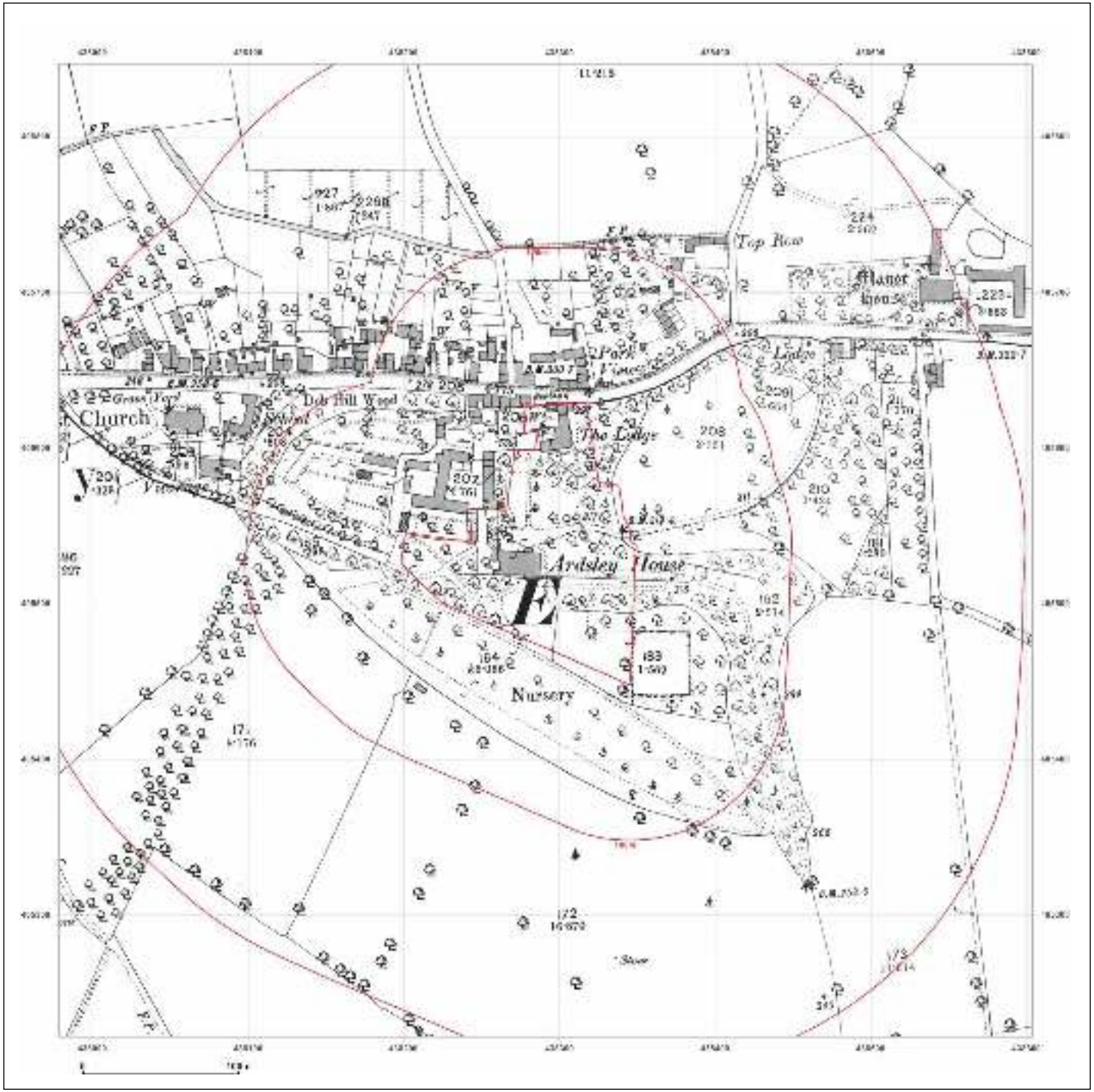
APPENDIX A



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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

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





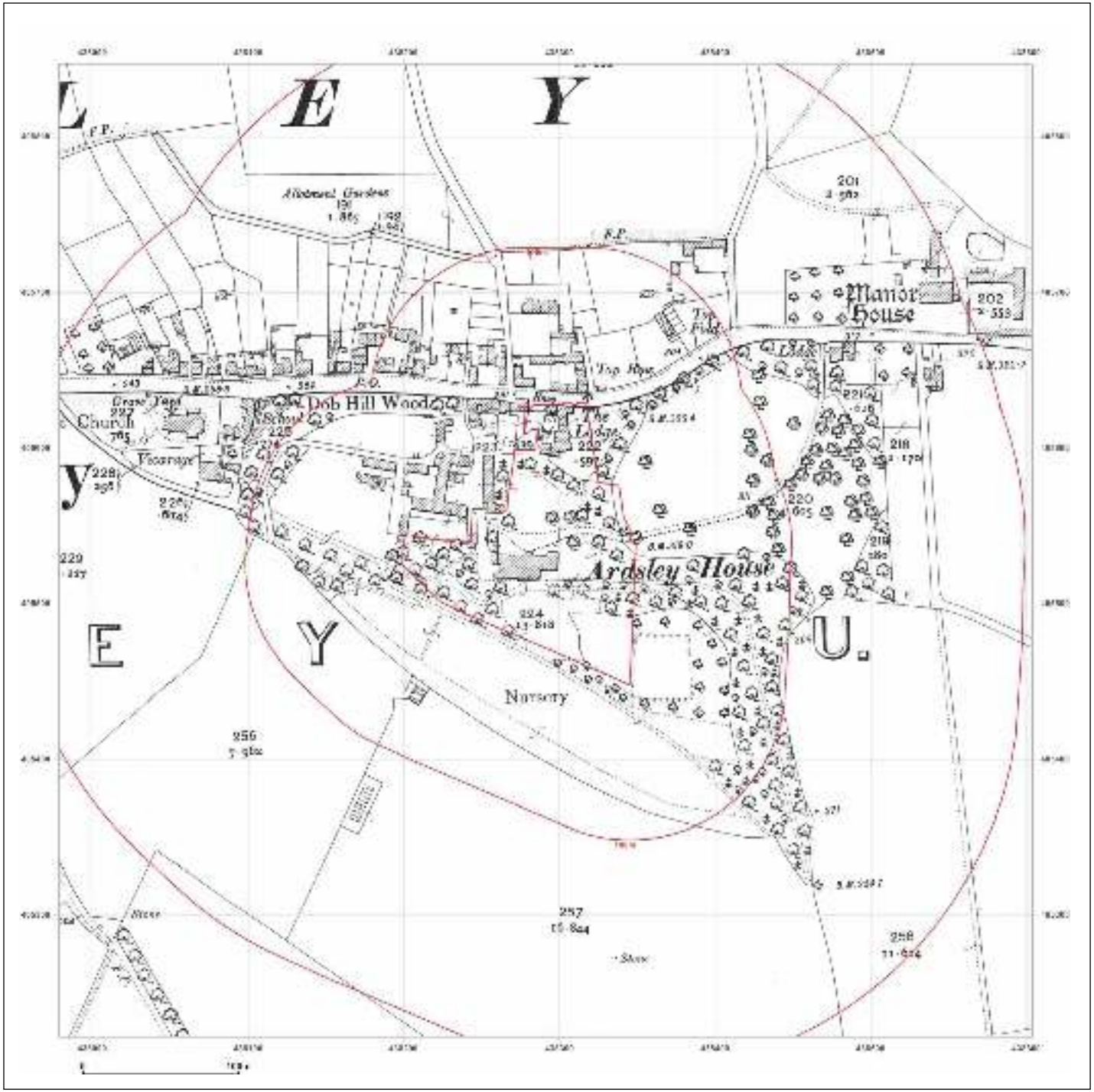
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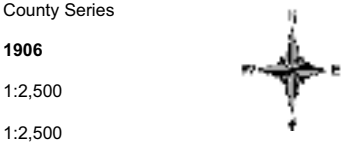


