

SLADEN ASSOCIATES

**PHASE 1 GEO-ENVIRONMENTAL
REPORT AND MINING RISK
ASSESSMENT
Proposed Residential Development
Land at Manifold Drive
Cheadle
Staffordshire**

**Prepared for
CCP Developments**

Date : September 2022

Job No : 22 2506

**PHASE 1 GEO-ENVIRONMENTAL REPORT AND MINING
RISK ASSESSMENT**

Proposed Residential Development

Land at Manifold Drive

Cheadle

Staffordshire

Prepared for: CCP Developments

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REPORT No 22 2506

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**Proposed Residential Development
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PHASE 1 GEO-ENVIRONMENTAL REPORT AND MINING RISK ASSESSMENT

Proposed Residential Development Land at Manifold Drive Cheadle Staffordshire

1 INTRODUCTION

CCP Developments have instructed Sladen Associates to carry out a Phase 1 Geo-environmental Study and Coal Mining Risk Assessment for the site of a proposed new residential development at land off Manifold Drive in Cheadle. The study was restricted to publicly available documentary sources of information and a site walkover survey and included no intrusive investigative work.

The study included a review of the history of the site based on available old Ordnance Survey Maps, a review of the site geology, mining legacy and hydrogeology and a search for records of any licensed landfill sites, pollution incidents etc. within the vicinity of the site. This report presents the factual results of the study and a conceptual model of potential pollution linkages together with comment on the potential ground-related constraints that may relate to re-development of the site.

2 THE SITE

2.1 LOCATION

The study site, which has an overall area of about 2.3 ha, lies to the south east of Manifold Drive, some 1.2 km south east of Cheadle Town Centre at National Grid Reference 4015 3421, see Figures 1 and 2. There is residential development to the north west and north east and a farmyard area to the north, otherwise the surrounding areas, and the site itself, are in agricultural use.

A more detailed site description is provided later in the report.

2.2 PROPOSED DEVELOPMENT

It is proposed to re-develop the site with the construction of a series of two storey single family residences with associated access driveways. The houses are expected to have private gardens. The currently proposed development layout is shown in Figure 3.

2.3 HISTORY

Copies of the relevant historical Ordnance Survey (OS) maps are included in Appendix A, for reference. Aerial photographs dating from 2003 to 2021 were also reviewed.

At the time of the first Ordnance Survey in 1880, the site was without built development, straddling the boundaries of three agricultural fields with trees along some of the associated fence lines. A small pond is shown just off-site to the south east of the central part of the south eastern site boundary. The surrounding areas were mainly in agricultural use. A farm house, later identified as Rakeway House, and associated outbuildings are shown off-site to the north east. The route of Rakeway Road was

already an established thoroughfare to the north of the farm buildings but other streets in the area were yet to be developed. Evidence of former mining in the vicinity of the site was restricted to an old coal shaft shown some 60 m to the north west of the site. This is identified as the Rakeway Colliery shaft on available geological mapping. In the wider area a series of shafts are shown near Cheadle Mill, some 400 m to the north west.

Apart from some residential development to the south of Rakeway Road to the north west of the site, little change is shown in the vicinity of the site on the subsequent map record until 1956. The 1956 map shows a drain in the north central site area and another adjacent to the part of the north eastern site area. A second, very small, pond is shown straddling the south eastern site boundary.

By 1976, Manifold Drive had been constructed to the north west of the site and the area to the north west of the road developed for residential use. The drain in the northern site area is no longer shown.

Little subsequent change is shown on the available map or air photo record. Some residential development has recently been completed to the east of the farmyard area to the north east of the site. The site area appears to have been used mainly for sheep grazing.

2.4 GEOLOGY

Mapping published by the British Geological Survey shows the site to be underlain by solid strata of the Pennine Lower Coal Measures of Carboniferous Age. The Lower Coal Measures comprise interbedded mudstones, sandstones, siltstones and some coals.

The solid strata are shown to be overlain by natural drift deposits comprising glacial clay till.

The outcrop of the Woodhead Coal is shown some 250 to 300 m to the east of the site, dipping at about 6 to 7 degrees to the horizontal such that that seam would be expected to be present at about 26 to 36 m depth below rockhead the north eastern site area. This is reasonably consistent with the reported depth to the Woodhead Coal (50 m) at the Rakeway Colliery shaft to the west. The outcrop of the overlying Cobble Coal is shown off-site to the south west and as such that seam would not be expected to be present below the study area. In the wider area a thin seam known as the Rider Coal is sometimes present between the Cobble and Woodhead Coals but it is not mapped in the vicinity of the site.

2.5 MINING

The Coal Authority (Appendix D), have no records of workings below or in the vicinity of the site. The Coal Authority does, however, consider that there is some potential for shallow unrecorded workings to be present. Based on the anticipated site geology, as discussed above, any such unrecorded workings would be expected to be in the Woodhead Seam and be restricted to the north eastern site area at depths in excess of about 26 m.

The Coal Authority has no record of mine entries on site or within 20 m of the site boundary.

2.6 HYDROGEOLOGY

The Carboniferous strata that underlie the site, are generically classified as a Secondary 'A' Aquifer by the Environment Agency, irrespective of the local lithology, as they can sometimes be suitable for industrial water supply purposes. The overlying glacial till is classified as an Undifferentiated Secondary Aquifer but in practice is unlikely to be suitable for water supply. There are no licensed groundwater abstractions within 1 km of

the site but there are three licensed groundwater abstractions within 1 to 2 km. These are all for potable water supply, a pair some 1.5 km to the north west and one some 1.9 km to the south west, refer Appendix B for details. The site does not lie within any groundwater source protection zones.

The closest continuous natural surface water course is a stream, some 170 m to the north of the site but there is a short section of open drain near the north east corner of the site. The natural direction of shallow groundwater flow below the site area is likely to be to the north or north west, with eventual discharge to the stream.

The site is not shown, on mapping produced by the Environment Agency, to be potentially prone to flooding from rivers.

2.7 POLLUTION INCIDENTS

Searches have revealed no evidence of recorded pollution incidents within 250 m of the site, Appendix B.

2.8 NEARBY LANDFILL SITES

Searches have revealed no evidence of current or former landfills within 250 m of the site, Appendix B.

2.9 RADON

The site is not in an area where radon protection measures should be provided for new residential development, Appendix B.

2.10 OBSERVATIONS MADE DURING SITE WALKOVER STUDY

A site walkover survey was undertaken on 13th September 2022. Site photographs are included in Appendix C and photograph locations are shown on Figure 2.

The site lies to the south east of Manifold Drive and is separated from the roadway by a short barbed wire fence (Panoramic Photograph 3). The site comprises four areas of rough grassland with occasional trees, which are currently used for keeping livestock (Panoramic Photograph 5). The south eastern sections of the site form part of two larger fields, which extend off site to the south east (Panoramic Photographs 6 & 8). A hedgerow separates the north eastern site area from the adjacent farm yard (Panoramic Photograph 3) and there are some horse paddocks a little way to the south west of the site (Photograph 5).

Topographic levels on site are, overall, relatively flat and level (Panoramic Photograph 5). There is a very gentle slope up towards the central part of the site (Panoramic Photographs 1, 4 & 8). There is a slightly raised area in the north western part of the site (Photograph 2) that could reflect some historic landscaping. A pond feature is also situated close to the central part of the western site boundary (Photographs 6 & 7). The north western site area has some areas of gently undulating topography (Panoramic Photograph 5) and there are ditches which run parallel to the north eastern and south western site boundaries (Photographs 4 & 8). No water flow was seen at either location at the time of recent walkover. To the east of the site, there is a gradual slope up towards the south east (Panoramic Photograph 7).

An overhead electrical line passes northwards through the central site area (Photograph 3). Two concrete slabs were identified on the ground close to the western fence line (Photograph 1). Some water troughs, with an associated underground plastic pipe, were noted just off site to the north east (Panoramic Photograph 11), but otherwise no other significant features were identified during the walkover survey.

The neighbouring properties to the west of Manifold Drive were observed for evidence of structural damage, that could be associated with underground mining in the area (Photographs 9 to 12). No potential damage that could definitely be related to mining subsidence was noted. One property on Derwent Drive has some cracking above the ground floor window (Photograph 10) and there is an area of undulating block paving on the driveway of another property on Derwent Drive (Photograph 9). Otherwise, no obvious structural or cosmetic damage was noted in the nearby area (Photographs 11 & 12).

Allowing for the observations noted above, no areas of potentially significant ground contamination were seen during this walkover survey.

3 GEO-ENVIRONMENTAL CONSIDERATIONS

3.1 GEOTECHNICAL CONSIDERATIONS

3.1.1 GENERAL FOUNDATION CONSIDERATIONS

From the information available, it would appear that solid strata, primarily Coal Measures mudstone underlie the site. The bedrock strata are likely to be overlain by glacial strata comprising clay till (boulder clay). There is no reason to consider that any extensive thickness of made ground would be present.

The natural glacial or weathered bedrock are likely to be suitable to support conventional spread or trench fill foundations. There is likely to be a shallow water table at the site as evidenced by the presence of ponds and drainage ditches and some water control may be required during foundation construction.

3.1.2 COAL MINING RISK ASSESSMENT

3.1.2.1 SOURCES OF INFORMATION

Sources of information consulted for the present study included the following:

- Coal Authority Report
- Historical Ordnance Survey Mapping, discussed above
- Geological Mapping published by the British Geological Survey
- The Geology of the Country around Ashbourne and Cheadle. Memoir of the Geological Survey, 1989.
- The Geology of the North Staffordshire Coalfields. Memoirs of the Geological Survey. 1905.
- Chester, H A. 2002. The History of the Cheadle Coalfield Staffordshire. 2nd Ed. Landmark Publishing Ltd.
- Online mapping published by the Coal Authority
- Existing and proposed development layouts

3.1.2.2 KNOWN AND POTENTIAL HAZARDS

There are no records of mining in any coal seams below the site. However the Woodhead Coal is expected to be present at possibly less than 30 m depth. The Woodhead Coal was perhaps the most widely worked in the Cheadle area but it is reported that at Rakeway Colliery:

"At fifty-five yards deep the coal was said to be useless and engine and plant were up for sale by February, 1872." (Chester op. cit.)

The 1905 Geological Memoir notes concerning the Woodhead Coal:

'About Cheadle Mill and Rakeway to the south-east of Cheadle, the coal deteriorates, and is apparently not worth working'

It is unlikely therefore that the Woodhead Coal was mined locally. The Woodhead Coal is typically about 0.9 m thick and so where present below the site would be at a depth of at least 29 times the seam thickness. Based on local experience the thickness of drift cover at the site is unlikely to exceed about 5 m.

Although a thin coal (Rider Coal) is sometimes present some 30 m above the Woodhead Coal, it is not mapped as being present in the local area and, in any case, was never worked by underground mining except occasionally at outcrop.

There are no coal seams of potential economic interest at shallow depth below the Woodhead Coal.

There is no record of mine entries within 20 m of the site. Given the reported poor quality of the Woodhead Coal in the area the potential for unrecorded mine entries is considered to be low.

There is no evidence of damage due to geological faults or other lines of weakness that have been affected by coal mining in the area.

Although there is a possibility of unrecorded workings being present, the probability is considered low and any such workings would be at depths in excess of 25 m. Mudstones and siltstones are expected to overly any workings as well as some drift cover of glacial clay till. Given the anticipated presence of a shallow water table any unrecorded workings would be flooded and the overlying cohesive soils and rocks would be effectively impermeable to gas advective flow. Accordingly mine gas can be discounted as a potentially significant hazard at the site.

3.1.2.3 ASSOCIATED RISKS AND POTENTIAL MITIGATION MEASURES

There are no known underground mineral workings at shallow depth and depths to seams of potential economic interest are such that any ground movements associated with such workings should have stopped by now. In fact the local poor quality of the Woodhead Coal makes it unlikely that any workings are present below the site.

Given the relatively rare occurrence of collapse of unrecorded mine entries and low potential for unrecorded entries to be present in the area, there is considered to be a very low risk associated with unrecorded mine entries.

Local differential subsidence due to fault or other discontinuity activation by mining would be expected to occur during or shortly after the mining operations. Given the time since any unrecorded workings would have been undertaken below the site, the risk of fault reactivation by subsidence related to past mining is judged to be very low. The potential for new deep mining in this area is considered to be very low.

As noted above, mine gas can be discounted as a significant hazard at the site and accordingly the future risks associated with mine gas are considered to be very low.

Based on a consideration of the anticipated depths, thicknesses and potential age of workings associated with the main mineral seams below the site, the following presents a summary of assessed risks related to the mining legacy:

Hazard	Potential Consequence	Resultant Risk of Future Surface Ground Movements/Gas Emissions Sufficient to Cause Damage or of Explosion or Significant Risk to Site Users
Unrecorded mine workings in the Woodhead Coal or deeper seams.	Void migration or collapse of old workings	Very Low
Damage due to fault re-activation	Differential surface subsidence	Very Low
Unrecorded Mine Entries	Shaft collapse	Very Low
Mine Gas	Emissions to structures	Very Low

Based on this assessment, no mitigation measures are considered warranted with respect to mining-legacy issues..

3.2 ENVIRONMENTAL CONSIDERATIONS

3.2.1 OVERVIEW

3.2.1.1 GROUND CONTAMINATION

The site history has shown no potentially highly contaminative land uses. The site has been in agricultural use without significant built development throughout its recorded history.

There is no reason to consider that any significant thickness of potentially contaminated made ground would be present on site.

There are no nearby off-site land uses that have been identified that could potentially be associated with significant ground contamination on site.

3.2.1.2 GROUND GAS

Searches have revealed no evidence of any nearby landfill areas and there is no reason to expect that any extensive thicknesses of putrescible made ground are present on site.

The site is not in an area where radon protection measures would be required.

3.2.2 CONCEPTUAL MODEL OF POTENTIAL POLLUTION LINKAGES

3.2.2.1 GENERAL

Current practice with regard to contaminated land is based on development of a conceptual model of potential pollution linkages. This recognises that for any significant risk to be present there must be a 'source' of contamination, such as elevated levels of toxic substances in the ground, a 'receptor', such as a site user and a 'pathway' whereby the receptor could be exposed to the source to a degree that there is a significant risk of potential harm.

3.2.2.2 SOURCES

Based on the above discussion, the risk of significant widespread sources of ground contamination being present on site is considered to be very low. In particular the site area has seen no built development and use appears to have been restricted to agricultural.

No potential sources of significant ground gas emissions have been identified. The site is not in a radon-affected area

3.2.2.3 RECEPTORS

Potential receptors with respect to any ground contamination that may be present include site users and the wider environment. The proposed residential usage would be relatively sensitive to risks associated with ground contamination and ground gas. Construction workers could be exposed to site soils on a short term basis.

With regard to the wider environment, the bedrock and superficial strata below the site area are designated as Secondary Aquifers. There are no licensed groundwater abstractions within a credible influencing distance of the site. The nearest continuous watercourse is some 170 m to the north although there are closer ponds and ditches. The site location would not be considered highly sensitive in relation to controlled waters.

3.2.2.4 PATHWAYS

Site users could potentially be exposed to ground contamination through direct contact with soil, dust and vapour inhalation or dust ingestion. As private gardens are proposed, ingestion of soil attached to vegetables and of vegetables that might have taken up some contamination from the ground are also potentially viable pathways.

With regard to controlled waters, leachable contaminants, if present in the near surface soils, could potentially migrate down to the groundwater table and migrate in the dissolved phase until discharge to the surface water.

Ground gas could potentially enter structures through cracks or joints in floor slabs if emission rates were sufficiently high but the anticipated saturated clay till and predominantly mudstone bedrock would be effectively impermeable to lateral advective gas flow in the ground from any off-site sources.

3.2.2.5 VIABLE POLLUTION LINKAGES AND PRELIMINARY RISK ASSESSMENT

In view of the likely absence of significant sources of ground contamination, there is considered to be a very low risk associated with exposure of site users to soil and soil dust, vapour or via home grown vegetables.

In view of the likely absence of sources of significant leachable contamination on site, there is considered to be a very low risk to controlled waters.

Given the likely absence of significant sources of ground bio-gas emissions, real risks associated with bio-gas gas are also judged to be very low.

3.3 REQUIREMENTS FOR INTRUSIVE INVESTIGATION

It is recommended that an intrusive ground investigation should be carried out prior to final design and re-development of the site to allow detailed design of foundations, site drainage etc. area.

It is considered very low risks associated with potential ground contamination could be handled by means of an appropriate discovery strategy. Unless visual or olfactory evidence of potential land contamination is noted during the geotechnical investigation or subsequent development, it is not considered that any other specific intrusive investigation is warranted with respect to land contamination or ground gas.

3.4 DISCOVERY STRATEGY

Based on the site characterisation works undertaken to date and recommended intrusive investigation, the existence of unidentified significant historical soil contamination is considered to be unlikely.

However, should any unexpected contamination be encountered during geotechnical investigation or development, the following measures should be undertaken by a suitably qualified person or company:

- Appropriate sampling and laboratory analysis of potentially contaminated materials to assess the severity and scale of any suspected contamination.
- Comparison of the results against appropriate site assessment criteria for the land use.
- Liaison with the Planning Authority to agree appropriate investigation or remediation method statement to address any identified potentially unacceptable risks.
- Implementation and verification of any agreed investigation or remedial works.

4 CONCLUSIONS

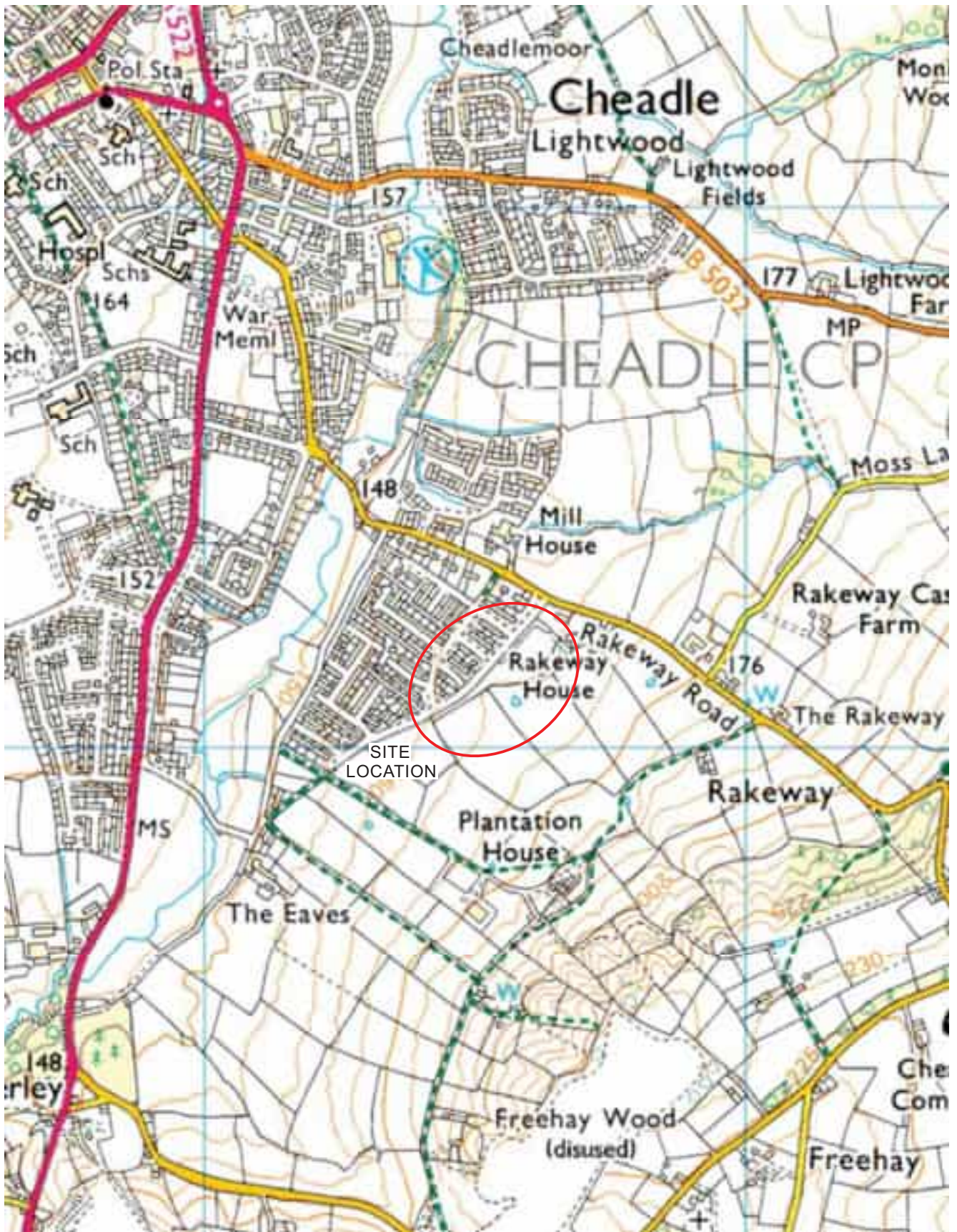
Natural ground conditions beneath the proposed development area are likely to comprise predominantly mudstone bedrock overlain by glacial strata comprising clay till. Some intrusive investigation is recommended with respect to final foundation design.

No special precautions are considered warranted with respect to mining-legacy issues.

Risks associated with potential ground contamination and ground gas are considered to be very low and could be managed by an appropriate discovery strategy being in place during geotechnical investigation and subsequent development.

The present study has shown no reason why the site could not be safely developed for residential use.

