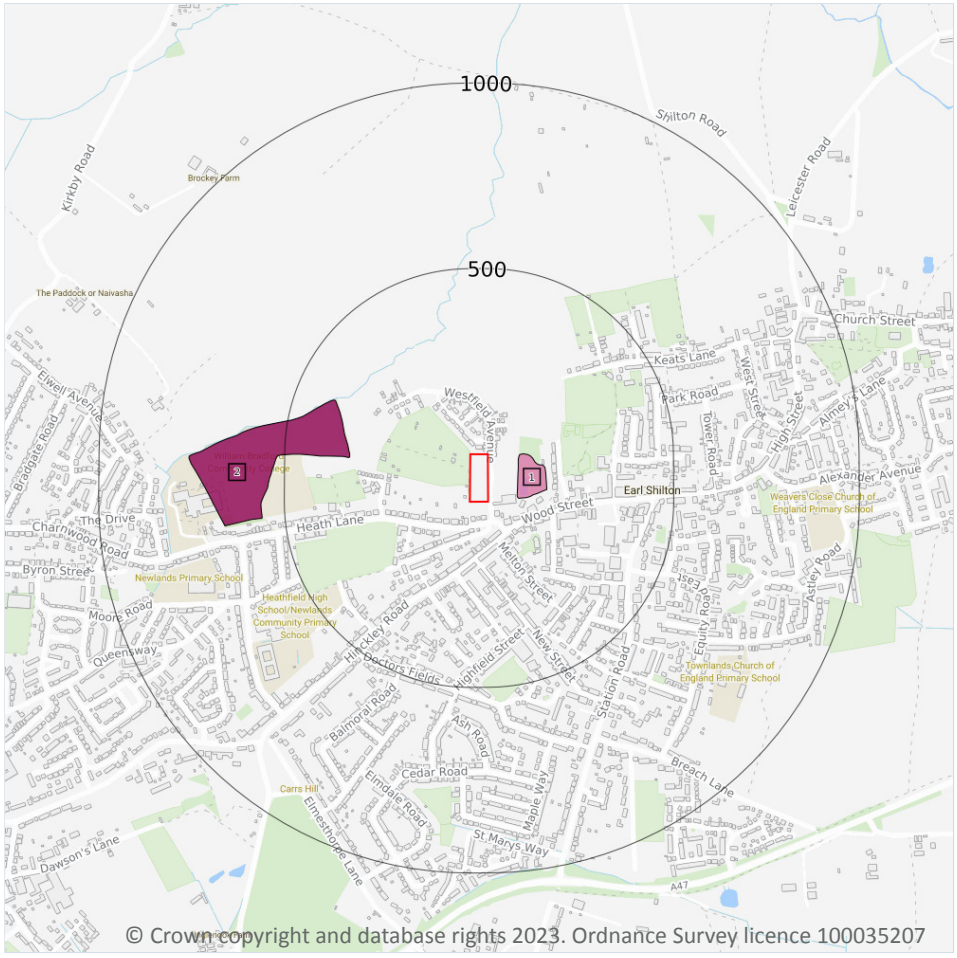
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 17 >**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|---|---|---|---|---|---|---|
| **1** | **On site** | **Full** | **Full** | **Full** | **Full** | **EW155_coalville_v4** |

*This data is sourced from the British Geological Survey.*

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




Site Outline

Search buffers in metres (m)

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

## 2.2 Artificial and made ground (50k)

| Records within 500m | 2 |
|---|---|

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 18 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 1 | 78m SE | WGR-VOID | WORKED GROUND (UNDIVIDED) | VOID |
| 2 | 325m W | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

*This data is sourced from the British Geological Survey.*

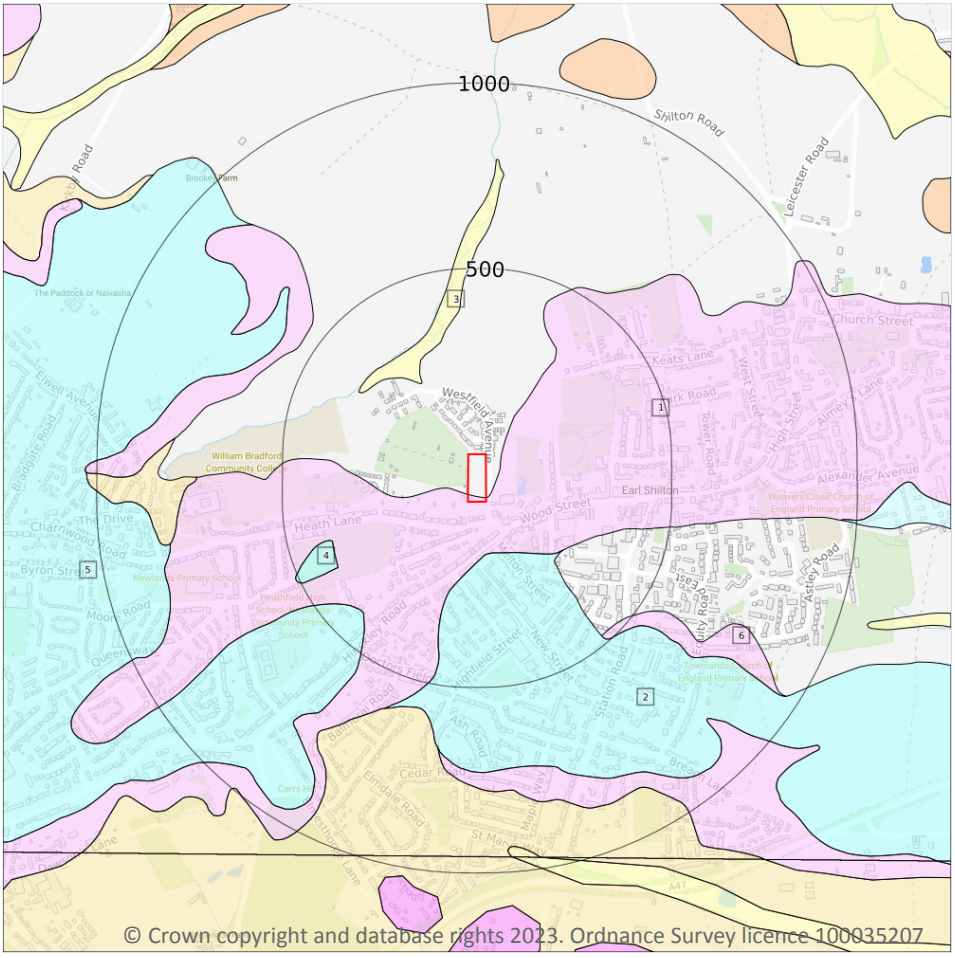
## 2.3 Artificial ground permeability (50k)

| Records within 50m | 0 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*

# Geology 1:50,000 scale - Superficial




Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

## 2.4 Superficial geology (50k)

**Records within 500m** **6**

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 20 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **WIGS-XSV** | **WIGSTON MEMBER** | **SAND AND GRAVEL** |
| 2 | 139m S | ODT-DMTN | OADBY MEMBER | DIAMICTON |
| 3 | 229m NW | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |
| 4 | 380m SW | ODT-DMTN | OADBY MEMBER | DIAMICTON |

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 5 | 411m SW | ODT-DMTN | OADBY MEMBER | DIAMICTON |
| 6 | 477m SE | WIGS-XSV | WIGSTON MEMBER | SAND AND GRAVEL |

*This data is sourced from the British Geological Survey.*

## 2.5 Superficial permeability (50k)

| Records within 50m | 1 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|---|---|---|---|
| **On site** | **Intergranular** | **Very High** | **High** |

*This data is sourced from the British Geological Survey.*

## 2.6 Landslip (50k)

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

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

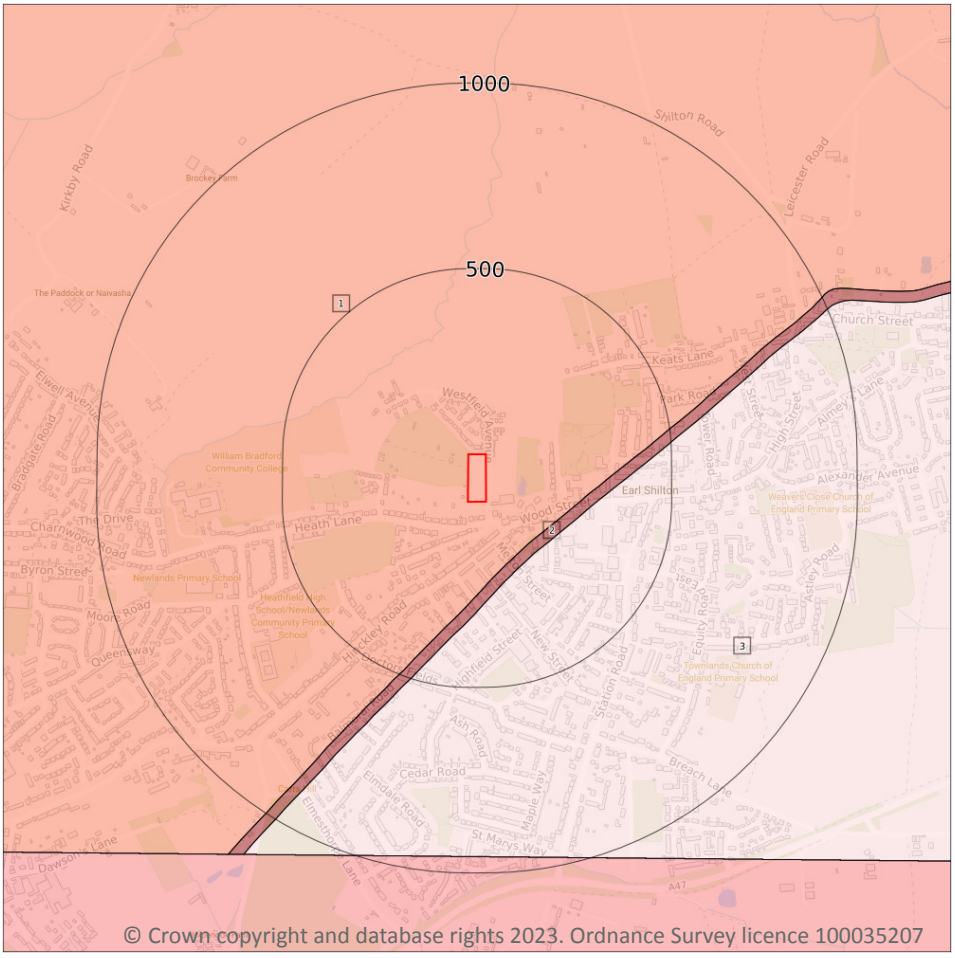
## 2.7 Landslip permeability (50k)

| Records within 50m | 0 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*

# Geology 1:50,000 scale - Bedrock





Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

## 2.8 Bedrock geology (50k)

**Records within 500m** **3**

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 22 >**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **GUN-MDST** | **GUNTHORPE MEMBER - MUDSTONE** | **ANISIAN** |
| 2 | 161m SE | COT-SDST | COTGRAVE SANDSTONE MEMBER - SANDSTONE | CARNIAN |
| 3 | 190m SE | EDW-MDST | EDWALTON MEMBER - MUDSTONE | CARNIAN |

*This data is sourced from the British Geological Survey.*

## 2.9 Bedrock permeability (50k)

| Records within 50m | 1 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|---|---|---|---|
| **On site** | **Fracture** | **Low** | **Low** |

*This data is sourced from the British Geological Survey.*

## 2.10 Bedrock faults and other linear features (50k)

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

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*

# 3 Boreholes


Site Outline

Search buffers in metres (m)

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

## 3.1 BGS Boreholes

**Records within 250m** **8**

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

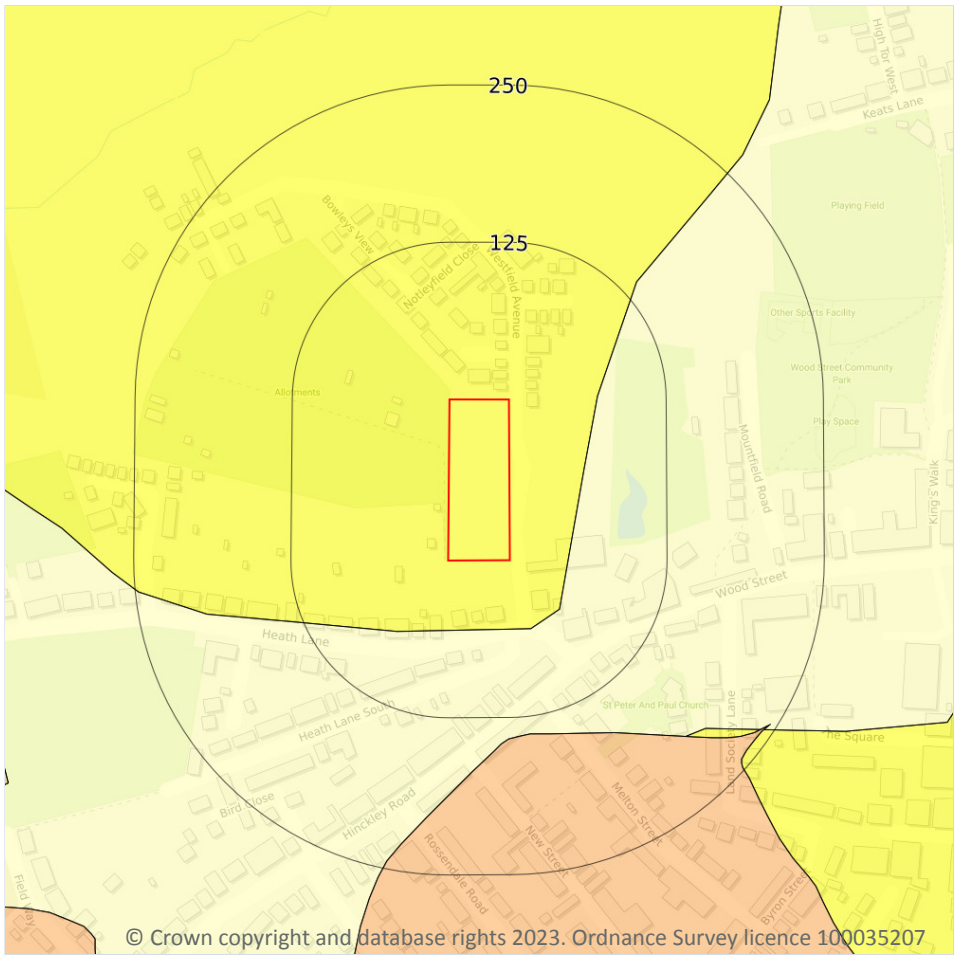
Features are displayed on the Boreholes map on **page 24 >**

