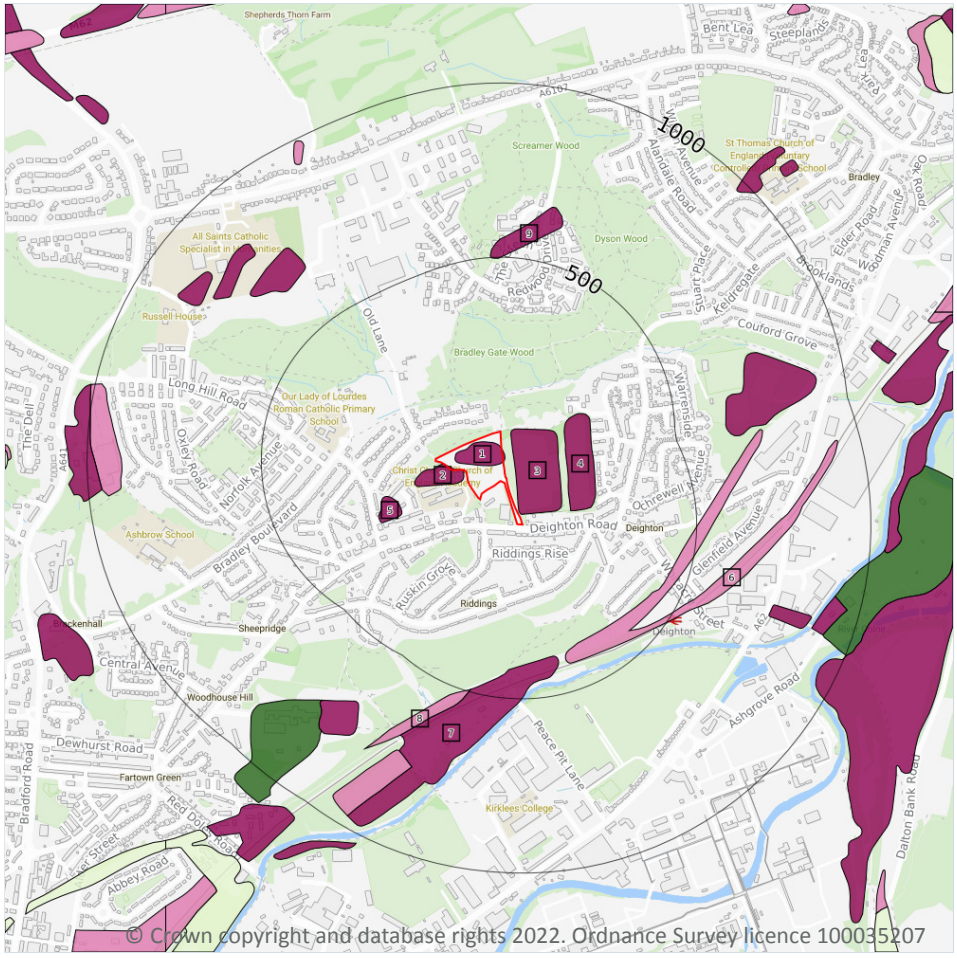
# Geology 1:10,000 scale - Artificial and made ground






Site Outline

Search buffers in metres (m)

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

## 14.2 Artificial and made ground (10k)

| Records within 500m | 9 |
|---|---|

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

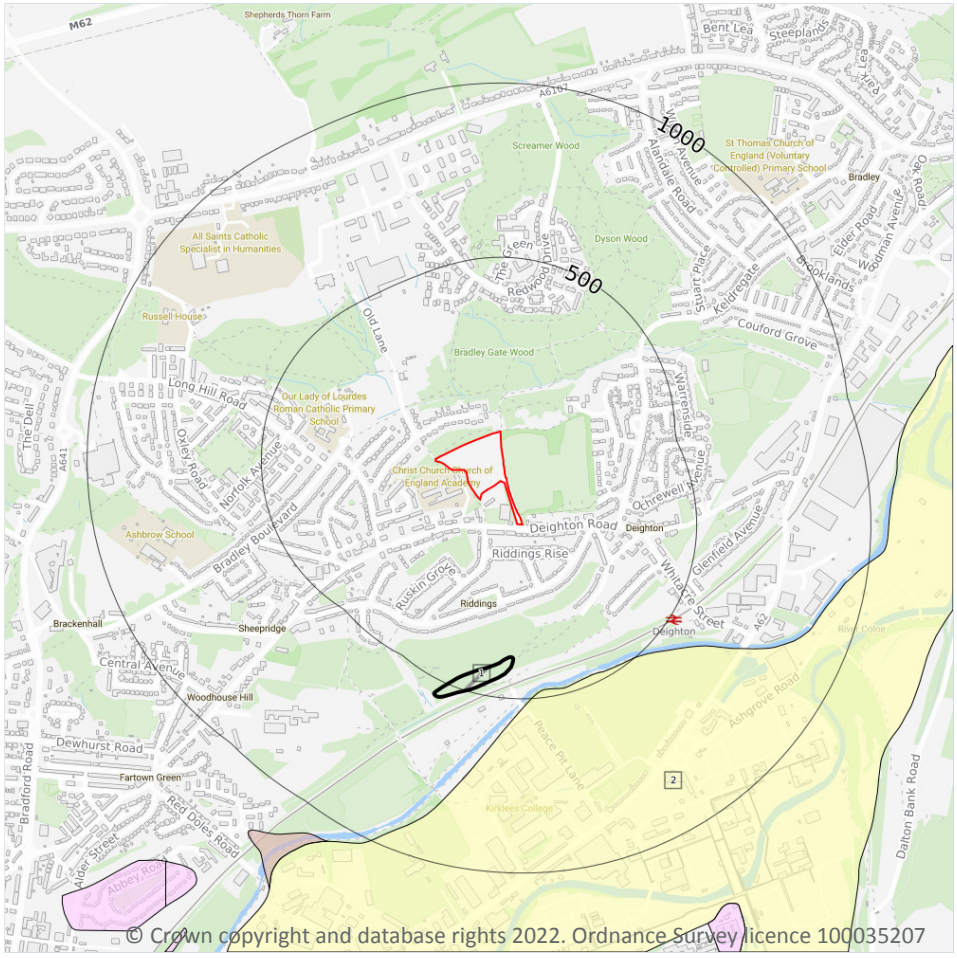
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 75**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **MGR-ARTDP** | **Made Ground (Undivided)** | **Artificial Deposit** |
| **2** | **On site** | **MGR-ARTDP** | **Made Ground (Undivided)** | **Artificial Deposit** |
| 3 | 5m SE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 4 | 144m SE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 5 | 160m SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 6 | 375m SE | WGR-VOID | Worked Ground (Undivided) | Void |
| 7 | 388m S | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 8 | 493m S | WGR-VOID | Worked Ground (Undivided) | Void |
| 9 | 497m N | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |

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

# Geology 1:10,000 scale - Superficial




Site Outline

Search buffers in metres (m)

Landslip (10k)

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

## 14.3 Superficial geology (10k)

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

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 77**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 2 | 475m SE | ALV-XCSV | Alluvium - Clay, Sand And Gravel | Clay, Sand And Gravel |

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

## 14.4 Landslip (10k)

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

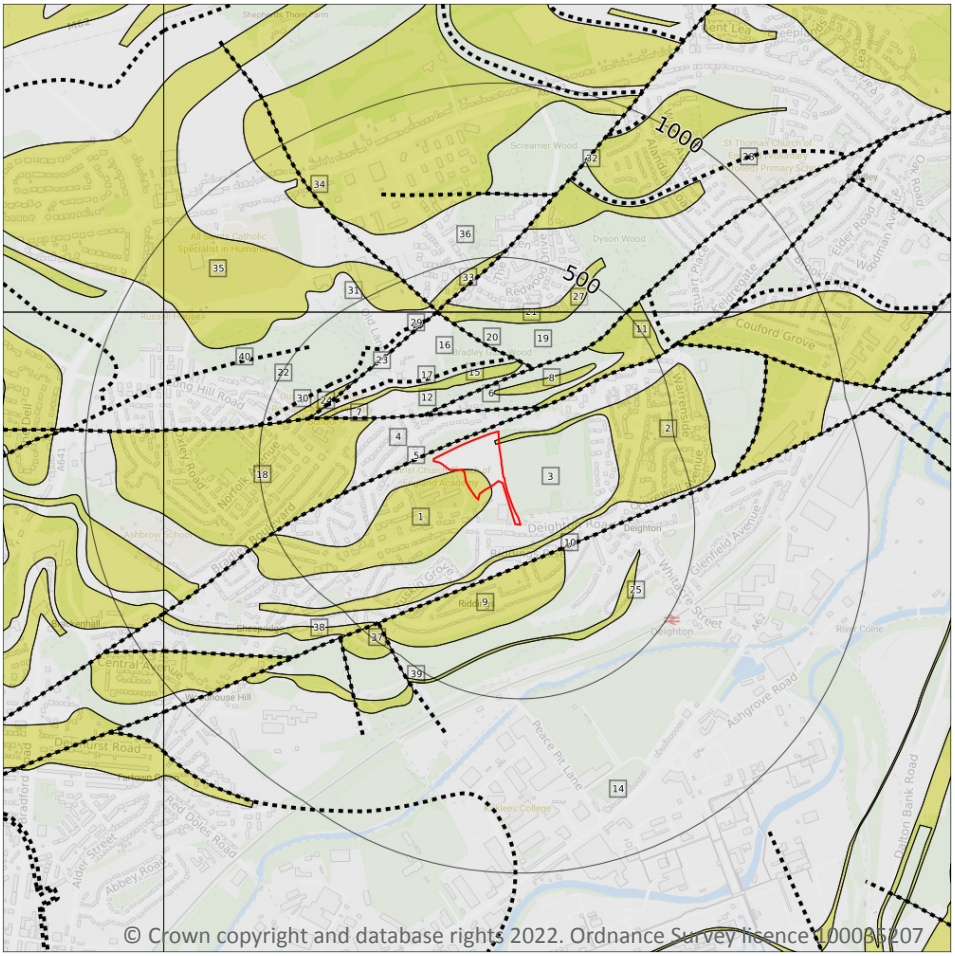
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 77**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 1 | 382m S | SLIP-UKNOWN | Landslide Deposits | Unknown/unclassified Entry |

*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.