FIGURES



Reproduced from the Ordnance Survey map
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SITE LOCATION PLAN

**SLADEN
ASSOCIATES**

Report No
22-2506

Project
Site at Manifold Drive
Cheadle
Staffordshire

Figure
1



Not to scale

SITE LAYOUT PLAN WITH PHOTOGRAPH LOCATIONS

KEY

P1 → Photograph

PAN 1 → Panoramic Photograph



PROPOSED SITE LAYOUT PLAN

**SLADEN
ASSOCIATES**

Report No
22-2506

Project
Site at Manifold Drive, Cheadle, Staffordshire

Figure
3

APPENDIX A HISTORICAL MAPS

Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1880-1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

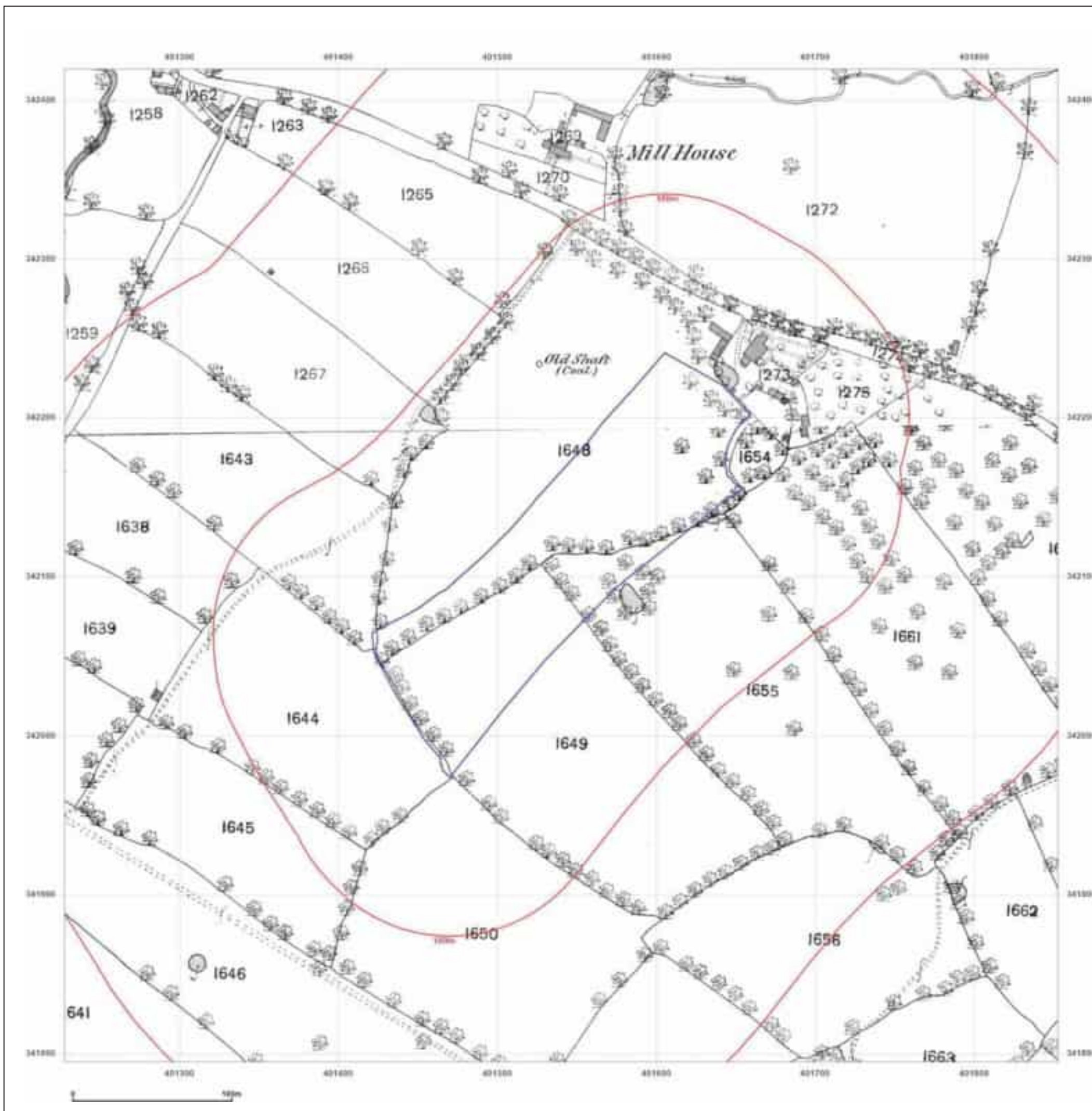


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1899-1900

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1899
Edition N/A
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Surveyed 1900
Revised 1900
Edition N/A
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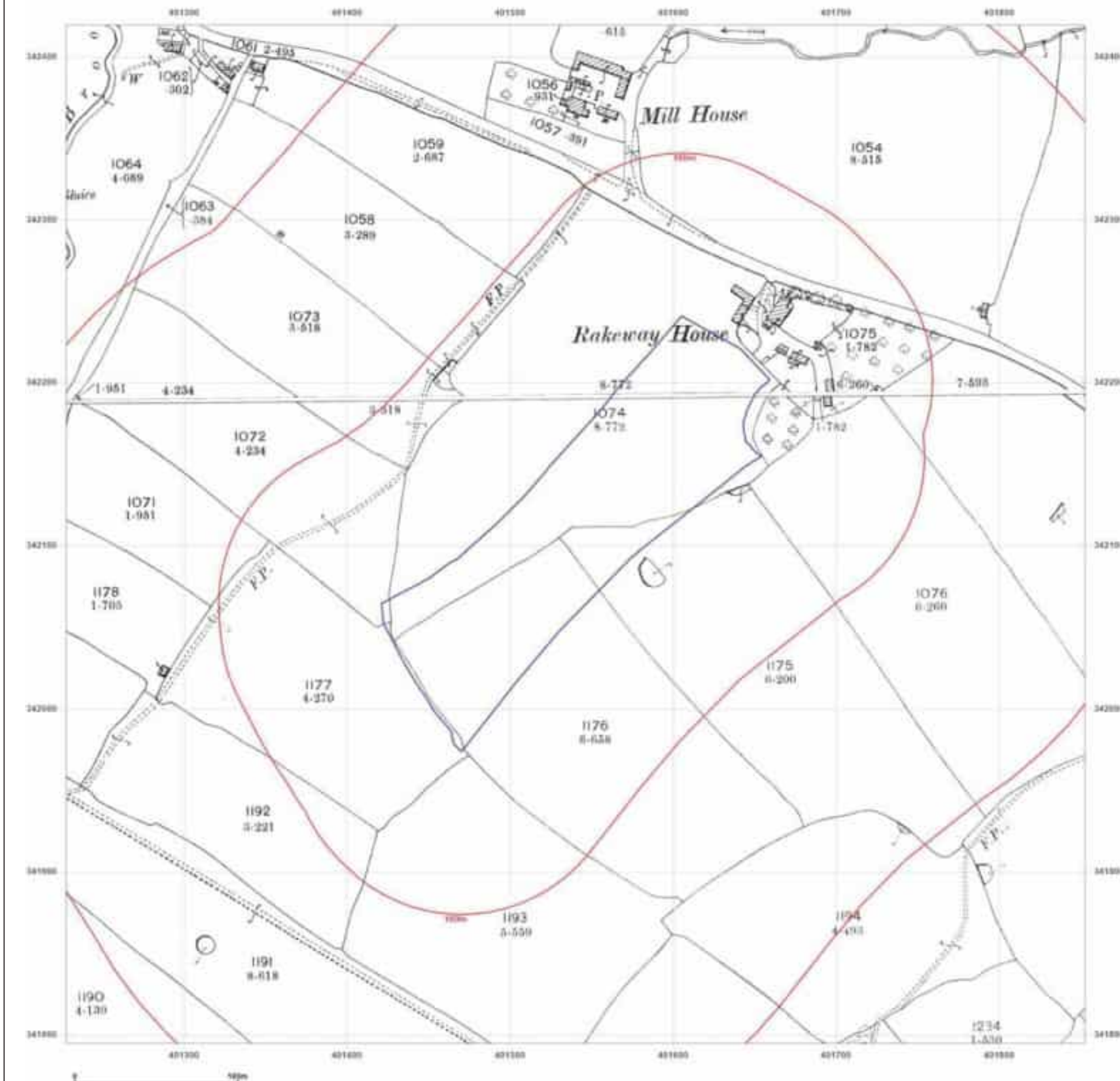


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1924

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1924
Edition N/A
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Edition N/A
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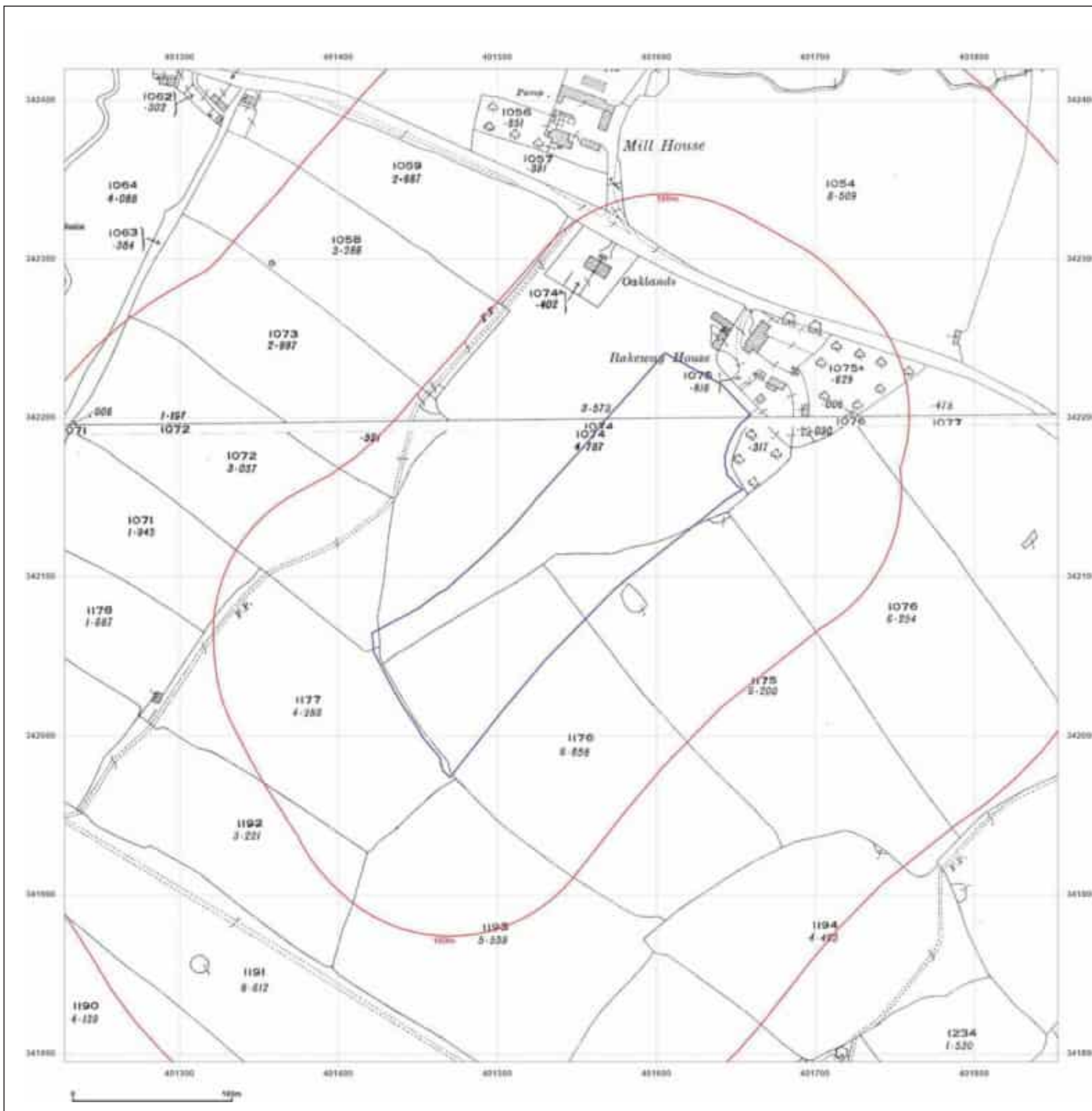


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937.
Edition N/A
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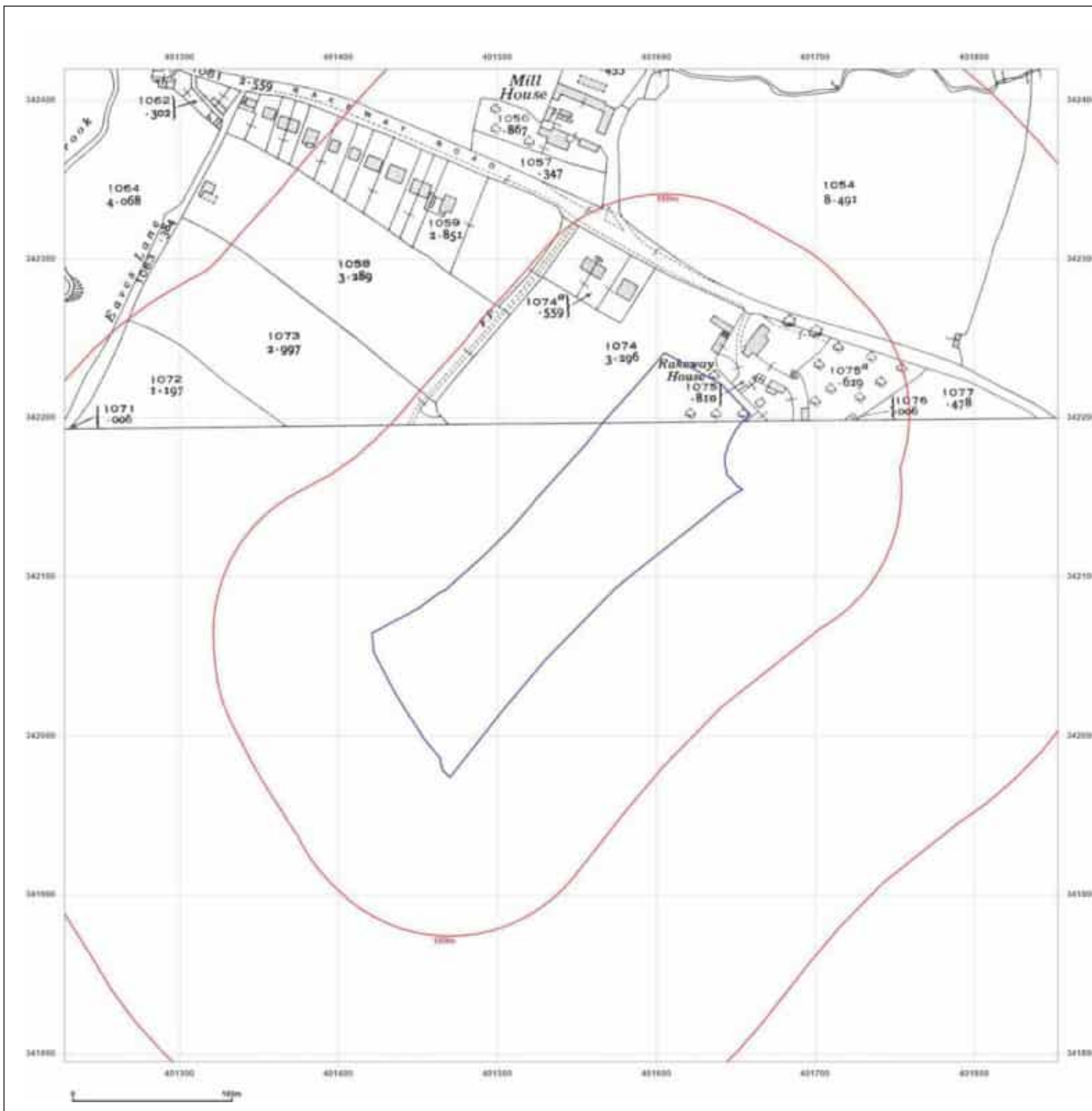


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1956
Edition N/A
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Surveyed 1956
Revised 1956
Edition N/A
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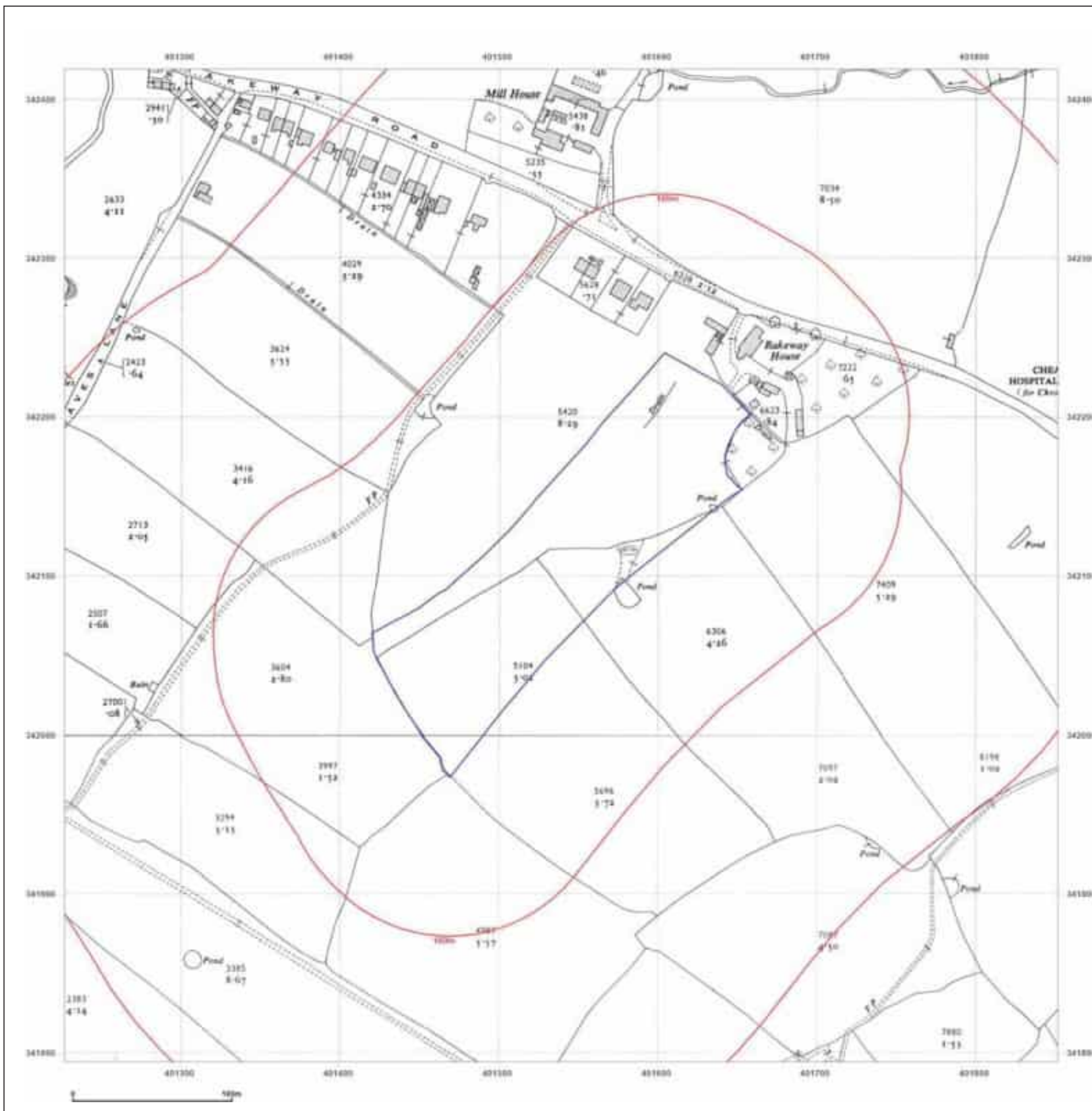


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

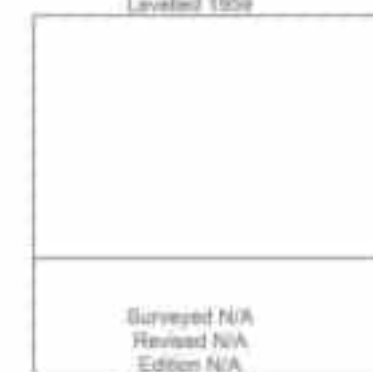
Map date: 1974-1976

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1975
Edition N/A
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Levelled 1959