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| A | 197m SW | 445850 297600 | 104 HINCKLEY ROAD EARL SHILTON WS1 | - | Y | N/A |
| A | 203m SW | 445840 297600 | 104 HINCKLEY ROAD EARL SHILTON 4 | - | Y | N/A |
| A | 207m SW | 445860 297580 | 104 HINCKLEY ROAD EARL SHILTON WS2 | - | Y | N/A |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| A | 217m SW | 445830 297590 | 104 HINCKLEY ROAD EARL SHILTON WS7 | - | Y | N/A |
| A | 221m SW | 445850 297570 | 104 HINCKLEY ROAD EARL SHILTON WS3 | - | Y | N/A |
| A | 232m SW | 445860 297550 | 104 HINCKLEY ROAD EARL SHILTON WS4 | - | Y | N/A |
| A | 238m SW | 445810 297580 | 104 HINCKLEY ROAD EARL SHILTON WS6 | - | Y | N/A |
| A | 250m SW | 445860 297530 | 104 HINCKLEY ROAD EARL SHILTON 1 | - | Y | N/A |

*This data is sourced from the British Geological Survey.*

# 4 Natural ground subsidence - Shrink swell clays




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.1 Shrink swell clays

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

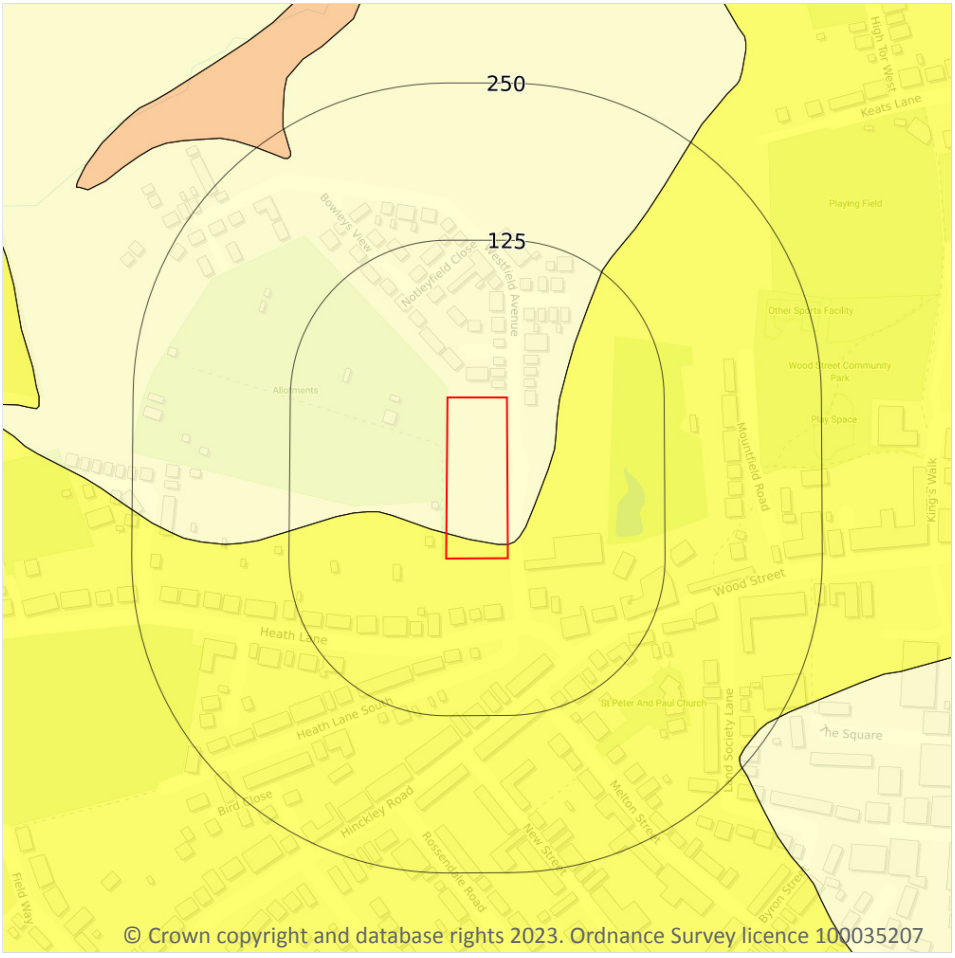
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 26 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Ground conditions predominantly low plasticity.** |
| 46m SE | Negligible | Ground conditions predominantly non-plastic. |

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Running sands




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.2 Running sands

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

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

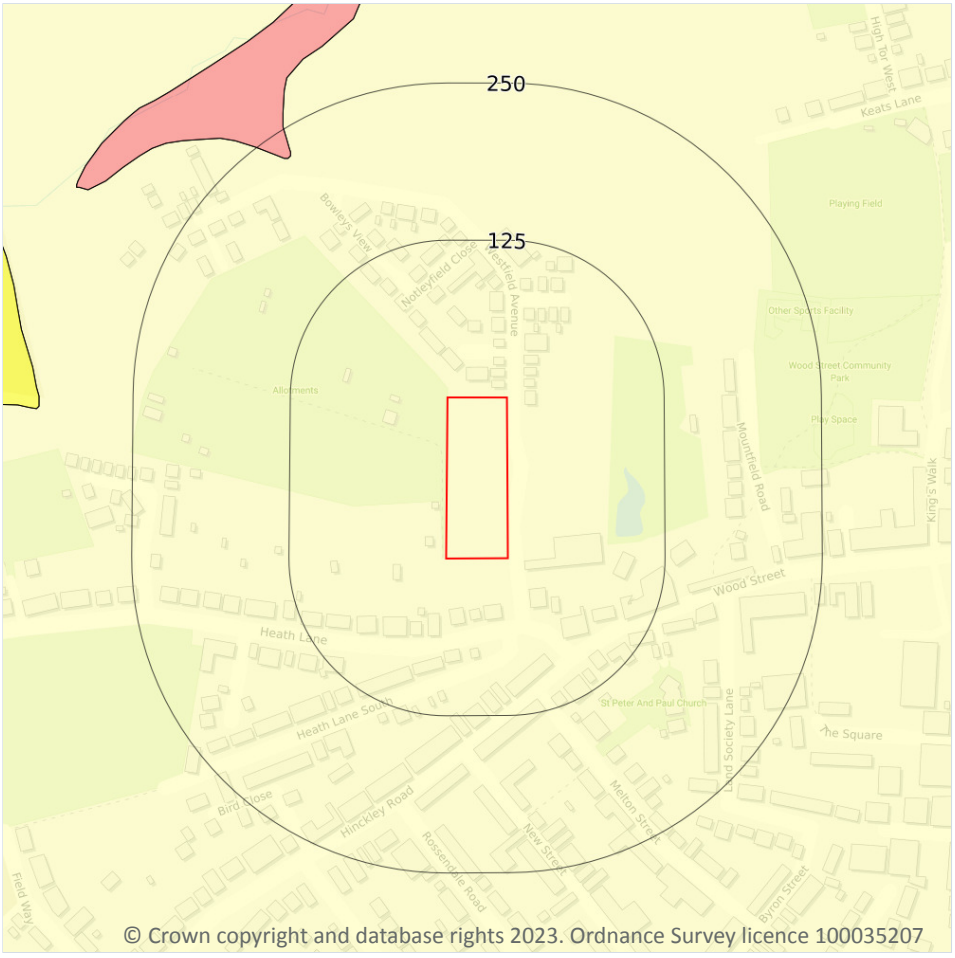
Features are displayed on the Natural ground subsidence - Running sands map on **page 27 >**

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

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.** |

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Compressible deposits




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.3 Compressible deposits

| Records within 50m | 1 |
|---|---|

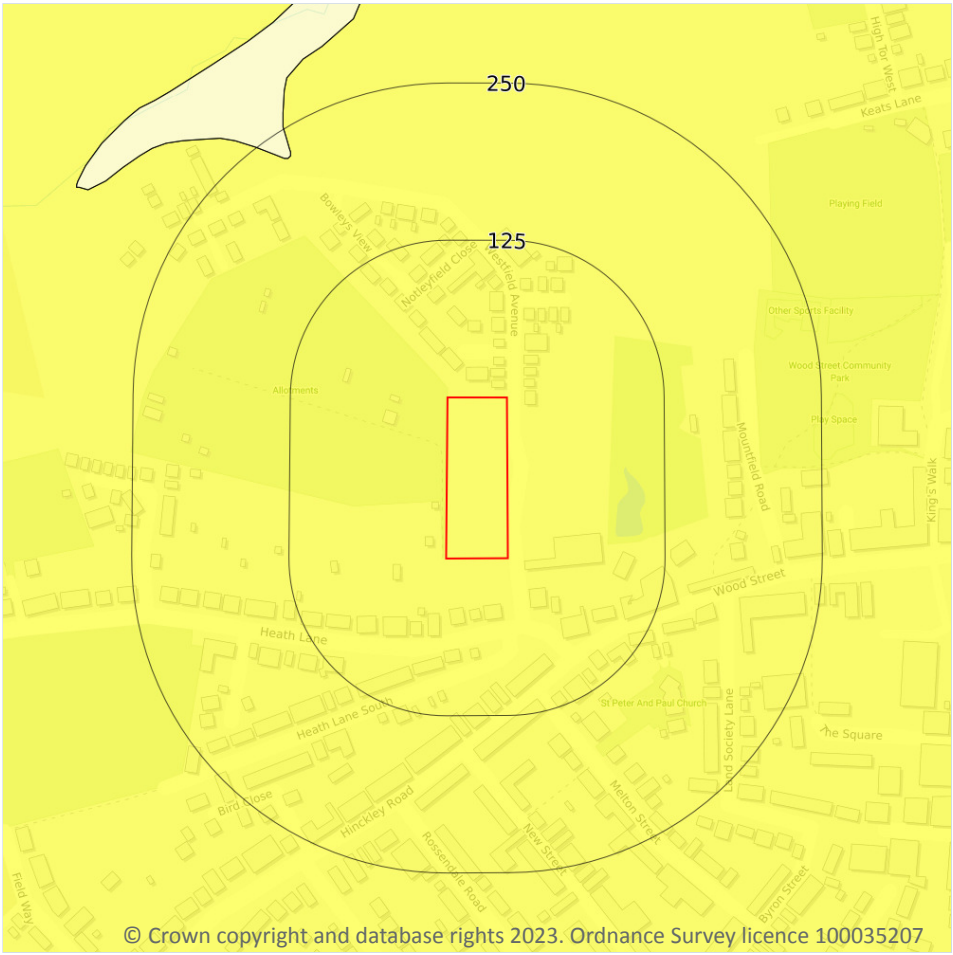
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 29 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Compressible strata are not thought to occur.** |

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Collapsible deposits




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.4 Collapsible deposits

| Records within 50m | 1 |
|---|---|

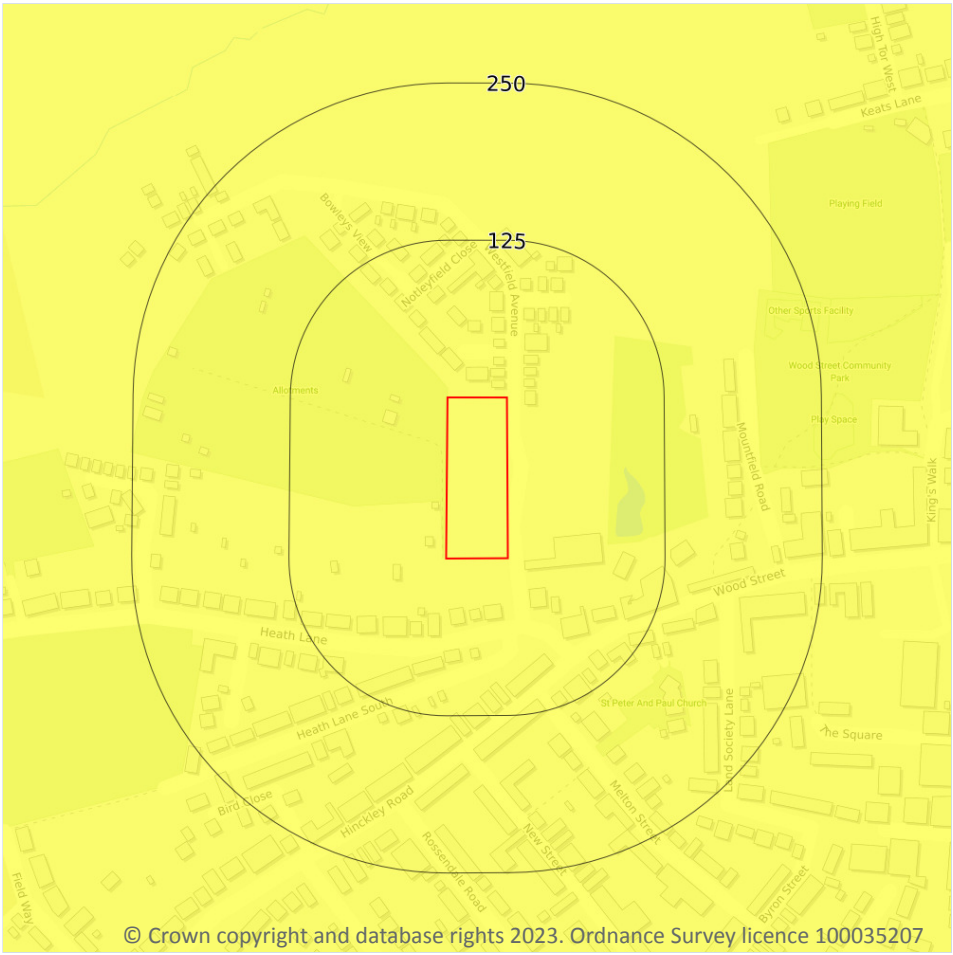
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 30 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Deposits with potential to collapse when loaded and saturated are unlikely to be present.** |

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Landslides




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.5 Landslides

| Records within 50m | 1 |
|---|---|

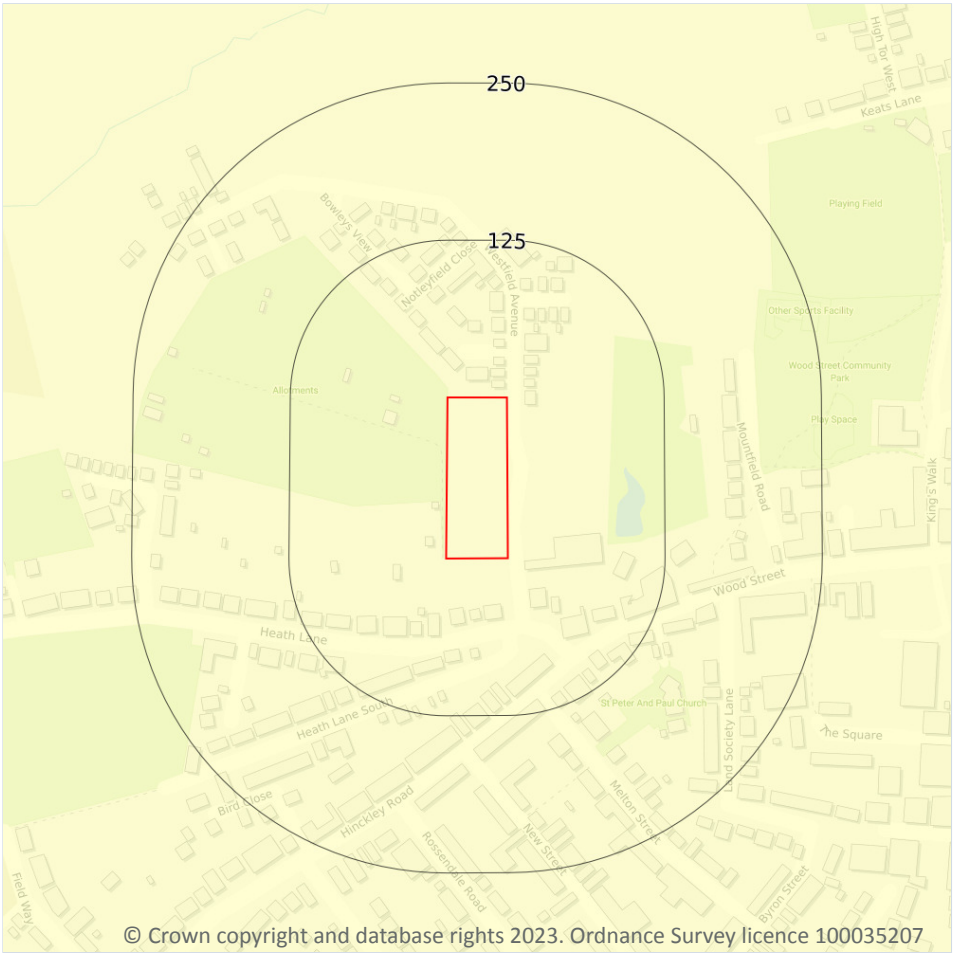
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 31 >**