## 14.5 Bedrock geology (10k)

**Records within 500m** **26**

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 79**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **PLCM-SDST** | **Pennine Lower Coal Measures Formation - Sandstone** | **Langsettian Sub-age** |
| **2** | **On site** | **PLCM-SDST** | **Pennine Lower Coal Measures Formation - Sandstone** | **Langsettian Sub-age** |
| **3** | **On site** | **PLCM-MDSS** | **Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone** | **Langsettian Sub-age** |

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| 4 | 15m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 6 | 64m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 8 | 106m N | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 9 | 109m SE | EF-SDST | Elland Flags - Sandstone | Langsettian Sub-age |
| 11 | 119m NE | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 12 | 123m NW | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 14 | 141m SE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 15 | 154m N | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 16 | 187m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 18 | 202m NW | GM-SDST | Greenmoor Rock - Sandstone | Langsettian Sub-age |
| 19 | 208m NE | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 21 | 314m N | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 22 | 316m NW | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 24 | 317m NW | GR-SDST | Grenoside Sandstone - Sandstone | Langsettian Sub-age |
| 25 | 330m S | EYR-SDST | 80 Yard Rock - Sandstone | Langsettian Sub-age |
| 27 | 343m N | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 28 | 350m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 31 | 381m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 33 | 382m N | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 35 | 402m N | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |
| 36 | 410m N | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 37 | 456m SW | EF-SDST | Elland Flags - Sandstone | Langsettian Sub-age |
| 38 | 456m SW | PLCM-SDST | Pennine Lower Coal Measures Formation - Sandstone | Langsettian Sub-age |

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

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

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

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 79**

| ID | Location | Category | Description |
|---|---|---|---|
| 5 | 15m N | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 7 | 64m N | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 10 | 109m SE | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 13 | 123m NW | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 17 | 201m N | ROCK | Coal seam, inferred |
| 20 | 208m NE | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 23 | 316m NW | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 26 | 338m NW | ROCK | Coal seam, observed |
| 29 | 352m NW | ROCK | Coal seam, inferred |
| 30 | 368m NW | ROCK | Coal seam, inferred |
| 32 | 381m N | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 34 | 382m N | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 39 | 456m SW | FAULT | Normal fault, inferred; crossmarks on downthrow side |
| 40 | 481m NW | FAULT | Normal fault, inferred; crossmarks on downthrow side |

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

# 15 Geology 1:50,000 scale - Availability


## 15.1 50k Availability

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

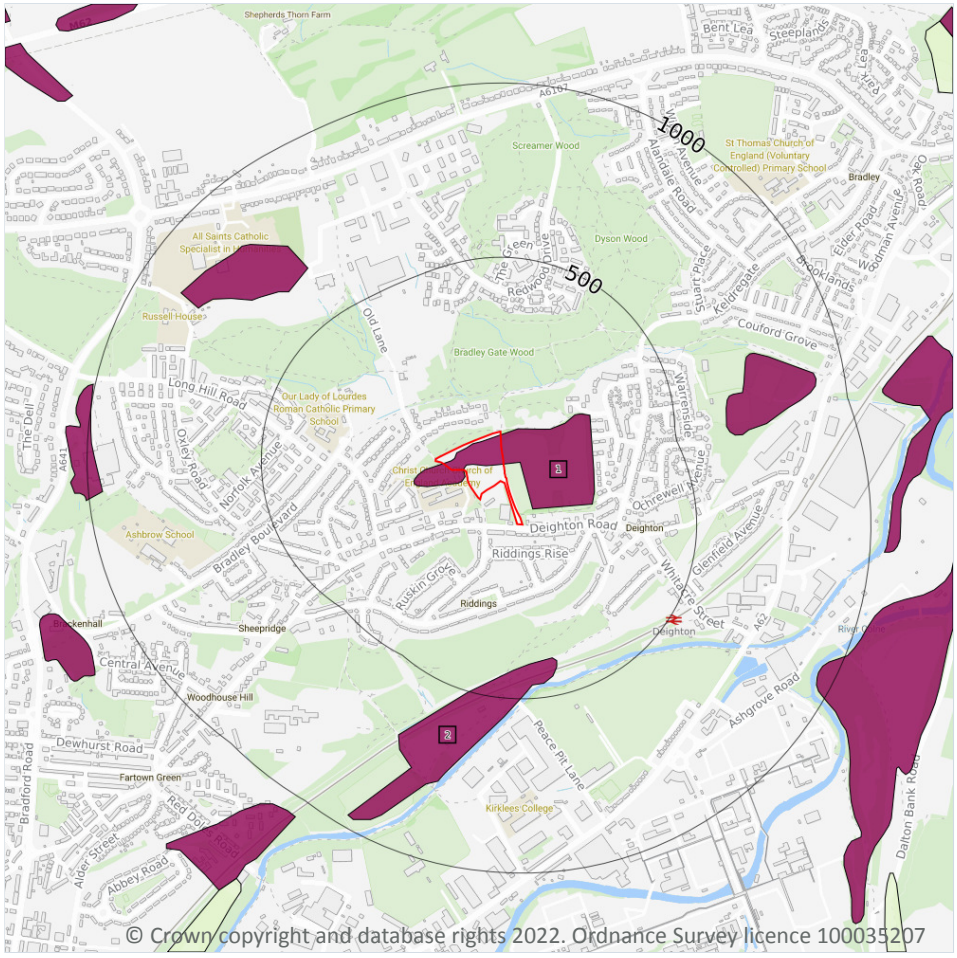
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 82**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|---|---|---|---|---|---|---|
| **1** | **On site** | **Full** | **Full** | **Full** | **Full** | **EW077_huddersfield_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

## 15.2 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 83**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **MGR-ARTDP** | **MADE GROUND (UNDIVIDED)** | **ARTIFICIAL DEPOSIT** |
| 2 | 392m S | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

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

## 15.3 Artificial ground permeability (50k)

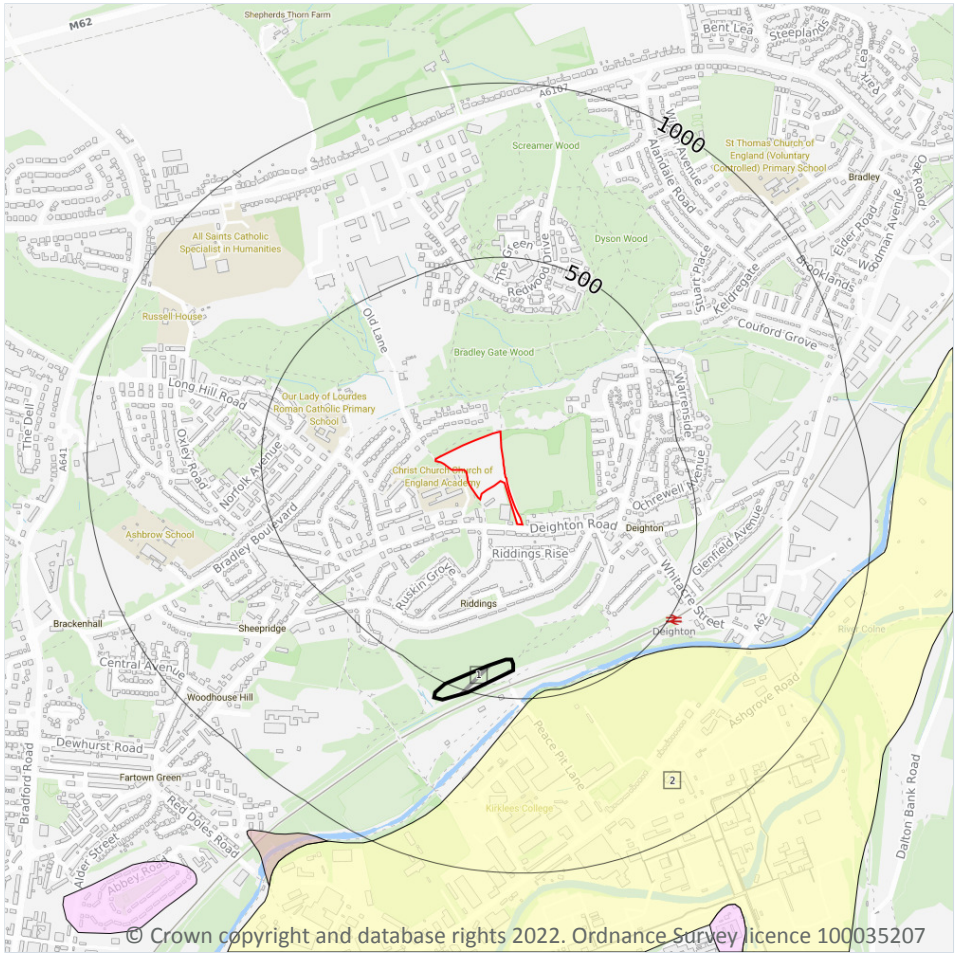
| Records within 50m | 1 |
|---|---|

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

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

*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.