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

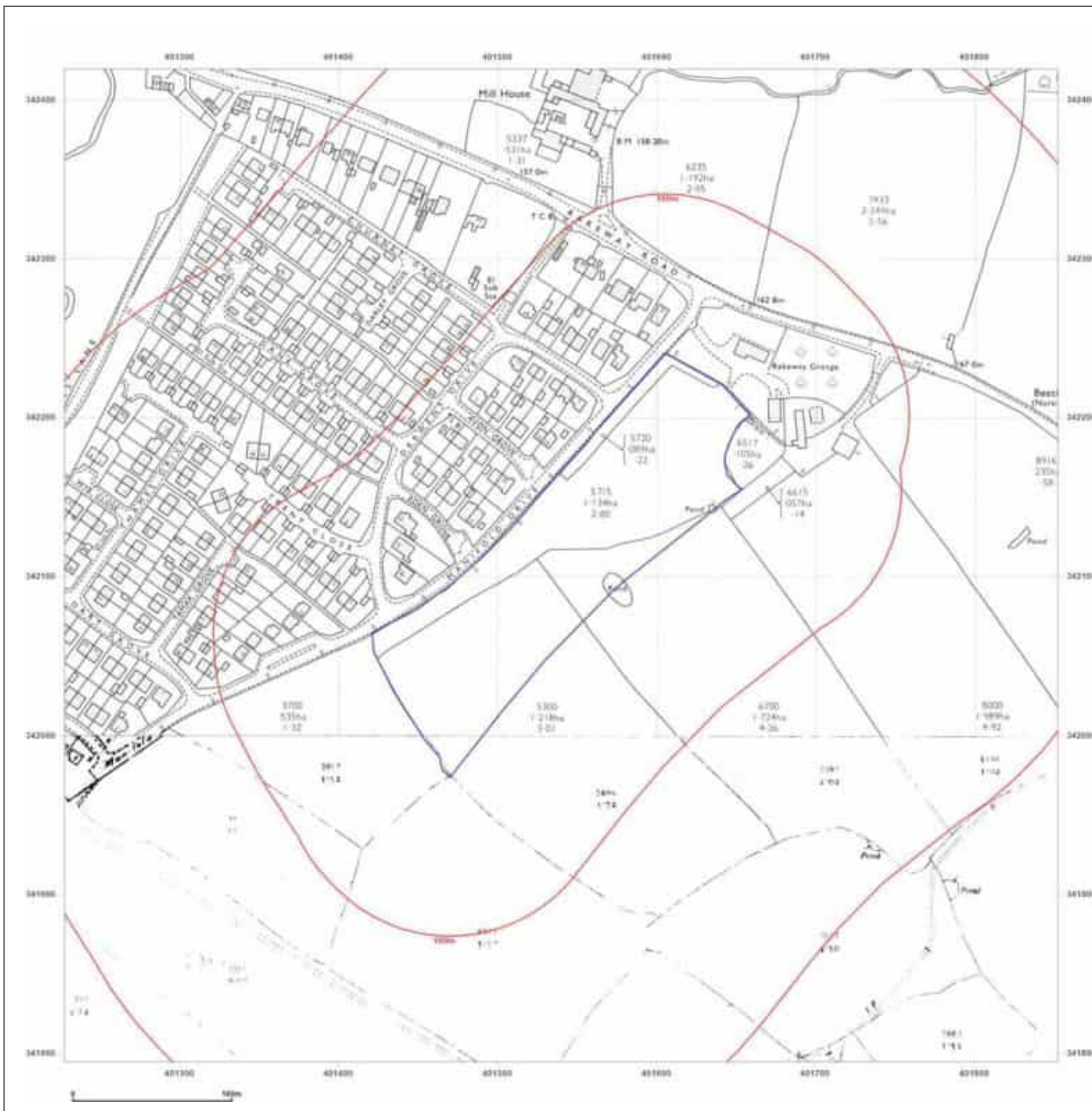


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1976

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1975
Revised 1975
Edition N/A
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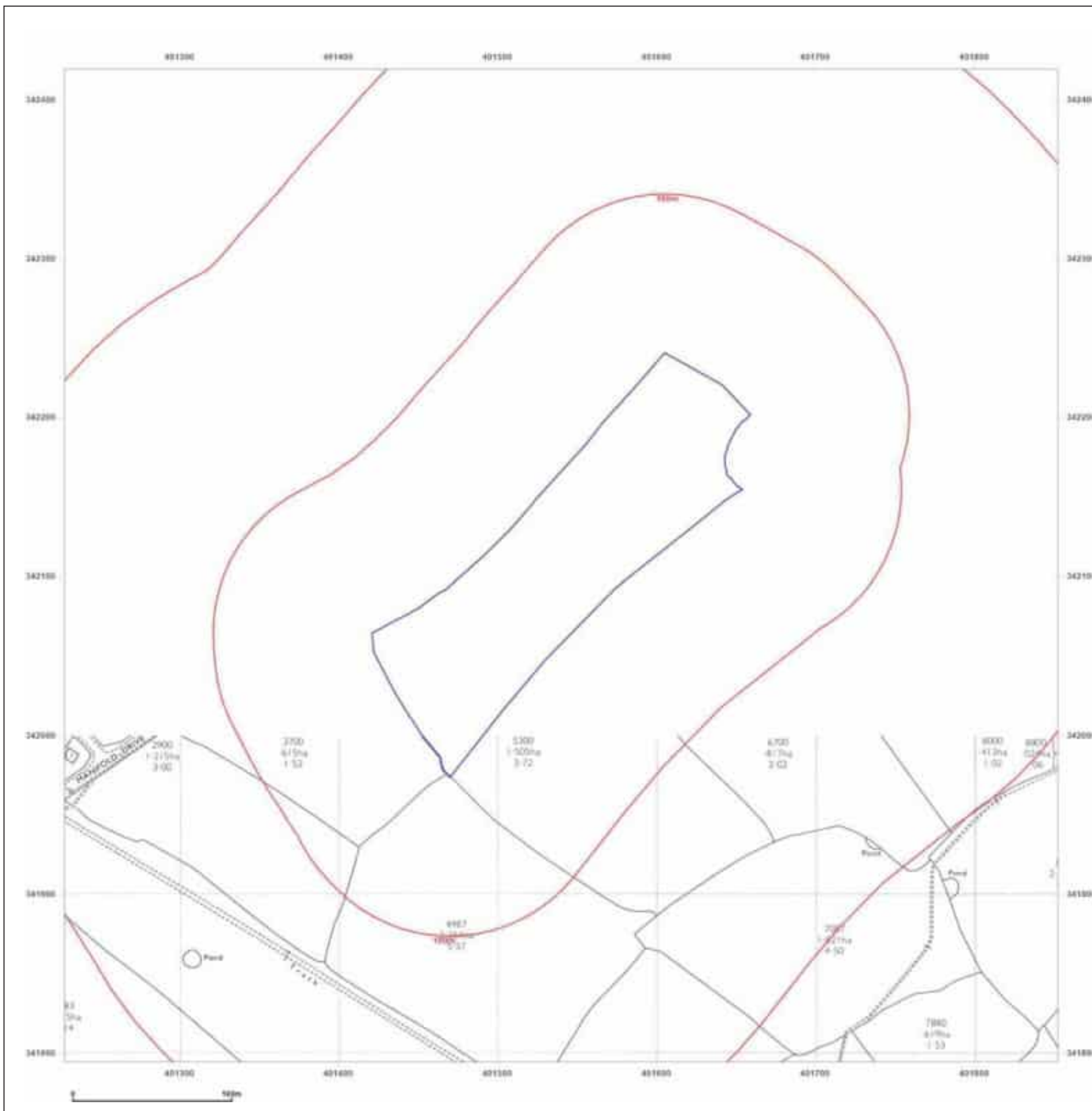


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

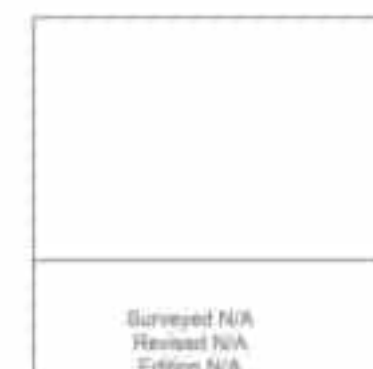
Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1976

Scale: 1:2,500

Printed at: 1:2,500



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

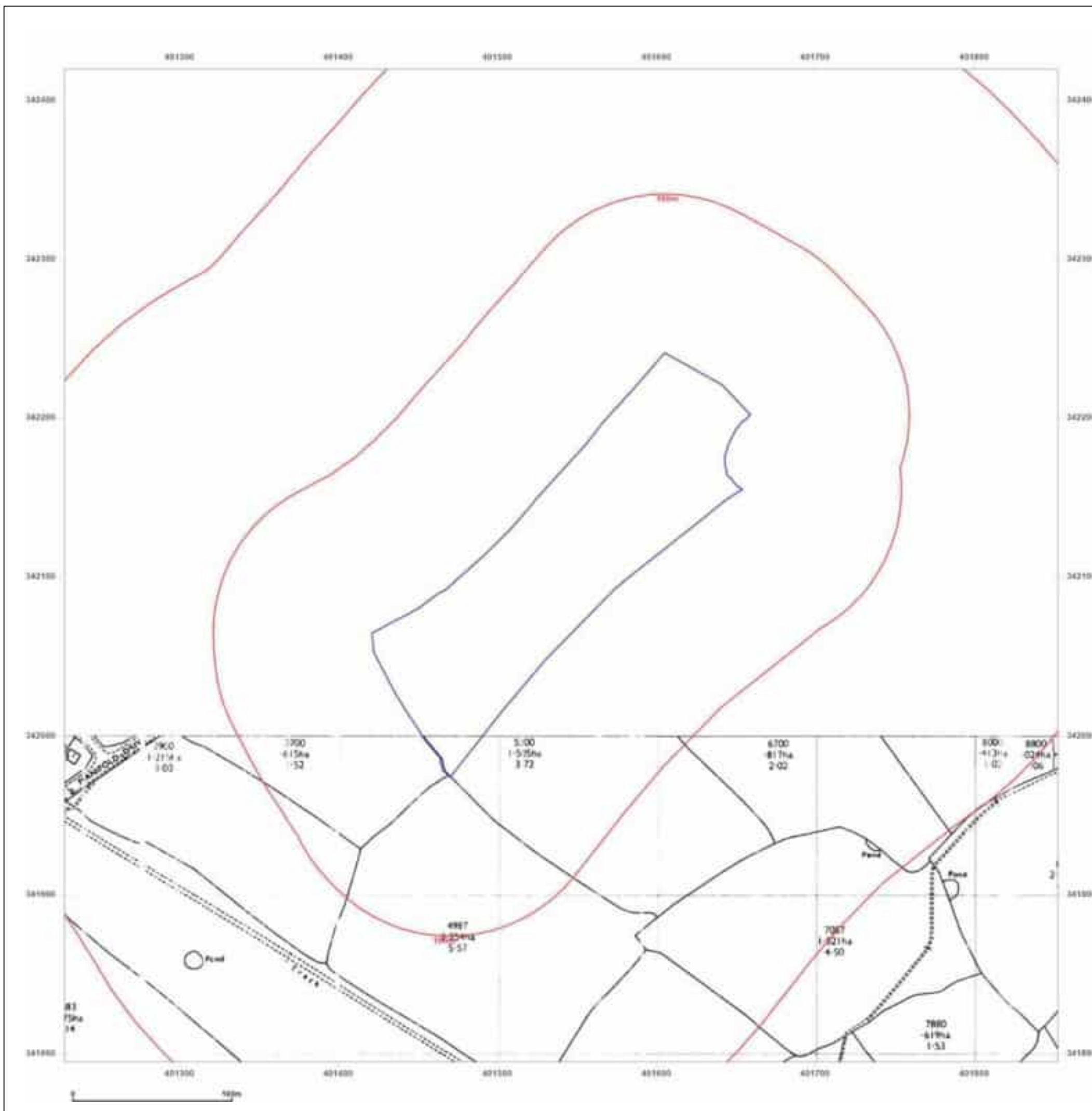


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Site Details:

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Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

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Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1989-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1989
Edition N/A
Copyright 1989
Levelled 1959



Surveyed 1984
Revised N/A
Edition N/A
Copyright 1984
Levelled N/A

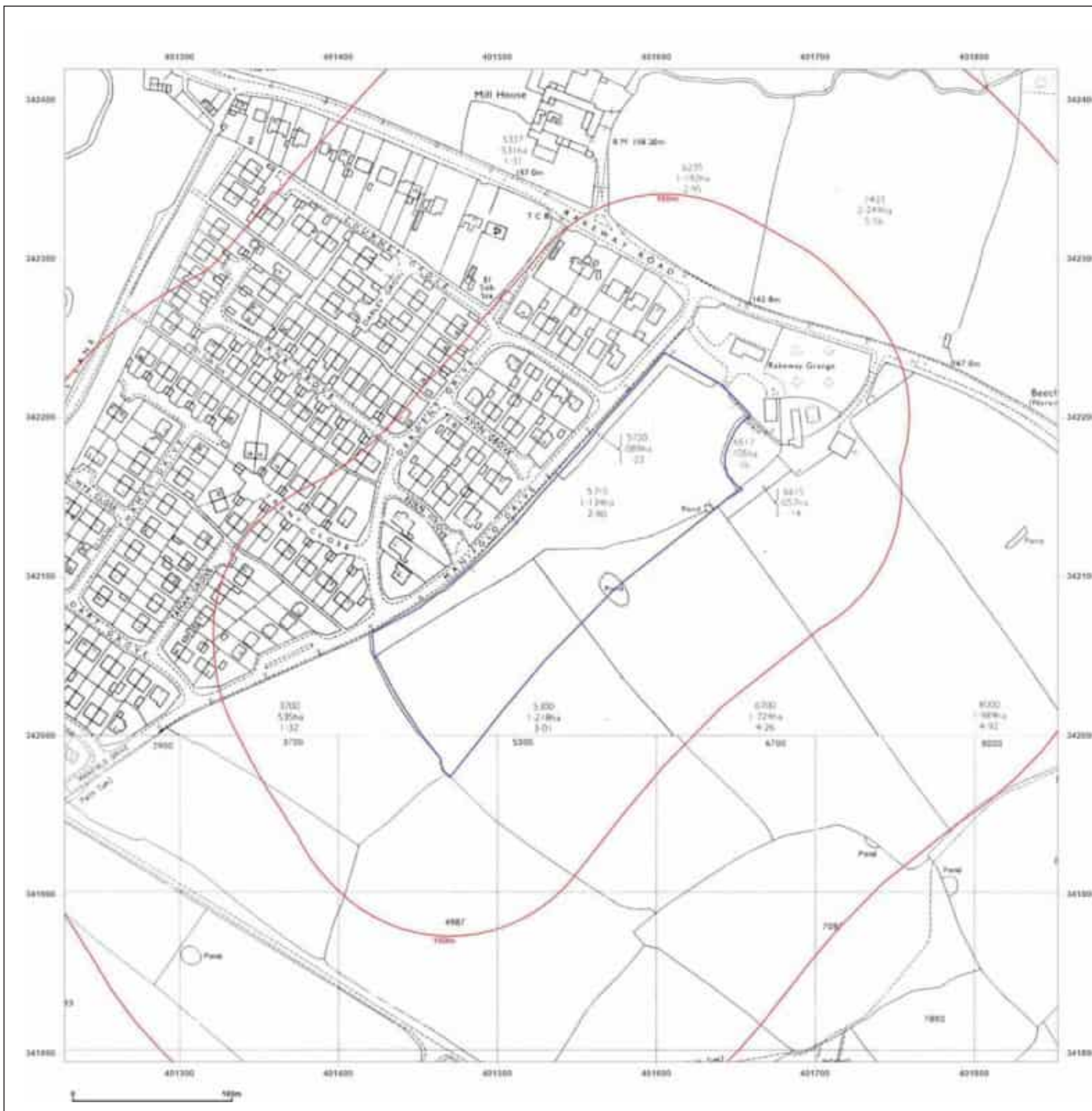


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

SITE AT MANIFOLD DRIVE,
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Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1995

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Editted N/A
Copyright 1995
Levelled N/A