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

*This data is sourced from the British Geological Survey.*

# Natural ground subsidence - Ground dissolution of soluble rocks




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 4.6 Ground dissolution of soluble rocks

| Records within 50m | 1 |
|---|---|

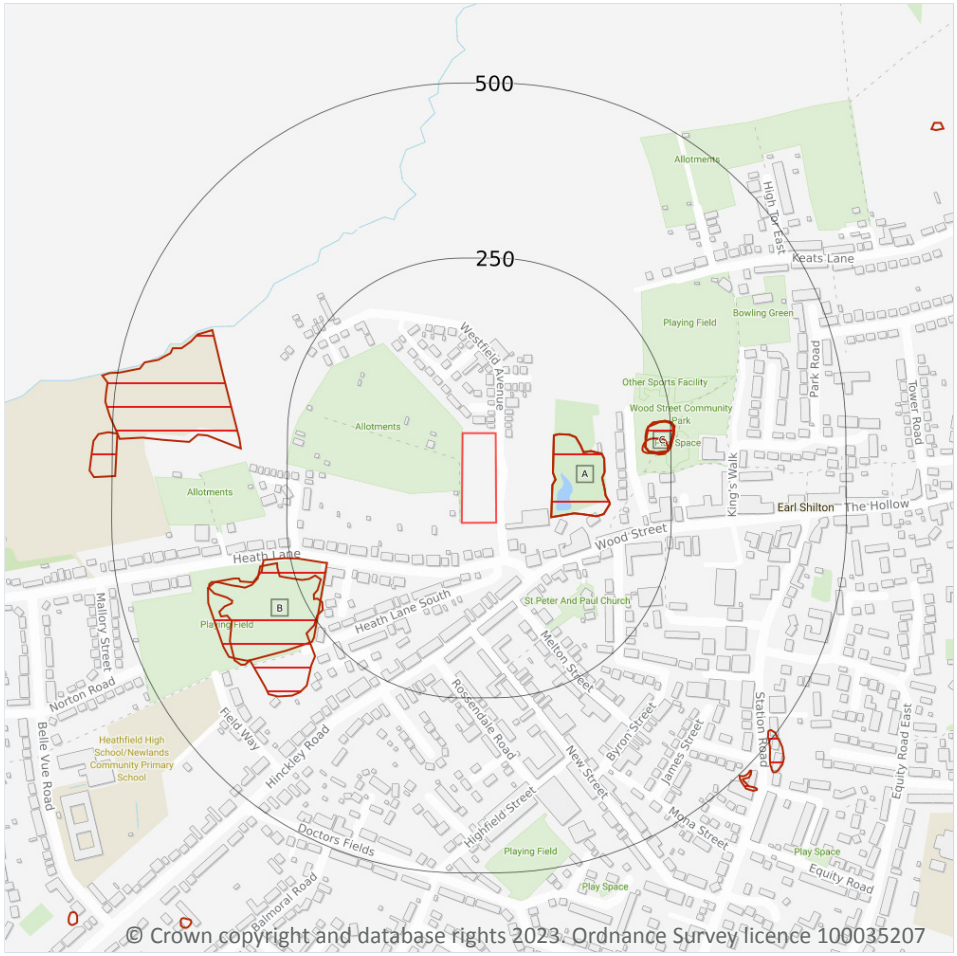
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 32 >**

| 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.** |

*This data is sourced from the British Geological Survey.*

# 5 Mining and ground workings




Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

## 5.1 BritPits

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

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.

*This data is sourced from the British Geological Survey.*

## 5.2 Surface ground workings

| Records within 250m | 8 |
|---|---|

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

Features are displayed on the Mining and ground workings map on **page 34 >**

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| A | 79m SE | Pond | 1968 | 1:10560 |
| A | 79m SE | Pond | 1978 | 1:10000 |
| B | 201m SW | Refuse Heap | 1978 | 1:10000 |
| C | 209m E | Unspecified Pit | 1904 | 1:10560 |
| C | 213m E | Unspecified Pit | 1950 | 1:10560 |
| C | 214m E | Clay Pit | 1914 | 1:10560 |
| C | 214m E | Unspecified Pit | 1938 | 1:10560 |
| B | 217m SW | Sand Pits | 1950 | 1:10560 |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 5.3 Underground workings

| Records within 1000m | 0 |
|---|---|

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

*This is data is sourced from Ordnance Survey/Groundsure.*

## 5.4 Underground mining extents

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

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

*This data is sourced from Groundsure.*

## 5.5 Historical Mineral Planning Areas

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

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

*This data is sourced from the British Geological Survey.*

## 5.6 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.*

## 5.7 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.*

## 5.8 The Coal Authority non-coal mining

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

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

*This data is sourced from The Coal Authority.*

## 5.9 Researched mining

| Records within 500m | 1 |
|---|---|

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

| Location | Mineral type |
|---|---|
| 287m SW | Stone |

*This data is sourced from Groundsure.*

## 5.10 Mining record office plans

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

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 5.11 BGS mine plans

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

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 5.12 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.*

## 5.13 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.*

## 5.14 Gypsum areas

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 5.15 Tin mining

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

## 5.16 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).*

# 6 Ground cavities and sinkholes

## 6.1 Natural cavities

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

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.

*This data is sourced from Stantec UK Ltd.*

## 6.2 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.*

## 6.3 Reported recent incidents

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

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

*This data is sourced from Groundsure.*

## 6.4 Historical incidents

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

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

*This data is sourced from Groundsure.*

## 6.5 National karst database

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

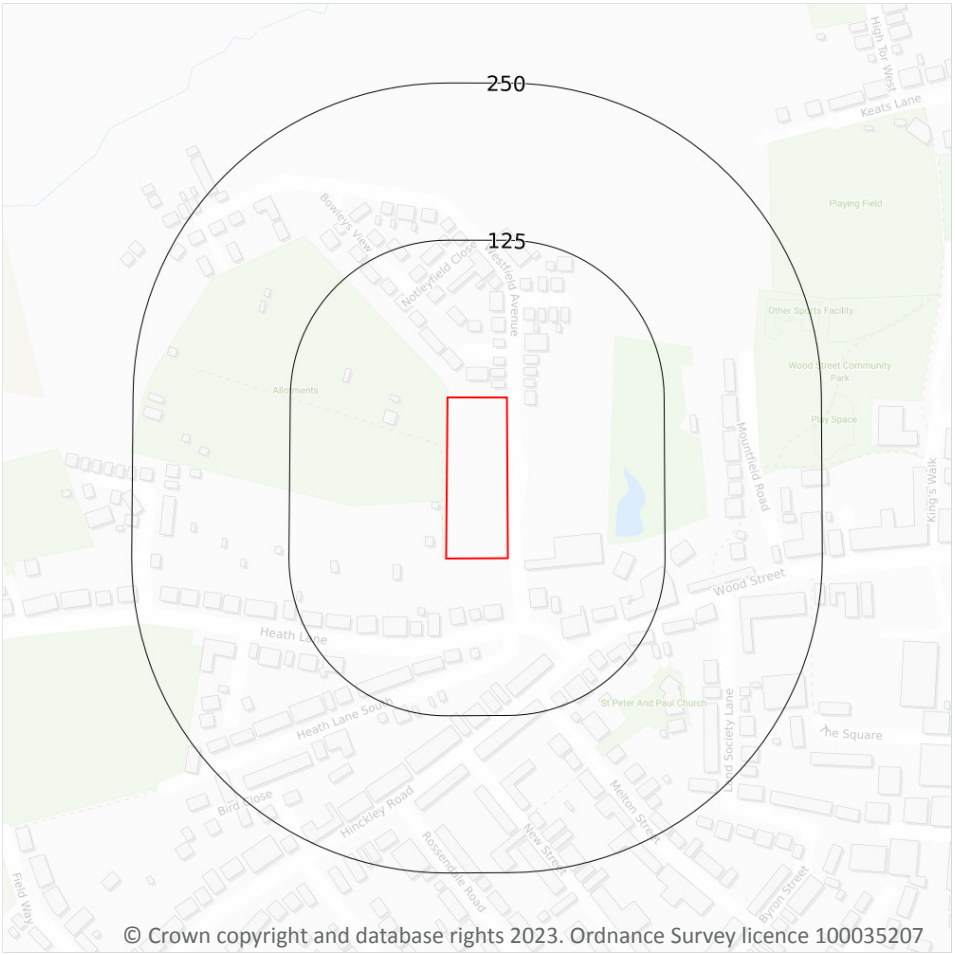
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

*This data is sourced from the British Geological Survey.*

# 7 Radon




Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

## 7.1 Radon

| Records on site | 1 |
|---|---|

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 41 >**

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

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

# 8 Soil chemistry

## 8.1 BGS Estimated Background Soil Chemistry

| Records within 50m | 4 |
|---|---|

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 $km^2$. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 $km^2$; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|---|---|---|---|---|---|---|---|
| **On site** | **15 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **20 - 40 mg/kg** | **15 mg/kg** |
| **On site** | **15 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **40 - 60 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **40 - 60 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **20 - 40 mg/kg** | **15 mg/kg** |

*This data is sourced from the British Geological Survey.*

## 8.2 BGS Estimated Urban Soil Chemistry

| Records within 50m | 0 |
|---|---|

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per $km^2$).

*This data is sourced from the British Geological Survey.*

## 8.3 BGS Measured Urban Soil Chemistry

| Records within 50m | 0 |
|---|---|

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per $km^2$.

*This data is sourced from the British Geological Survey.*

# 9 Railway infrastructure and projects

## 9.1 Underground railways (London)

| Records within 250m | 0 |
|---|---|

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

## 9.2 Underground railways (Non-London)

| Records within 250m | 0 |
|---|---|

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

*This data is sourced from publicly available information by Groundsure.*

## 9.3 Railway tunnels

| Records within 250m | 0 |
|---|---|

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 9.4 Historical railway and tunnel features

| Records within 250m | 0 |
|---|---|

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

*This data is sourced from Ordnance Survey/Groundsure.*

## 9.5 Royal Mail tunnels

| Records within 250m | 0 |
|---|---|

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

*This data is sourced from Groundsure/the Postal Museum.*

## 9.6 Historical railways

| Records within 250m | 0 |
|---|---|

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 9.7 Railways

| Records within 250m | 0 |
|---|---|

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 9.8 Crossrail 1

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

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 9.9 Crossrail 2

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

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 9.10 HS2

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

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

*This data is sourced from HS2 ltd.*

## Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

## Terms and conditions

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

Groundsure LOCATION INTELLIGENCE

Enviro Insight

# Former Westfield Farm, Westfield Avenue, Earl Shilton,

## Order Details

**Date:** 20/09/2023

**Your ref:** 23-811-FDO-22416g

**Our Ref:** HMD-154-9DN-JEC-AJW-WNP

## Site Details

**Location:** 446004 297819

**Area:** 0.62 ha

**Authority:** Hinckley and Bosworth Borough Council ↗





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

# Summary of findings

| Page | Section | Past land use > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 12 > | 1.1 > | Historical industrial land uses > | 0 | 0 | 8 | 23 | - |
| 14 > | 1.2 > | Historical tanks > | 0 | 0 | 3 | 5 | - |
| 14 > | 1.3 > | Historical energy features > | 0 | 0 | 4 | 11 | - |
| 15 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 16 > | 1.5 > | Historical garages > | 0 | 0 | 0 | 6 | - |
| 16 | 1.6 | Historical military land | 0 | 0 | 0 | 0 | - |
| Page | Section | Past land use - un-grouped > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 17 > | 2.1 > | Historical industrial land uses > | 0 | 0 | 11 | 30 | - |
| 19 > | 2.2 > | Historical tanks > | 0 | 0 | 5 | 6 | - |
| 20 > | 2.3 > | Historical energy features > | 0 | 0 | 7 | 16 | - |
| 21 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 21 > | 2.5 > | Historical garages > | 0 | 0 | 0 | 14 | - |
| Page | Section | Waste and landfill > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 23 | 3.1 | Active or recent landfill | 0 | 0 | 0 | 0 | - |
| 23 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 0 | - |
| 24 > | 3.3 > | Historical landfill (LA/mapping records) > | 0 | 0 | 1 | 1 | - |
| 24 > | 3.4 > | Historical landfill (EA/NRW records) > | 0 | 0 | 2 | 2 | - |
| 25 > | 3.5 > | Historical waste sites > | 0 | 0 | 0 | 1 | - |
| 25 | 3.6 | Licensed waste sites | 0 | 0 | 0 | 0 | - |
| 26 > | 3.7 > | Waste exemptions > | 0 | 1 | 8 | 5 | - |
| Page | Section | Current industrial land use > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 28 > | 4.1 > | Recent industrial land uses > | 0 | 0 | 11 | - | - |
| 29 | 4.2 | Current or recent petrol stations | 0 | 0 | 0 | 0 | - |
| 29 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 29 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 30 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 30 | 4.6 | Control of Major Accident Hazards (COMAH) | 0 | 0 | 0 | 0 | - |
| 30 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |
| 30 | 4.8 | Hazardous substance storage/usage | 0 | 0 | 0 | 0 | - |
| 30 | 4.9 | Historical licensed industrial activities (IPC) | 0 | 0 | 0 | 0 | - |
| 31 | 4.10 | Licensed industrial activities (Part A(1)) | 0 | 0 | 0 | 0 | - |
| **31 >** | **4.11 >** | **Licensed pollutant release (Part A(2)/B) >** | 0 | 0 | 1 | 0 | - |
| 31 | 4.12 | Radioactive Substance Authorisations | 0 | 0 | 0 | 0 | - |
| 31 | 4.13 | Licensed Discharges to controlled waters | 0 | 0 | 0 | 0 | - |
| 32 | 4.14 | Pollutant release to surface waters (Red List) | 0 | 0 | 0 | 0 | - |
| 32 | 4.15 | Pollutant release to public sewer | 0 | 0 | 0 | 0 | - |
| 32 | 4.16 | List 1 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 32 | 4.17 | List 2 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| **32 >** | **4.18 >** | **Pollution Incidents (EA/NRW) >** | 0 | 0 | 0 | 1 | - |
| 33 | 4.19 | Pollution inventory substances | 0 | 0 | 0 | 0 | - |
| 33 | 4.20 | Pollution inventory waste transfers | 0 | 0 | 0 | 0 | - |
| 33 | 4.21 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |