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1906**
Scale: 1:2,500
Printed at: 1:2,500





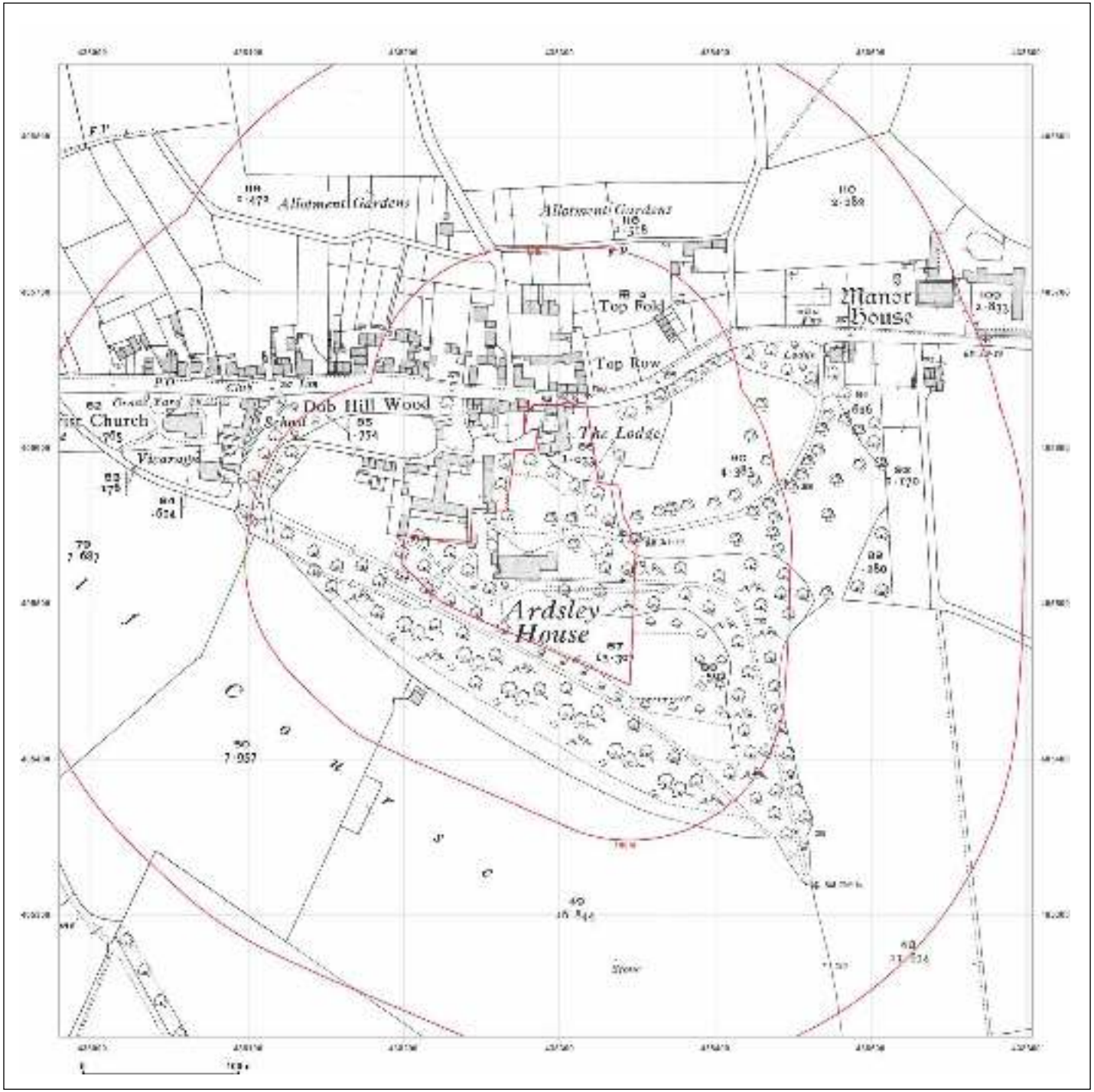
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1931**
Scale: 1:2,500
Printed at: 1:2,500





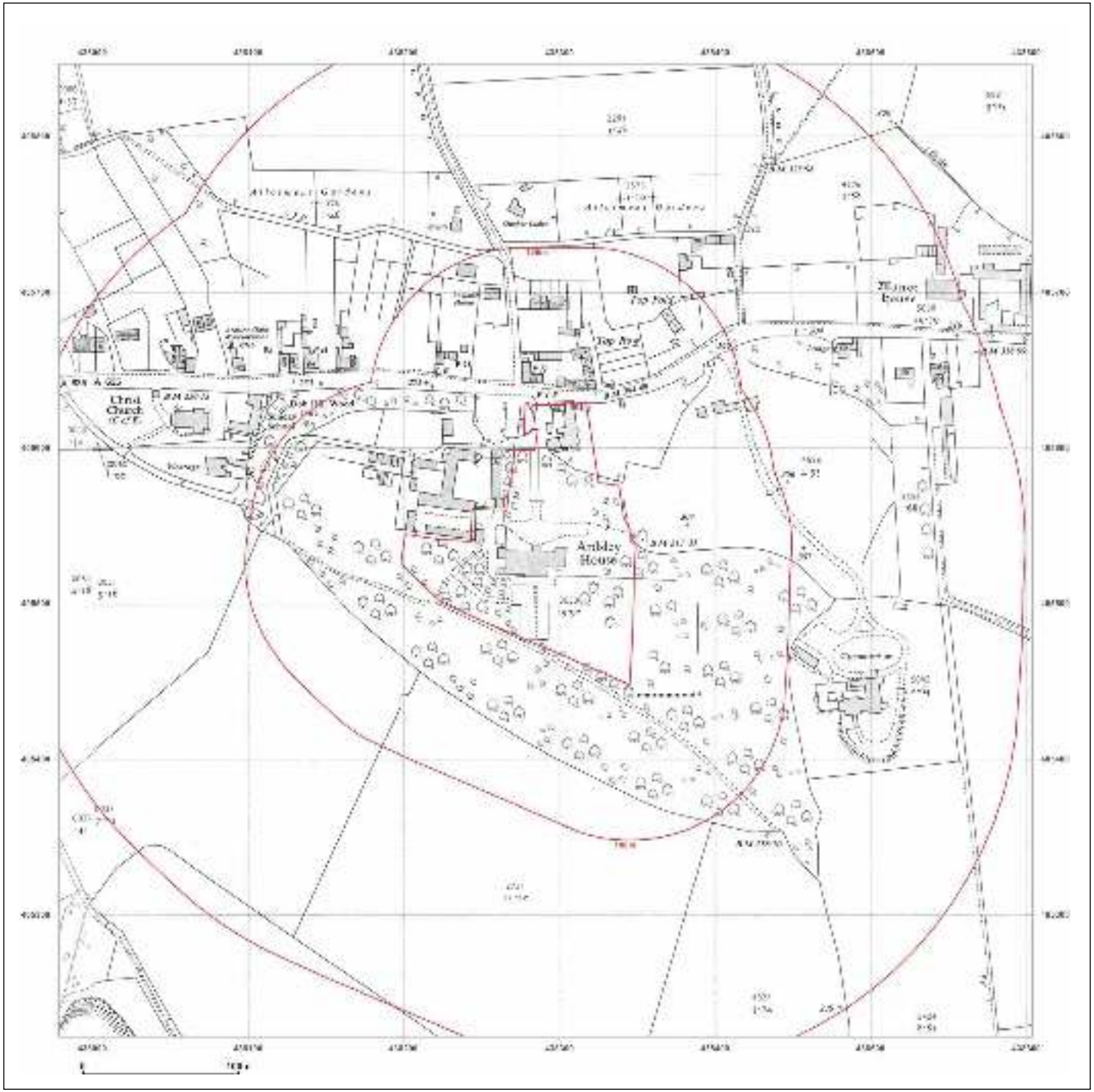
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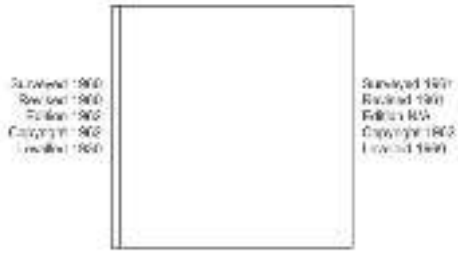