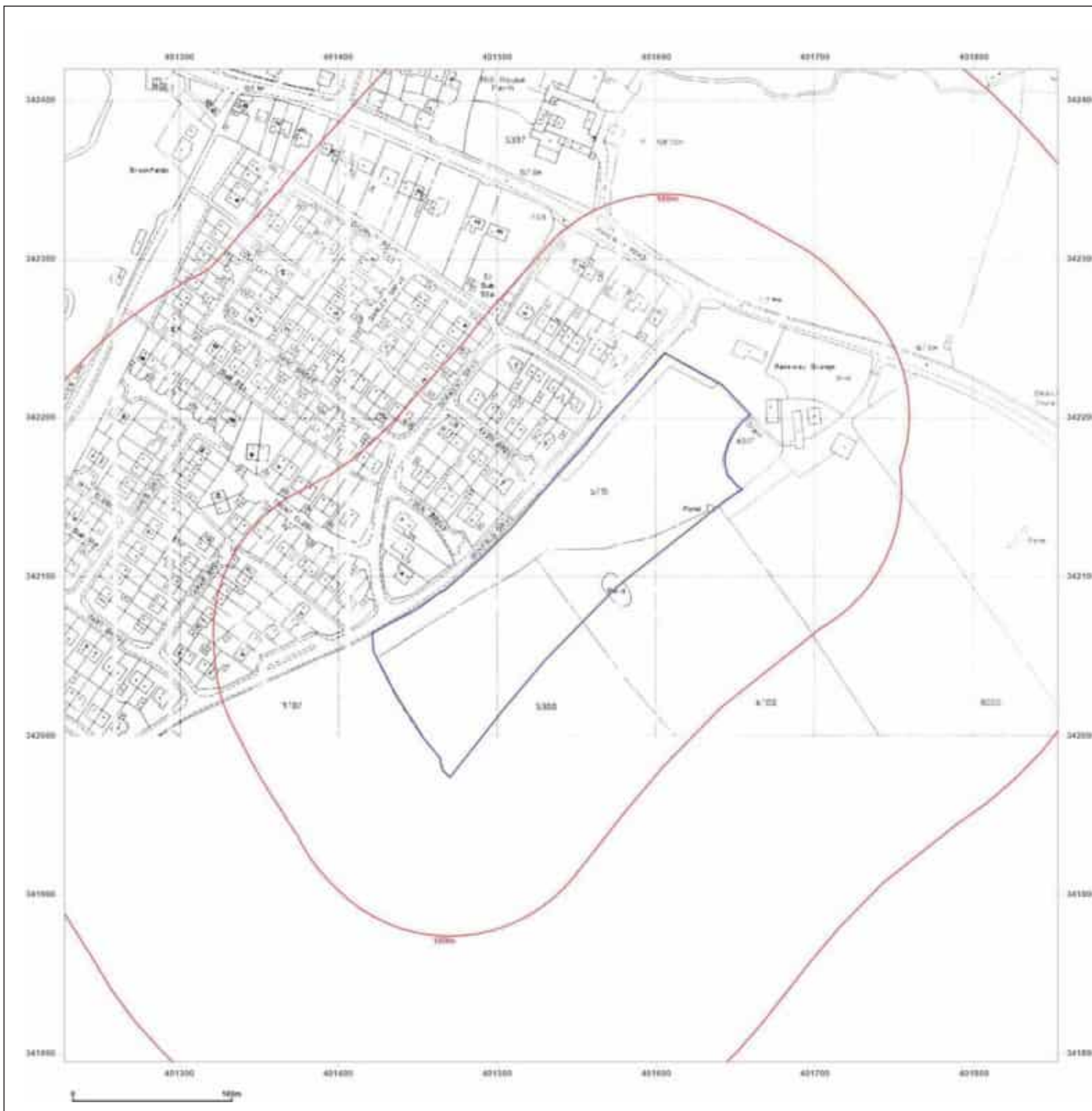


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

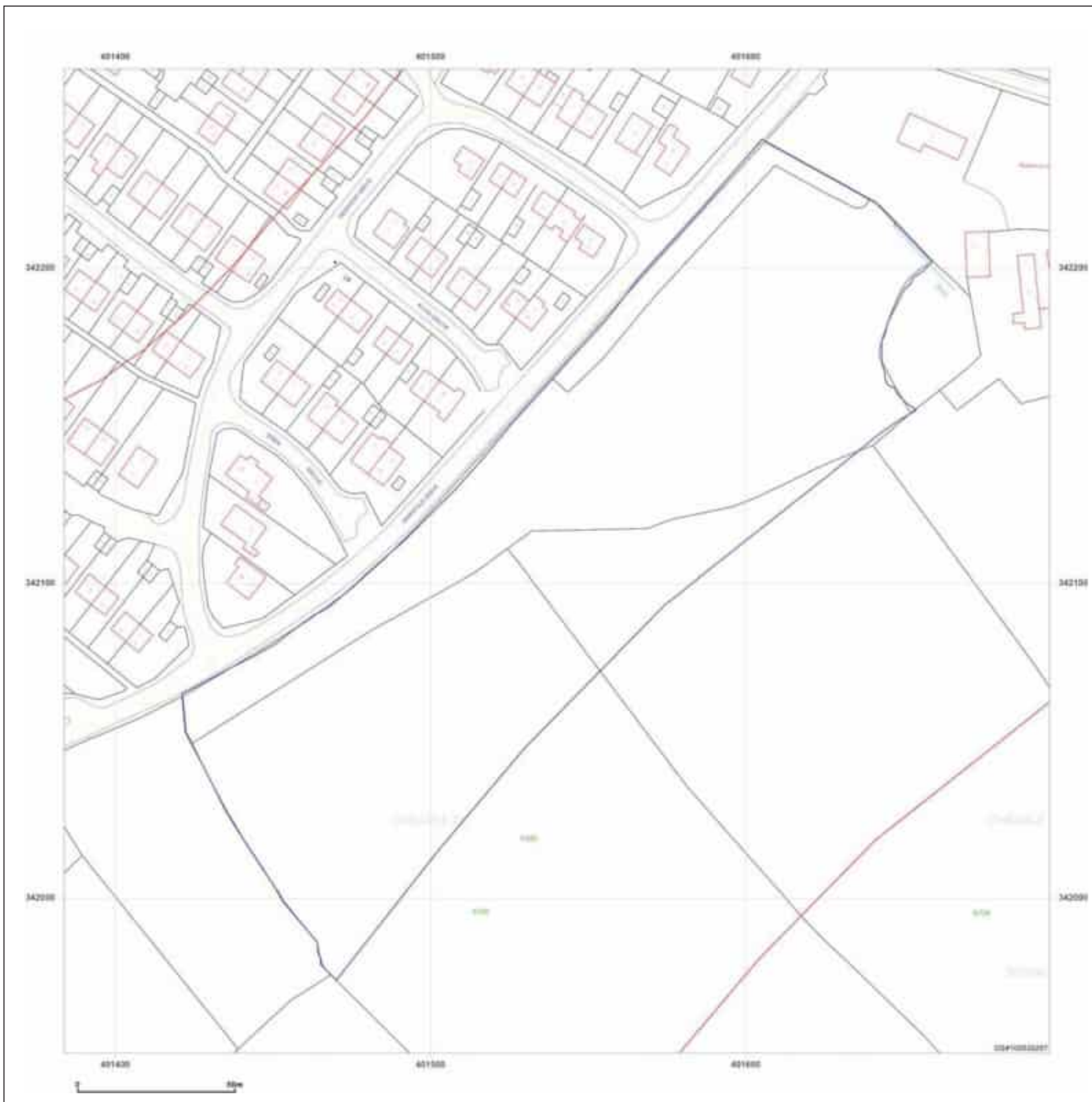


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1879-1880

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

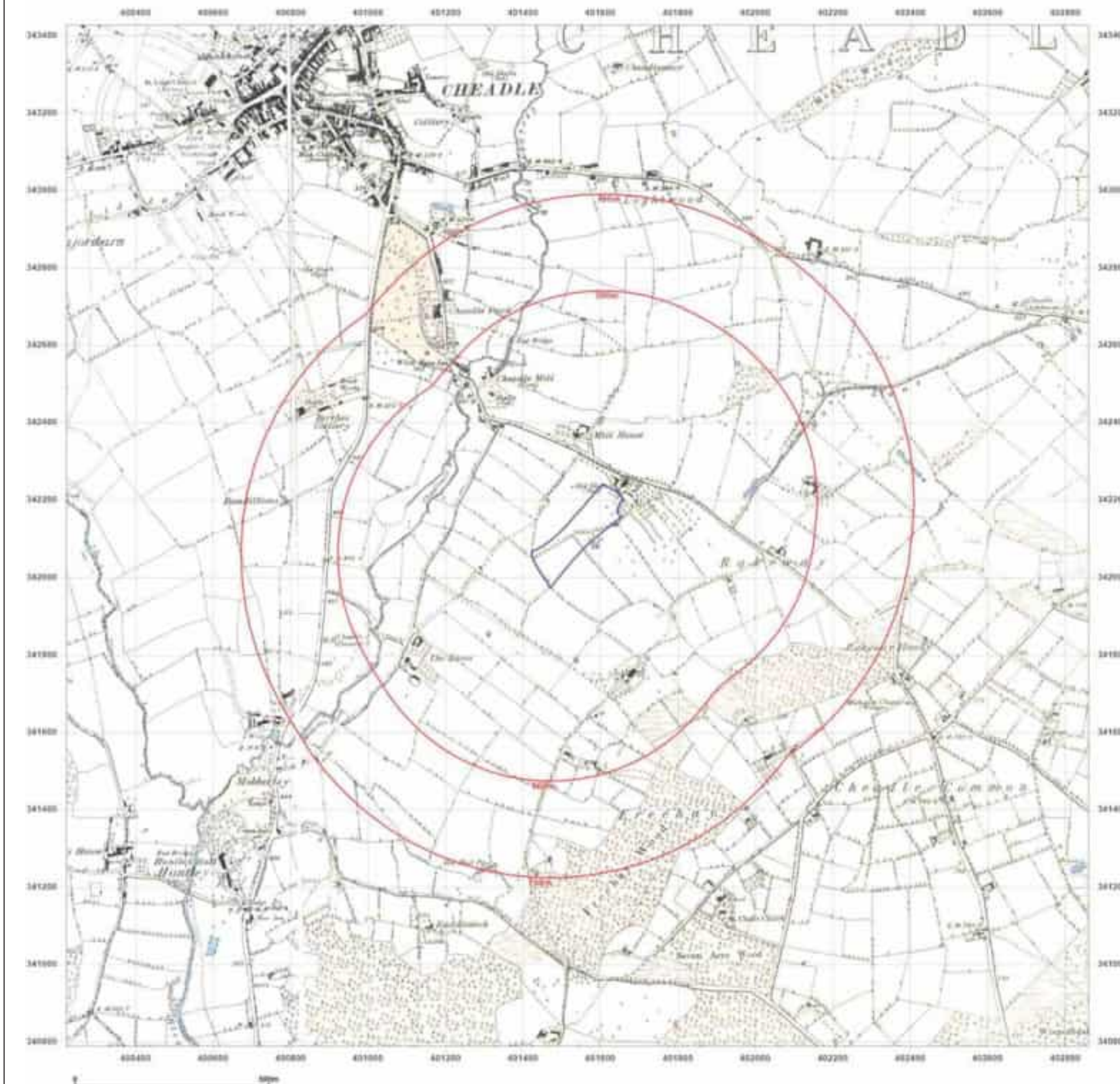


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1888

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

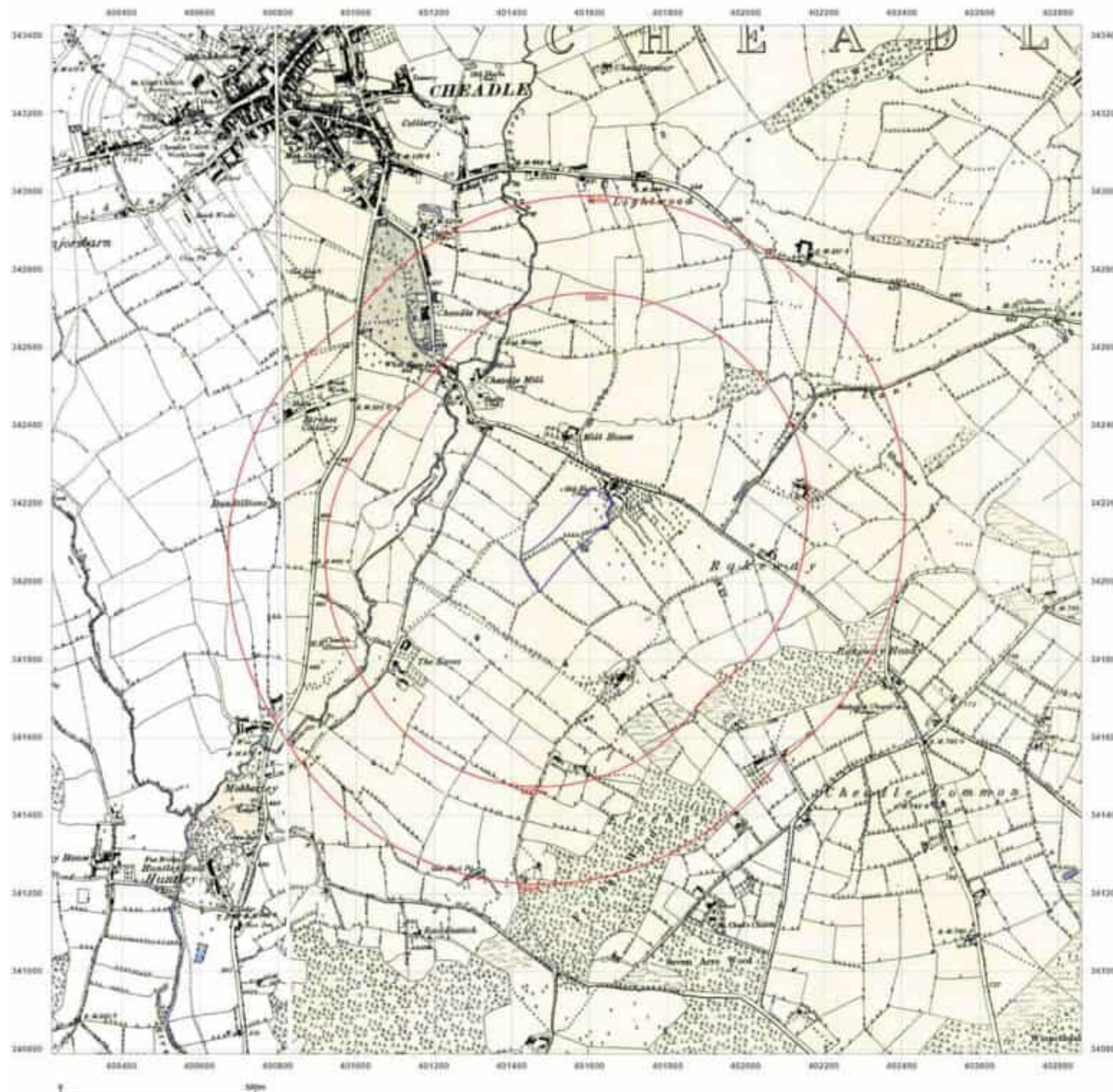


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Production date: 07 September 2022

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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

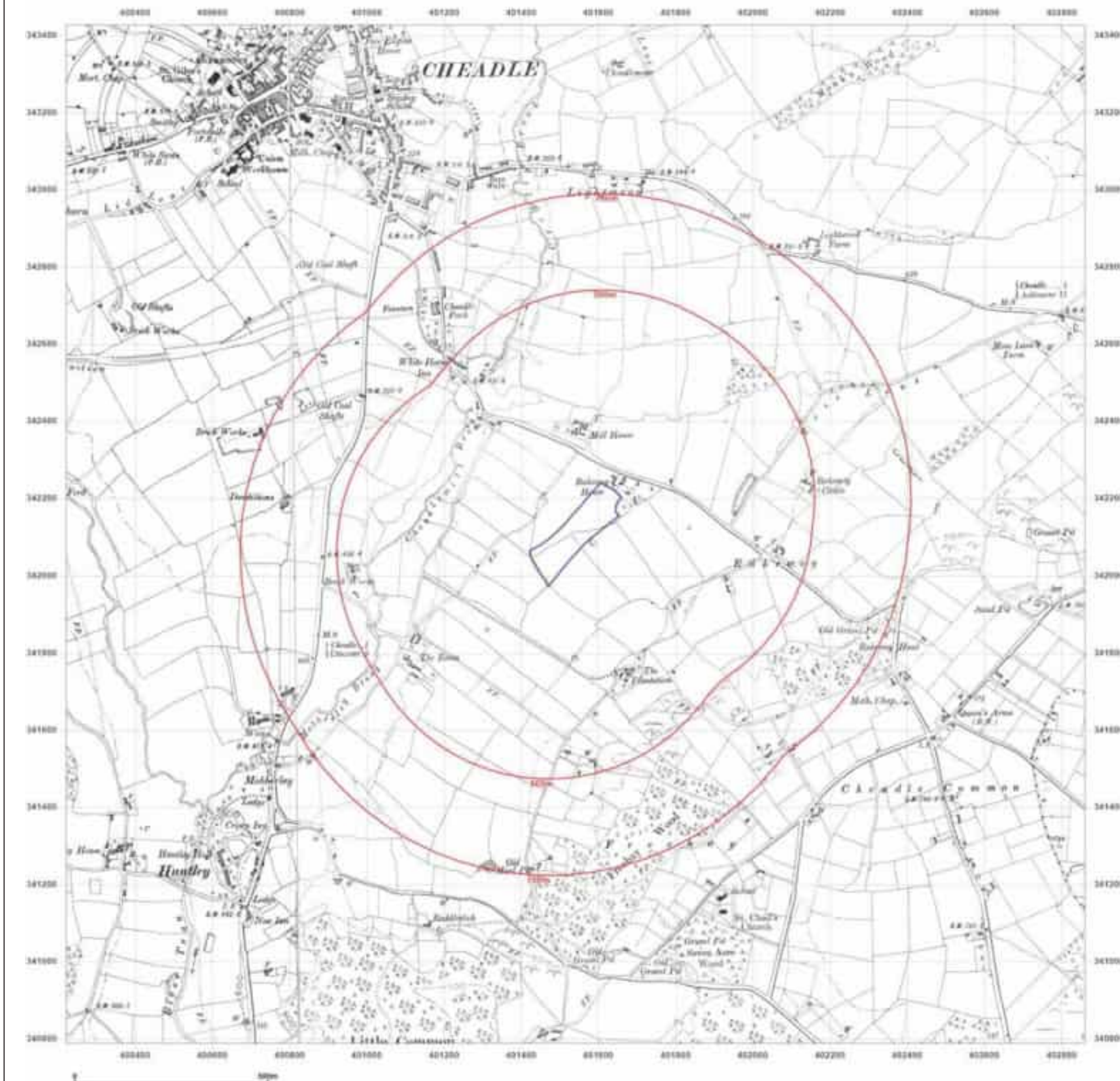


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: County Series

Map date: 1922-1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1878
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1925
Edition N/A
Copyright N/A
Levelled N/A

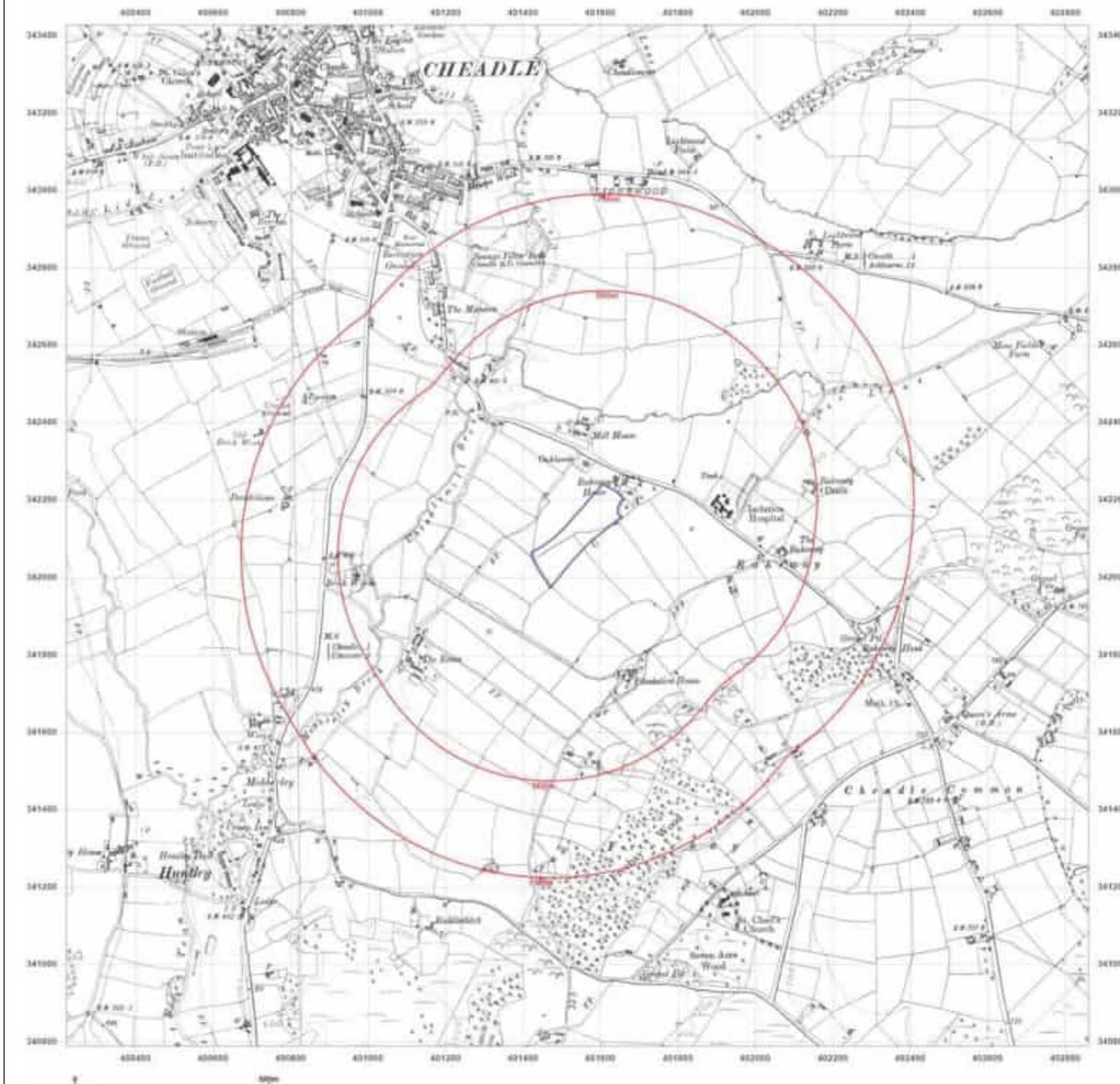


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Production date: 07 September 2022

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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: Provisional

Map date: 1954

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A

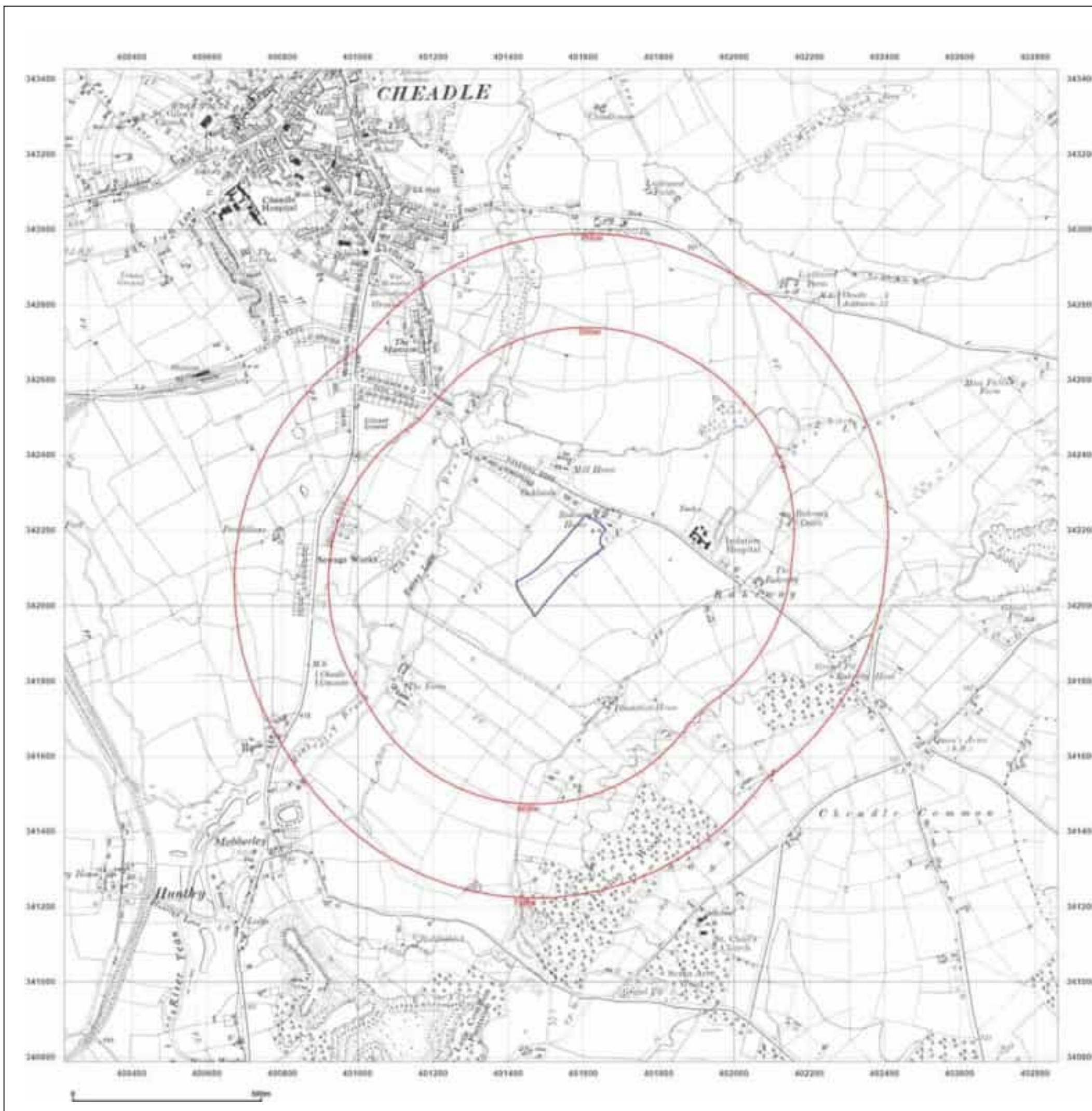


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 1976

Scale: 1:10,000

Printed at: 1:10,000

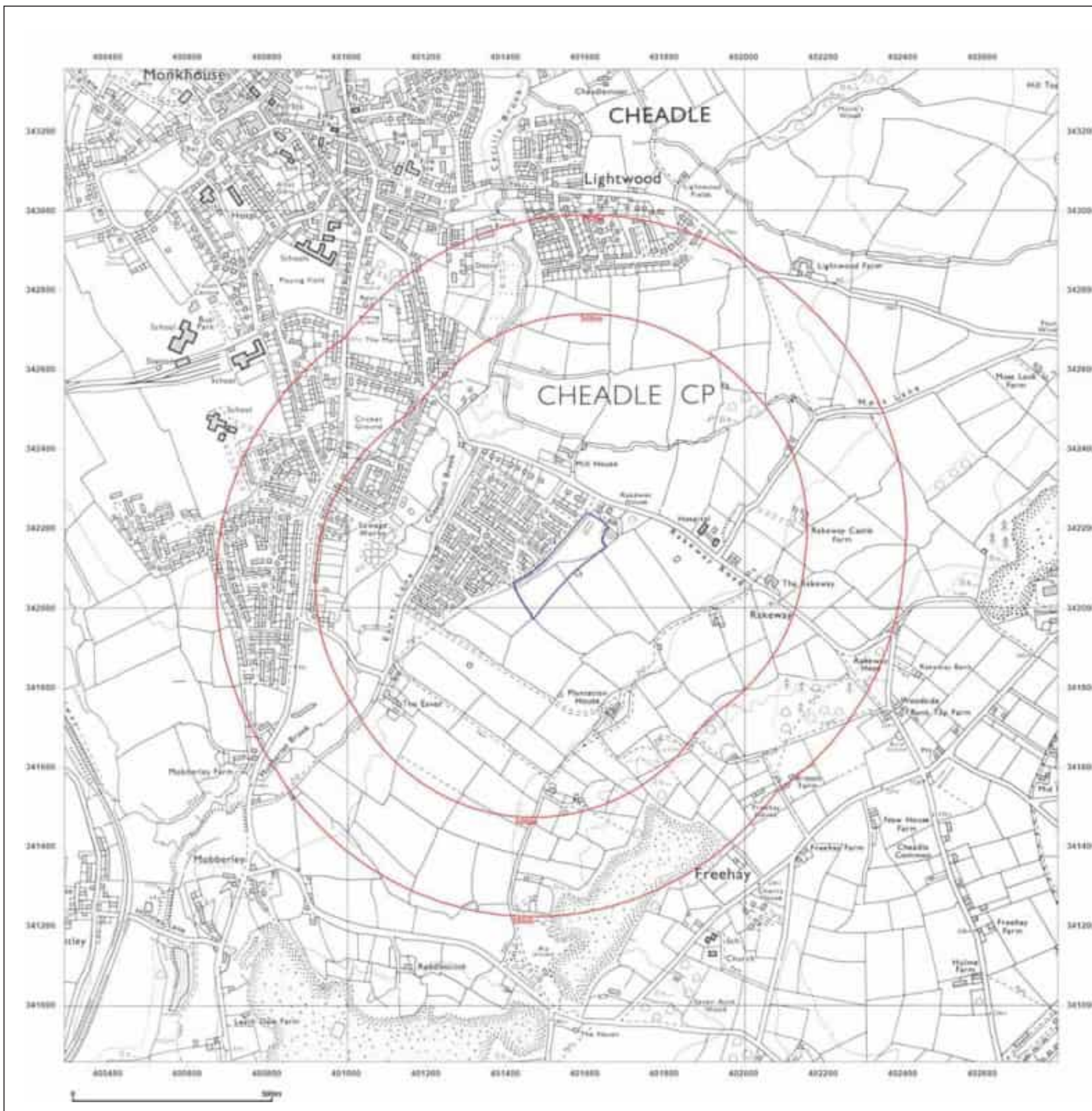


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Production date: 07 September 2022