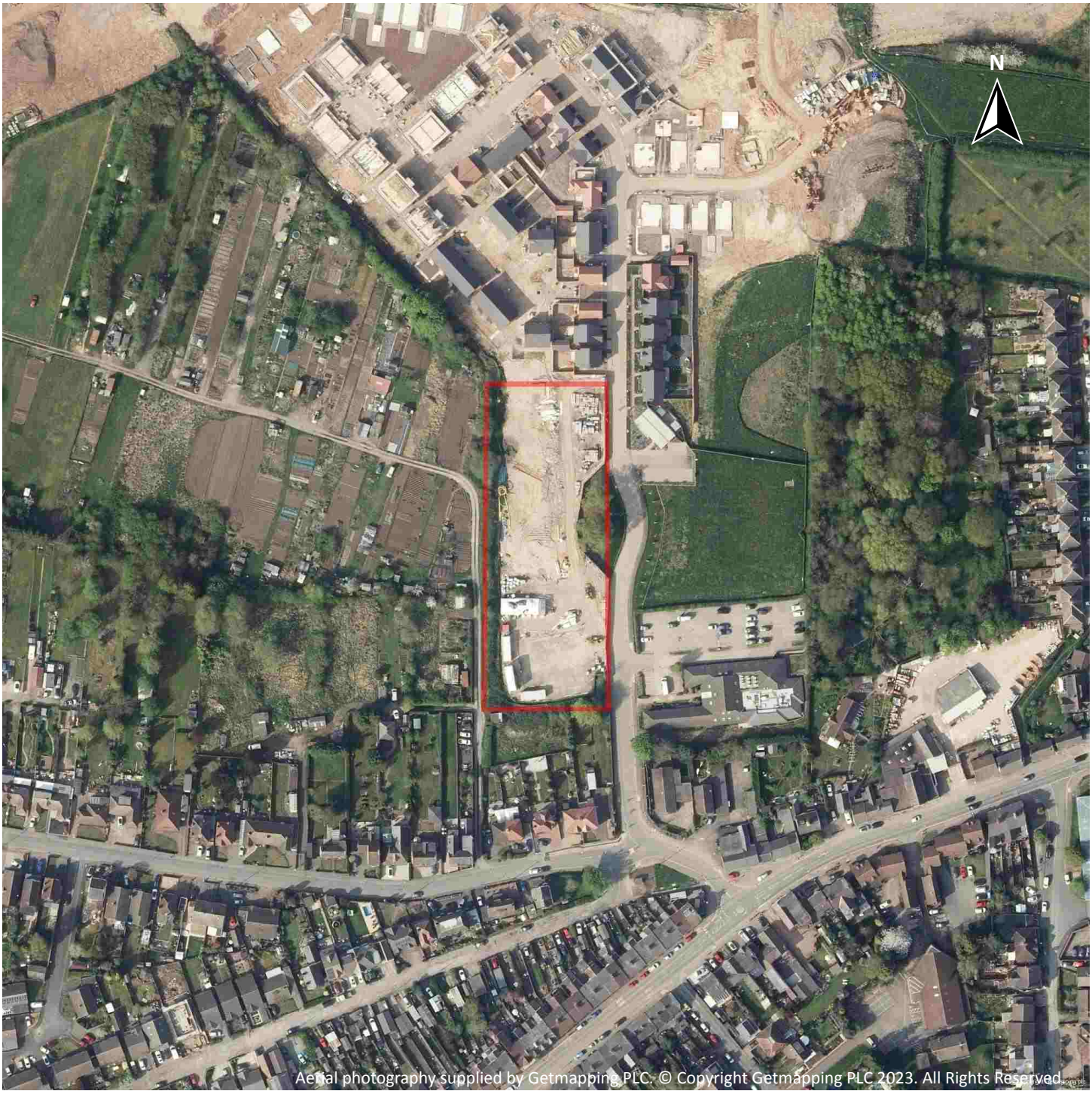
| Page | Section | **Geology (basic) >** | | | | | |
|---|---|---|---|---|---|---|---|
| **34 >** | **5.1 >** | **Superficial geology (625k) >** | Identified (within 500m) | | | | |
| **34 >** | **5.2 >** | **Bedrock geology (625k) >** | Identified (within 500m) | | | | |

| Page | Section | **Hydrogeology >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| **35 >** | **6.1 >** | **Superficial aquifer >** | Identified (within 500m) | | | | |
| **37 >** | **6.2 >** | **Bedrock aquifer >** | Identified (within 500m) | | | | |
| **39 >** | **6.3 >** | **Groundwater vulnerability >** | Identified (within 50m) | | | | |
| 40 | 6.4 | Groundwater vulnerability- soluble rock risk | None (within 0m) | | | | |
| 40 | 6.5 | Groundwater vulnerability- local information | None (within 0m) | | | | |
| **42 >** | **6.6 >** | **Groundwater abstractions >** | 0 | 0 | 1 | 1 | 2 |
| 43 | 6.7 | Surface water abstractions | 0 | 0 | 0 | 0 | 0 |
| 44 | 6.8 | Potable abstractions | 0 | 0 | 0 | 0 | 0 |
| 44 | 6.9 | Source Protection Zones | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 44 | 6.10 | Source Protection Zones (confined aquifer) | 0 | 0 | 0 | 0 | - |
| Page | Section | **Hydrology >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 45 | 7.1 | Water Network (OS MasterMap) | 0 | 0 | 0 | - | - |
| **45 >** | **7.2 >** | **Surface water features >** | 0 | 0 | 1 | - | - |
| **46 >** | **7.3 >** | **WFD Surface water body catchments >** | 1 | - | - | - | - |
| **46 >** | **7.4 >** | **WFD Surface water bodies >** | 0 | 0 | 0 | - | - |
| **47 >** | **7.5 >** | **WFD Groundwater bodies >** | 1 | - | - | - | - |
| Page | Section | River and coastal flooding | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 48 | 8.1 | Risk of flooding from rivers and the sea | None (within 50m) | | | | |
| 48 | 8.2 | Historical Flood Events | 0 | 0 | 0 | - | - |
| 48 | 8.3 | Flood Defences | 0 | 0 | 0 | - | - |
| 49 | 8.4 | Areas Benefiting from Flood Defences | 0 | 0 | 0 | - | - |
| 49 | 8.5 | Flood Storage Areas | 0 | 0 | 0 | - | - |
| 50 | 8.6 | Flood Zone 2 | None (within 50m) | | | | |
| 50 | 8.7 | Flood Zone 3 | None (within 50m) | | | | |
| Page | Section | **Surface water flooding >** | | | | | |
| **51 >** | **9.1 >** | **Surface water flooding >** | 1 in 1000 year, 0.1m - 0.3m (within 50m) | | | | |
| Page | Section | **Groundwater flooding >** | | | | | |
| **53 >** | **10.1 >** | **Groundwater flooding >** | Low (within 50m) | | | | |
| Page | Section | Environmental designations | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 54 | 11.1 | Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 |
| 54 | 11.2 | Conserved wetland sites (Ramsar sites) | 0 | 0 | 0 | 0 | 0 |
| 54 | 11.3 | Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 |
| 54 | 11.4 | Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 |
| 55 | 11.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 55 | 11.6 | Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 |
| 55 | 11.7 | Designated Ancient Woodland | 0 | 0 | 0 | 0 | 0 |
| 55 | 11.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |
| 56 | 11.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 56 | 11.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| 56 | 11.11 | Green Belt | 0 | 0 | 0 | 0 | 0 |
| 56 | 11.12 | Proposed Ramsar sites | 0 | 0 | 0 | 0 | 0 |
| 56 | 11.13 | Possible Special Areas of Conservation (pSAC) | 0 | 0 | 0 | 0 | 0 |
| 57 | 11.14 | Potential Special Protection Areas (pSPA) | 0 | 0 | 0 | 0 | 0 |
| 57 | 11.15 | Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 |
| **57 >** | **11.16 >** | **Nitrate Vulnerable Zones >** | 1 | 0 | 0 | 0 | 4 |
| **58 >** | **11.17 >** | **SSSI Impact Risk Zones >** | 1 | - | - | - | - |
| 59 | 11.18 | SSSI Units | 0 | 0 | 0 | 0 | 0 |
| Page | Section | **Visual and cultural designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 60 | 12.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 61 | 12.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 61 | 12.3 | National Parks | 0 | 0 | 0 | - | - |
| 61 | 12.4 | Listed Buildings | 0 | 0 | 0 | - | - |
| **61 >** | **12.5 >** | **Conservation Areas >** | 0 | 0 | 1 | - | - |
| 62 | 12.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 62 | 12.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | **Agricultural designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **63 >** | **13.1 >** | **Agricultural Land Classification >** | Grade 3 (within 250m) | | | | |
| 64 | 13.2 | Open Access Land | 0 | 0 | 0 | - | - |
| 64 | 13.3 | Tree Felling Licences | 0 | 0 | 0 | - | - |
| 64 | 13.4 | Environmental Stewardship Schemes | 0 | 0 | 0 | - | - |
| **64 >** | **13.5 >** | **Countryside Stewardship Schemes >** | 0 | 0 | 1 | - | - |
| Page | Section | **Habitat designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **65 >** | **14.1 >** | **Priority Habitat Inventory >** | 0 | 0 | 2 | - | - |
| 66 | 14.2 | Habitat Networks | 0 | 0 | 0 | - | - |
| 66 | 14.3 | Open Mosaic Habitat | 0 | 0 | 0 | - | - |
| 66 | 14.4 | Limestone Pavement Orders | 0 | 0 | 0 | - | - |