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **1960-1961**
Scale: 1:2,500
Printed at: 1:2,500



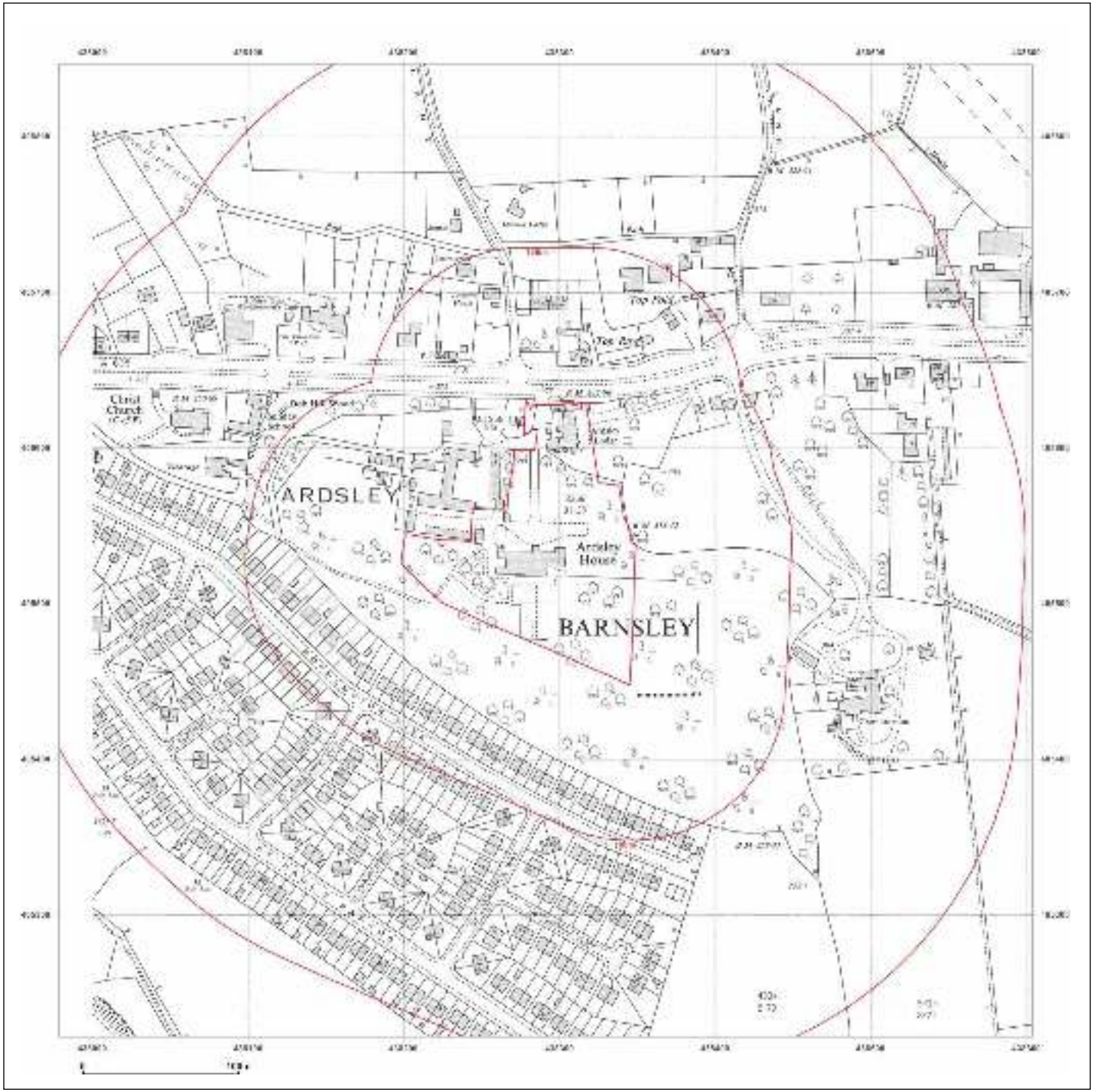
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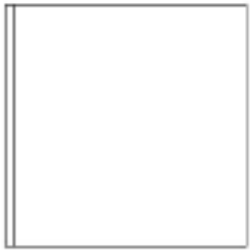


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **1966**
Scale: 1:2,500
Printed at: 1:2,500



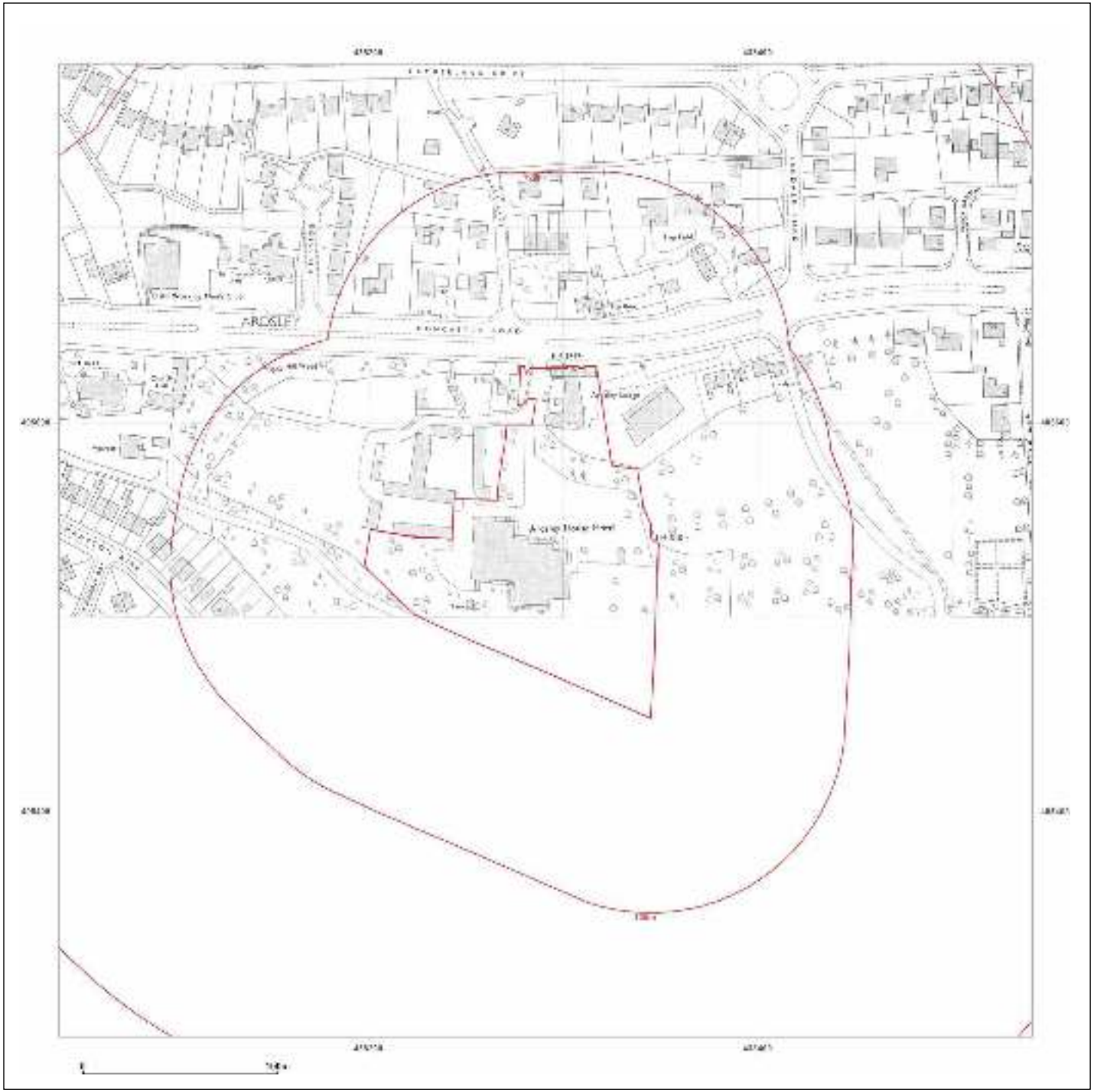
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Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