## 15.4 Superficial geology (50k)

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

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 85**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 2 | 480m SE | ALV-XCZSV | ALLUVIUM | CLAY, SILT, SAND AND GRAVEL |

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

## 15.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

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

## 15.6 Landslip (50k)

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

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 85**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| 1 | 389m S | SLIP-UKNOWN | LANDSLIDE DEPOSITS | UNKNOWN/UNCLASSIFIED ENTRY |

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

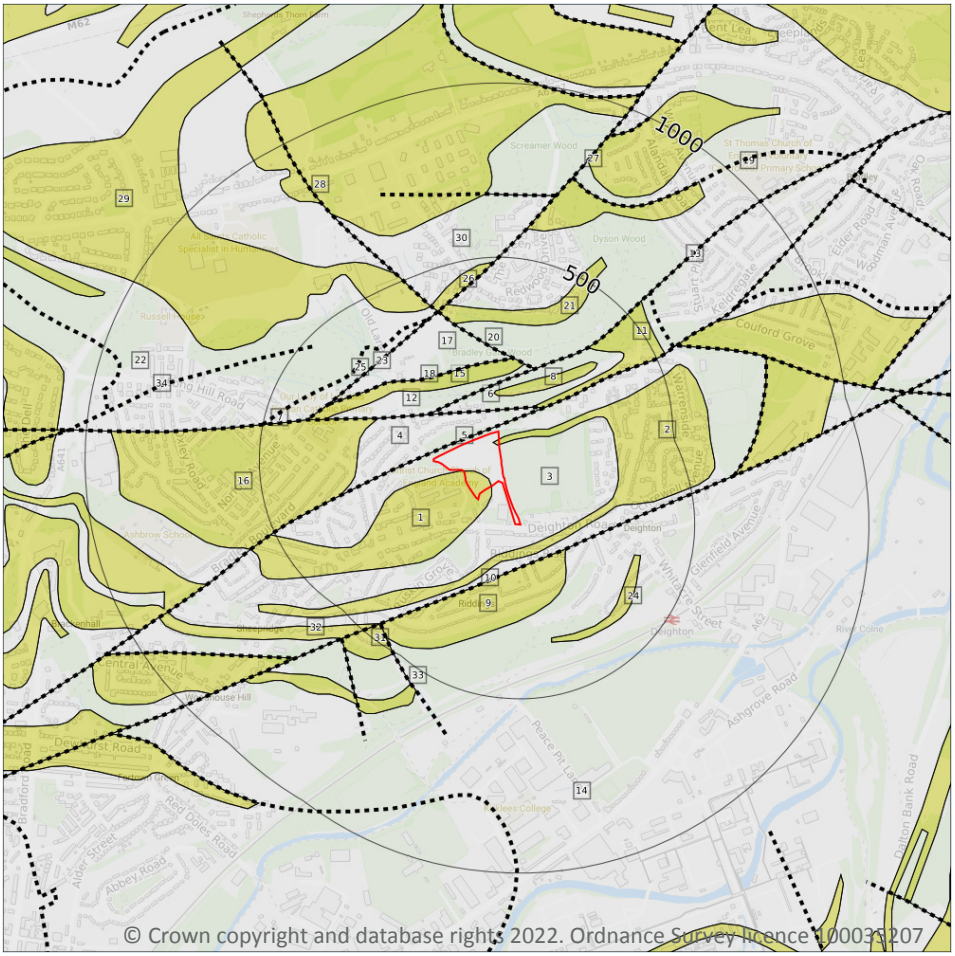
## 15.7 Landslip permeability (50k)

| 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.

## 15.8 Bedrock geology (50k)

| Records within 500m | 22 |
|---|---|

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 87**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| 1 | On site | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 2 | On site | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **3** | **On site** | **PLCM-MDSS** | **PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE** | **WESTPHALIAN** |
| 4 | 13m N | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 6 | 62m N | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 8 | 103m N | GM-SDST | GREENMOOR ROCK - SANDSTONE | WESTPHALIAN |
| 9 | 114m SE | EF-SDST | ELLAND FLAGS - SANDSTONE | WESTPHALIAN |
| 11 | 119m NE | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 12 | 120m NW | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 14 | 147m SE | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 15 | 154m N | GR-SDST | GRENOSIDE SANDSTONE - SANDSTONE | WESTPHALIAN |
| 16 | 198m NW | GM-SDST | GREENMOOR ROCK - SANDSTONE | WESTPHALIAN |
| 17 | 201m N | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 19 | 207m NE | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 21 | 312m N | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 22 | 314m NW | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 24 | 337m SE | EYR-SDST | 80 YARD ROCK - SANDSTONE | WESTPHALIAN |
| 26 | 382m N | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 29 | 400m N | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |
| 30 | 403m N | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 31 | 454m SW | EF-SDST | ELLAND FLAGS - SANDSTONE | WESTPHALIAN |
| 32 | 454m SW | PLCM-SDST | PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE | WESTPHALIAN |

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

## 15.9 Bedrock permeability (50k)

| Records within 50m | 3 |
|---|---|

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** | **Moderate** | **Low** |
| **On site** | **Fracture** | **High** | **Moderate** |
| **On site** | **Fracture** | **High** | **Moderate** |

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

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

| Records within 500m | 12 |
|---|---|

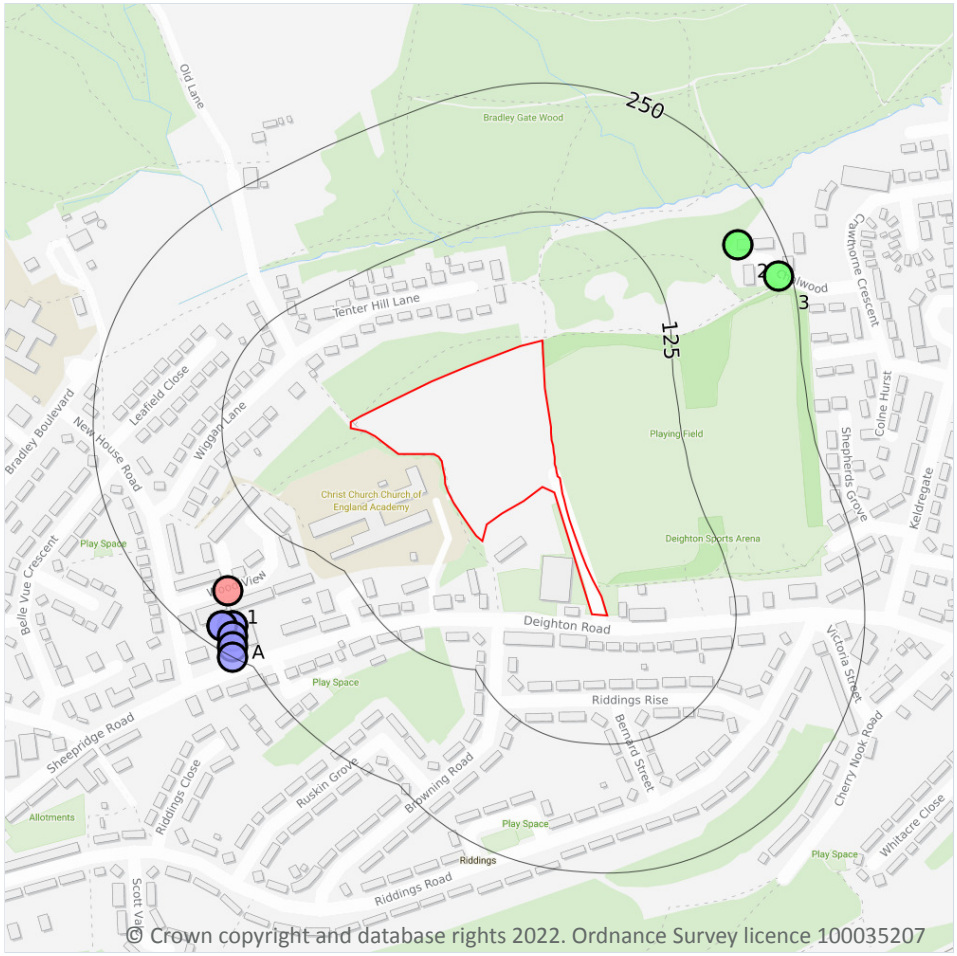
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 87**

| ID | Location | Category | Description |
|---|---|---|---|
| 5 | 13m N | FAULT | Fault, inferred |
| 7 | 62m N | FAULT | Fault, inferred |
| 10 | 114m SE | FAULT | Fault, inferred |
| 13 | 120m NW | FAULT | Fault, inferred |
| 18 | 201m N | ROCK | Coal seam, inferred |
| 20 | 207m NE | FAULT | Fault, inferred |
| 23 | 314m NW | FAULT | Fault, inferred |
| 25 | 340m NW | ROCK | Coal seam, inferred |
| 27 | 382m N | FAULT | Fault, inferred |
| 28 | 382m N | FAULT | Fault, inferred |
| 33 | 454m SW | FAULT | Fault, inferred |
| 34 | 475m NW | FAULT | Fault, inferred |

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

# 16 Boreholes




Site Outline

Search buffers in metres (m)

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

## 16.1 BGS Boreholes

| Records within 250m | 10 |
|---|---|

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.