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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

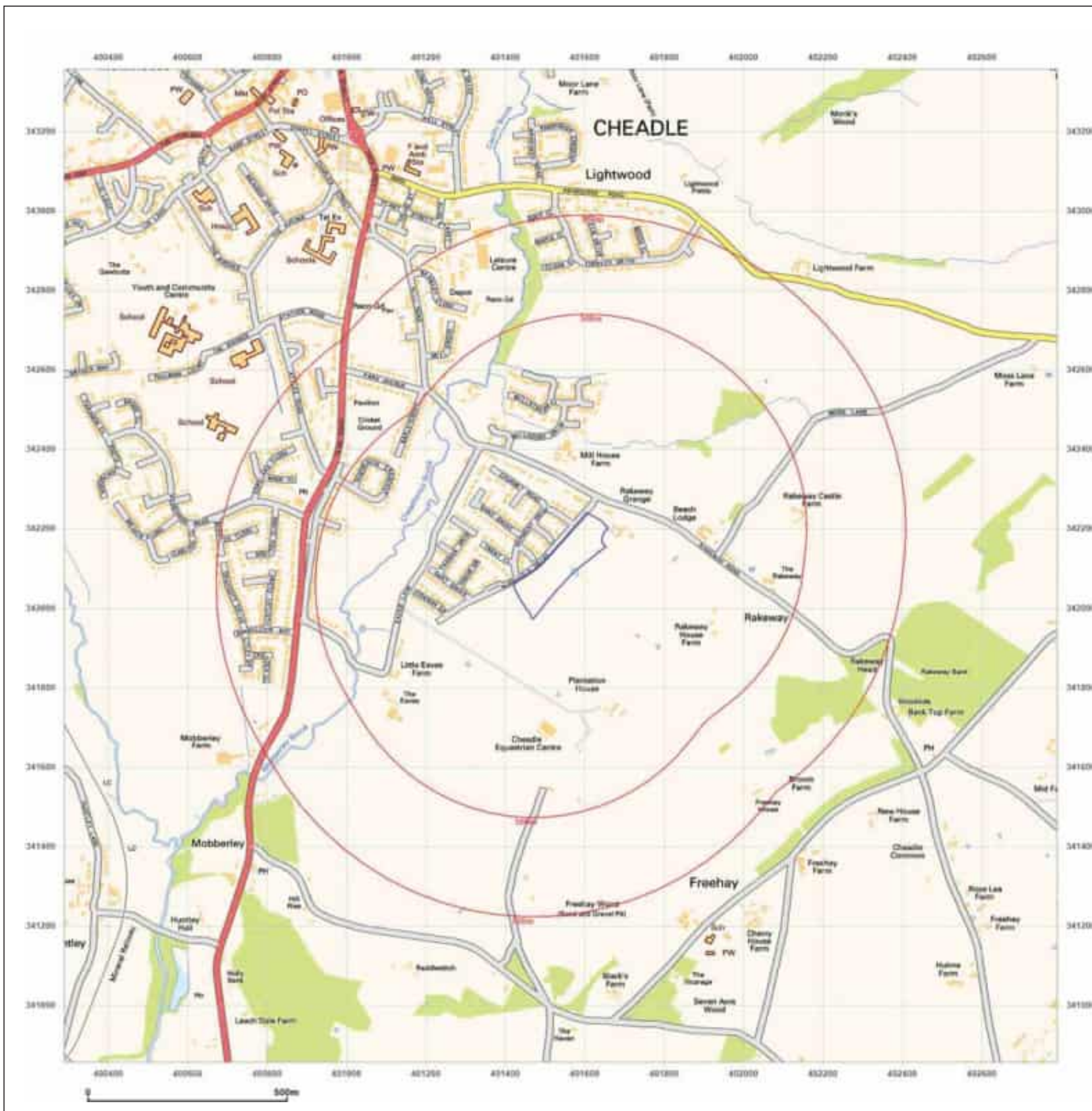


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

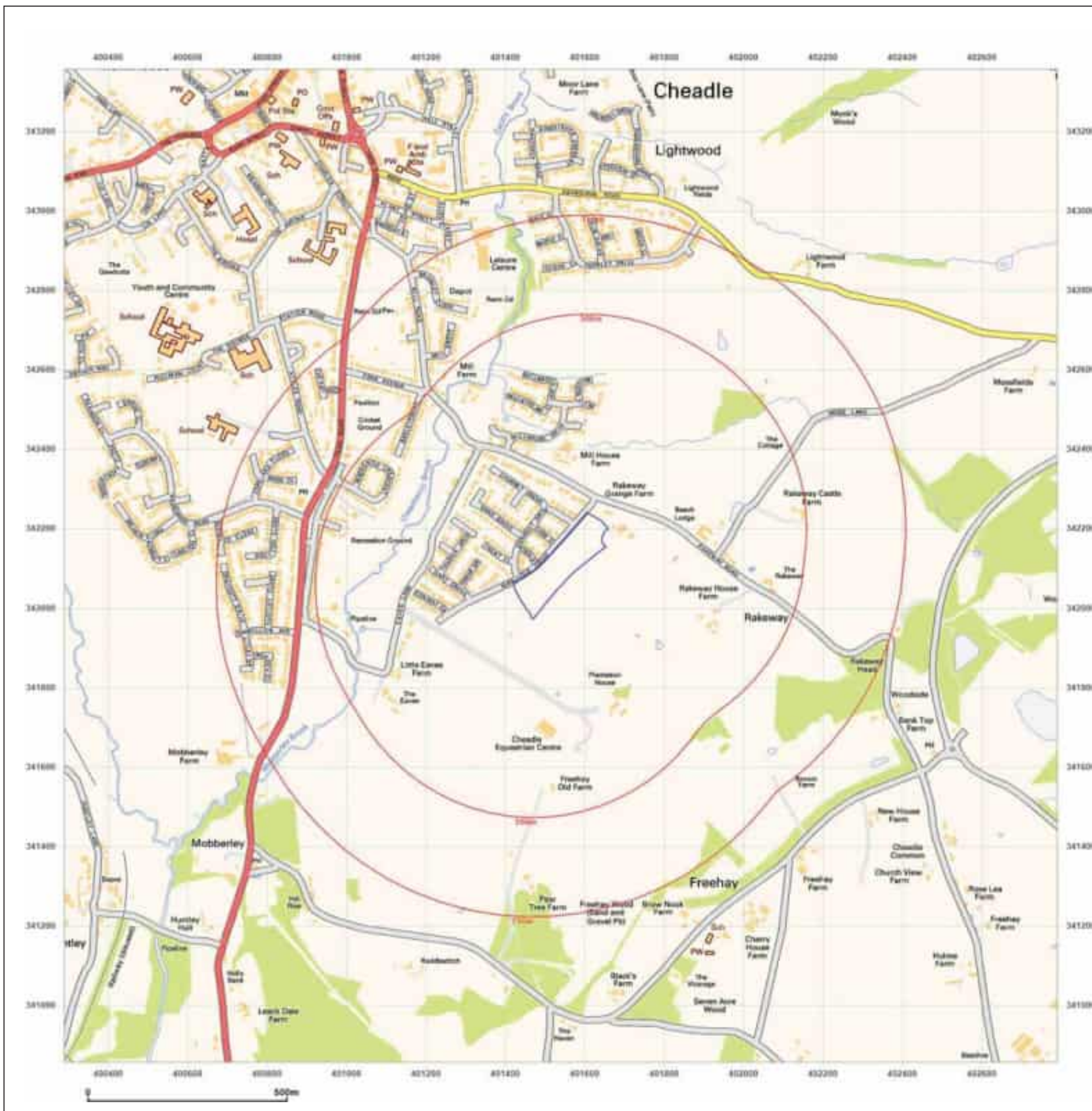


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Site Details:

SITE AT MANIFOLD DRIVE,
CHEADLE, ST10 1QX

Client Ref: 22-2506
Report Ref: SA1-9036007
Grid Ref: 401540, 342107

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

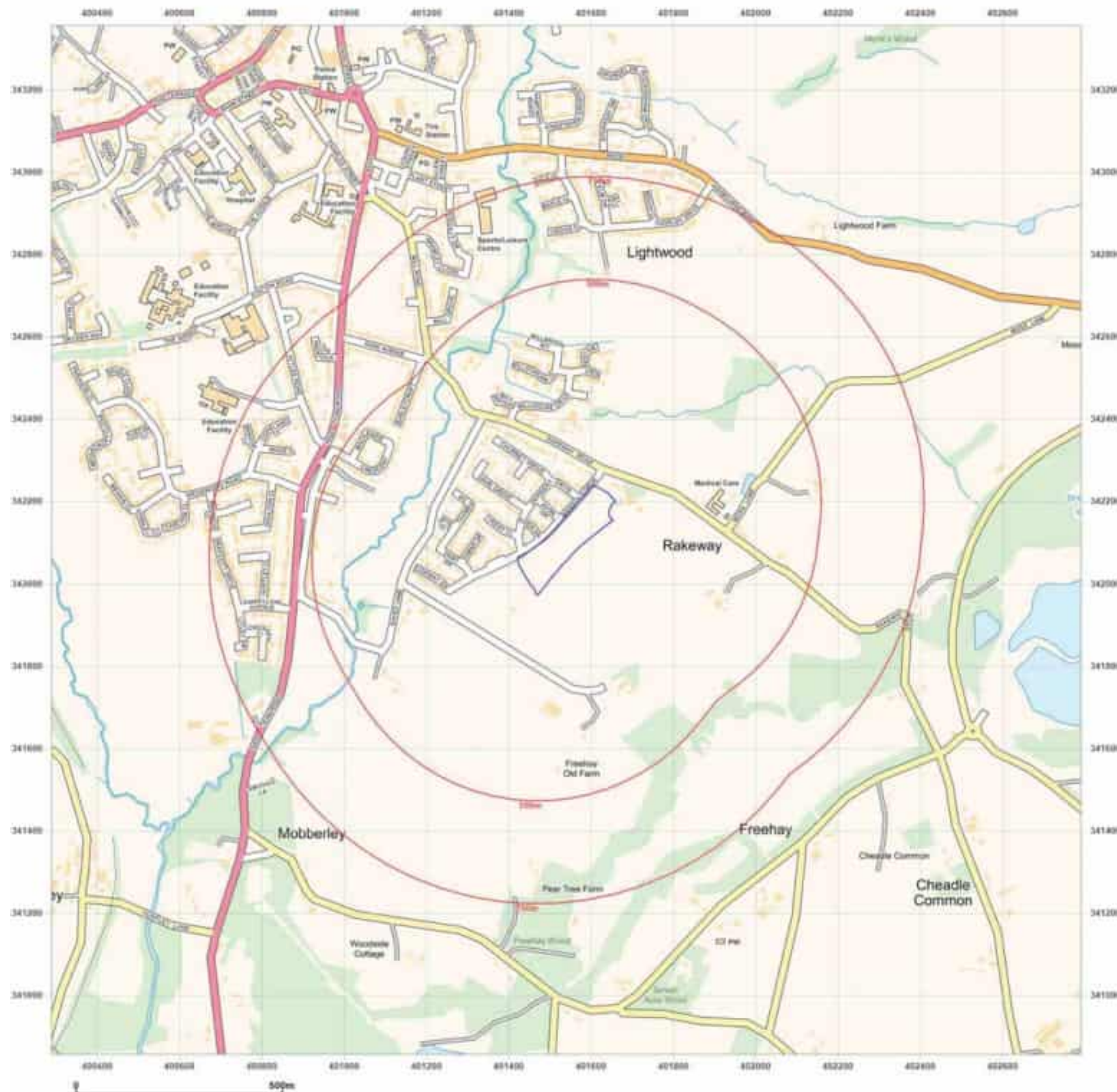


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APPENDIX B
FACTUAL INFORMATION CONCERNING NEARBY LAND
USE

SITE AT MANIFOLD DRIVE, CHEADLE, ST10 1QX

Order Details

Date: 07/09/2022
Your ref: 22-2506
Our Ref: SA1-9036008

Site Details

Location: 401540 342113
Area: 2.26 ha
Authority: [Staffordshire Moorlands District Council](#)



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Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

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Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	0	4	17	-
15	1.2	<u>Historical tanks</u>	0	0	0	4	-
16	1.3	<u>Historical energy features</u>	0	0	5	2	-
16	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	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
18	2.1	<u>Historical industrial land uses</u>	0	0	5	22	-
20	2.2	<u>Historical tanks</u>	0	0	0	4	-
20	2.3	<u>Historical energy features</u>	0	0	18	5	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
23	3.7	<u>Waste exemptions</u>	0	0	0	38	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	<u>Recent industrial land uses</u>	0	1	4	-	-
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	-
29	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	-
30	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
31	4.12	Radioactive Substance Authorisations	0	0	0	0	-
31	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	5	-
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	-
33	4.17	List 2 Dangerous Substances	0	0	0	0	-
33	4.18	<u>Pollution Incidents (EA/NRW)</u>	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	-
34	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
35	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
37	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
39	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41	5.6	<u>Groundwater abstractions</u>	0	0	0	0	3
42	5.7	<u>Surface water abstractions</u>	0	0	0	0	6
44	5.8	<u>Potable abstractions</u>	0	0	0	0	3
45	5.9	<u>Source Protection Zones</u>	0	0	0	1	-
45	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
46	6.1	<u>Water Network (OS MasterMap)</u>	2	0	3	-	-



47	6.2	<u>Surface water features</u>	1	0	3	-	-
47	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
48	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
48	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
50	7.2	<u>Historical Flood Events</u>	0	0	2	-	-
50	7.3	Flood Defences	0	0	0	-	-
50	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	7.5	Flood Storage Areas	0	0	0	-	-
52	7.6	Flood Zone 2	None (within 50m)				
52	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
53	8.1	<u>Surface water flooding</u>	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
55	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
56	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
57	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
57	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
57	10.4	Special Protection Areas (SPA)	0	0	0	0	0
57	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	1	3
58	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	4
59	10.8	Biosphere Reserves	0	0	0	0	0
59	10.9	Forest Parks	0	0	0	0	0
59	10.10	Marine Conservation Zones	0	0	0	0	0
59	10.11	<u>Green Belt</u>	0	0	0	0	1
60	10.12	Proposed Ramsar sites	0	0	0	0	0



60	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
60	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
62	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
63	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
64	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	<u>Listed Buildings</u>	0	0	1	-	-
66	11.5	Conservation Areas	0	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
67	12.1	<u>Agricultural Land Classification</u>	Grade 4 (within 250m)				
68	12.2	Open Access Land	0	0	0	-	-
68	12.3	Tree Felling Licences	0	0	0	-	-
68	12.4	Environmental Stewardship Schemes	0	0	0	-	-
69	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
70	13.1	<u>Priority Habitat Inventory</u>	0	1	0	-	-
71	13.2	<u>Habitat Networks</u>	0	0	1	-	-
71	13.3	Open Mosaic Habitat	0	0	0	-	-
71	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
72	14.1	<u>10k Availability</u>	Identified (within 500m)				
73	14.2	Artificial and made ground (10k)	0	0	0	0	-
74	14.3	Superficial geology (10k)	0	0	0	0	-



74	14.4	Landslip (10k)	0	0	0	0	-
75	14.5	Bedrock geology (10k)	0	0	0	0	-
75	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
76	15.1	<u>50k Availability</u>	Identified (within 500m)				
77	15.2	Artificial and made ground (50k)	0	0	0	0	-
77	15.3	Artificial ground permeability (50k)	0	0	-	-	-
78	15.4	<u>Superficial geology (50k)</u>	1	0	0	3	-
79	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
79	15.6	Landslip (50k)	0	0	0	0	-
79	15.7	Landslip permeability (50k)	None (within 50m)				
80	15.8	<u>Bedrock geology (50k)</u>	1	0	1	3	-
81	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
81	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	5	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
82	16.1	<u>BGS Boreholes</u>	0	0	3	-	-
Page	Section	Natural ground subsidence					
84	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
85	17.2	<u>Running sands</u>	Very low (within 50m)				
86	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
87	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
88	17.5	<u>Landslides</u>	Very low (within 50m)				
89	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
90	18.1	Natural cavities	0	0	0	0	-
91	18.2	<u>BritPits</u>	0	0	0	1	-
91	18.3	Surface ground workings	0	0	0	-	-
91	18.4	<u>Underground workings</u>	0	0	1	2	10
92	18.5	<u>Historical Mineral Planning Areas</u>	0	0	0	1	-



92	18.6	<u>Non-coal mining</u>	1	0	0	0	2
93	18.7	Mining cavities	0	0	0	0	0
93	18.8	<u>JPB mining areas</u>	Identified (within 0m)				
94	18.9	<u>Coal mining</u>	Identified (within 0m)				
94	18.10	Brine areas	None (within 0m)				
94	18.11	Gypsum areas	None (within 0m)				
94	18.12	Tin mining	None (within 0m)				
94	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
95	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
96	20.1	<u>BGS Estimated Background Soil Chemistry</u>	3	1	-	-	-
96	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
96	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
97	21.1	Underground railways (London)	0	0	0	-	-
97	21.2	Underground railways (Non-London)	0	0	0	-	-
97	21.3	Railway tunnels	0	0	0	-	-
97	21.4	Historical railway and tunnel features	0	0	0	-	-
97	21.5	Royal Mail tunnels	0	0	0	-	-
98	21.6	Historical railways	0	0	0	-	-
98	21.7	Railways	0	0	0	-	-
98	21.8	Crossrail 1	0	0	0	0	-
98	21.9	Crossrail 2	0	0	0	0	-
98	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 05/06/2021

Site Area: 2.26ha



Recent site history - 2018 aerial photograph



Capture Date: 30/06/2018

Site Area: 2.26ha



Recent site history - 2011 aerial photograph



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Capture Date: 28/09/2011

Site Area: 2.26ha



Recent site history - 2006 aerial photograph



Capture Date: 18/07/2006

Site Area: 2.26ha



Recent site history - 1999 aerial photograph



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Capture Date: 01/09/1999

Site Area: 2.26ha



OS MasterMap site plan



Site Area: 2.26ha

1 Past land use



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- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

21

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 14**

ID	Location	Land use	Dates present	Group ID
A	52m NW	Old Coal Shaft	1880	1563924



ID	Location	Land use	Dates present	Group ID
B	202m E	Isolation Hospital	1954 - 1974	1742216
B	206m E	Isolation Hospital	1925	1671053
C	247m E	Unspecified Tank	1954	1592646
C	252m E	Unspecified Tank	1925	1592645
B	283m E	Unspecified Pit	1954	1636849
B	283m E	Unspecified Pit	1974	1723604
B	286m E	Unspecified Pit	1898 - 1925	1670731
D	300m NW	Sewage Works	1954 - 1974	1717431
D	317m W	Sewage Tanks	1954 - 1974	1682069
E	322m NW	Refuse Heap	1880	1596018
E	358m NW	Coal Shafts	1880	1560180
E	364m NW	Coal Shafts	1880	1560179
E	398m NW	Corn Mill	1880	1590140
G	415m W	Brick Works	1898 - 1925	1644033
G	441m W	Unspecified Pit	1898	1688135
G	441m W	Unspecified Pit	1925	1624840
G	451m W	Unspecified Pit	1954	1621205
G	455m W	Unspecified Tank	1898 - 1925	1633754
7	456m W	Unspecified Tank	1898	1592641
8	484m NW	Unspecified Heap	1974	1567866

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

4

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 ungrouped 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 14**



ID	Location	Land use	Dates present	Group ID
C	257m E	Unspecified Tank	1924	252595
4	307m NW	Settling Tank	1956	259306
5	319m W	Tanks	1975	260070
6	389m W	Unspecified Tank	1956	252578

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

7

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 ungrouped 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 14**

ID	Location	Land use	Dates present	Group ID
A	93m NW	Electricity Substation	1975 - 1989	156079
A	115m NW	Electricity Substation	1995 - 1999	156505
1	183m W	Electricity Substation	1975 - 1999	164373
2	209m NW	Electricity Substation	1975 - 1999	156256
3	213m N	Electricity Substation	1995 - 1999	158835
F	408m NW	Electricity Substation	1975 - 1999	156980
F	411m NW	Electricity Substation	1989	166674

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 ungrouped 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

0

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

27

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 18**

ID	Location	Land Use	Date	Group ID
A	52m NW	Old Coal Shaft	1880	1563924
C	202m E	Isolation Hospital	1974	1742216
C	202m E	Isolation Hospital	1954	1742216



ID	Location	Land Use	Date	Group ID
C	206m E	Isolation Hospital	1925	1671053
F	247m E	Unspecified Tank	1954	1592646
F	252m E	Unspecified Tank	1925	1592645
C	283m E	Unspecified Pit	1974	1723604
C	283m E	Unspecified Pit	1954	1636849
C	286m E	Unspecified Pit	1925	1670731
C	286m E	Unspecified Pit	1898	1670731
G	300m NW	Sewage Works	1974	1717431
G	300m NW	Sewage Works	1954	1717431
G	317m W	Sewage Tanks	1974	1682069
G	319m W	Sewage Tanks	1954	1682069
H	322m NW	Refuse Heap	1880	1596018
H	358m NW	Coal Shafts	1880	1560180
H	364m NW	Coal Shafts	1880	1560179
H	398m NW	Corn Mill	1880	1590140
J	415m W	Brick Works	1898	1644033
J	435m W	Brick Works	1925	1644033
J	441m W	Unspecified Pit	1898	1688135
J	441m W	Unspecified Pit	1925	1624840
J	451m W	Unspecified Pit	1954	1621205
J	455m W	Unspecified Tank	1925	1633754
J	455m W	Unspecified Tank	1898	1633754
J	456m W	Unspecified Tank	1898	1592641
4	484m NW	Unspecified Heap	1974	1567866

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

4

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 18**

ID	Location	Land Use	Date	Group ID
F	257m E	Unspecified Tank	1924	252595
1	307m NW	Settling Tank	1956	259306
2	319m W	Tanks	1975	260070
3	389m W	Unspecified Tank	1956	252578

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 18**

ID	Location	Land Use	Date	Group ID
A	93m NW	Electricity Substation	1975	156079
A	94m NW	Electricity Substation	1989	156079
A	115m NW	Electricity Substation	1999	156505
A	115m NW	Electricity Substation	1995	156505
A	115m NW	Electricity Substation	1996	156505
B	183m W	Electricity Substation	1999	164373
B	183m W	Electricity Substation	1995	164373
B	183m W	Electricity Substation	1996	164373
B	184m W	Electricity Substation	1975	164373
B	185m W	Electricity Substation	1989	164373



ID	Location	Land Use	Date	Group ID
D	209m NW	Electricity Substation	1975	156256
D	209m NW	Electricity Substation	1999	156256
D	209m NW	Electricity Substation	1995	156256
D	209m NW	Electricity Substation	1996	156256
D	210m NW	Electricity Substation	1989	156256
E	213m N	Electricity Substation	1999	158835
E	213m N	Electricity Substation	1995	158835
E	213m N	Electricity Substation	1996	158835
I	408m NW	Electricity Substation	1999	156980
I	408m NW	Electricity Substation	1995	156980
I	408m NW	Electricity Substation	1996	156980
I	410m NW	Electricity Substation	1975	156980
I	411m NW	Electricity Substation	1989	166674

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

0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

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**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

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.