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



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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **1981-1984**
Scale: 1:1,250
Printed at: 1:2,000



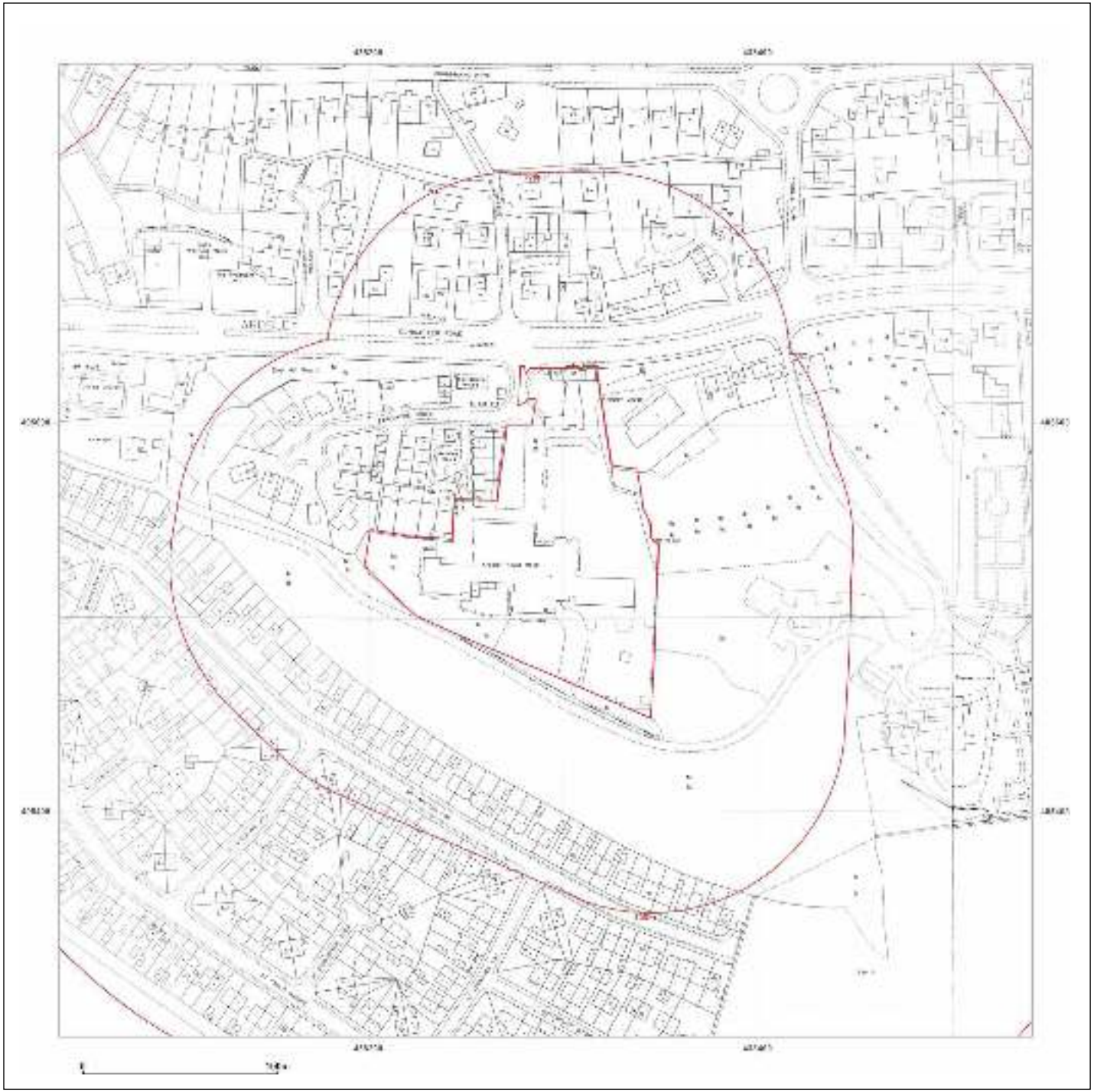
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **1993**
Scale: 1:1,250
Printed at: 1:2,000



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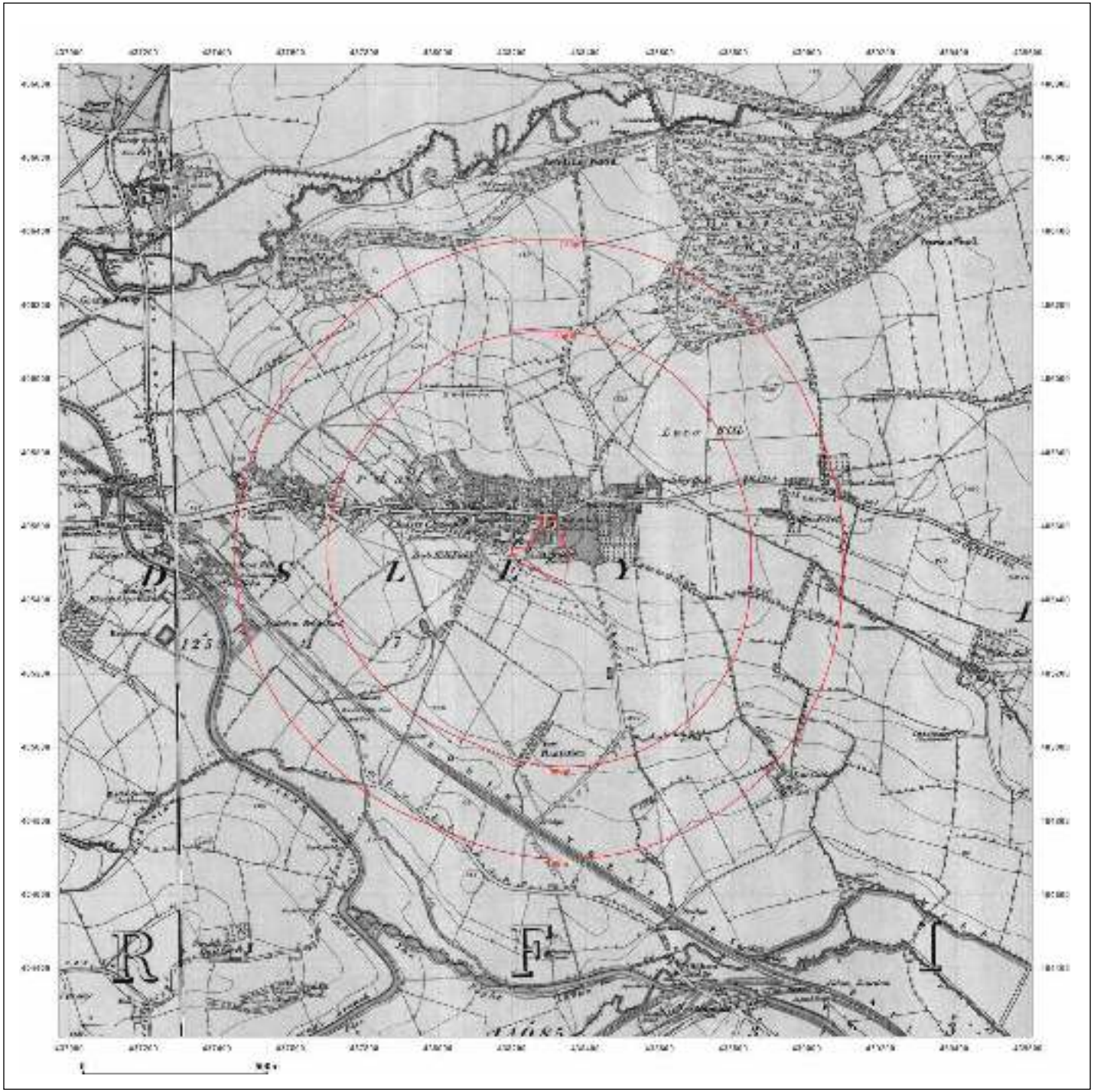
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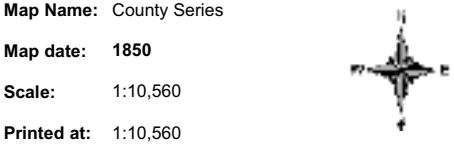