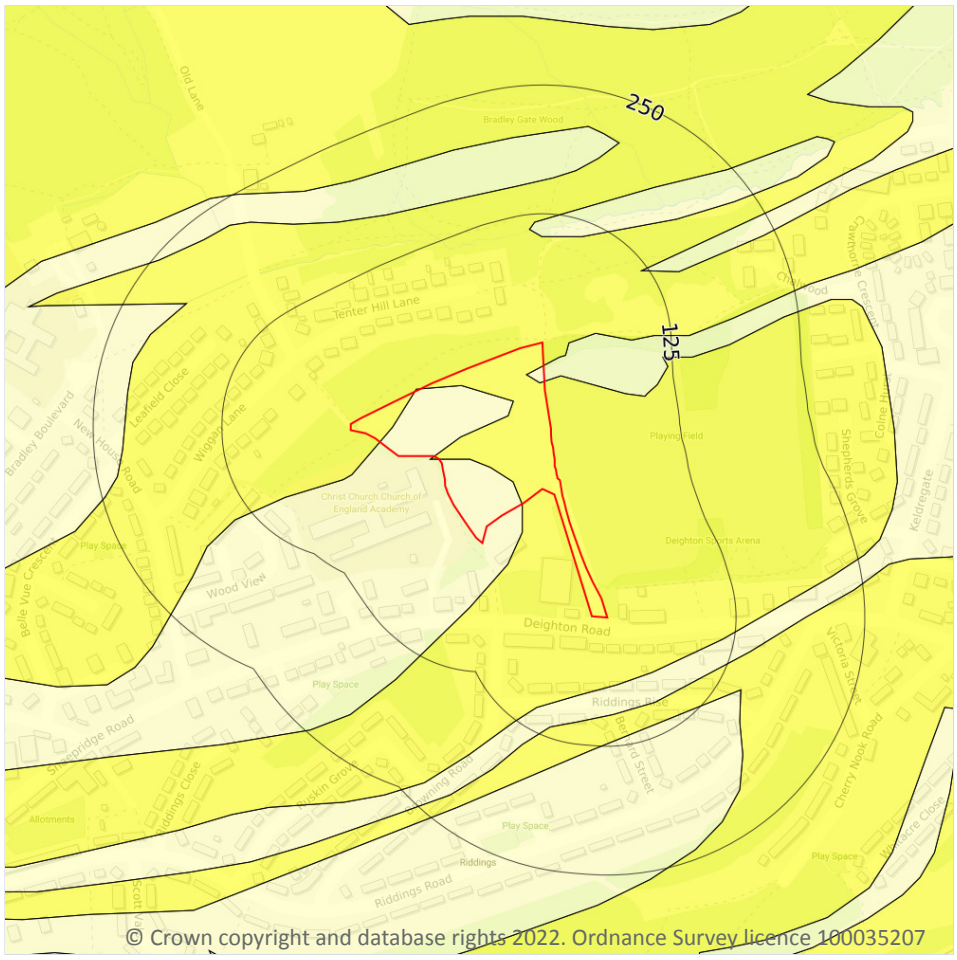
Features are displayed on the Boreholes map on **page 91**

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 1 | 198m SW | 415655 419414 | HUDDERSFIELD STEAM LAUNDRY SHEEPRIDGE HUDDERSFIELD | 106.68 | N | 40805 |
| 2 | 211m NE | 416150 419750 | CHALWOOD DEIGHTON 2 | 20.0 | N | 15631371 |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| A | 224m SW | 415660 419380 | SHEEPRIDGE HUDDERSFIELD | 1.3 | N | 41020 |
| A | 224m SW | 415660 419380 | SHEEPRIDGE HUDDERSFIELD | 0.3 | N | 41021 |
| A | 229m SW | 415650 419380 | SHEEPRIDGE HUDDERSFIELD | 2.75 | N | 41016 |
| A | 229m SW | 415650 419380 | SHEEPRIDGE HUDDERSFIELD | 3.0 | N | 41017 |
| A | 232m SW | 415660 419370 | SHEEPRIDGE HUDDERSFIELD | 0.3 | N | 41022 |
| 3 | 238m NE | 416190 419720 | CHALWOOD DEIGHTON 3 | 20.0 | N | 15631372 |
| A | 241m SW | 415660 419360 | SHEEPRIDGE HUDDERSFIELD | 2.0 | N | 41019 |
| A | 250m SW | 415660 419350 | SHEEPRIDGE HUDDERSFIELD | 2.0 | N | 41018 |

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

# 17 Natural ground subsidence - Shrink swell clays




## 17.1 Shrink swell clays

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

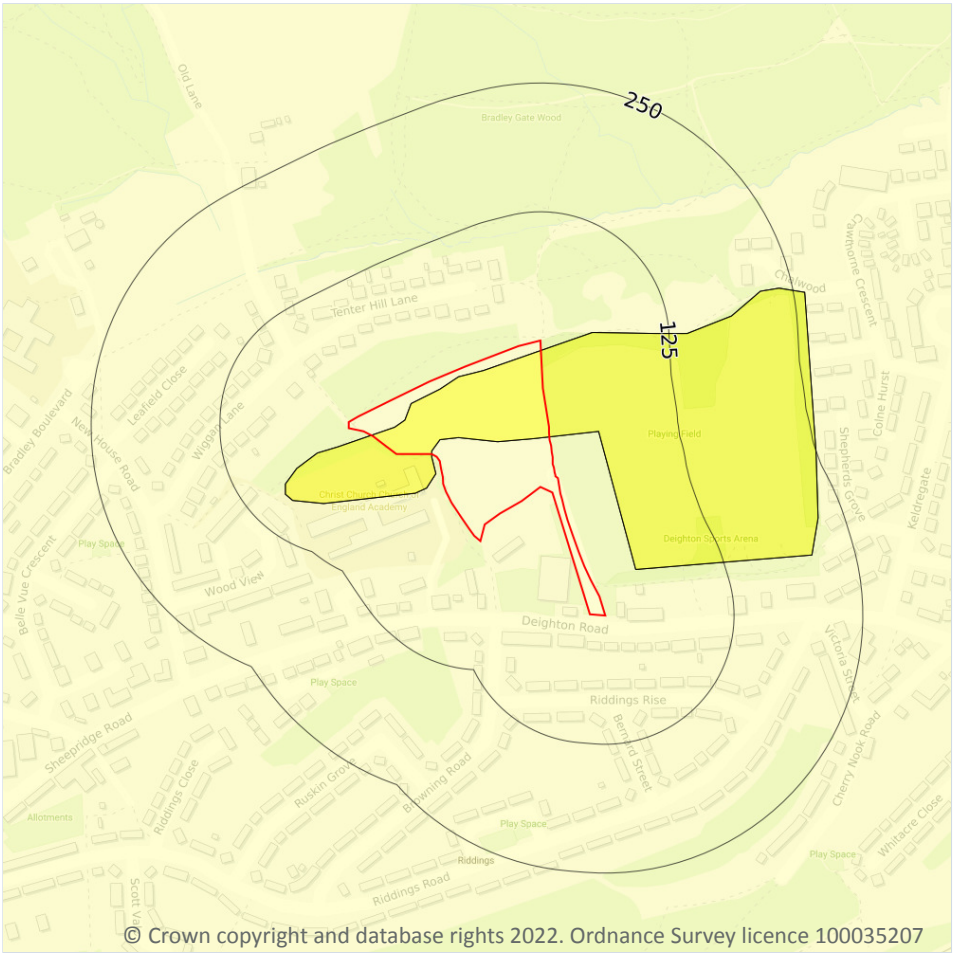
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 93**

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

*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

## 17.2 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.

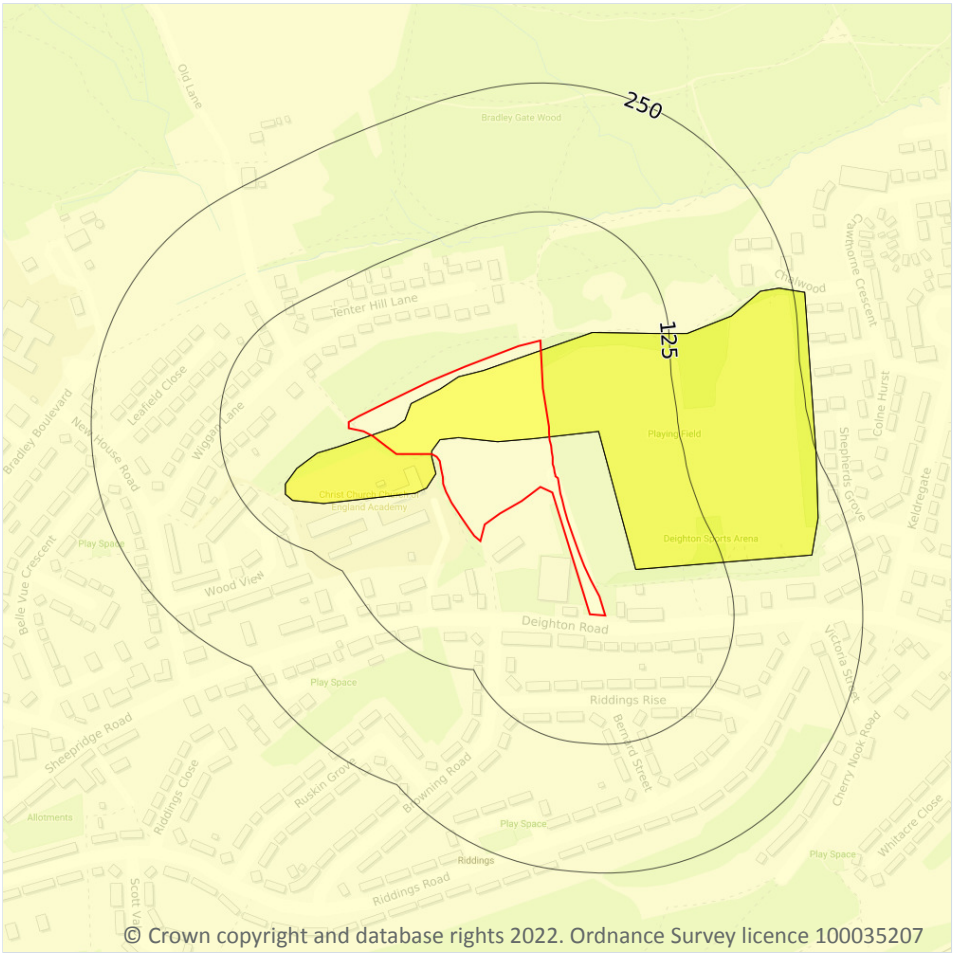
Features are displayed on the Natural ground subsidence - Running sands map on **page 94**