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

3.5 Historical waste sites

Records within 500m**0**

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

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**38**

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 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Disposing of waste exemption	Both agricultural and non- agricultural waste	Burning waste in the open
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Aerobic composting and associated prior treatment
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Using waste exemption	Both agricultural and non- agricultural waste	Burning of waste as a fuel in a small appliance
A	287m NW	The Barn Eaves Lane STOKE-ON-TRENT ST10 1TL	EPR/TE5853A G/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste for a specified purpose
A	309m NW	Brookfields Eaves Lane STOKE-ON-TRENT ST10 1YL	EPR/QH0676E Z/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Disposing of waste exemption	On a Farm	Burning waste in the open
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Using waste exemption	On a Farm	Use of waste for a specified purpose
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX299960	Using waste exemption	On a Farm	Use of waste in construction
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Disposing of waste exemption	On a Farm	Burning waste in the open
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Using waste exemption	On a Farm	Use of waste for a specified purpose
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX165210	Using waste exemption	On a Farm	Use of waste in construction
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX003279	Disposing of waste exemption	On a farm	Burning waste in the open
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX003279	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment



ID	Location	Site	Reference	Category	Sub-Category	Description
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX003279	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX003279	Using waste exemption	On a farm	Use of waste in construction
B	418m SW	THE BARN, EAVES LANE, CHEADLE, STOKE-ON- TRENT, ST10 1TL	WEX003279	Using waste exemption	On a farm	Use of waste for a specified purpose
C	435m W	The Wood, Tean Road, Cheadle, Stoke-on-Trent, ST10 1TL	WEX165221	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	435m W	The Wood, Tean Road, Cheadle, Stoke-on-Trent, ST10 1TL	WEX165221	Disposing of waste exemption	On a Farm	Burning waste in the open
C	435m W	The Wood, Tean Road, Cheadle, Stoke-on-Trent, ST10 1TL	WEX165221	Using waste exemption	On a Farm	Use of waste for a specified purpose
C	435m W	The Wood, Tean Road, Cheadle, Stoke-on-Trent, ST10 1TL	WEX165221	Using waste exemption	On a Farm	Use of waste in construction
C	435m W	The Wood, Tean Road, Cheadle, Stoke-on-Trent, ST10 1TL	WEX165221	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Disposing of waste exemption	On a Farm	Burning waste in the open
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Using waste exemption	On a Farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
C	435m W	Land Adjacent to Midway Farm, Uttoxeter Road, Tean, Stoke-on-Trent, ST10 1TL	WEX165227	Using waste exemption	On a Farm	Use of waste in construction

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 Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

5

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
1	28m NE	Emblems Ltd	Rakeway Grange, Rakeway Road, Cheadle, Staffordshire, ST10 1QH	Textiles, Fabrics, Silk and Machinery	Industrial Products
2	115m NW	Electricity Sub Station	Staffordshire, ST10	Electrical Features	Infrastructure and Facilities
3	185m W	Electricity Sub Station	Staffordshire, ST10	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
4	211m NW	Electricity Sub Station	Staffordshire, ST10	Electrical Features	Infrastructure and Facilities
5	214m N	Electricity Sub Station	Staffordshire, ST10	Electrical Features	Infrastructure and Facilities

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

0

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.

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

5

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

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

ID	Location	Address	Details	
6	322m NW	EAVES LANE, CHEADLE, STAFFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: T/32/01412/R Permit Version: 1 Receiving Water: CHEADLE MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 21/02/1968 Effective Date: 21/02/1968 Revocation Date: 01/04/1969
7	341m W	TEAN ROAD WTW CSO, TEAN ROAD, CHEADLE, STOKE-ON-TRENT, STAFFORDSHIRE, ST10 1LT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/32/30318/O Permit Version: 1 Receiving Water: MOBBERLEY BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/02/1996 Effective Date: 15/02/1996 Revocation Date: 04/12/2017
A	343m W	TEAN ROAD WTW CSO, TEAN ROAD, CHEADLE, STOKE-ON-TRENT, STAFFORDSHIRE, ST10 1LT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/32/30318/O Permit Version: 2 Receiving Water: CECILLY BROOK	Status: VARIED UNDER EPR 2010 Issue date: 05/12/2017 Effective Date: 05/12/2017 Revocation Date: 30/03/2018



ID	Location	Address	Details	
A	343m W	TEAN ROAD WTW CSO, TEAN ROAD, CHEADLE, STOKE-ON-TRENT, STAFFORDSHIRE, ST10 1LT	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/32/30318/O Permit Version: 3 Receiving Water: CECILLY BROOK	Status: VARIED UNDER EPR 2010 Issue date: 05/12/2017 Effective Date: 31/03/2018 Revocation Date: -
8	405m W	EAVES LANE, CHEADLE, STAFFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: T/32/01412/R Permit Version: 1 Receiving Water: CHEADLE MILL BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 21/02/1968 Effective Date: 21/02/1968 Revocation Date: 01/04/1969

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	
9	436m SW	Incident Date: 01/04/2003 Incident Identification: 147656 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) 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

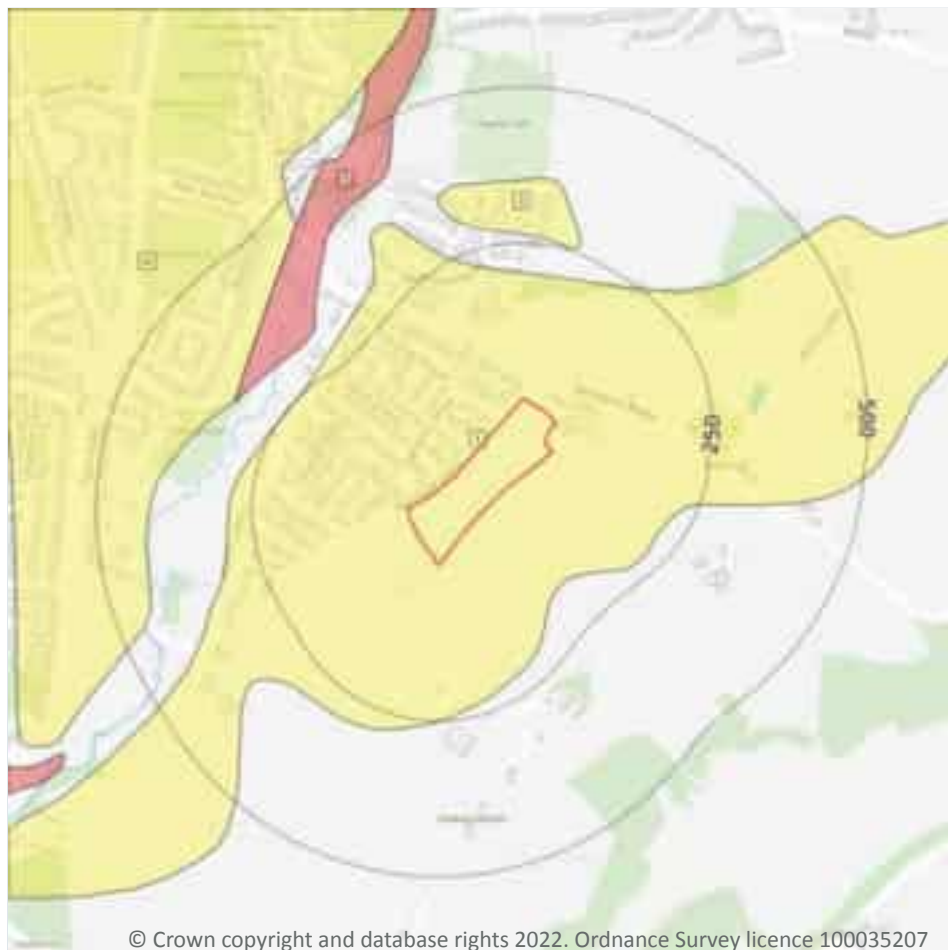
0

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 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

4

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 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
2	254m N	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	310m 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	326m NW	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

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

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5.2 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**

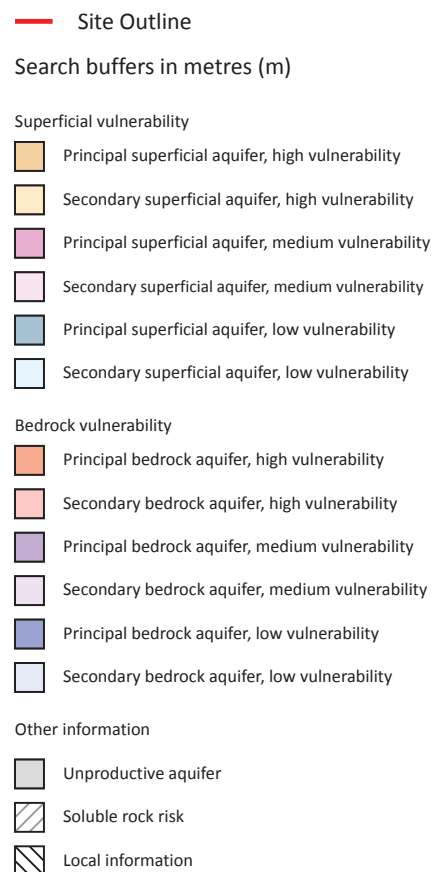
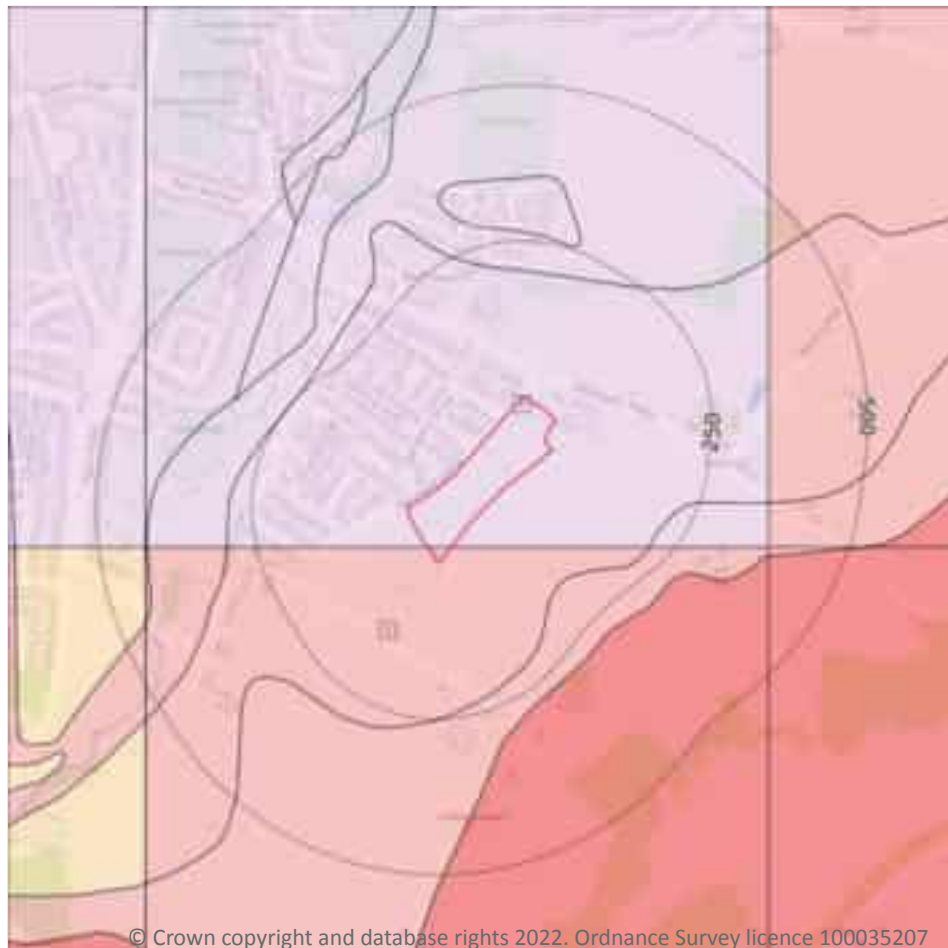
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	274m SE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers



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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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 bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 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.

5.5 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
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)

5.6 Groundwater abstractions

Records within 2000m

3

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 41**

ID	Location	Details	
-	1516m NW	Status: Active Licence No: 03/28/32/0013 Details: Potable Water Supply - Storage Direct Source: Groundwater Midlands Region Point: MONKHOUSE, CHEADLE - WELL 2 Data Type: Point Name: Severn Trent Water Ltd Easting: 400730 Northing: 343480	Annual Volume (m ³): 1,038,234 Max Daily Volume (m ³): 2,837 Original Application No: NPS/WR/005192 Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/10/2010 Version End Date: -
-	1524m NW	Status: Active Licence No: 03/28/32/0013 Details: Potable Water Supply - Storage Direct Source: Groundwater Midlands Region Point: MONKHOUSE, CHEADLE - WELL 1 Data Type: Point Name: Severn Trent Water Ltd Easting: 400730 Northing: 343490	Annual Volume (m ³): 1,038,234 Max Daily Volume (m ³): 2,837 Original Application No: NPS/WR/005192 Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/10/2010 Version End Date: -
-	1584m SW	Status: Active Licence No: 03/28/32/0028 Details: Potable Water Supply - Direct Direct Source: Groundwater Midlands Region Point: TEANFORD Data Type: Point Name: Severn Trent Water Ltd Easting: 400600 Northing: 340650	Annual Volume (m ³): 1,971,000 Max Daily Volume (m ³): 6,820 Original Application No: NPS/WR/005197 Original Start Date: 08/05/1980 Expiry Date: - Issue No: 102 Version Start Date: 22/10/2010 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

6

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 41**



ID	Location	Details	
-	1137m SW	Status: Active Licence No: 03/28/32/0025 Details: Process Water Direct Source: Surface Water Midlands Region Point: FREEHAY, MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (2) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400560 Northing: 341290	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -
-	1137m SW	Status: Active Licence No: 03/28/32/0025 Details: Dust Suppression Direct Source: Surface Water Midlands Region Point: FREEHAY, MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (2) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400560 Northing: 341290	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -
-	1137m SW	Status: Active Licence No: 03/28/32/0025 Details: Mineral Washing Direct Source: Surface Water Midlands Region Point: FREEHAY, MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (2) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400560 Northing: 341290	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -
-	1461m SW	Status: Active Licence No: 03/28/32/0025 Details: Dust Suppression Direct Source: Surface Water Midlands Region Point: FREEHAY, MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (1) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400500 Northing: 340880	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -



ID	Location	Details	
-	1461m SW	Status: Active Licence No: 03/28/32/0025 Details: Mineral Washing Direct Source: Surface Water Midlands Region Point: FREEHAY,MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (1) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400500 Northing: 340880	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -
-	1461m SW	Status: Active Licence No: 03/28/32/0025 Details: Process Water Direct Source: Surface Water Midlands Region Point: FREEHAY,MOBBERLEY & HUNTLEY WOOD - RIVER TEAN (1) Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 400500 Northing: 340880	Annual Volume (m ³): 665,000 Max Daily Volume (m ³): 2,208 Original Application No: NPS/WR/028806 Original Start Date: 25/02/1969 Expiry Date: - Issue No: 103 Version Start Date: 29/05/2018 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

3

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 41**

ID	Location	Details	
-	1516m NW	Status: Active Licence No: 03/28/32/0013 Details: Potable Water Supply - Storage Direct Source: Groundwater Midlands Region Point: MONKHOUSE, CHEADLE - WELL 2 Data Type: Point Name: Severn Trent Water Ltd Easting: 400730 Northing: 343480	Annual Volume (m ³): 1,038,234 Max Daily Volume (m ³): 2,837 Original Application No: NPS/WR/005192 Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/10/2010 Version End Date: -



ID	Location	Details	
-	1524m NW	Status: Active Licence No: 03/28/32/0013 Details: Potable Water Supply - Storage Direct Source: Groundwater Midlands Region Point: MONKHOUSE, CHEADLE - WELL 1 Data Type: Point Name: Severn Trent Water Ltd Easting: 400730 Northing: 343490	Annual Volume (m ³): 1,038,234 Max Daily Volume (m ³): 2,837 Original Application No: NPS/WR/005192 Original Start Date: 02/02/1966 Expiry Date: - Issue No: 103 Version Start Date: 22/10/2010 Version End Date: -
-	1584m SW	Status: Active Licence No: 03/28/32/0028 Details: Potable Water Supply - Direct Direct Source: Groundwater Midlands Region Point: TEANFORD Data Type: Point Name: Severn Trent Water Ltd Easting: 400600 Northing: 340650	Annual Volume (m ³): 1,971,000 Max Daily Volume (m ³): 6,820 Original Application No: NPS/WR/005197 Original Start Date: 08/05/1980 Expiry Date: - Issue No: 102 Version Start Date: 22/10/2010 Version End Date: -

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

5.9 Source Protection Zones

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

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 41**

ID	Location	Type	Description
1	275m SE	3	Total catchment

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

5.10 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.



6 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

6.1 Water Network (OS MasterMap)

Records within 250m

5

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

Features are displayed on the Hydrology map on **page 46**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	167m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	171m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	220m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

4

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 46**

This data is sourced from the Ordnance Survey.

6.3 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 46**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River	Mobberley Bk	GB104028053100	Dove Lower Rivers and Lakes	Dove

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



6.4 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 46**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	281m NW	River	Mobberley Bk	GB104028053100	Moderate	Fail	Moderate	2019

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

6.5 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 46**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Dove - Millstone Grit/ Coal Measures	GB40402G303000	Good	Good	Good	2019

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



7 River and coastal flooding



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- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 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.



7.2 Historical Flood Events

Records within 250m

2

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.

Features are displayed on the River and coastal flooding map on **page 49**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
B	167m N	River Tean Nov	1977-11-01 1977-11-30	Main river	Channel capacity exceeded (no raised defences)	No data
3	187m N	River Tean Nov	1977-11-01 1977-11-30	Main river	Channel capacity exceeded (no raised defences)	No data

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

7.3 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.

7.4 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.



7.5 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

7.6 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.