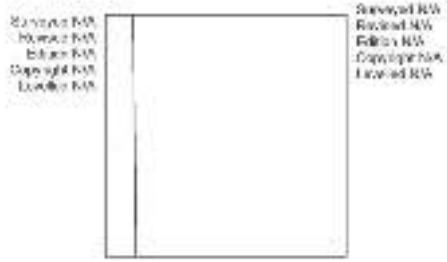
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1850**
Scale: 1:10,560
Printed at: 1:10,560





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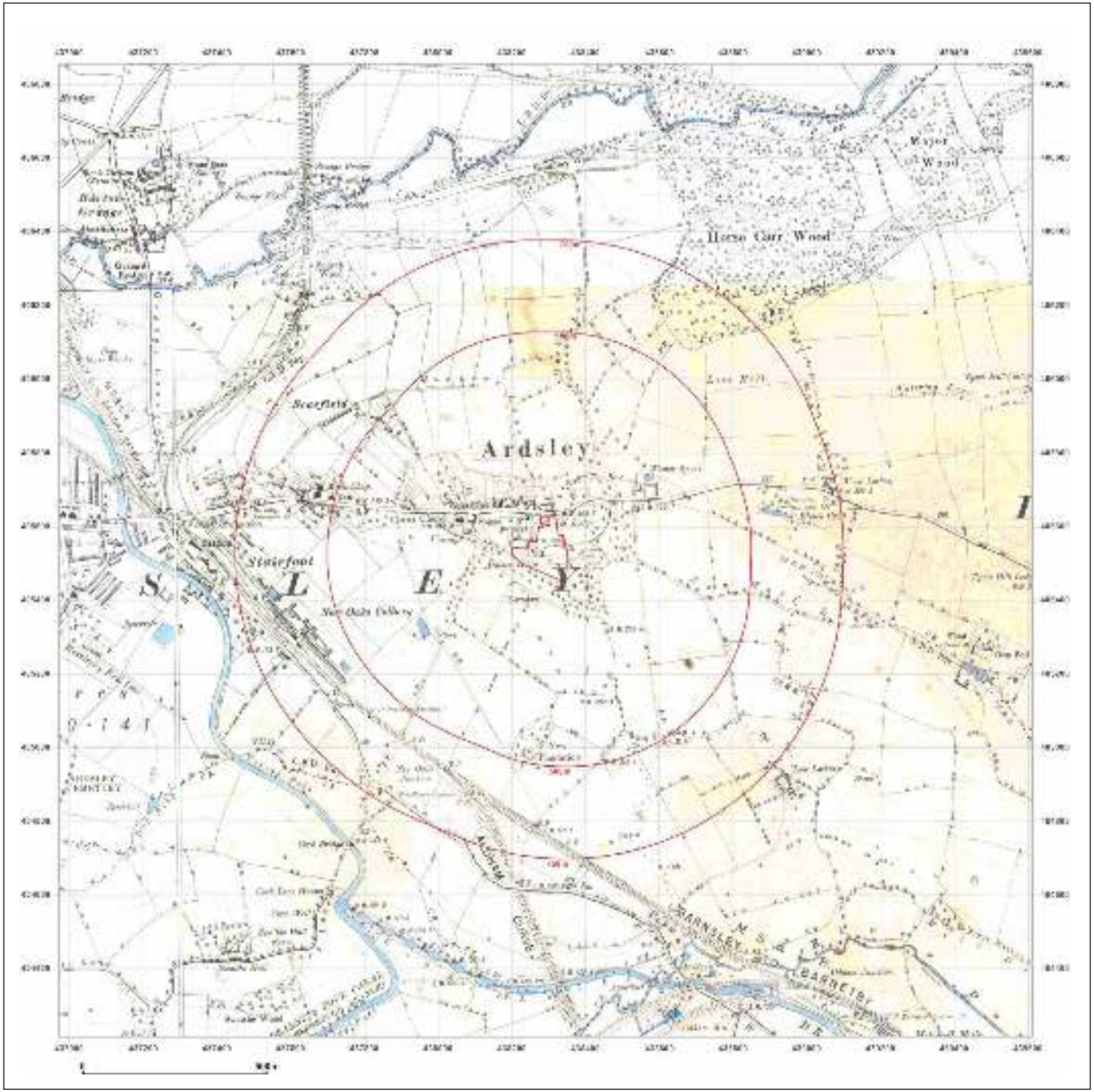
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Production date: 24 October 2014

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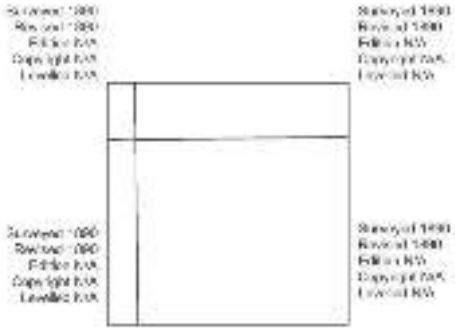


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1890**
Scale: 1:10,560
Printed at: 1:10,560