| 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

## 17.3 Compressible deposits

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

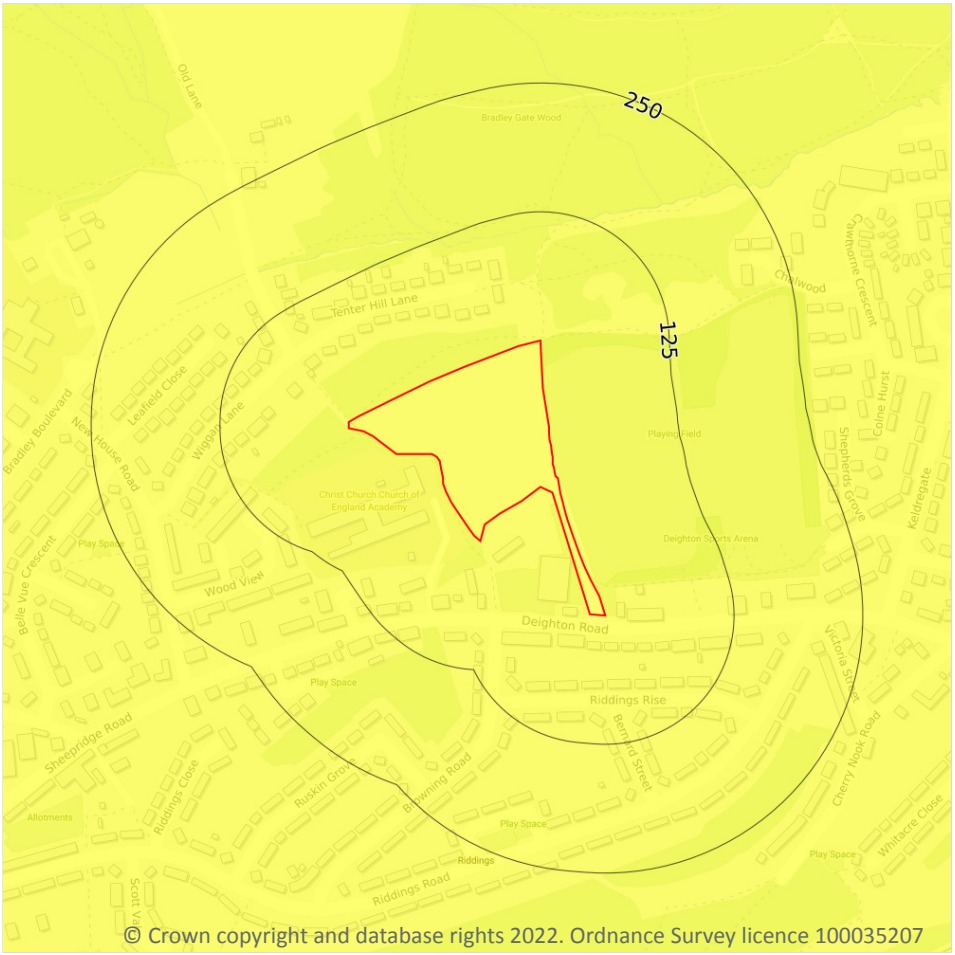
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 96**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Compressible strata are not thought to occur.** |
| **On site** | **Very low** | **Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.** |

*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

## 17.4 Collapsible deposits

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

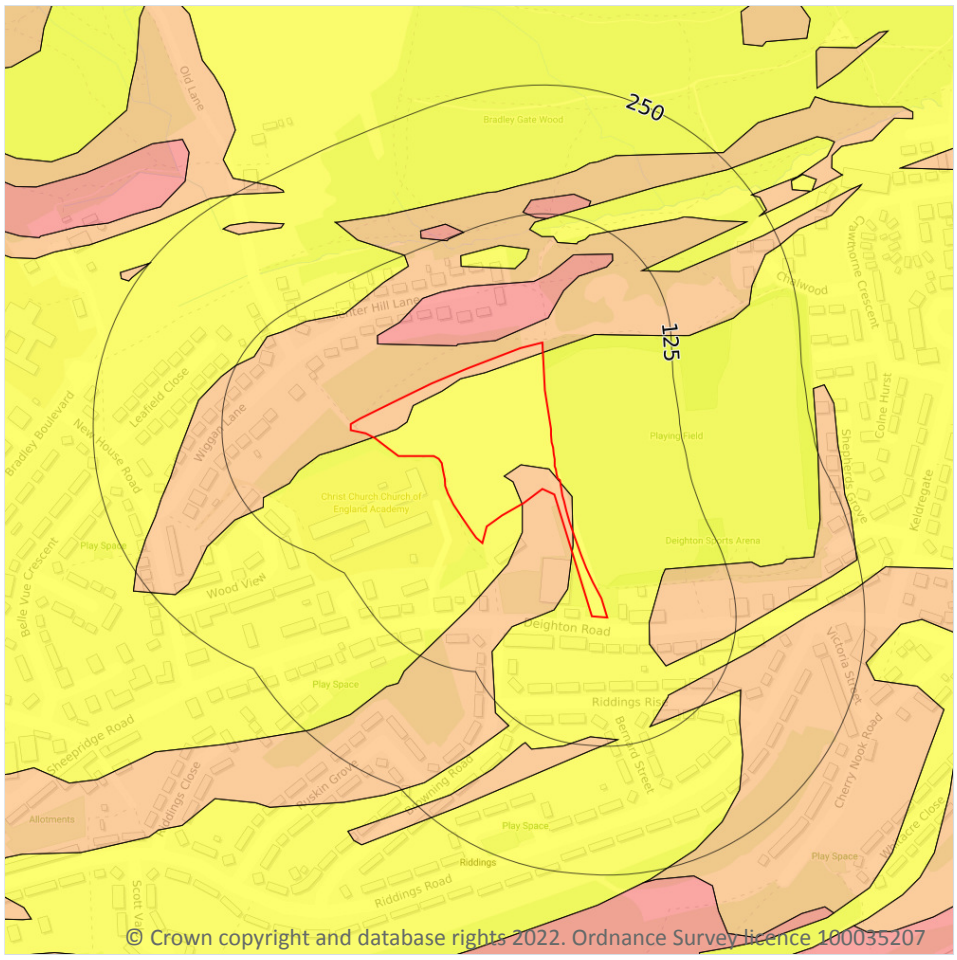
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 98**

| 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




## 17.5 Landslides

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

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.

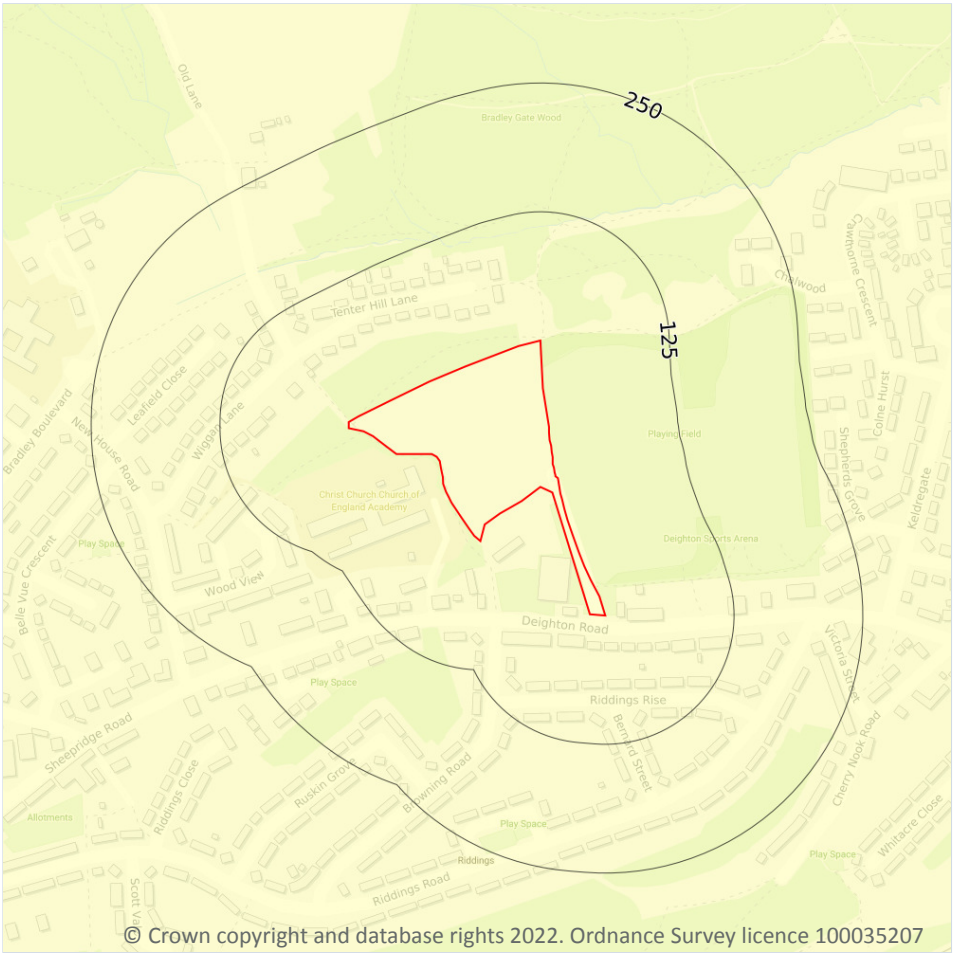
Features are displayed on the Natural ground subsidence - Landslides map on **page 99**

| 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.** |

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Low** | **Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.** |
| 16m N | Moderate | Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site. |
| 41m SE | Low | Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site. |