## Recent aerial photograph




Capture Date: 16/04/2020

Site Area: 0.62ha

# Recent site history - 2017 aerial photograph


Capture Date: 13/08/2017

Site Area: 0.62ha

## Recent site history - 2011 aerial photograph


Capture Date: 09/10/2011

Site Area: 0.62ha

## Recent site history - 2008 aerial photograph


Capture Date: 20/09/2008

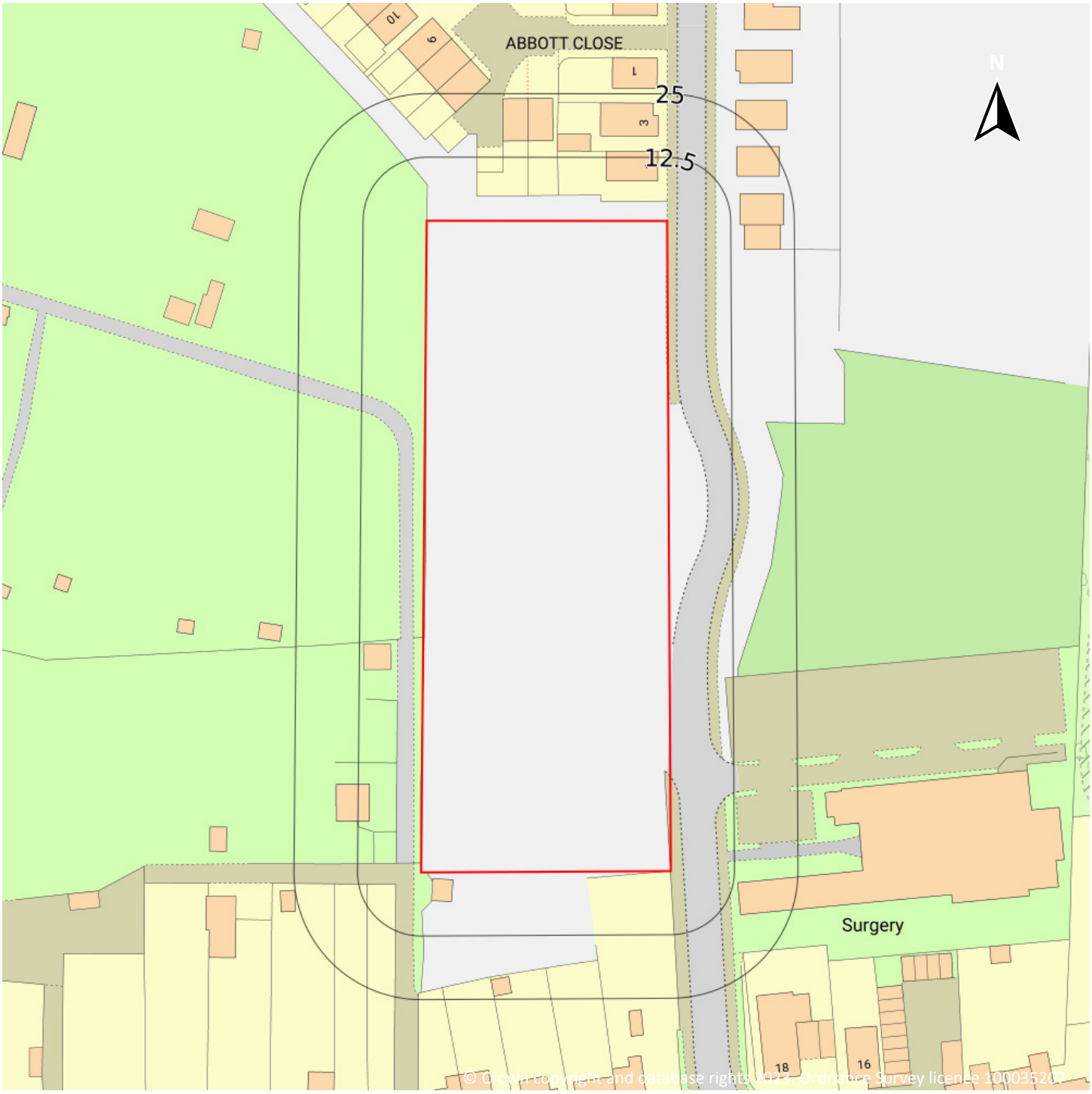
Site Area: 0.62ha

# Recent site history - 1999 aerial photograph


Capture Date: 05/10/1999

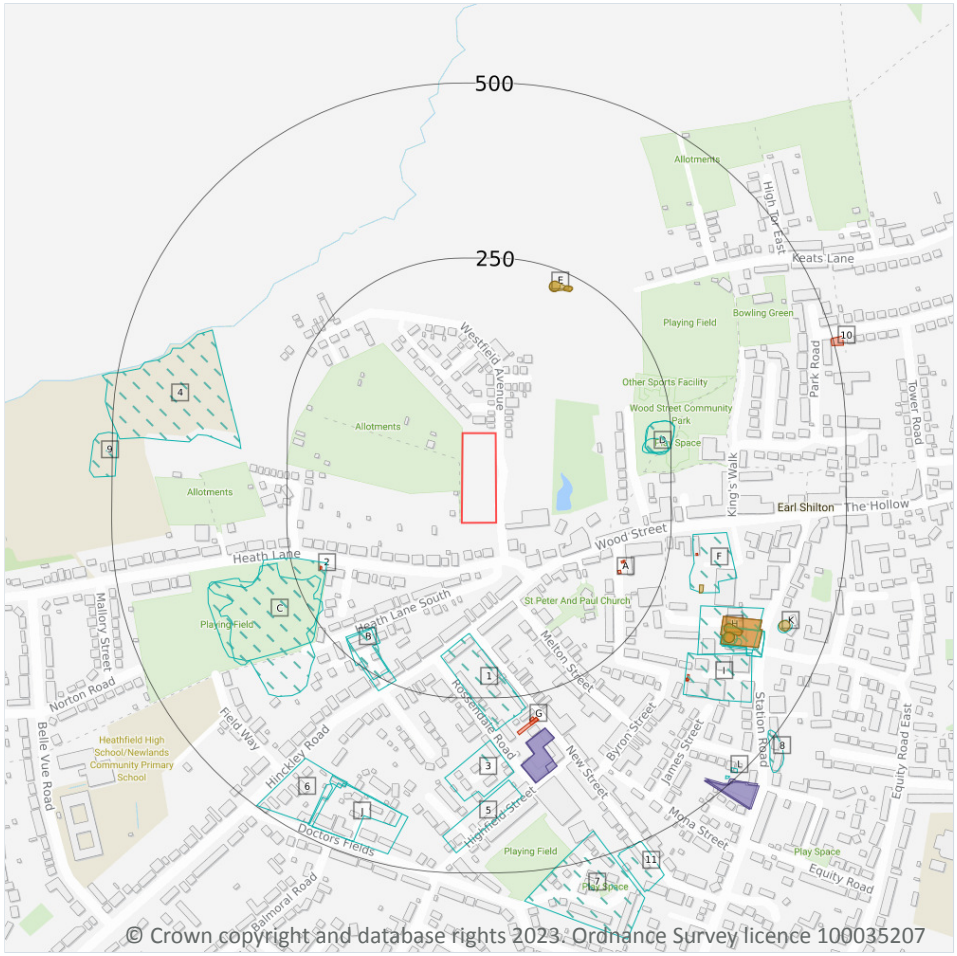
Site Area: 0.62ha

## OS MasterMap site plan




Site Area: 0.62ha

# 1 Past land use






## 1.1 Historical industrial land uses

| Records within 500m | 31 |
|---|---|

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

Features are displayed on the Past land use map on **page 12 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| 1 | 158m S | Unspecified Factory | 1968 - 1978 | 1809663 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| B | 195m SW | Unspecified Factory | 1968 - 1978 | 1788088 |
| B | 199m SW | Unspecified Factory | 1904 | 1782968 |
| C | 201m SW | Refuse Heap | 1978 | 1770511 |
| D | 209m E | Unspecified Pit | 1904 | 1833700 |
| D | 213m E | Unspecified Pit | 1938 - 1950 | 1783792 |
| D | 214m E | Clay Pit | 1914 | 1770070 |
| C | 217m SW | Sand Pits | 1950 | 1760445 |
| F | 282m E | Unspecified Works | 1968 | 1771297 |
| 3 | 310m S | Unspecified Factory | 1968 - 1978 | 1807409 |
| H | 315m SE | Council Yard | 1968 | 1757227 |
| 4 | 316m W | Refuse Heap | 1968 | 1770509 |
| I | 331m SE | Unspecified Depot | 1968 | 1763873 |
| H | 356m SE | Gas Works | 1886 - 1904 | 1809630 |
| H | 361m SE | Unspecified Commercial/Industrial | 1938 | 1752986 |
| H | 361m SE | Gas Works | 1914 | 1787404 |
| H | 362m SE | Gasometer | 1886 | 1814895 |
| H | 362m SE | Gasometer | 1904 - 1914 | 1816940 |
| H | 365m SE | Unspecified Tank | 1938 | 1837829 |
| 5 | 368m S | Boot Factory | 1904 | 1767063 |
| H | 380m SE | Unspecified Tank | 1886 | 1817441 |
| 6 | 403m SW | Corn Windmill | 1886 | 1757364 |
| J | 405m SW | Shoe Manufactory | 1938 | 1758353 |
| J | 408m SW | Nursery | 1968 - 1978 | 1833935 |
| K | 429m SE | Unspecified Tank | 1904 - 1914 | 1823504 |
| 7 | 462m S | Unspecified Depot | 1968 - 1978 | 1826897 |
| L | 485m SE | Unspecified Kiln | 1886 | 1769511 |
| L | 488m SE | Unspecified Kiln | 1886 | 1769509 |
| 8 | 490m SE | Refuse | 1904 | 1755683 |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| 9 | 493m W | Unspecified Pit | 1968 | 1777083 |
| 11 | 499m SE | Unspecified Works | 1914 - 1950 | 1798099 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

| **Records within 500m** | **8** |
|---|---|

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

Features are displayed on the Past land use map on **page 12 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| E | 218m N | Unspecified Tank | 1991 - 1994 | 297373 |
| E | 219m N | Tanks | 1984 | 296345 |
| E | 226m NE | Tanks | 1991 - 1994 | 292527 |
| F | 304m SE | Tanks | 1962 | 287076 |
| H | 351m SE | Gas Works | 1888 - 1903 | 288565 |
| H | 358m SE | Gasometers | 1888 | 285871 |
| H | 363m SE | Gasometer | 1903 | 285640 |
| K | 430m SE | Unspecified Tank | 1903 | 283195 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.3 Historical energy features

| **Records within 500m** | **15** |
|---|---|

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

Features are displayed on the Past land use map on **page 12 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| A | 187m SE | Electricity Substation | 1982 | 169741 |
| A | 187m SE | Electricity Substation | 1988 - 1989 | 178817 |
| A | 189m SE | Electricity Substation | 1997 | 183955 |
| 2 | 209m SW | Electricity Substation | 1989 - 1996 | 186480 |
| G | 282m S | Electricity Substation | 1997 | 172366 |
| G | 284m S | Electricity Substation | 1988 - 1989 | 177001 |
| G | 284m S | Electricity Substation | 1982 | 176049 |
| F | 289m E | Electricity Substation | 1997 | 169745 |
| I | 349m SE | Electricity Substation | 1997 | 184901 |
| I | 351m SE | Electricity Substation | 1988 - 1989 | 184886 |
| H | 351m SE | Gas Works | 1888 - 1903 | 175524 |
| I | 351m SE | Electricity Substation | 1982 | 182223 |
| H | 358m SE | Gasometers | 1888 | 171256 |
| H | 363m SE | Gasometer | 1903 | 171106 |
| 10 | 496m E | Electricity Substation | 1991 | 181099 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

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

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.5 Historical garages

| Records within 500m | 6 |
|---|---|

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

Features are displayed on the Past land use map on **page 12 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| G | 302m S | Garage | 1962 - 1982 | 58648 |
| G | 302m S | Garage and Vehicle Testing Station | 1968 - 1979 | 59175 |
| G | 302m S | Garage | 1988 - 1989 | 57981 |
| L | 473m SE | Garage | 1982 - 1997 | 57841 |
| L | 474m SE | Garage | 1962 - 1968 | 58886 |
| L | 476m SE | Garage | 1979 - 1989 | 58662 |

*This data is sourced from Ordnance Survey / Groundsure.*

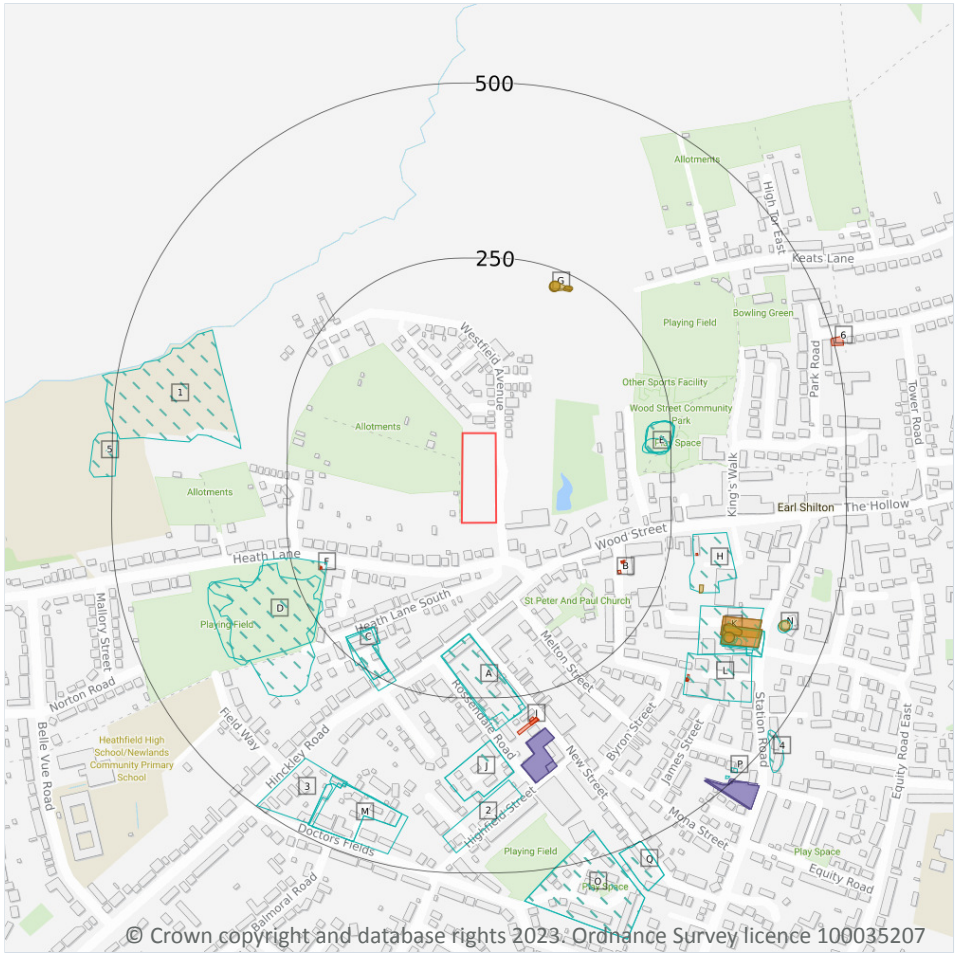
## 1.6 Historical military land

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

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

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

# 2 Past land use - un-grouped




## 2.1 Historical industrial land uses

| Records within 500m | 41 |
|---|---|

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

Features are displayed on the Past land use - un-grouped map on **page 17 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| A | 158m S | Unspecified Factory | 1968 | 1809663 |
| A | 159m S | Unspecified Factory | 1978 | 1809663 |
| C | 195m SW | Unspecified Factory | 1968 | 1788088 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| C | 195m SW | Unspecified Factory | 1978 | 1788088 |
| C | 199m SW | Unspecified Factory | 1904 | 1782968 |
| D | 201m SW | Refuse Heap | 1978 | 1770511 |
| E | 209m E | Unspecified Pit | 1904 | 1833700 |
| E | 213m E | Unspecified Pit | 1950 | 1783792 |
| E | 214m E | Clay Pit | 1914 | 1770070 |
| E | 214m E | Unspecified Pit | 1938 | 1783792 |
| D | 217m SW | Sand Pits | 1950 | 1760445 |
| H | 282m E | Unspecified Works | 1968 | 1771297 |
| J | 310m S | Unspecified Factory | 1968 | 1807409 |
| J | 310m S | Unspecified Factory | 1978 | 1807409 |
| K | 315m SE | Council Yard | 1968 | 1757227 |
| 1 | 316m W | Refuse Heap | 1968 | 1770509 |
| L | 331m SE | Unspecified Depot | 1968 | 1763873 |
| K | 356m SE | Gas Works | 1886 | 1809630 |
| K | 359m SE | Gas Works | 1904 | 1809630 |
| K | 361m SE | Unspecified Commercial/Industrial | 1938 | 1752986 |
| K | 361m SE | Gas Works | 1914 | 1787404 |
| K | 362m SE | Gasometer | 1886 | 1814895 |
| K | 362m SE | Gasometer | 1904 | 1816940 |
| K | 365m SE | Unspecified Tank | 1938 | 1837829 |
| K | 365m SE | Gasometer | 1914 | 1816940 |
| 2 | 368m S | Boot Factory | 1904 | 1767063 |
| K | 380m SE | Unspecified Tank | 1886 | 1817441 |
| 3 | 403m SW | Corn Windmill | 1886 | 1757364 |
| M | 405m SW | Shoe Manufactory | 1938 | 1758353 |
| M | 408m SW | Nursery | 1968 | 1833935 |
| M | 408m SW | Nursery | 1978 | 1833935 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| N | 429m SE | Unspecified Tank | 1904 | 1823504 |
| N | 432m SE | Unspecified Tank | 1914 | 1823504 |
| O | 462m S | Unspecified Depot | 1968 | 1826897 |
| O | 462m S | Unspecified Depot | 1978 | 1826897 |
| P | 485m SE | Unspecified Kiln | 1886 | 1769511 |
| P | 488m SE | Unspecified Kiln | 1886 | 1769509 |
| 4 | 490m SE | Refuse | 1904 | 1755683 |
| 5 | 493m W | Unspecified Pit | 1968 | 1777083 |
| Q | 499m SE | Unspecified Works | 1938 | 1798099 |
| Q | 499m SE | Unspecified Works | 1914 | 1798099 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

| **Records within 500m** | **11** |
|---|---|

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

Features are displayed on the Past land use - un-grouped map on **page 17 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| G | 218m N | Unspecified Tank | 1994 | 297373 |
| G | 219m N | Tanks | 1984 | 296345 |
| G | 220m N | Unspecified Tank | 1991 | 297373 |
| G | 226m NE | Tanks | 1994 | 292527 |
| G | 229m NE | Tanks | 1991 | 292527 |
| H | 304m SE | Tanks | 1962 | 287076 |
| K | 351m SE | Gas Works | 1888 | 288565 |
| K | 356m SE | Gas Works | 1903 | 288565 |
| K | 358m SE | Gasometers | 1888 | 285871 |
| K | 363m SE | Gasometer | 1903 | 285640 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| N | 430m SE | Unspecified Tank | 1903 | 283195 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

| **Records within 500m** | **23** |
|---|---|

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

Features are displayed on the Past land use - un-grouped map on **page 17 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| B | 187m SE | Electricity Substation | 1982 | 169741 |
| B | 187m SE | Electricity Substation | 1988 | 178817 |
| B | 187m SE | Electricity Substation | 1989 | 178817 |
| B | 187m SE | Electricity Substation | 1989 | 178817 |
| B | 189m SE | Electricity Substation | 1997 | 183955 |
| F | 209m SW | Electricity Substation | 1989 | 186480 |
| F | 210m SW | Electricity Substation | 1996 | 186480 |
| I | 282m S | Electricity Substation | 1997 | 172366 |
| I | 284m S | Electricity Substation | 1988 | 177001 |
| I | 284m S | Electricity Substation | 1989 | 177001 |
| I | 284m S | Electricity Substation | 1989 | 177001 |
| I | 284m S | Electricity Substation | 1982 | 176049 |
| H | 289m E | Electricity Substation | 1997 | 169745 |
| L | 349m SE | Electricity Substation | 1997 | 184901 |
| L | 351m SE | Electricity Substation | 1988 | 184886 |
| L | 351m SE | Electricity Substation | 1989 | 184886 |
| L | 351m SE | Electricity Substation | 1989 | 184886 |
| K | 351m SE | Gas Works | 1888 | 175524 |
| L | 351m SE | Electricity Substation | 1982 | 182223 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| K | 356m SE | Gas Works | 1903 | 175524 |
| K | 358m SE | Gasometers | 1888 | 171256 |
| K | 363m SE | Gasometer | 1903 | 171106 |
| 6 | 496m E | Electricity Substation | 1991 | 181099 |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