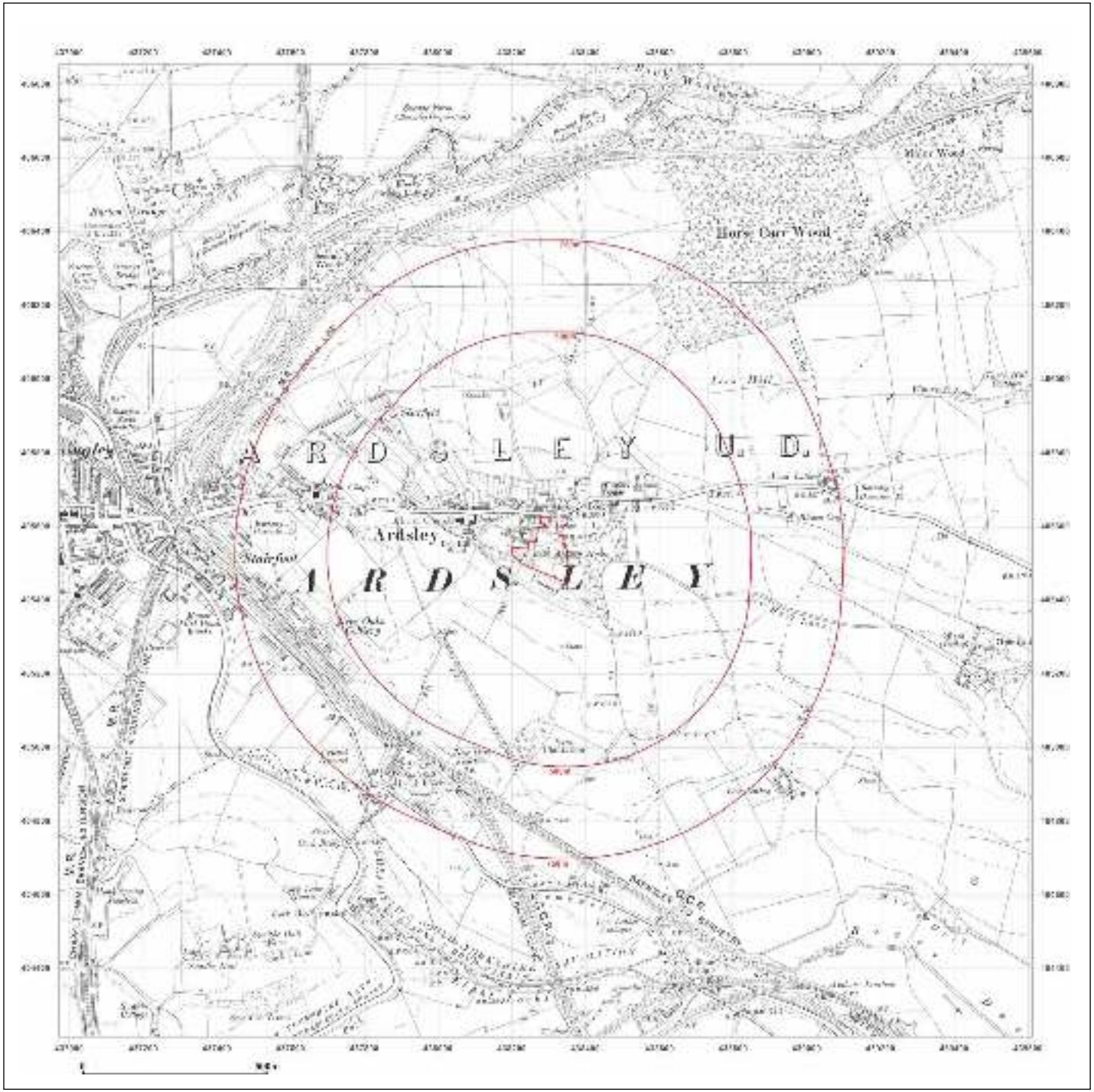
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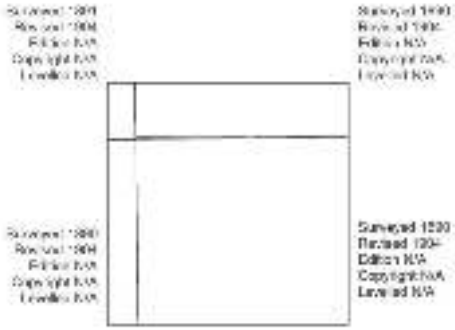


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: 1904
Scale: 1:10,560
Printed at: 1:10,560



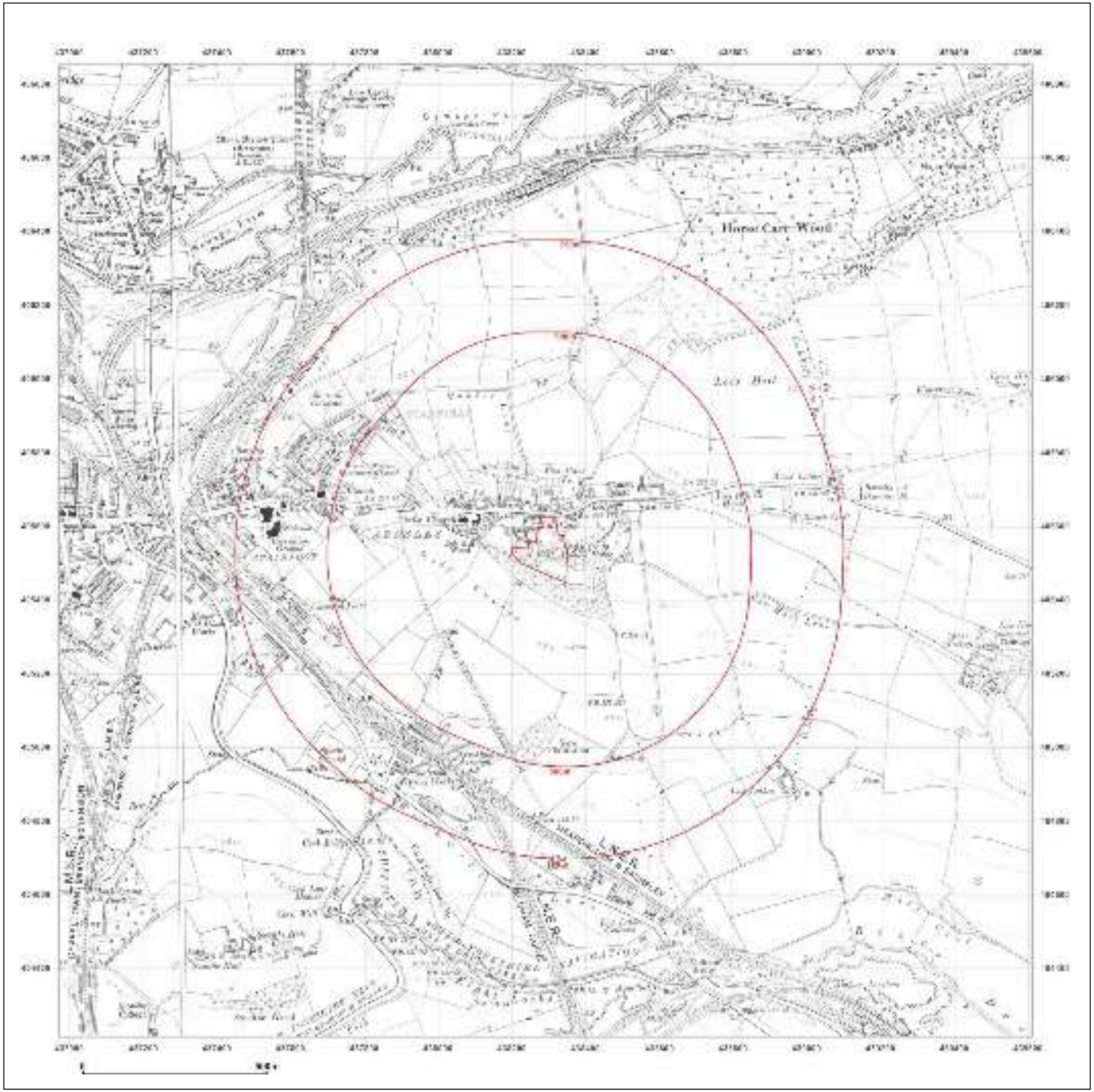
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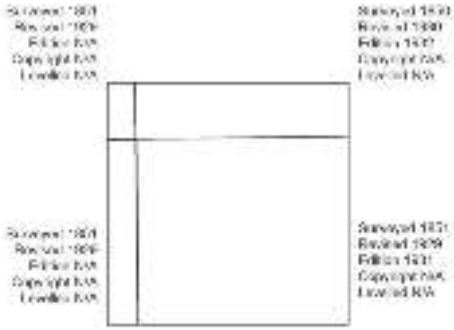


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1929-1932**
Scale: 1:10,560
Printed at: 1:10,560