*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

## 17.6 Ground dissolution of soluble rocks

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

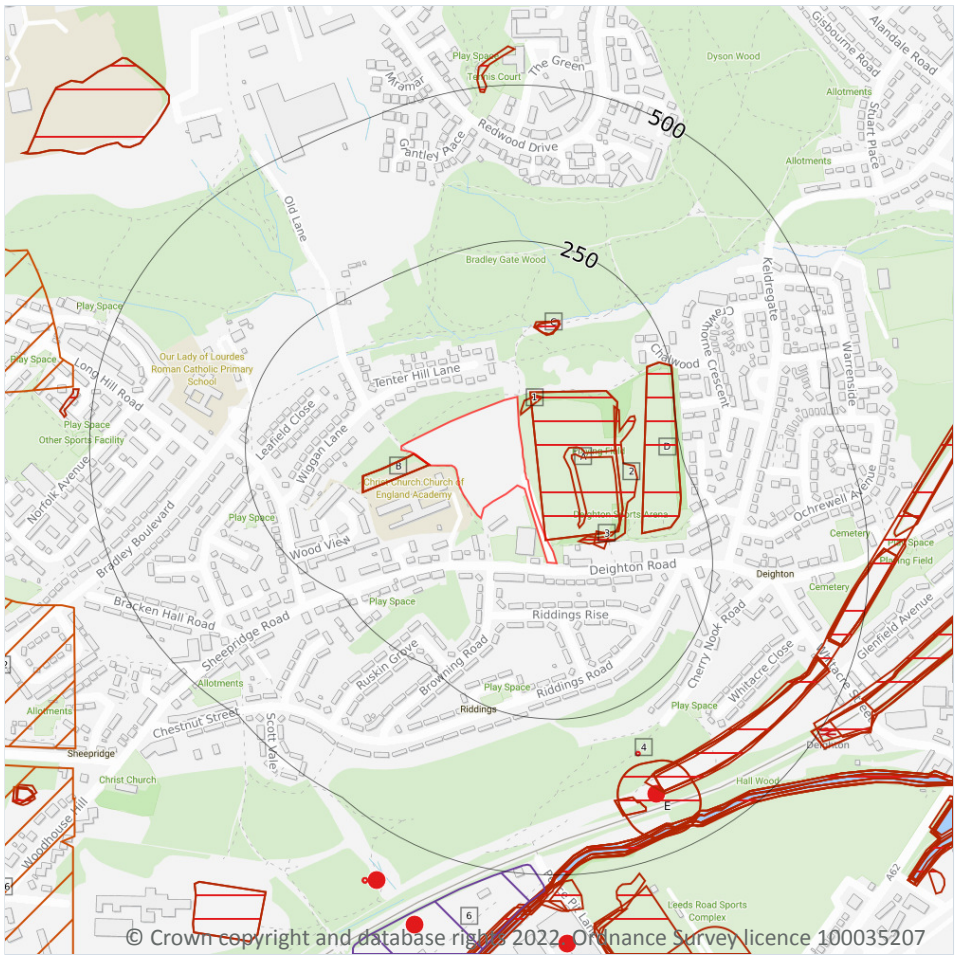
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 101**

| 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.*

# 18 Mining, ground workings and natural cavities




Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

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

## 18.1 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.*

## 18.2 BritPits

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

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

| ID | Location | Details | Description |
|---|---|---|---|
| E | 403m SE | Name: Peace Pit<br>Address: Sheepbridge, HUDDERSFIELD, West Yorkshire<br>Commodity: Coal, Deep<br>Status: Ceased | Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |

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

## 18.3 Surface ground workings

| Records within 250m | 13 |
|---|---|

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| **A** | **On site** | **Unspecified Heap** | **1975** | **1:10000** |
| **A** | **On site** | **Unspecified Heap** | **1988** | **1:10000** |
| B | 0m W | Unspecified Heap | 1975 | 1:10000 |
| B | 0m W | Unspecified Heap | 1988 | 1:10000 |
| B | 0m W | Unspecified Heap | 1965 | 1:10560 |
| 1 | 4m NE | Unspecified Heap | 1965 | 1:10560 |
| 2 | 45m SE | Unspecified Heaps | 1965 | 1:10560 |
| 3 | 66m SE | Mill Pond | 1905 | 1:10560 |
| C | 109m NE | Unspecified Pit | 1948 | 1:10560 |

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| C | 111m NE | Unspecified Pit | 1956 | 1:10560 |
| C | 111m NE | Unspecified Pit | 1965 | 1:10560 |
| D | 145m SE | Unspecified Heap | 1975 | 1:10000 |
| D | 145m SE | Unspecified Heap | 1988 | 1:10000 |

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

## 18.4 Underground workings

| **Records within 1000m** | **3** |
|---|---|

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| 4 | 329m SE | Unspecified Shaft | 1905 | 1:10560 |
| N | 584m S | Unspecified Old Shaft | 1948 | 1:10560 |
| N | 584m S | Unspecified Old Shaft | 1905 | 1:10560 |

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

## 18.5 Historical Mineral Planning Areas

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

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

| ID | Location | Site Name | Mineral | Type | Planning Status | Planning Status Date |
|---|---|---|---|---|---|---|
| 6 | 485m S | Fieldhouse Fireclay Works | Fireclay | Surface mineral working | Valid | Not available |

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

## 18.6 Non-coal mining

| Records within 1000m | 6 |
|---|---|

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

| ID | Location | Name | Commodity | Class | Likelihood |
|---|---|---|---|---|---|
| 10 | 535m W | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |
| 12 | 583m W | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |
| 16 | 734m SW | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |
| - | 778m W | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |
| - | 849m NW | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |
| - | 882m NW | Elland Flag Mines | Sandstone - Elland Flags | D | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered |

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

## 18.7 Mining cavities

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

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

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

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

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

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

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

| Location | Details |
|---|---|
| **On site** | **The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.** |

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

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

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

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

## 18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

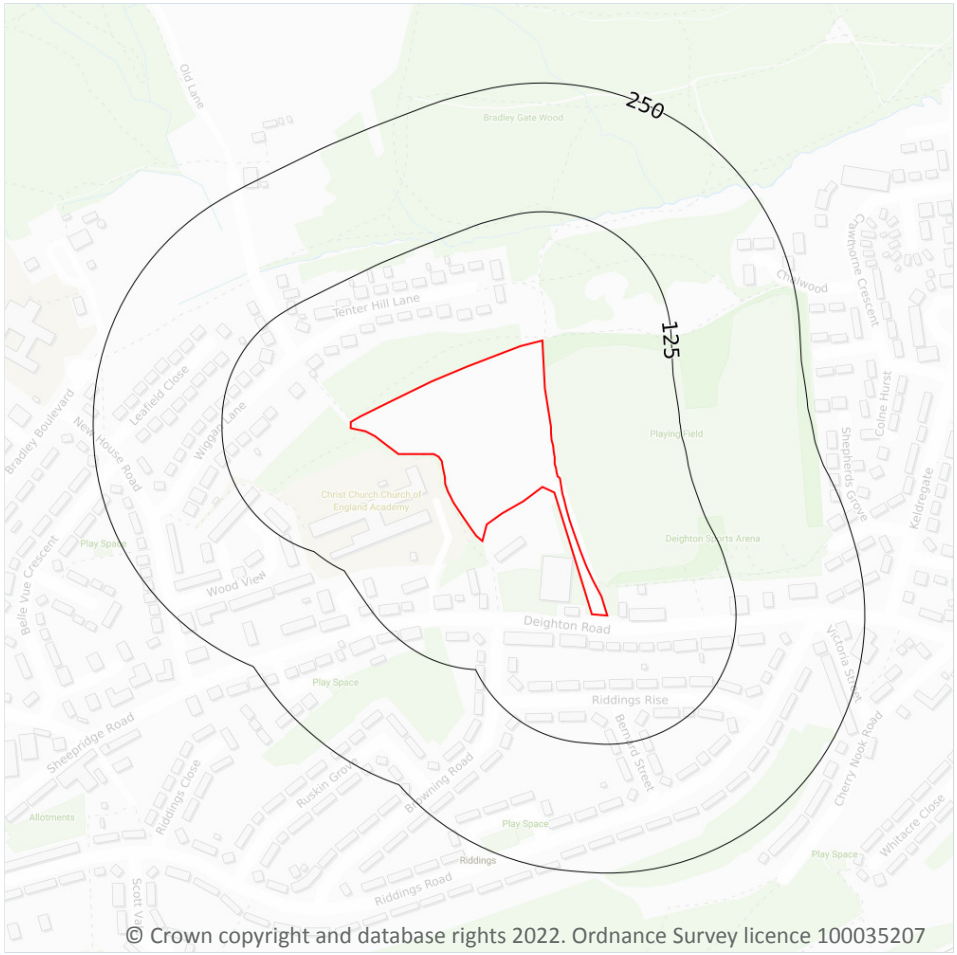
## 18.13 Clay mining

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

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

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

# 19 Radon






## 19.1 Radon

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

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

Features are displayed on the Radon map on **page 109**

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

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

# 20 Soil chemistry

## 20.1 BGS Estimated Background Soil Chemistry

| Records within 50m | 14 |
|---|---|

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 - 25 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **25 - 35 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| **On site** | **25 - 35 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| **On site** | **25 - 35 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **30 - 45 mg/kg** |
| **On site** | **25 - 35 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **25 - 35 mg/kg** | **No data** | **100 - 200 mg/kg** | **60 - 120 mg/kg** | **1.8 mg/kg** | **90 - 120 mg/kg** | **15 - 30 mg/kg** |
| 13m N | 15 - 25 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 15 - 30 mg/kg |
| 17m SE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 15 - 30 mg/kg |
| 17m SE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 15 - 30 mg/kg |
| 38m NE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |
| 38m NE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 30 - 45 mg/kg |