7.7 Flood Zone 3

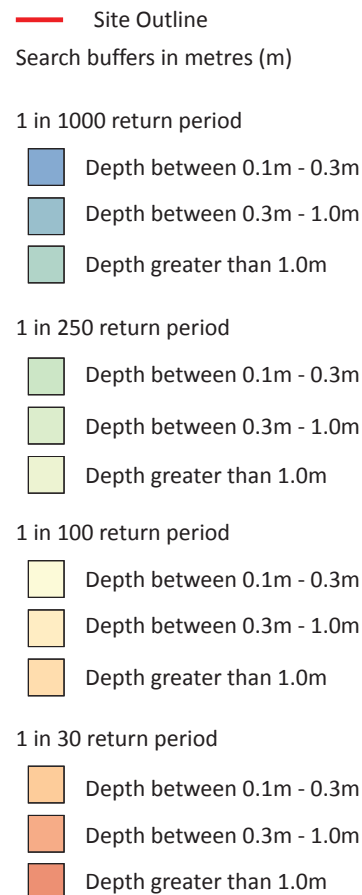
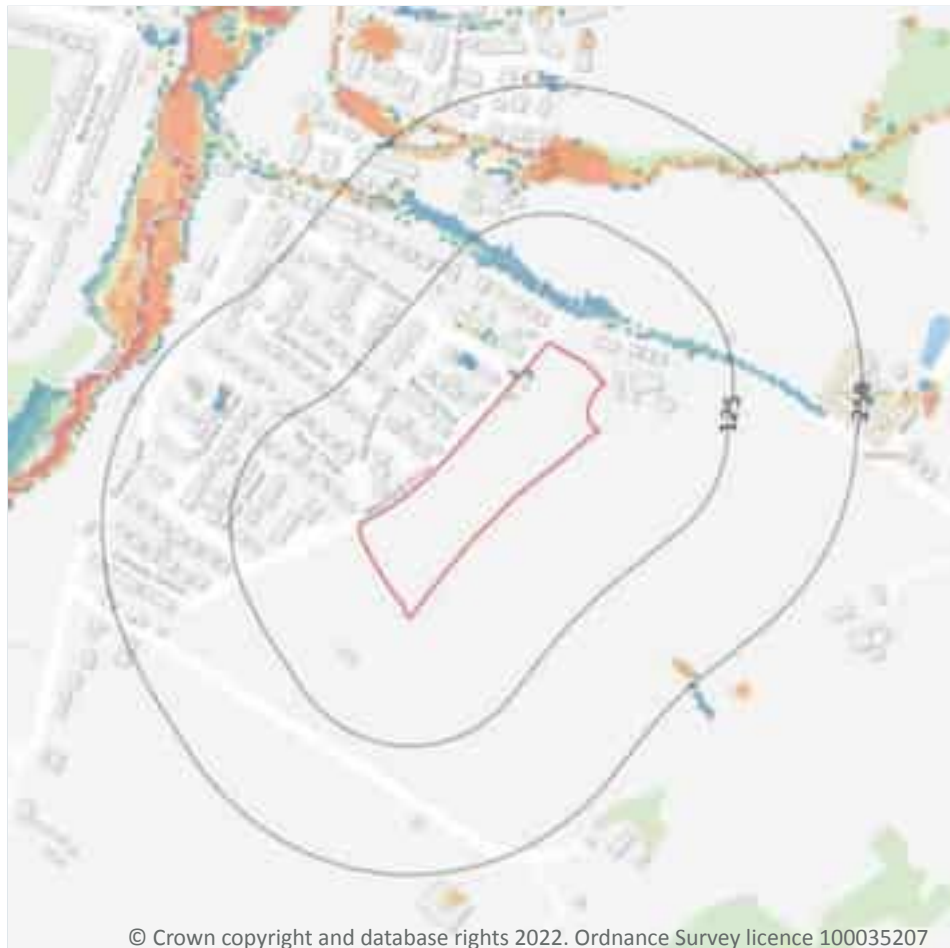
Records within 50m	0
--------------------	---

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.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 100 year, 0.1m - 0.3m

Highest risk within 50m

1 in 100 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 53**

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.

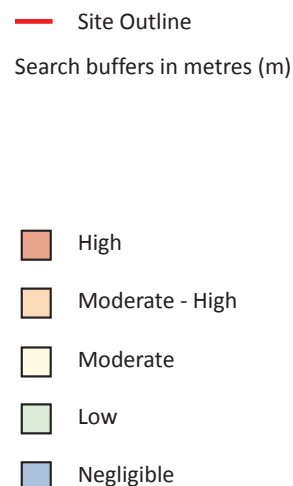
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 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 55**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▤ Designated Ancient Woodland
- ▤ Green Belt

10.1 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.

10.2 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.

10.3 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.

10.4 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.

10.5 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.



10.6 Local Nature Reserves (LNR)

Records within 2000m

4

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.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Data source
1	378m N	Cecilly Brook	Natural England
5	847m N	Cecilly Brook	Natural England
-	1357m N	Cecilly Brook	Natural England
-	1478m N	Hales Hall Pool	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

4

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.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Woodland Type
2	538m SE	Rakeway Wood	Ancient & Semi-Natural Woodland
4	735m S	Unknown	Ancient & Semi-Natural Woodland
6	1021m NE	Unknown	Ancient & Semi-Natural Woodland
7	1305m W	Huntley Wood	Ancient & Semi-Natural Woodland

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



10.8 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.

10.9 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.

10.10 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.

10.11 Green Belt

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Local Authority name
3	682m SW	Stoke-on-Trent	Staffordshire Moorlands

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



10.12 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.

10.13 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.

10.14 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.

10.15 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.

10.16 Nitrate Vulnerable Zones

Records within 2000m

1

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
647m SE	Alton	Groundwater	174	Existing

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t.

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

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

11.3 National Parks

Records within 250m**0**

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m**1**

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 64**

ID	Location	Name	Grade	Reference Number	Listed date
1	152m NW	Mill House, Cheadle, Staffordshire Moorlands, Staffordshire, ST10	II*	1037949	02/05/1953

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

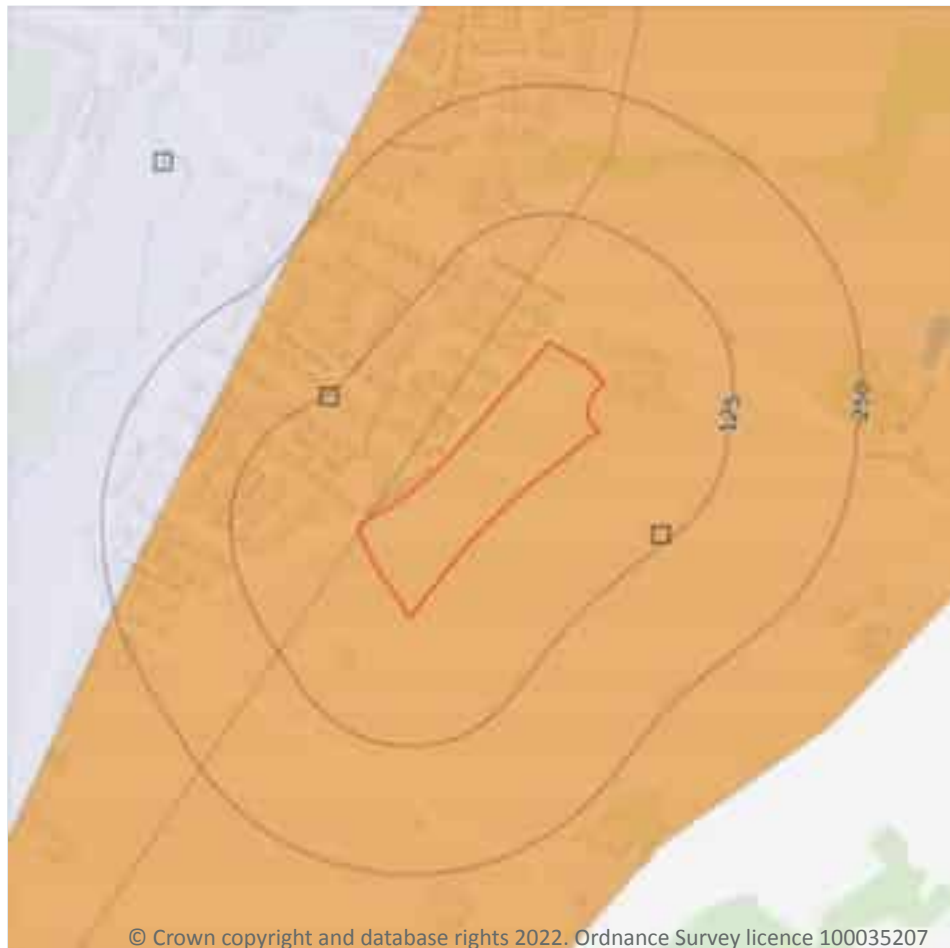
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



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- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

3

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 67**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



ID	Location	Classification	Description
2	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
3	178m NW	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

12.2 Open Access Land

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

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

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

12.3 Tree Felling Licences

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

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

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

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

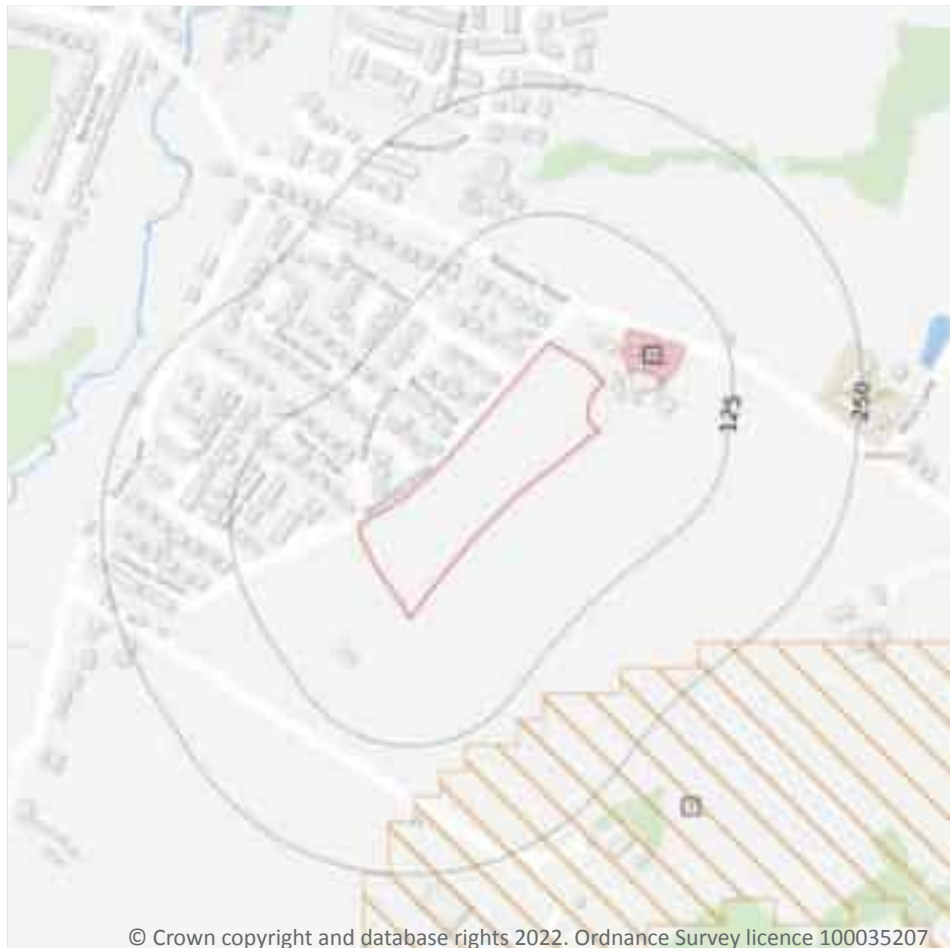
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



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- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 70**

ID	Location	Main Habitat	Other habitats
1	25m NE	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m**1**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on **page 70**

ID	Location	Type	Habitat
2	135m SE	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

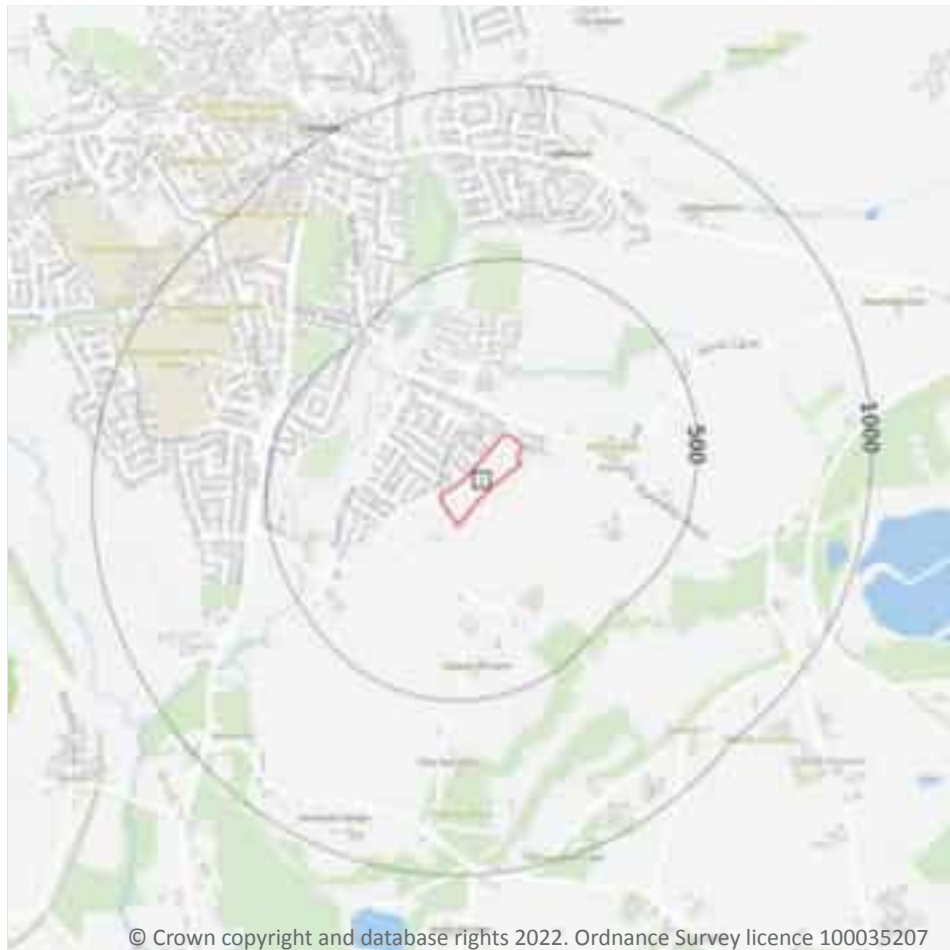
Records within 250m**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 72**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

14.4 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

14.5 Bedrock geology (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

14.6 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.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- ☐ Geological map tile

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 76**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW124_ashbourne_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

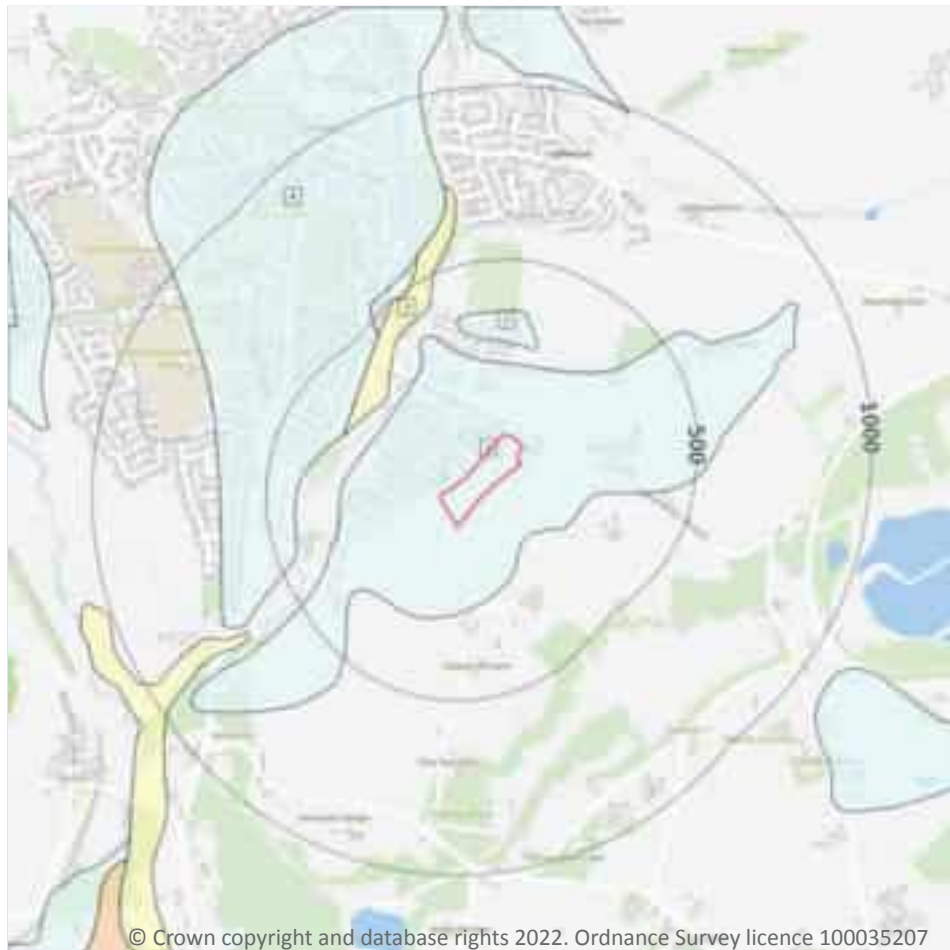
0

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.

15.4 Superficial geology (50k)

Records within 500m

4

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 78**

ID	Location	LEX Code	Description	Rock description
1	On site	TILMP-DMTN	TILL, MID PLEISTOCENE	DIAMICTON
2	254m N	TILMP-DMTN	TILL, MID PLEISTOCENE	DIAMICTON
3	310m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	326m NW	TILMP-DMTN	TILL, MID PLEISTOCENE	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 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	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 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.

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

5

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 80**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	218m NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	274m SE	CHES-SCON	CHESTER FORMATION - SANDSTONE AND CONGLOMERATE, INTERBEDDED	OLENEKIAN
5	312m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	389m SE	FRE-SCON	FREEHAY MEMBER - SANDSTONE AND CONGLOMERATE, INTERBEDDED	-

This data is sourced from the British Geological Survey.

15.9 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	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

6

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.

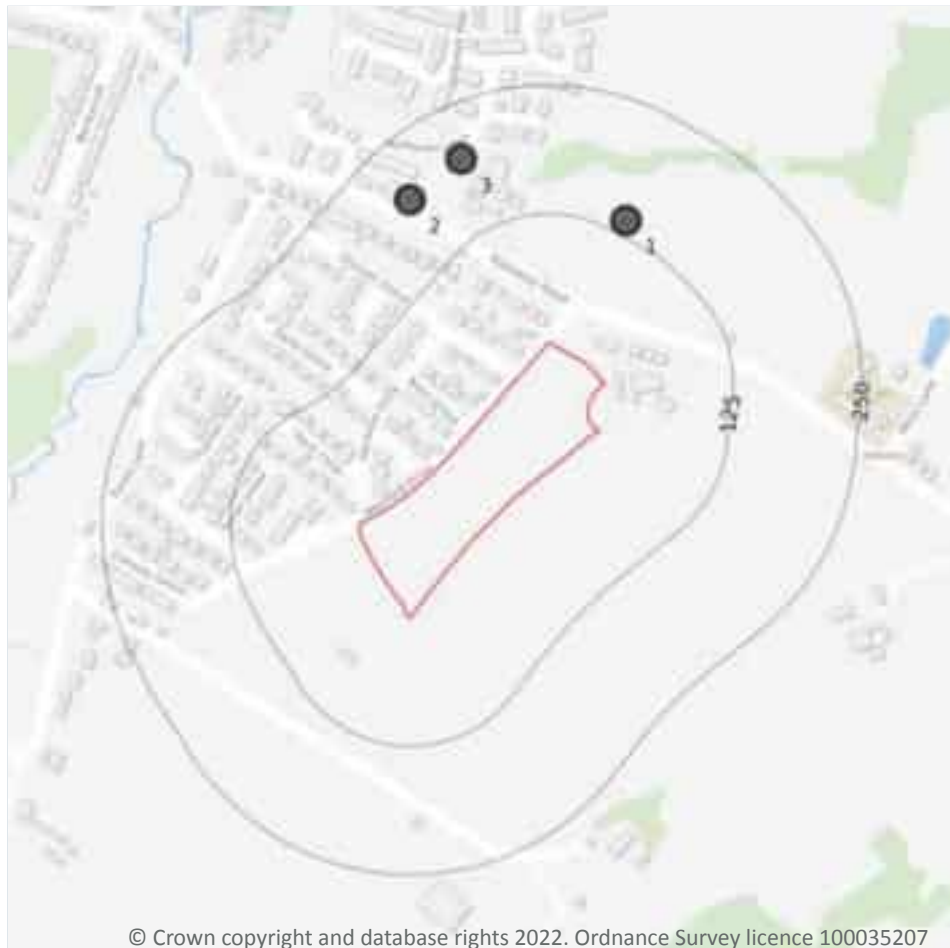
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 80**

ID	Location	Category	Description
2	110m SW	ROCK	Coal seam, observed
6	312m W	FAULT	Fault, inferred
7	350m E	ROCK	Coal seam, inferred
9	403m E	ROCK	Coal seam, observed
10	425m NW	ROCK	Coal seam, inferred
11	490m W	ROCK	Coal seam, 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

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16.1 BGS Boreholes

Records within 250m

3

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 82**

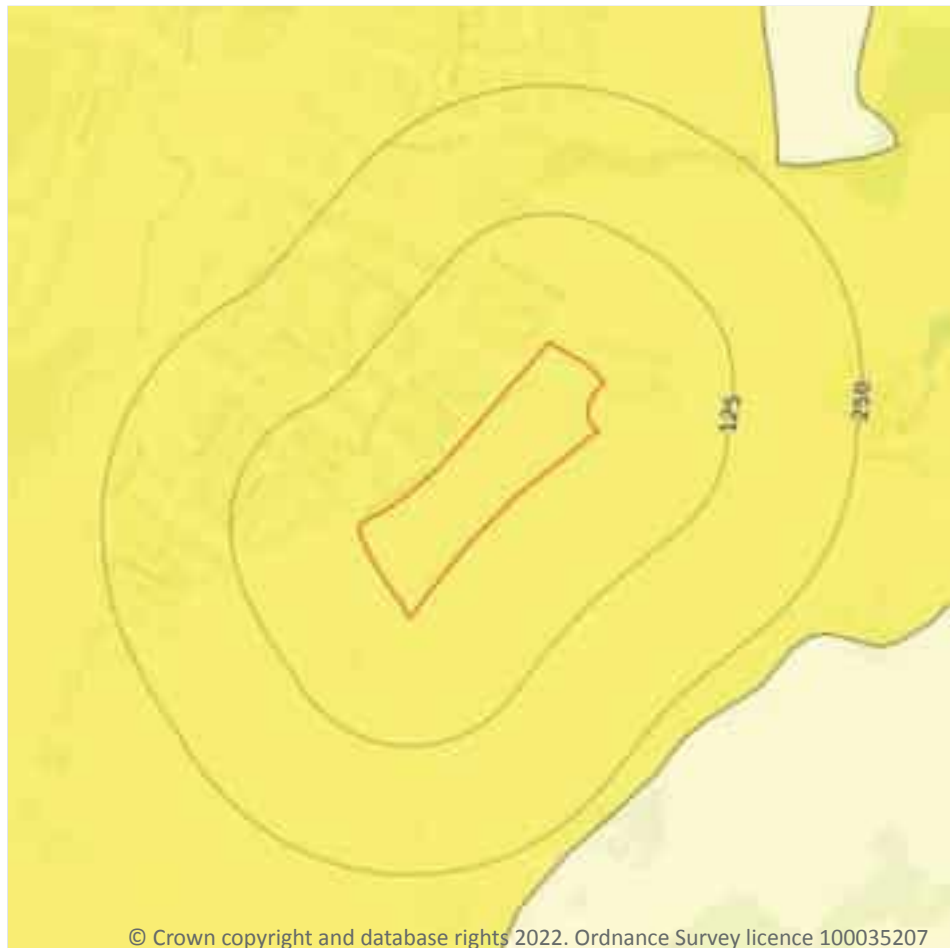
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	140m NE	401680 342360	RAKEWAY ROAD CHEADLE BH5	-	Y	N/A
2	194m NW	401470 342380	RAKEWAY ROAD CHEADLE BH15	-	Y	N/A
3	198m NW	401520 342420	RAKEWAY ROAD CHEADLE BH12	-	Y	N/A



This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

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).