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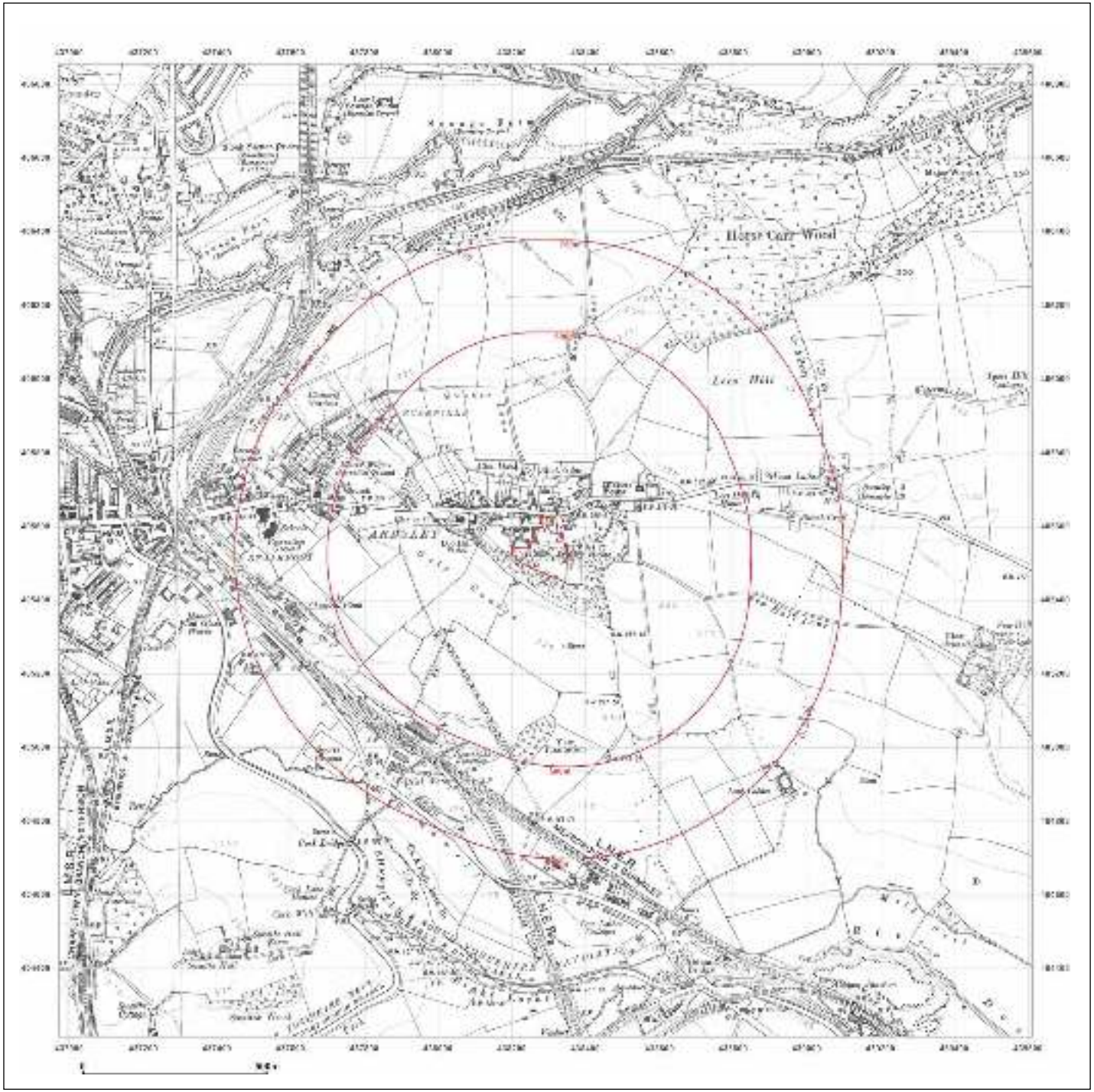
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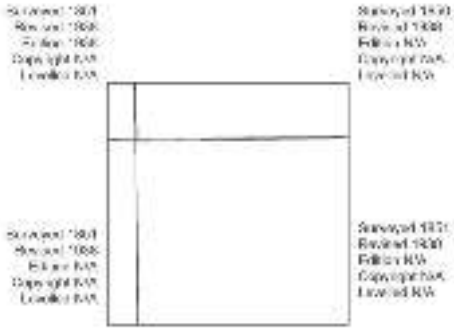


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560



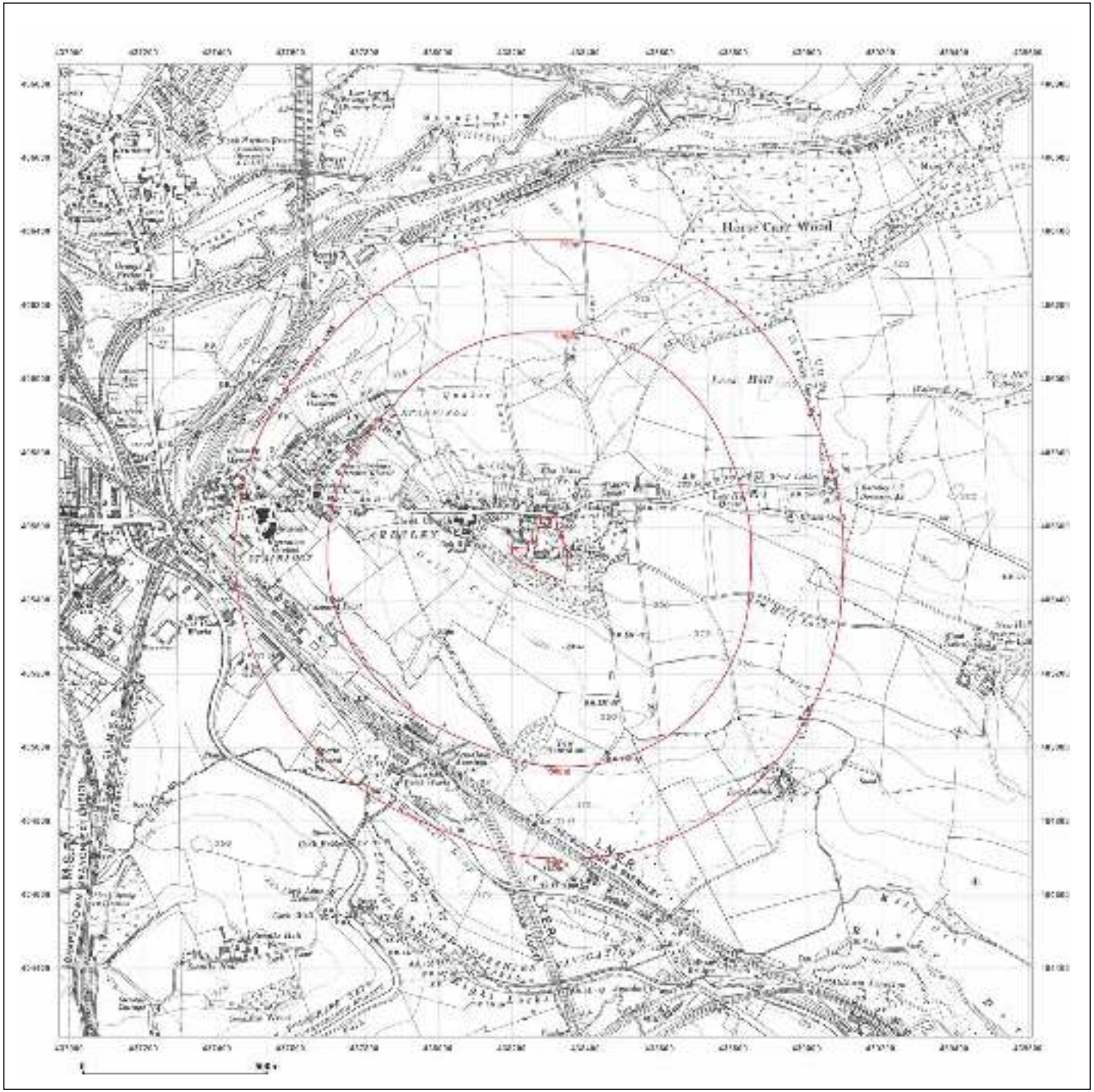
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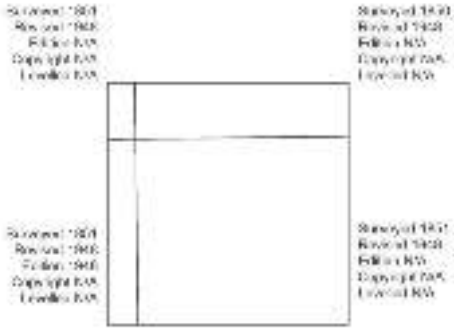


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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: County Series
Map date: **1948**
Scale: 1:10,560
Printed at: 1:10,560