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|---|---|---|---|---|---|---|---|
| 39m NE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 15 - 30 mg/kg |
| 39m NE | 25 - 35 mg/kg | No data | 100 - 200 mg/kg | 60 - 120 mg/kg | 1.8 mg/kg | 90 - 120 mg/kg | 15 - 30 mg/kg |

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

## 20.2 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.*

## 20.3 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.*

# 21 Railway infrastructure and projects

## 21.1 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.*

## 21.2 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.*

## 21.3 Railway tunnels

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

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 21.4 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.*

## 21.5 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.*

## 21.6 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.*

## 21.7 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.*

## 21.8 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.*

## 21.9 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.*

## 21.10 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-jan-2020/.

# Appendix III


**EMAPSITE™**

**Site Details:**

Joseph Norton SEMH School,
Land off Deighton Road,
Deighton, Huddersfield, HD2
1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** County Series
**Map date:** **1893**
**Scale:** 1:2,500
**Printed at:** 1:2,500

N
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Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

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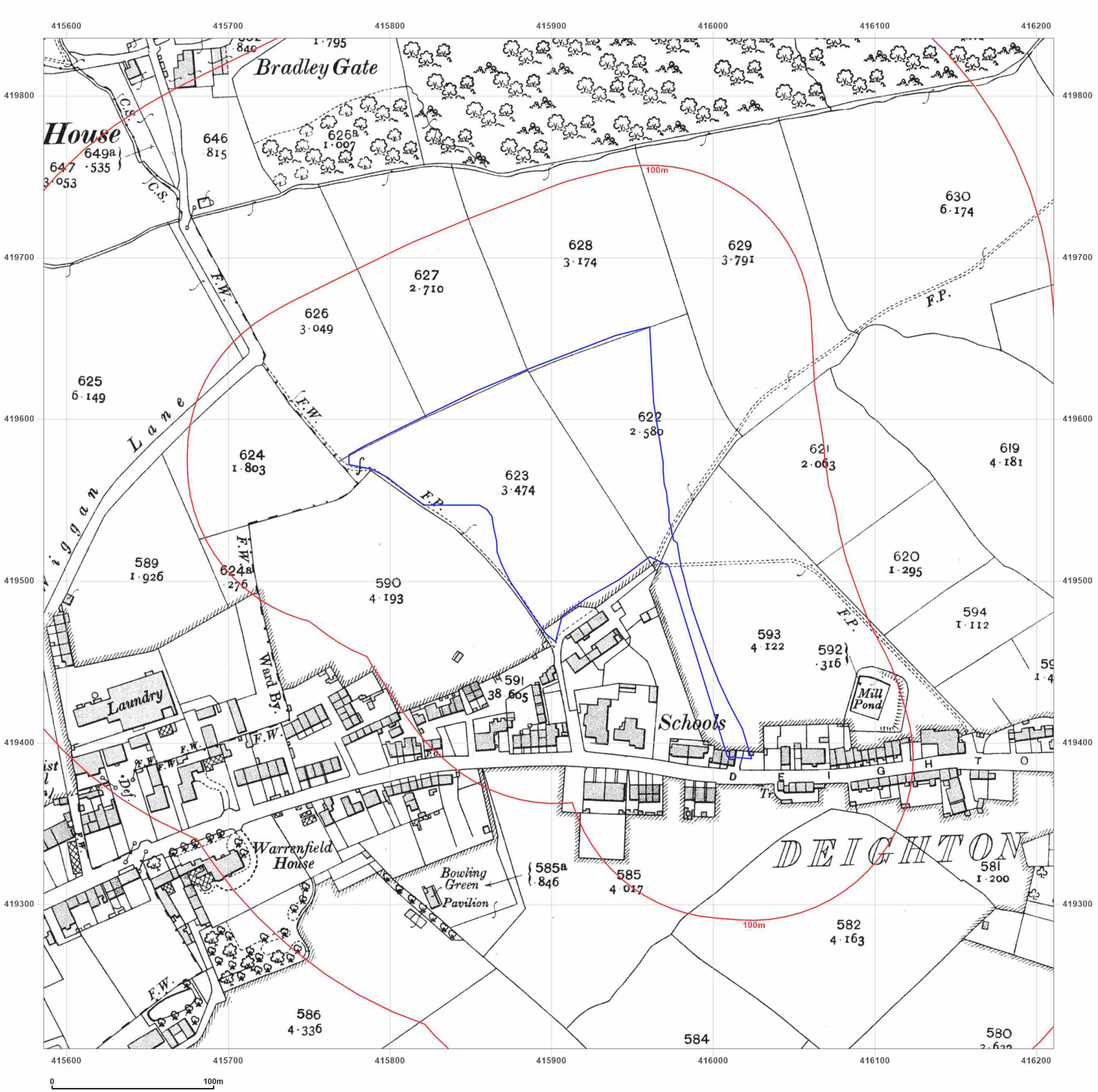


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**Site Details:**

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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** County Series
**Map date:** **1907**
**Scale:** 1:2,500
**Printed at:** 1:2,500

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Surveyed 1907
Revised 1907
Edition N/A
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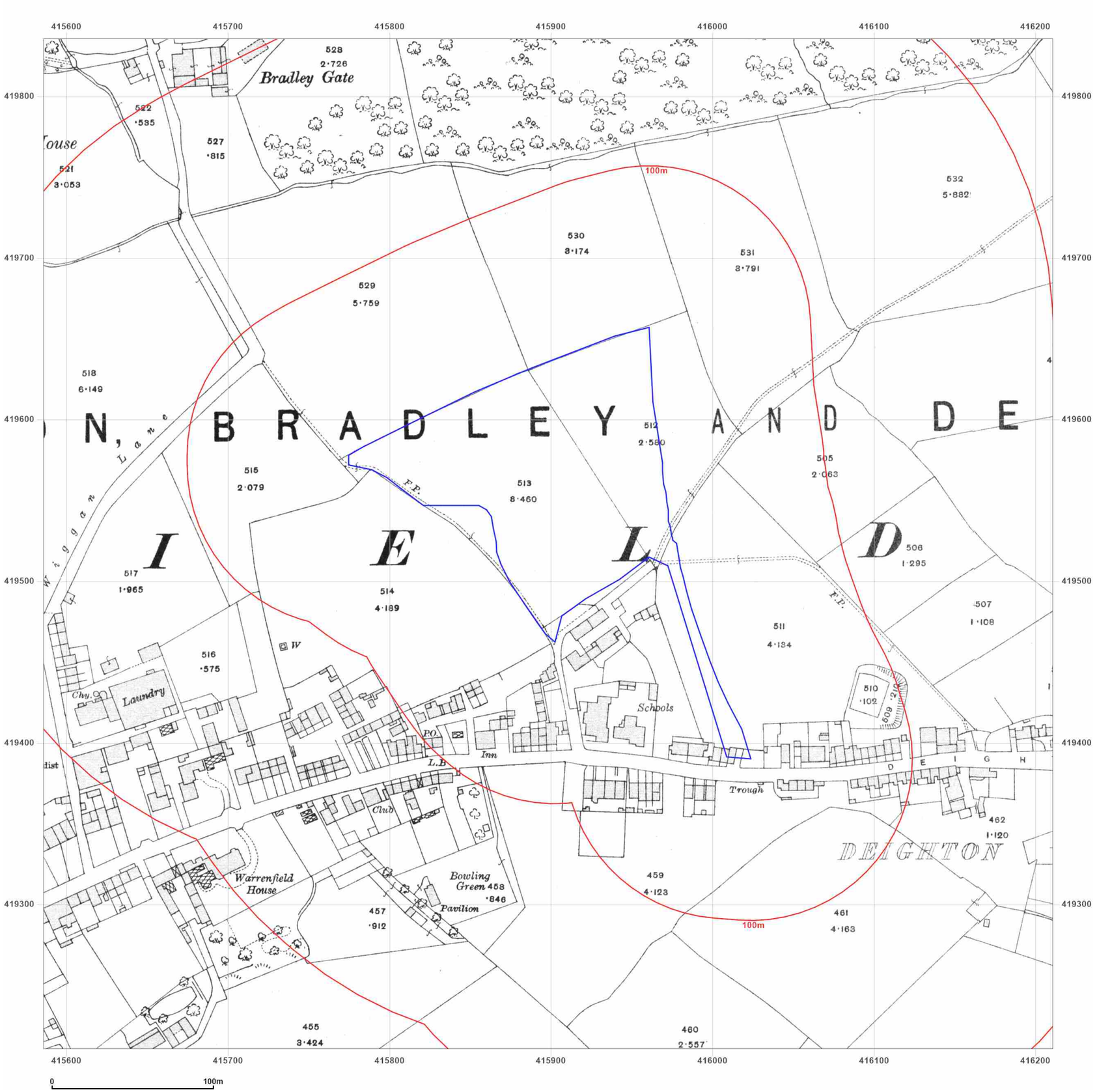


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Deighton, Huddersfield, HD2
1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** County Series

**Map date:** **1918**

**Scale:** 1:2,500

**Printed at:** 1:2,500

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Surveyed 1918
Revised 1918
Edition N/A
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**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1958**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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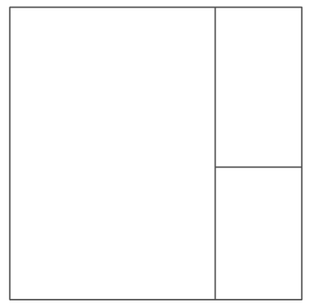

Surveyed N/A
Revised N/A
Edition N/A
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**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid
**Map date:** **1957-1959**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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| | |
|---|---|
| Surveyed 1958<br>Revised 1958<br>Edition N/A<br>Copyright 1959<br>Levelled 1931 | Surveyed 1957<br>Revised 1957<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |
| Surveyed 1958<br>Revised 1958<br>Edition N/A<br>Copyright 1959<br>Levelled 1931 | Surveyed 1957<br>Revised 1957<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |