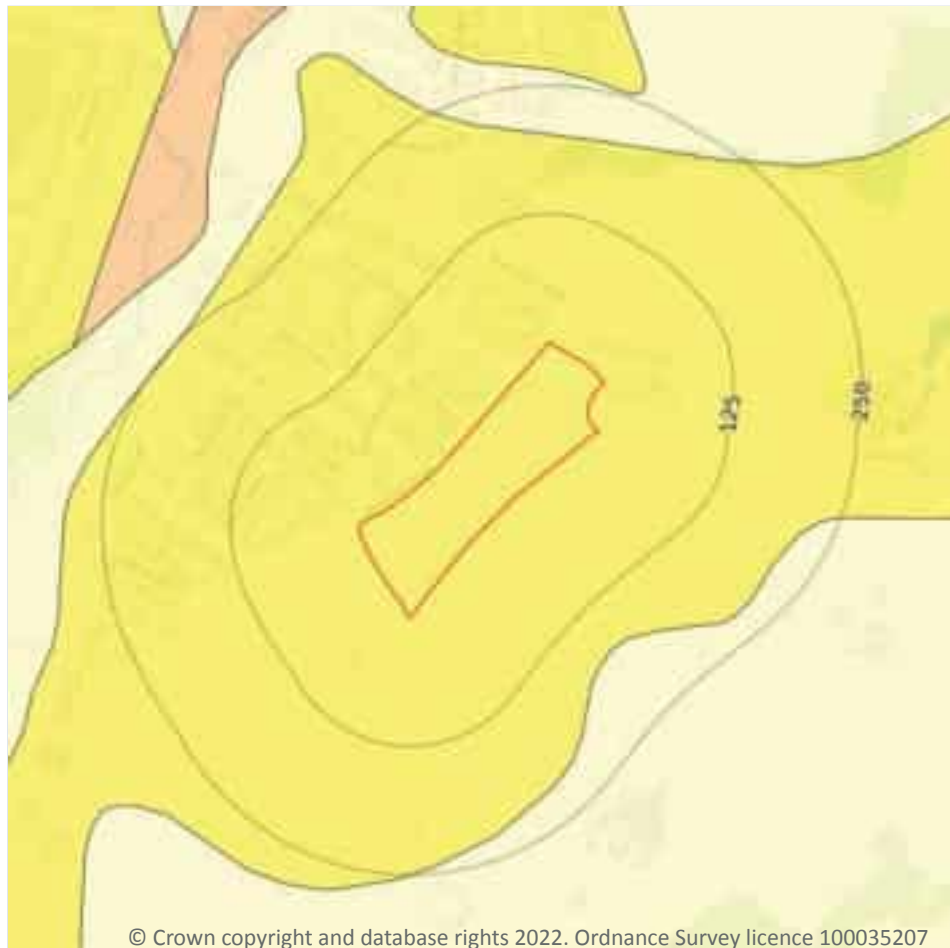
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 84**

Location	Hazard rating	Details
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

1

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 85**

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

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.

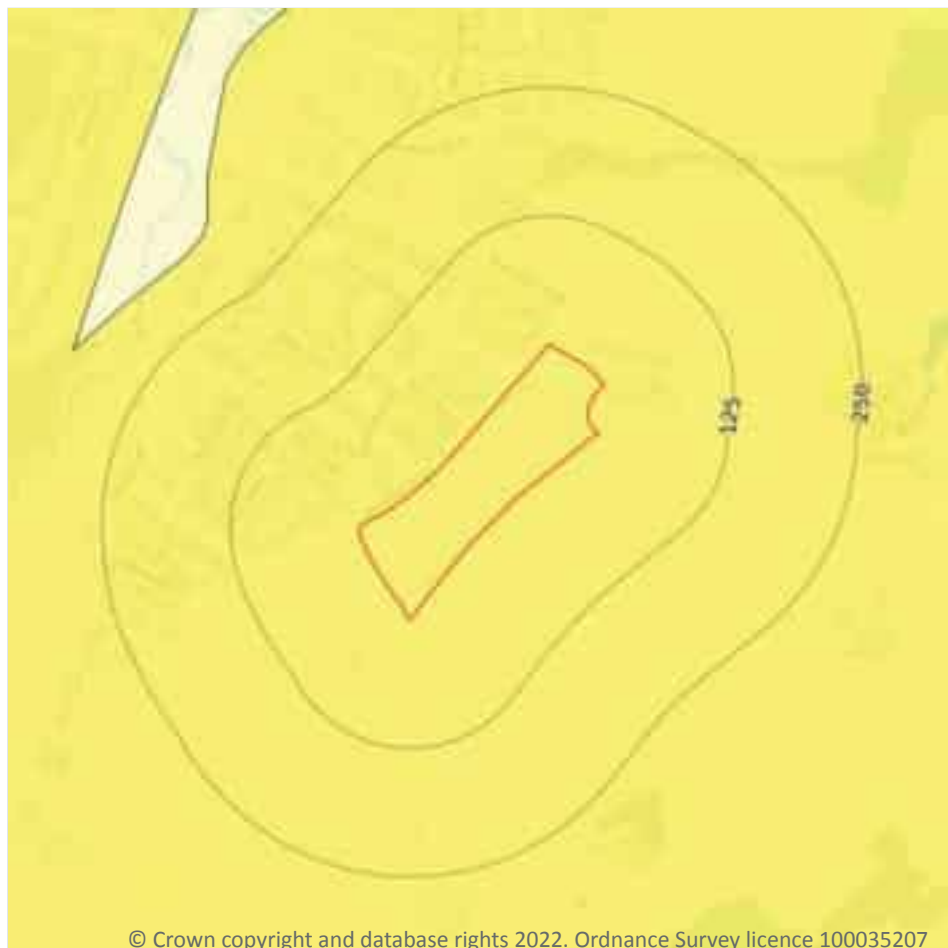
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 86**

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

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.

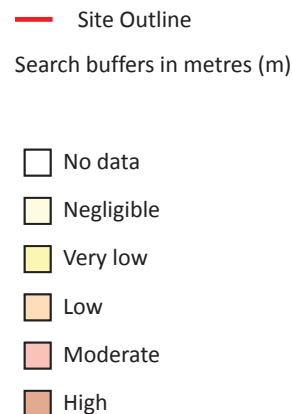
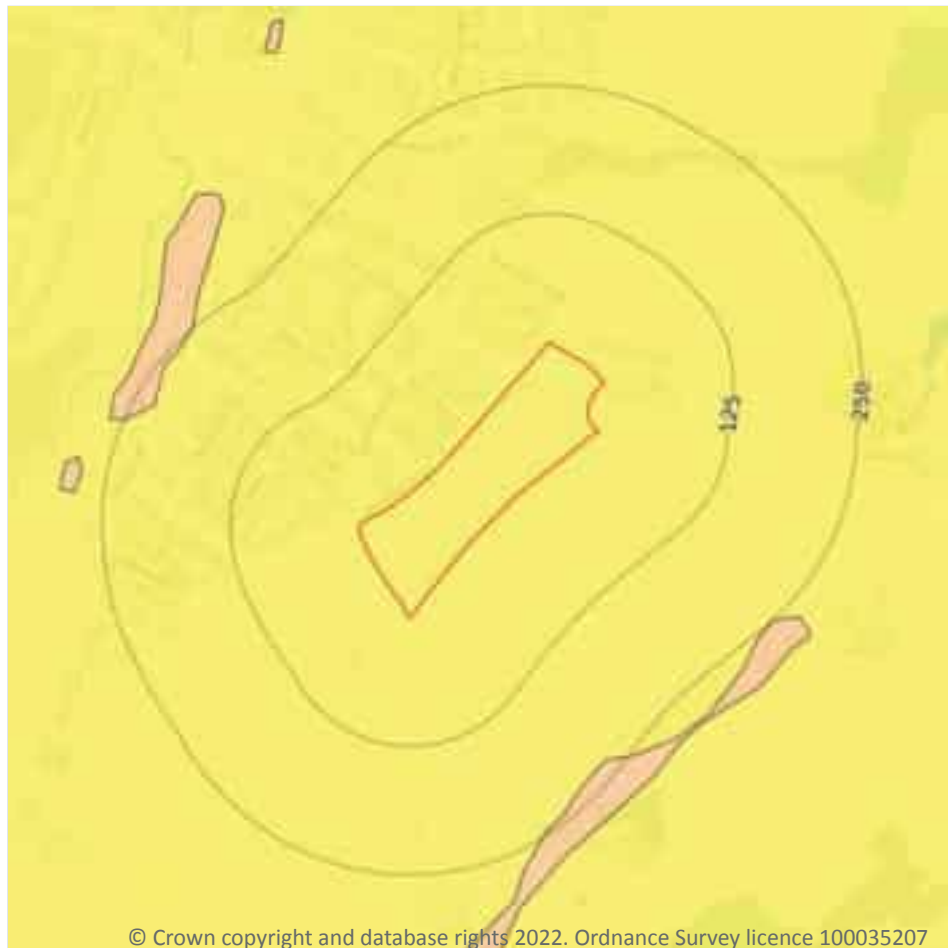
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 87**

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



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17.5 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.

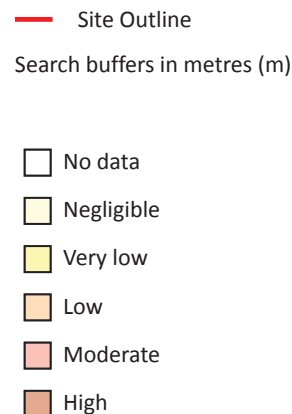
Features are displayed on the Natural ground subsidence - Landslides map on **page 88**

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



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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.

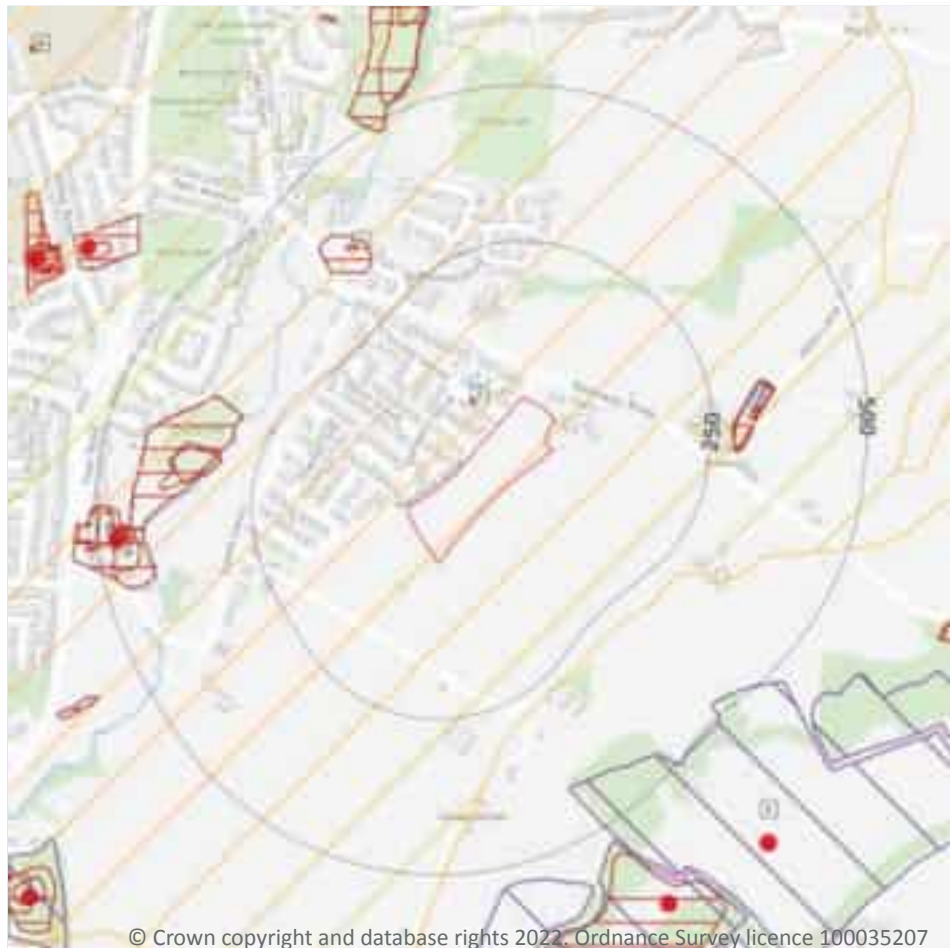
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 89**

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 90**

ID	Location	Details	Description
D	470m W	Name: The Eaves Brick Works Address: Cheadle, STOKE ON TRENT, Staffordshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

0

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.

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

13

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 90**

ID	Location	Land Use	Year of mapping	Mapping scale
1	52m NW	Old Coal Shaft	1880	1:10560
A	358m NW	Coal Shafts	1880	1:10560
A	364m NW	Coal Shafts	1880	1:10560
H	654m NW	Unspecified Shafts	1880	1:10560
I	672m NW	Colliery	1880	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
I	678m NW	Unspecified Shafts	1880	1:10560
I	682m NW	Old Coal Shafts	1898	1:10560
I	682m NW	Unspecified Shafts	1880	1:10560
-	763m NW	Coal Shafts	1880	1:10560
-	779m NW	Coal Shafts	1880	1:10560
N	945m NW	Old Coal Shaft	1880	1:10560
N	951m NW	Old Coal Shaft	1898	1:10560
-	966m N	Colliery	1880	1:10560

This 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 90**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
E	418m SE	Freehay Wood	Sand and gravel	Surface mineral working	Valid	4/12/70

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

3

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 90**



ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	806m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	947m NE	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not 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

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

Records on site	1
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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
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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
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Generalised areas that may be affected by kaolin and ball clay extraction.

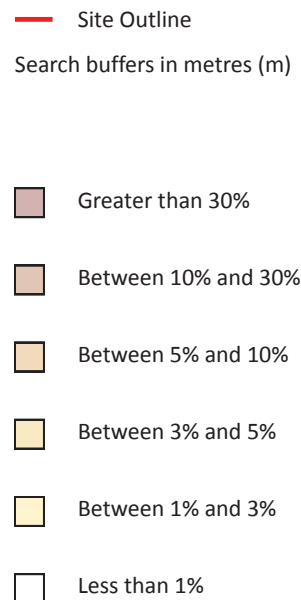
This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



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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 95**

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

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 km². 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 km²; 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	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
7m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 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 km²).

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 km².

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 C

SITE PHOTOGRAPHS

Panoramic Photograph 1



Panoramic Photograph 2



Panoramic Photograph 3



Panoramic Photograph 4



Panoramic Photograph 5



Panoramic Photograph 6



Panoramic Photograph 7



Panoramic Photograph 8



Panoramic Photograph 9



Panoramic Photograph 10



Panoramic Photograph 11



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



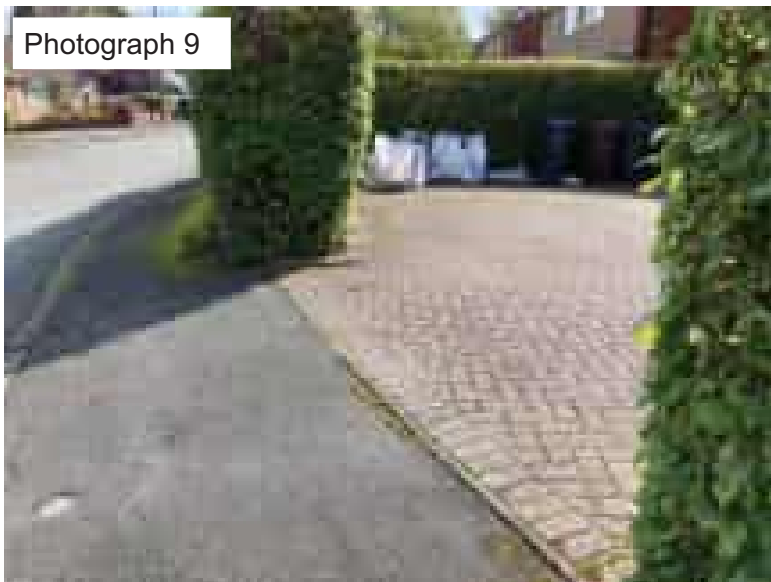
Photograph 7



Photograph 8



Photograph 9



Photograph 10



Photograph 11



Photograph 12



APPENDIX D
COAL AUTHORITY REPORT



The Coal
Authority

Consultants Coal Mining Report

Site At Manifold Drive
Cheadle
Staffordshire
ST10 1QX

Date of enquiry:	7 September 2022
Date enquiry received:	7 September 2022
Issue date:	7 September 2022

Our reference:	51003309833001
Your reference:	22-2506



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

SLADEN PARTNERSHIP LTD

Enquiry address

Site At Manifold Drive
Cheadle
Staffordshire
ST10 1QX

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	401342-007	401520 342241		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

16863	PO0	16256
-------	-----	-------

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

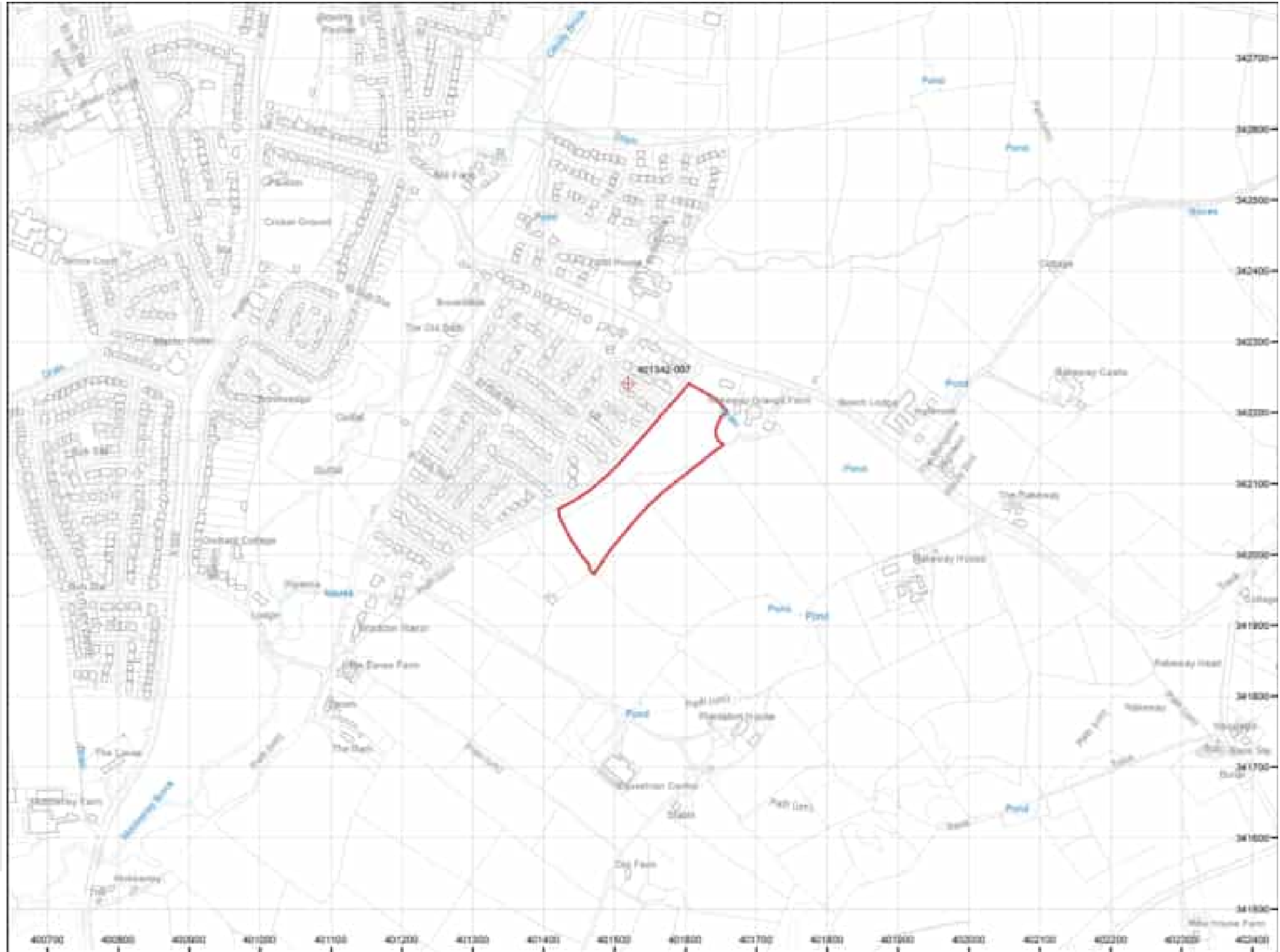
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

Key

Approximate position of the enquiry boundary shown	
Disused mine shaft	



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