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

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

| Records within 500m | 14 |
|---|---|

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

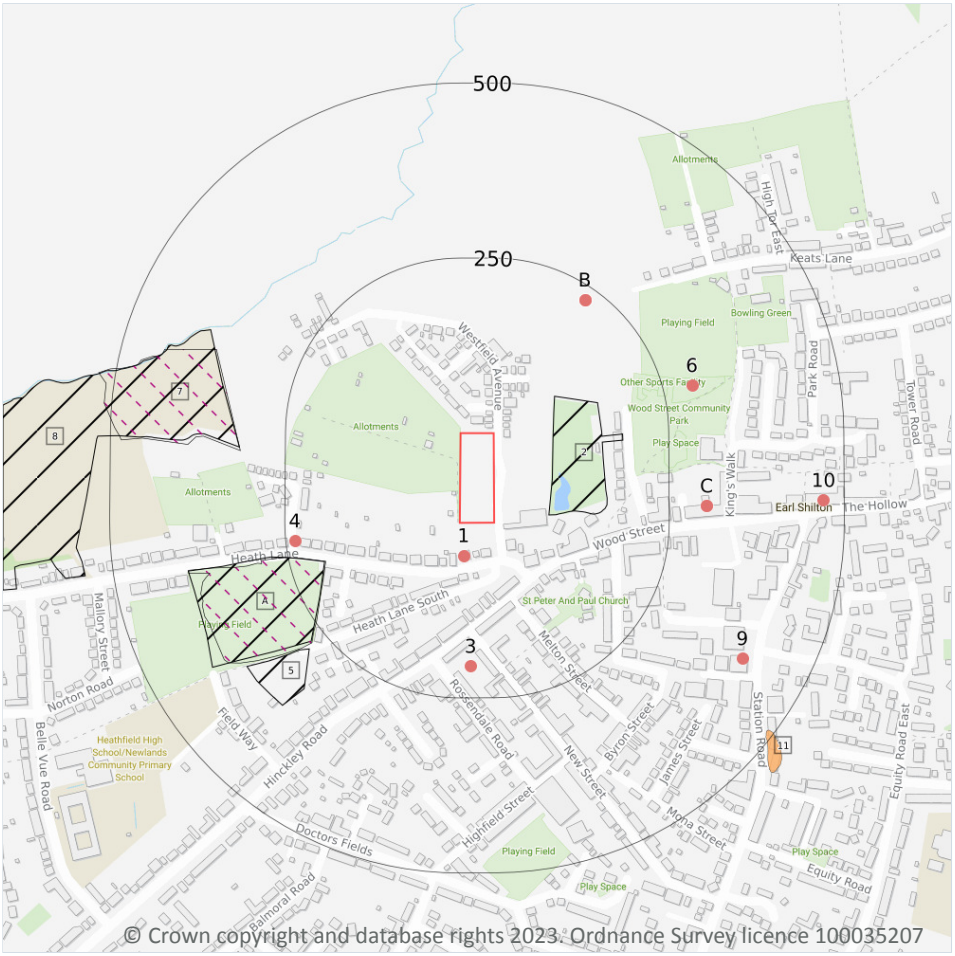
Features are displayed on the Past land use - un-grouped map on **page 17 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| I | 302m S | Garage | 1962 | 58648 |
| I | 302m S | Garage | 1982 | 58648 |
| I | 302m S | Garage and Vehicle Testing Station | 1968 | 59175 |
| I | 302m S | Garage | 1988 | 57981 |
| I | 302m S | Garage | 1989 | 57981 |
| I | 302m S | Garage | 1989 | 57981 |
| I | 302m S | Garage and Vehicle Testing Station | 1979 | 59175 |
| P | 473m SE | Garage | 1997 | 57841 |
| P | 474m SE | Garage | 1962 | 58886 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| P | 474m SE | Garage | 1982 | 57841 |
| P | 474m SE | Garage | 1968 | 58886 |
| P | 476m SE | Garage | 1988 | 58662 |
| P | 476m SE | Garage | 1989 | 58662 |
| P | 476m SE | Garage | 1979 | 58662 |

*This data is sourced from Ordnance Survey / Groundsure.*

# 3 Waste and landfill




## 3.1 Active or recent landfill

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

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

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

## 3.2 Historical landfill (BGS records)

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

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

*This data is sourced from the British Geological Survey.*

## 3.3 Historical landfill (LA/mapping records)

| Records within 500m | 2 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 23 >**

| ID | Location | Site address | Source | Data type |
|---|---|---|---|---|
| A | 199m SW | Refuse Tip | 1968 mapping | Polygon |
| 7 | 314m W | Refuse Tip | 1962 mapping | Polygon |

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

## 3.4 Historical landfill (EA/NRW records)

| Records within 500m | 4 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 23 >**

| ID | Location | Details | | |
|---|---|---|---|---|
| 2 | 78m SE | Site Address: Off Mountfield Road, Off Mountfield Road, Earl Shilton, Hinckley and Bosworth Leicestershire<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: GDO 44, 225, 263<br>Waste Type: Inert, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: -<br>First Recorded -<br>Last Recorded: 31/12/1960 |
| A | 200m SW | Site Address: Off Heath Lane, Off Heath Lane, East Shilton, Leicestershire<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: GDO 42<br>Waste Type: Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1965<br>Last Recorded: 31/12/1975 |

| ID | Location | Details | | |
|---|---|---|---|---|
| 5 | 280m SW | Site Address: Off Heath Lane South, Off Heath Lane South, Earl Shilton, Leicestershire<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: GDO 43<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1958<br>Last Recorded: - |
| 8 | 315m W | Site Address: Earl Shilton College, Land North of Heath Lane, Earl Shinton, Leicestershire<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: 41<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: Leicestershire County Council<br>Licence Holder: -<br>First Recorded -<br>Last Recorded: - |

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

## 3.5 Historical waste sites

| **Records within 500m** | **1** |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 23 >**

| ID | Location | Address | Further Details | Date |
|---|---|---|---|---|
| 11 | 489m SE | Site Address: N/A | Type of Site: Refuse<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1904 |

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

## 3.6 Licensed waste sites

| **Records within 500m** | **0** |
|---|---|

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

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

## 3.7 Waste exemptions

| Records within 500m | 14 |
|---|---|

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

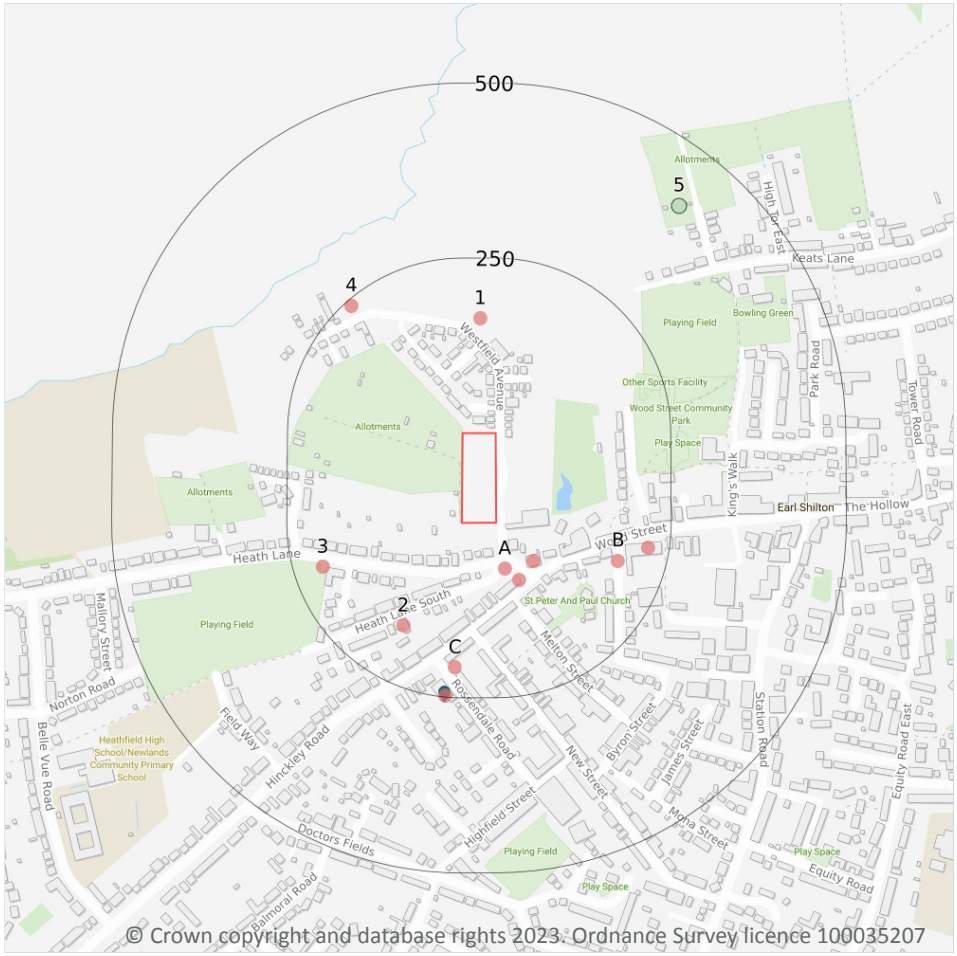
Features are displayed on the Waste and landfill map on **page 23 >**

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| 1 | 48m S | Heath Lane, Earl Shilton, Leicestershire, LE9 7PB | WEX172776 | Using waste exemption | Not on a farm | Use of waste in construction |
| 3 | 206m S | Rossendale Road New Street Earl Shilton LE9 7LX | EPR/HE5441N R/A001 | Treating waste exemption | Non-Agricultural Waste Only | Screening and blending of waste |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Storing waste exemption | On a farm | Storage of waste in a secure place |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Using waste exemption | On a farm | Use of waste in construction |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Disposing of waste exemption | On a farm | Deposit of waste from dredging of inland waters |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Disposing of waste exemption | On a farm | Burning waste in the open |
| B | 230m NE | WESTFIELD FARM, KEATS LANE, EARL SHILTON, LEICESTER, LE9 7DS | WEX246879 | Storing waste exemption | On a farm | Storage of waste in secure containers |
| 4 | 237m W | 76, HEATH LANE, EARL SHILTON, LEICESTER, LE9 7PD | WEX120254 | Disposing of waste exemption | Not on a farm | Burning waste in the open |
| 6 | 291m NE | npa - Playground 34m From Age Concern Residential Home, Kings Walk BARWELL LE9 7NL | EPR/YF0939W R/A001 | Using waste exemption | Non-Agricultural Waste Only | Use of waste in construction |
| C | 303m E | 40-42, WOOD STREET, EARL SHILTON, LEICESTER, LE9 7ND | WEX199300 | Treating waste exemption | Not on a farm | Sorting and de-naturing of controlled drugs for disposal |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| C | 303m E | 40-42, WOOD STREET, EARL SHILTON, LEICESTER, LE9 7ND | WEX331729 | Treating waste exemption | Not on a farm | Sorting and de-naturing of controlled drugs for disposal |
| 9 | 404m SE | Sisson & Allen Electricla Contractors 62 Station Road Earl Shilton LE9 7GA | EPR/RF0930JU /A001 | Treating waste exemption | Non-Agricultural Waste Only | Crushing waste fluorescent tubes |
| 10 | 470m E | 14, THE HOLLOW, EARL SHILTON, LEICESTER, LE9 7NA | WEX277633 | Storing waste exemption | Not on a farm | Storage of waste in a secure place |

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

# 4 Current industrial land use






Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

Pollution Incidents (EA/NRW)

## 4.1 Recent industrial land uses

| Records within 250m | 11 |
|---|---|

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28 >**

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| A | 67m S | Gas Governor | Leicestershire, LE9 | Gas Features | Infrastructure and Facilities |
| A | 77m SE | Rainbow Copy Shop | 12, Heath Lane, Earl Shilton, Leicestershire, LE9 7PB | Published Goods | Industrial Products |
| A | 88m S | Letter Knight | 6, Hinckley Road, Earl Shilton, Leicestershire, LE9 7LB | Signs | Industrial Products |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 1 | 164m N | Electricity Sub Station | Leicestershire, LE9 | Electrical Features | Infrastructure and Facilities |
| 2 | 169m SW | D M S Motors | 17, Heath Lane South, Earl Shilton, Leicestershire, LE9 7PG | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| B | 182m SE | Electricity Sub Station | Leicestershire, LE9 | Electrical Features | Infrastructure and Facilities |
| C | 207m S | Electricity Sub Station | Leicestershire, LE9 | Electrical Features | Infrastructure and Facilities |
| 3 | 208m SW | Electricity Sub Station | Leicestershire, LE9 | Electrical Features | Infrastructure and Facilities |
| B | 220m E | B S Labels Ltd | 75, Wood Street, Earl Shilton, Leicestershire, LE9 7NE | Stationery, Stamps, Tags and Labels | Industrial Products |
| 4 | 242m NW | Pumping Station | Leicestershire, LE9 | Water Pumping Stations | Industrial Features |
| C | 248m S | D J S Automotive | The Garage, Rossendale Road, Earl Shilton, Leicestershire, LE9 7LX | Vehicle Repair, Testing and Servicing | Repair and Servicing |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

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

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

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

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

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

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

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

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

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

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

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

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

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

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

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

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

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

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

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

## 4.10 Licensed industrial activities (Part A(1))

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

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

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

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

| Records within 500m | 1 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 28 >**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| C | 246m S | DJS Automotive Ltd, The Garage, Rossendale Road, Earl Shilton, LE9 7LY | Process: Waste Oil Burner 0.4 MW<br>Status: New Legislation Applies<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

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

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

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

## 4.13 Licensed Discharges to controlled waters

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

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

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

## 4.14 Pollutant release to surface waters (Red List)

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

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

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

## 4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

## 4.16 List 1 Dangerous Substances

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

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

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

## 4.17 List 2 Dangerous Substances

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

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

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

## 4.18 Pollution Incidents (EA/NRW)

| Records within 500m | 1 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 28 >**

| ID | Location | Details | |
|---|---|---|---|
| 5 | 417m NE | Incident Date: 20/05/2008<br>Incident Identification: 588787<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Tyres | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |

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

## 4.19 Pollution inventory substances

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

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

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

## 4.20 Pollution inventory waste transfers

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

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

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

## 4.21 Pollution inventory radioactive waste

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

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

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

# 5 Geology (basic)

## 5.1 Superficial geology (625k)

| Records within 500m | 1 |
|---|---|

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

| Location | Lex code | Description | Rock type |
|---|---|---|---|
| **On site** | **GSG-SAGR** | **GLACIAL SAND AND GRAVEL** | **SAND AND GRAVEL** |