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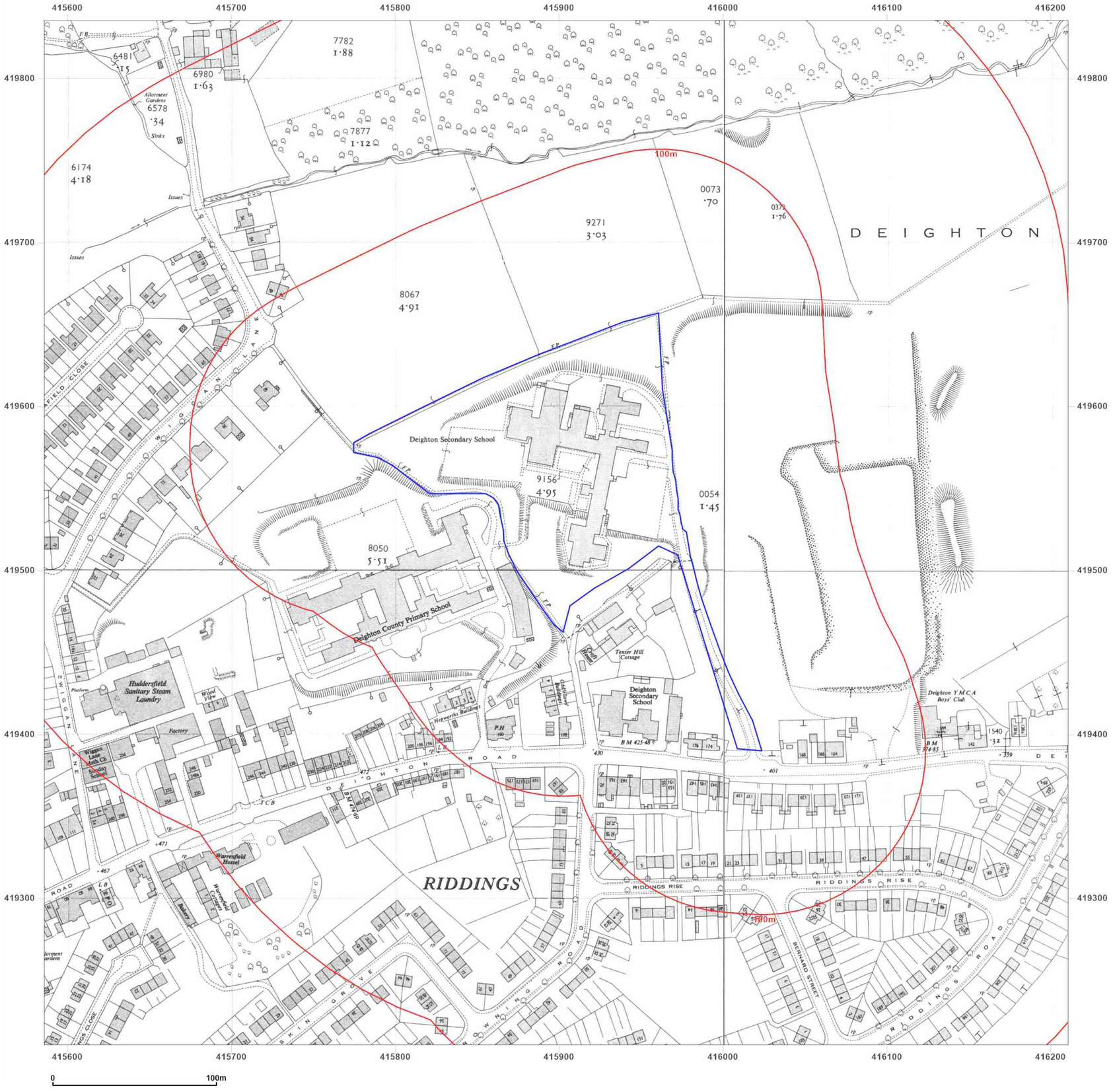


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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1959**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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Edition 1959
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**Site Details:**

Joseph Norton SEMH School,
Land off Deighton Road,
Deighton, Huddersfield, HD2
1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1966-1970**

**Scale:** 1:1,250

**Printed at:** 1:2,000

N
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Surveyed 1958
Revised 1966
Edition N/A
Copyright 1966
Levelled 1959

Surveyed 1957
Revised 1969
Edition N/A
Copyright 1970
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Surveyed 1957
Revised 1966
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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1971**

**Scale:** 1:2,500

**Printed at:** 1:2,500

N
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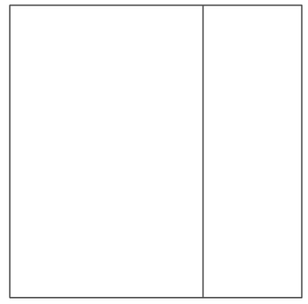

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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1971**

**Scale:** 1:2,500

**Printed at:** 1:2,500

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**Site Details:**

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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid
**Map date:** **1974-1975**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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Revised N/A
Edition N/A
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Edition N/A
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**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid
**Map date:** **1975-1979**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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| | |
|---|---|
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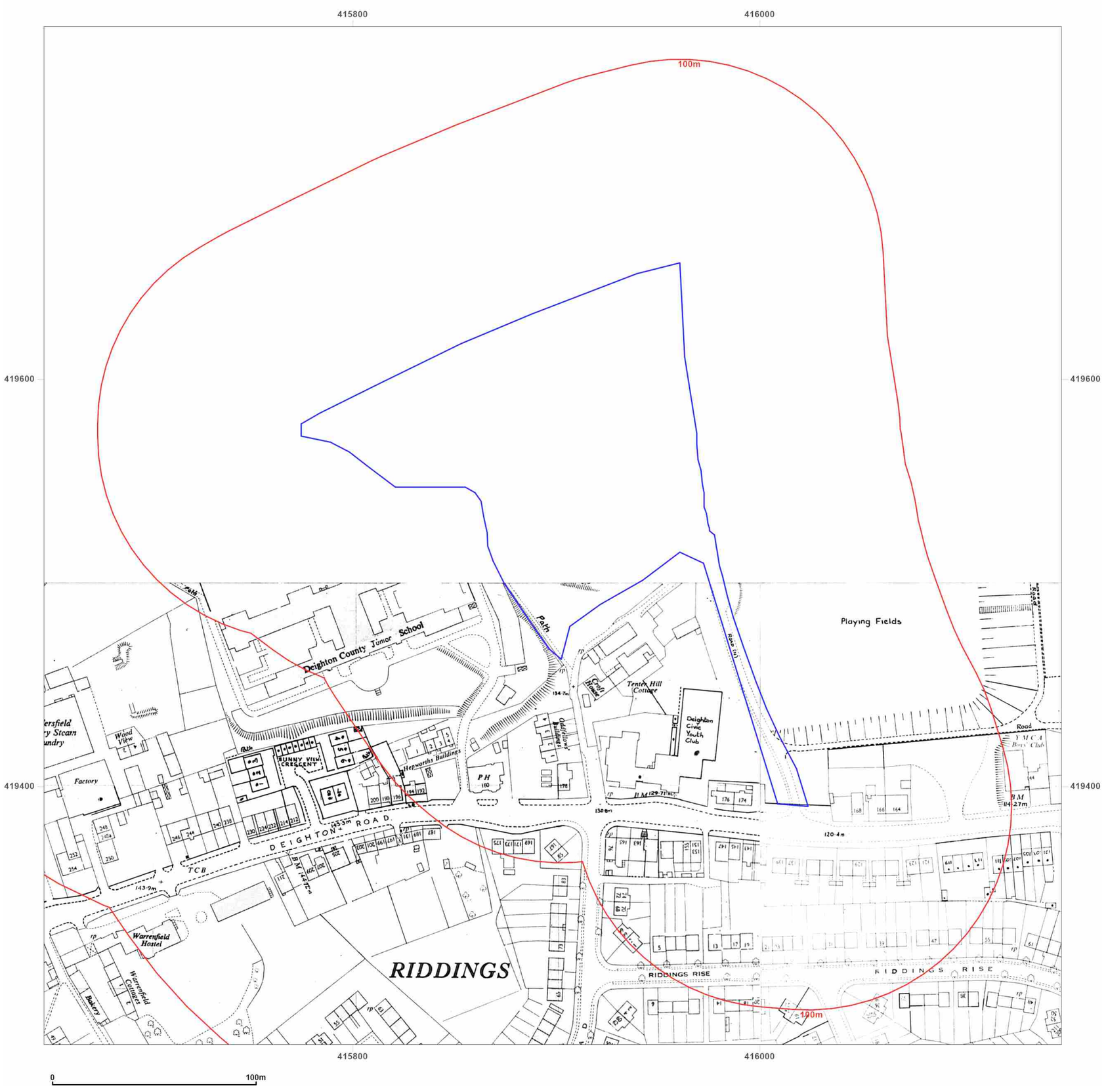


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**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid
**Map date:** **1980-1985**
**Scale:** 1:1,250
**Printed at:** 1:2,000

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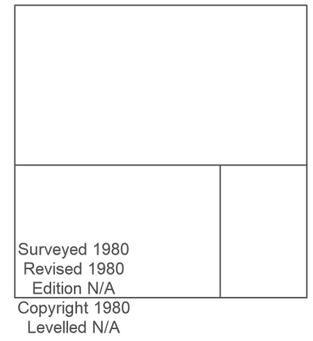


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**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

**Printed at:** 1:2,000

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|---|---|
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| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1993<br>Levelled N/A | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1993<br>Levelled N/A |

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1JP

**Client Ref:** EMS_822282_1016755
**Report Ref:** EMS-822282_1057111
**Grid Ref:** 415898, 419523

**Map Name:** LandLine
**Map date:** **2003**
**Scale:** 1:1,250
**Printed at:** 1:1,250

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2003

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