*This data is sourced from the British Geological Survey.*

## 5.2 Bedrock geology (625k)

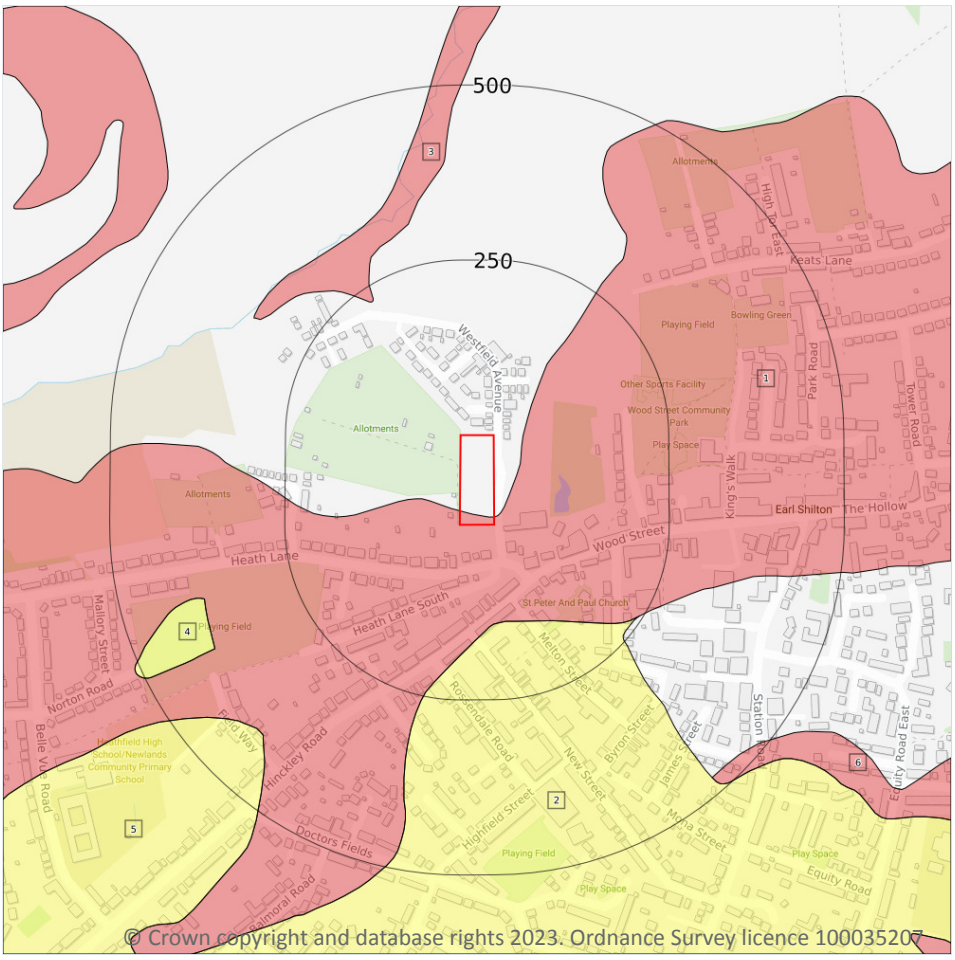
| Records within 500m | 1 |
|---|---|

Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

| Location | Lex code | Description | Rock type |
|---|---|---|---|
| **On site** | **TRIA-MDSS** | **TRIASSIC ROCKS (UNDIFFERENTIATED)** | **MUDSTONE, SILTSTONE AND SANDSTONE** |

*This data is sourced from the British Geological Survey.*

# 6 Hydrogeology - Superficial aquifer




## 6.1 Superficial aquifer

| Records within 500m | 6 |
|---|---|

Aquifer status of groundwater held within superficial geology.

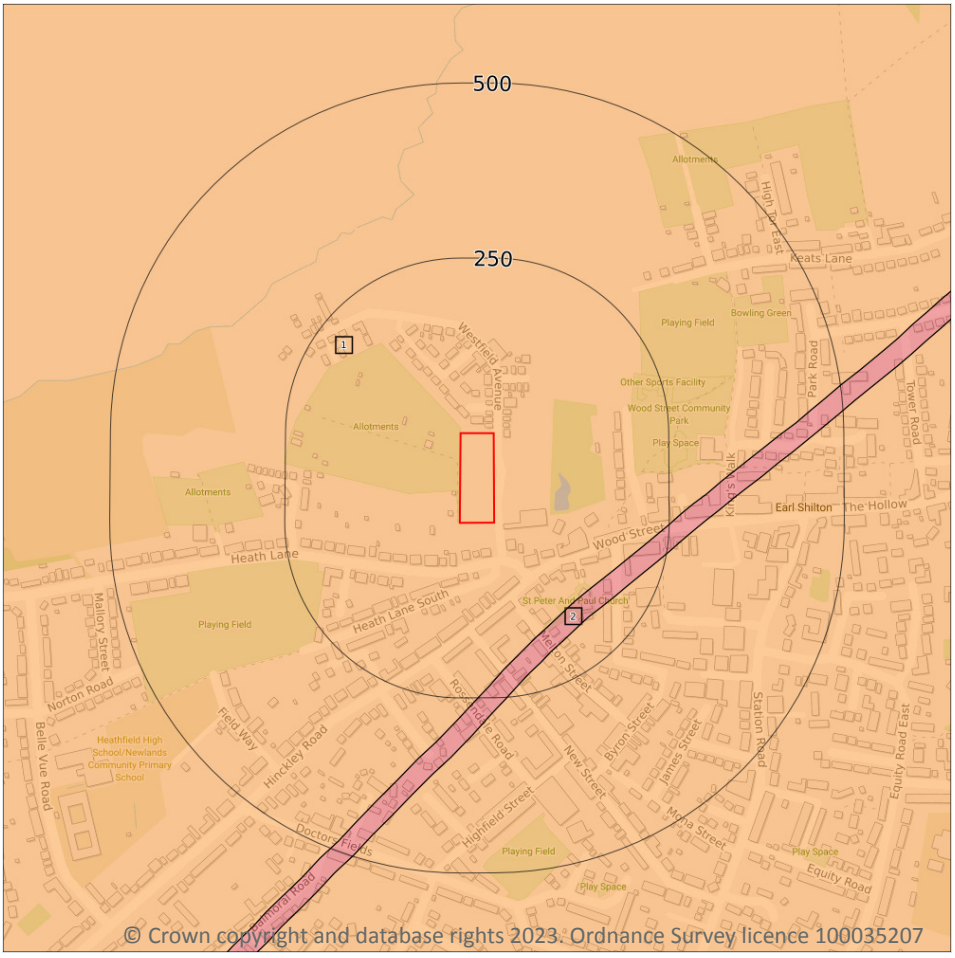
Features are displayed on the Hydrogeology map on **page 35 >**

| ID | Location | Designation | Description |
|---|---|---|---|
| **1** | **On site** | **Secondary A** | **Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers** |
| 2 | 139m S | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

| ID | Location | Designation | Description |
|---|---|---|---|
| 3 | 229m NW | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 4 | 380m SW | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 5 | 411m SW | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 6 | 477m SE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

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

# Bedrock aquifer




Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

## 6.2 Bedrock aquifer

| Records within 500m | 2 |
|---|---|

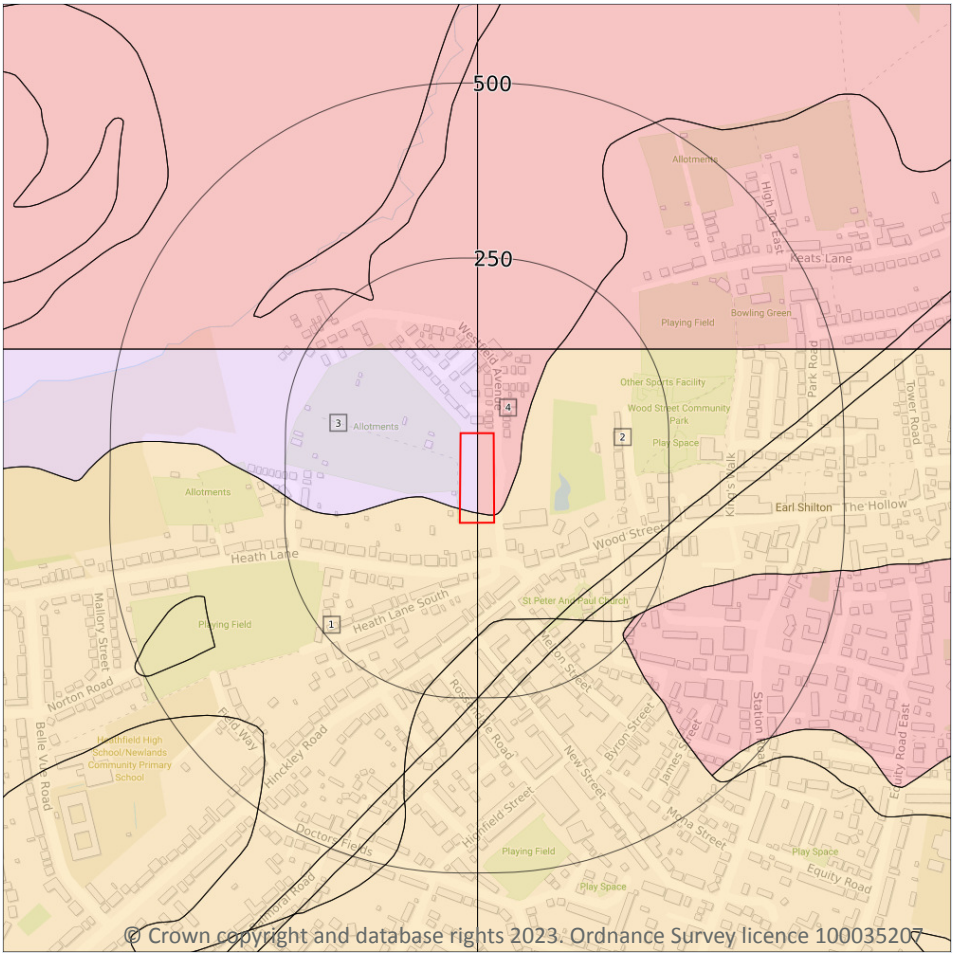
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 37 >**

| ID | Location | Designation | Description |
|---|---|---|---|
| **1** | **On site** | **Secondary B** | **Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers** |
| 2 | 161m SE | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

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

# Groundwater vulnerability




Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

## 6.3 Groundwater vulnerability

| Records within 50m | 4 |
|---|---|

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

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

Features are displayed on the Groundwater vulnerability map on **page 39 >**

| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|---|---|---|---|---|---|
| 1 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High | Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 2 | On site | Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High | Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 3 | On site | Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: High | Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures |
| 4 | On site | Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: High Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High | Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures |

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

## 6.4 Groundwater vulnerability- soluble rock risk

| Records on site | 0 |
|---|---|

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

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

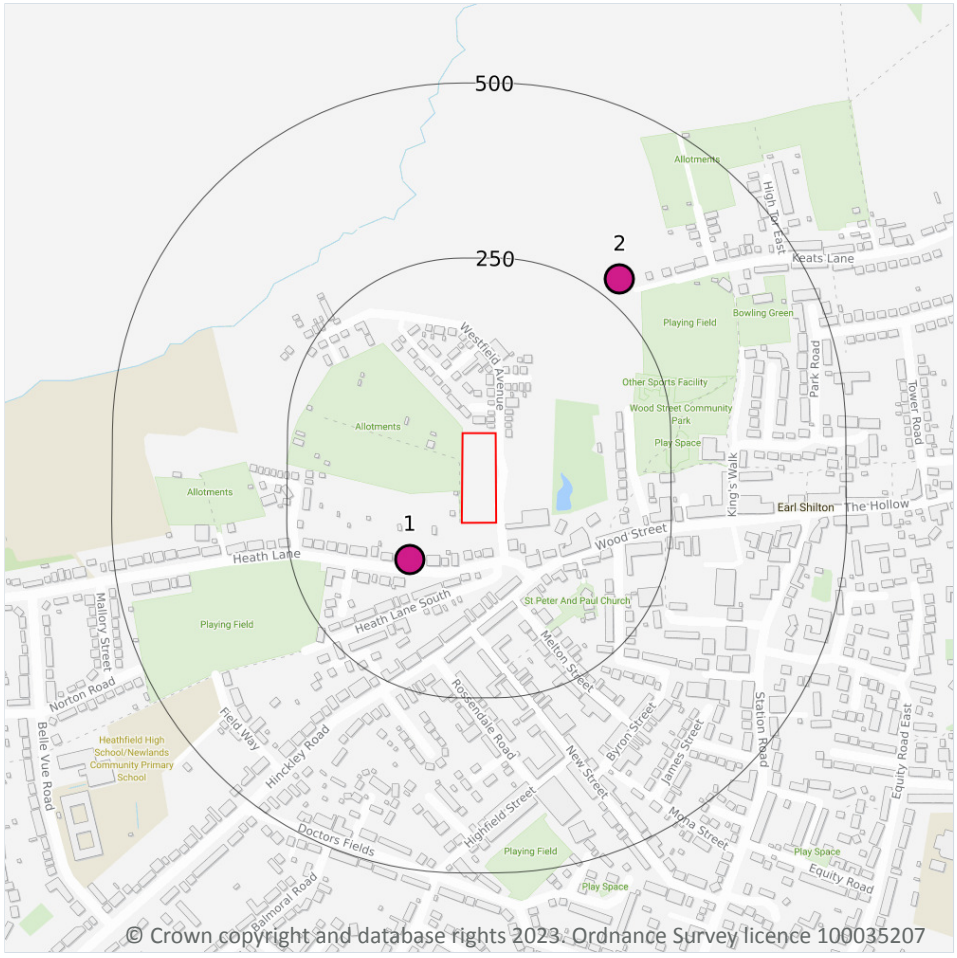
## 6.5 Groundwater vulnerability- local information

| Records on site | 0 |
|---|---|

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

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

# Abstractions and Source Protection Zones




Site Outline

Search buffers in metres (m)

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

## 6.6 Groundwater abstractions

| Records within 2000m | 4 |
|---|---|

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 42 >**

| ID | Location | Details | |
|---|---|---|---|
| 1 | 90m SW | Status: Historical<br>Licence No: 03/28/50/0095<br>Details: General Farming & Domestic<br>Direct Source: Groundwater Midlands Region<br>Point: MARUNE<br>Data Type: Point<br>Name: JACKSON<br>Easting: 445900<br>Northing: 297700 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 07/04/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2000<br>Version End Date: - |
| 2 | 282m NE | Status: Historical<br>Licence No: 03/28/50/0092<br>Details: General Farming & Domestic<br>Direct Source: Groundwater Midlands Region<br>Point: WESTFIELD FARM - SPRING<br>Data Type: Point<br>Name: BOWLEY<br>Easting: 446200<br>Northing: 298100 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 30/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2000<br>Version End Date: - |
| - | 840m NE | Status: Historical<br>Licence No: 03/28/50/0042<br>Details: General Farming & Domestic<br>Direct Source: Groundwater Midlands Region<br>Point: HILL TOP FARM<br>Data Type: Point<br>Name: SERCOMBE<br>Easting: 446800<br>Northing: 298200 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 02/12/1965<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2000<br>Version End Date: - |
| - | 1981m NW | Status: Historical<br>Licence No: 03/28/50/0033<br>Details: General Farming & Domestic<br>Direct Source: Groundwater Midlands Region<br>Point: BARWELL FIELDS FARM - WELL (1)<br>Data Type: Point<br>Name: PICKERING<br>Easting: 444150<br>Northing: 298650 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 01/12/1965<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2000<br>Version End Date: - |

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

## 6.7 Surface water abstractions

| **Records within 2000m** | **0** |
|---|---|

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

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

## 6.8 Potable abstractions

| Records within 2000m | 0 |
|---|---|

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

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

## 6.9 Source Protection Zones

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

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

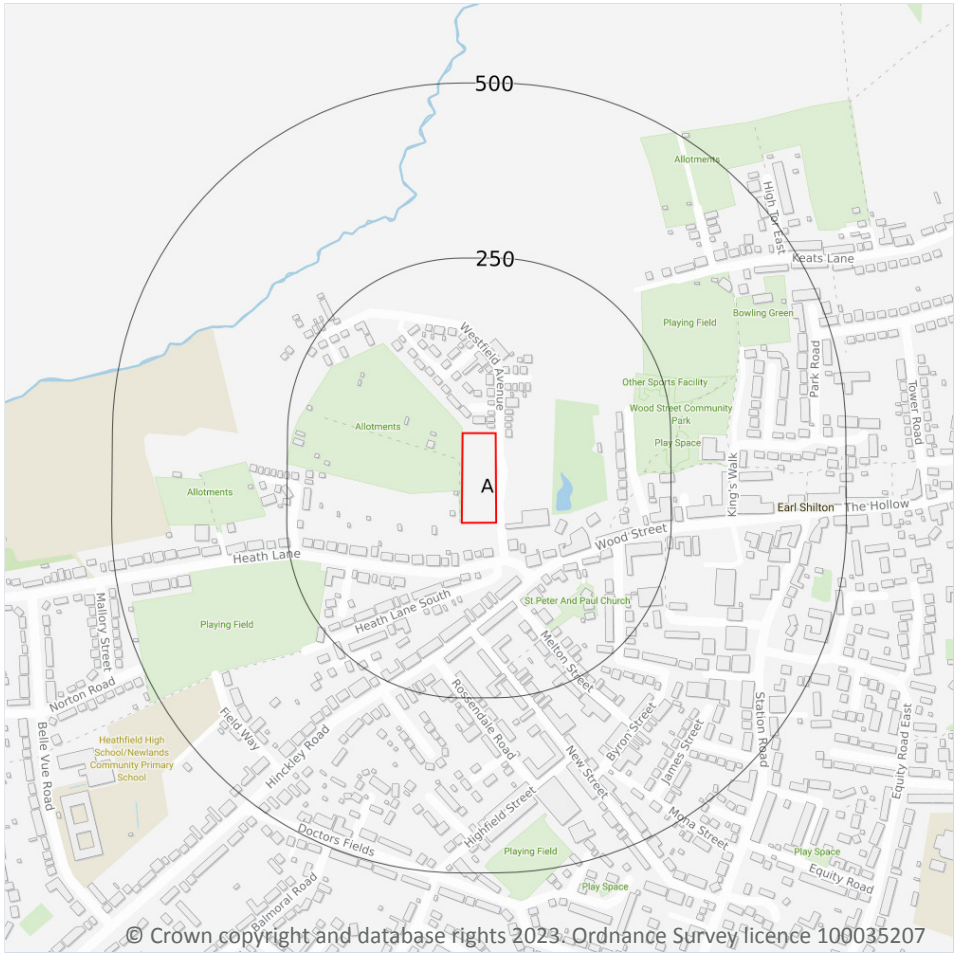
## 6.10 Source Protection Zones (confined aquifer)

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

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

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

# 7 Hydrology




Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

## 7.1 Water Network (OS MasterMap)

| Records within 250m | 0 |
|---|---|

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

*This data is sourced from the Ordnance Survey.*

## 7.2 Surface water features

| Records within 250m | 1 |
|---|---|

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 45 >**

*This data is sourced from the Ordnance Survey.*

## 7.3 WFD Surface water body catchments

| Records on site | 1 |
|---|---|

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 45 >**

| ID | Location | Type | Water body catchment | Water body ID | Operational catchment | Management catchment |
|---|---|---|---|---|---|---|
| **A** | **On site** | **River** | **Thurlaston Brook Catchment (trib of Soar)** | **GB104028046940** | **Soar River** | **Soar** |

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

## 7.4 WFD Surface water bodies

| Records identified | 1 |
|---|---|

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 45 >**

| ID | Location | Type | Name | Water body ID | Overall rating | Chemical rating | Ecological rating | Year |
|---|---|---|---|---|---|---|---|---|
| - | 1154m E | River | Thurlaston Brook Catchment (trib of Soar) | GB104028046940 ↗ | Poor | Fail | Poor | 2019 |

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

## 7.5 WFD Groundwater bodies

| Records on site | 1 |
|---|---|

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 45 >**

| ID | Location | Name | Water body ID | Overall rating | Chemical rating | Quantitative | Year |
|---|---|---|---|---|---|---|---|
| **A** | **On site** | **Soar - Secondary Combined** | **GB40402G990600** ↗ | **Good** | **Good** | **Good** | **2019** |

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

# 8 River and coastal flooding

## 8.1 Risk of flooding from rivers and the sea

| Records within 50m | 0 |
|---|---|

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

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

## 8.2 Historical Flood Events

| Records within 250m | 0 |
|---|---|

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

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

## 8.3 Flood Defences

| Records within 250m | 0 |
|---|---|

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

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

## 8.4 Areas Benefiting from Flood Defences

| Records within 250m | 0 |
|---|---|

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

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

## 8.5 Flood Storage Areas

| Records within 250m | 0 |
|---|---|

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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

# River and coastal flooding - Flood Zones

## 8.6 Flood Zone 2

| Records within 50m | 0 |
|---|---|

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

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

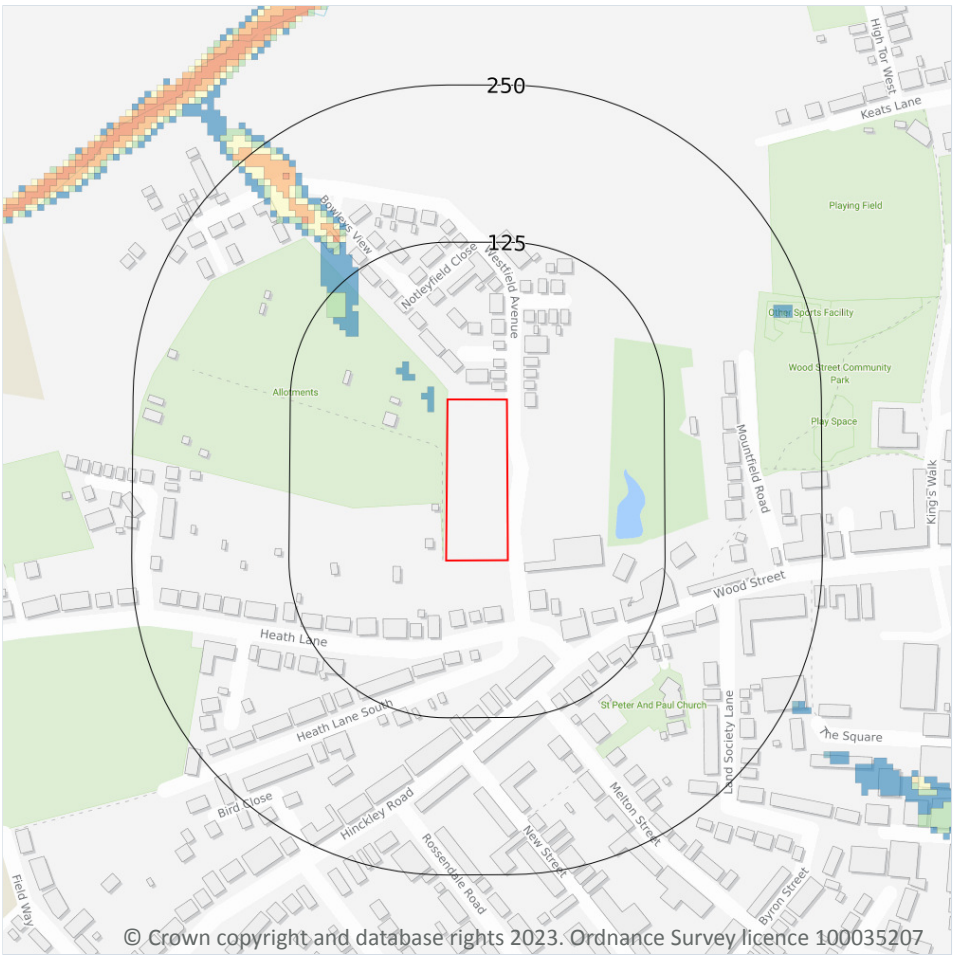
## 8.7 Flood Zone 3

| Records within 50m | 0 |
|---|---|

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

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

# 9 Surface water flooding




Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

## 9.1 Surface water flooding

| | |
|---|---|
| **Highest risk on site** | **Negligible** |
| **Highest risk within 50m** | **1 in 1000 year, 0.1m - 0.3m** |

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 51 >**

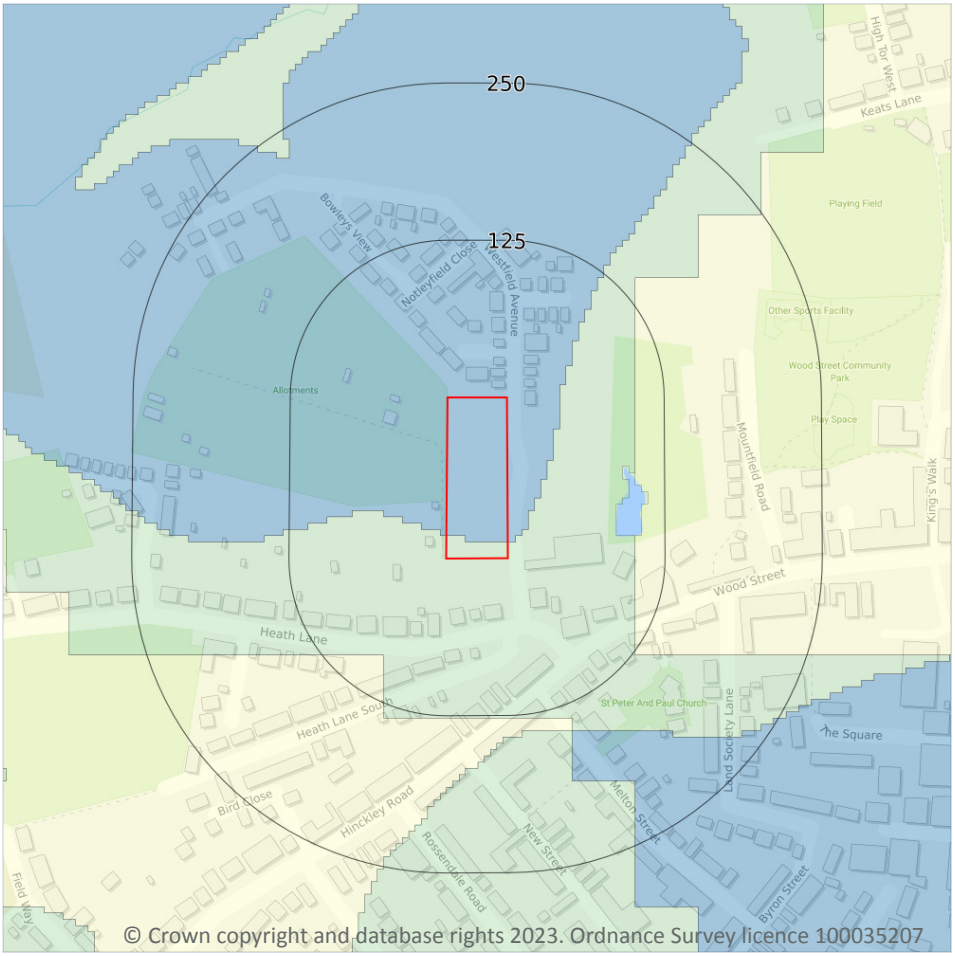
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

| Return period | Maximum modelled depth |
|---|---|
| 1 in 1000 year | Negligible |
| 1 in 250 year | Negligible |
| 1 in 100 year | Negligible |
| 1 in 30 year | Negligible |

*This data is sourced from Ambiental Risk Analytics.*

# 10 Groundwater flooding




## 10.1 Groundwater flooding

| | |
|---|---|
| **Highest risk on site** | **Low** |
| **Highest risk within 50m** | **Low** |

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 53 >**

*This data is sourced from Ambiental Risk Analytics.*

# 11 Environmental designations

## 11.1 Sites of Special Scientific Interest (SSSI)

| Records within 2000m | 0 |
|---|---|

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

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

## 11.2 Conserved wetland sites (Ramsar sites)

| Records within 2000m | 0 |
|---|---|

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

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

## 11.3 Special Areas of Conservation (SAC)

| Records within 2000m | 0 |
|---|---|

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

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

## 11.4 Special Protection Areas (SPA)

| Records within 2000m | 0 |
|---|---|

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

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

## 11.5 National Nature Reserves (NNR)

| Records within 2000m | 0 |
|---|---|

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

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

## 11.6 Local Nature Reserves (LNR)

| Records within 2000m | 0 |
|---|---|

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

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

## 11.7 Designated Ancient Woodland

| Records within 2000m | 0 |
|---|---|

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

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

## 11.8 Biosphere Reserves

| Records within 2000m | 0 |
|---|---|

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

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

## 11.9 Forest Parks

| Records within 2000m | 0 |
|---|---|

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 11.10 Marine Conservation Zones

| Records within 2000m | 0 |
|---|---|

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

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

## 11.11 Green Belt

| Records within 2000m | 0 |
|---|---|

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 11.12 Proposed Ramsar sites

| Records within 2000m | 0 |
|---|---|

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 11.13 Possible Special Areas of Conservation (pSAC)

| Records within 2000m | 0 |
|---|---|

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

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

## 11.14 Potential Special Protection Areas (pSPA)

| Records within 2000m | 0 |
|---|---|

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 11.15 Nitrate Sensitive Areas

| Records within 2000m | 0 |
|---|---|

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 11.16 Nitrate Vulnerable Zones

| Records within 2000m | 5 |
|---|---|

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

| Location | Name | Type | NVZ ID | Status |
|---|---|---|---|---|
| **On site** | **SOAR R NVZ** | **Surface Water** | **309** | **Existing** |
| 1165m W | River Trent (source to confluence with Derwent) | Surface Water | 308 | Existing |
| 1770m S | SOAR R NVZ | Surface Water | 309 | Existing |
| 1883m W | River Trent (source to confluence with Derwent) | Surface Water | 308 | Existing |
| 1892m W | SOAR R NVZ | Surface Water | 309 | Existing |

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