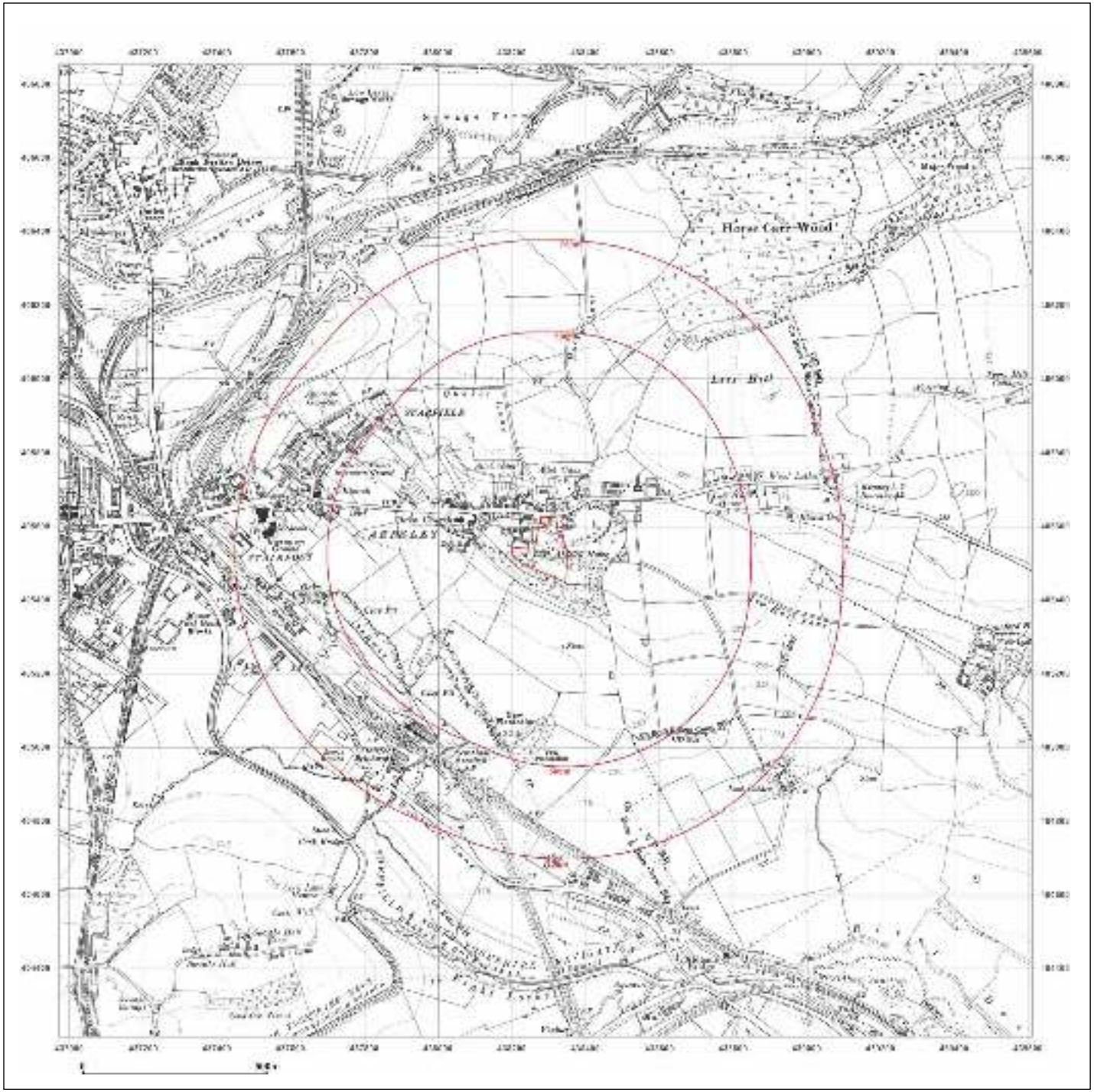
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: Provisional
Map date: **1951**
Scale: 1:10,560
Printed at: 1:10,560



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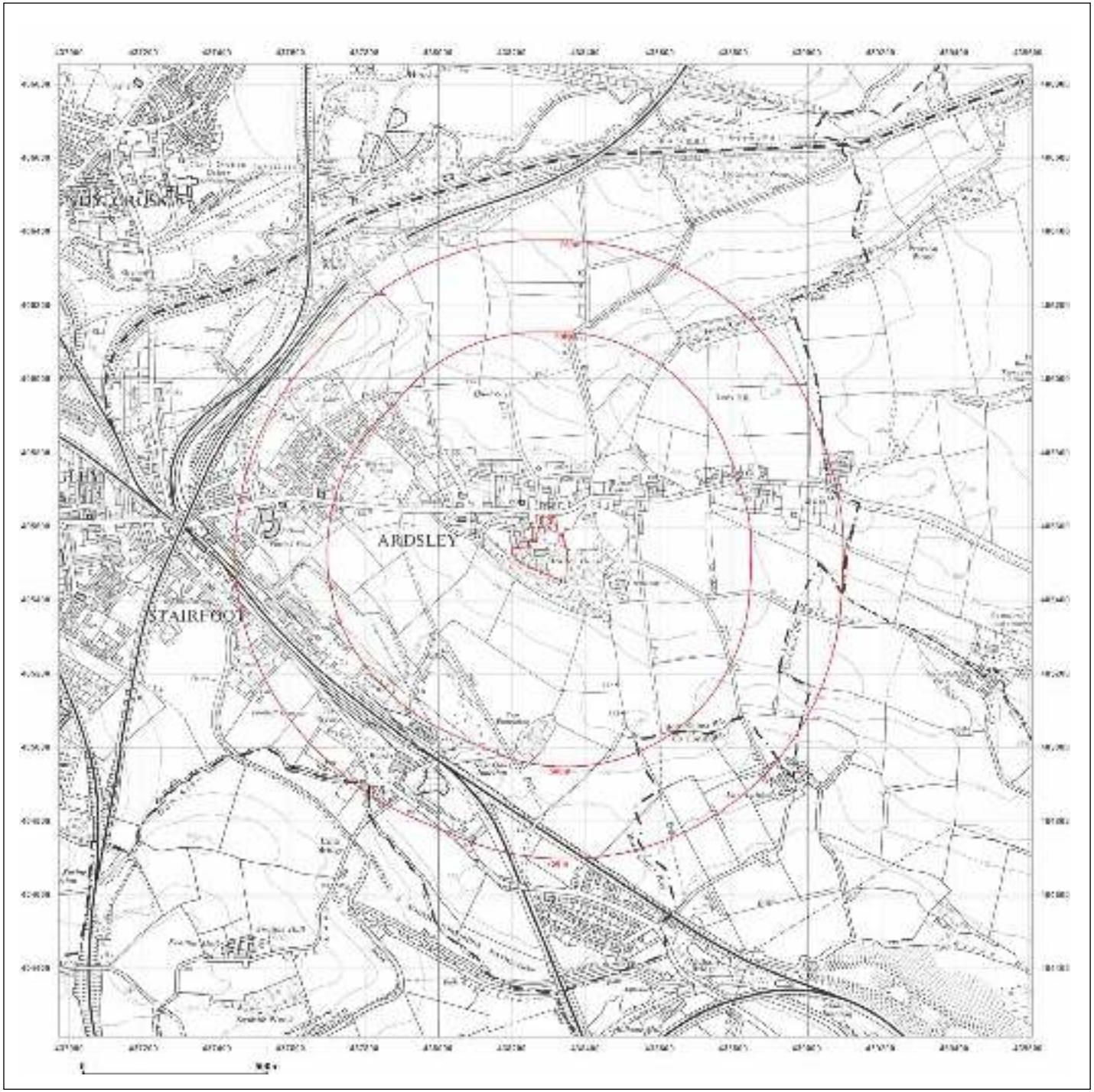
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: Provisional
Map date: **1966**
Scale: 1:10,560
Printed at: 1:10,560



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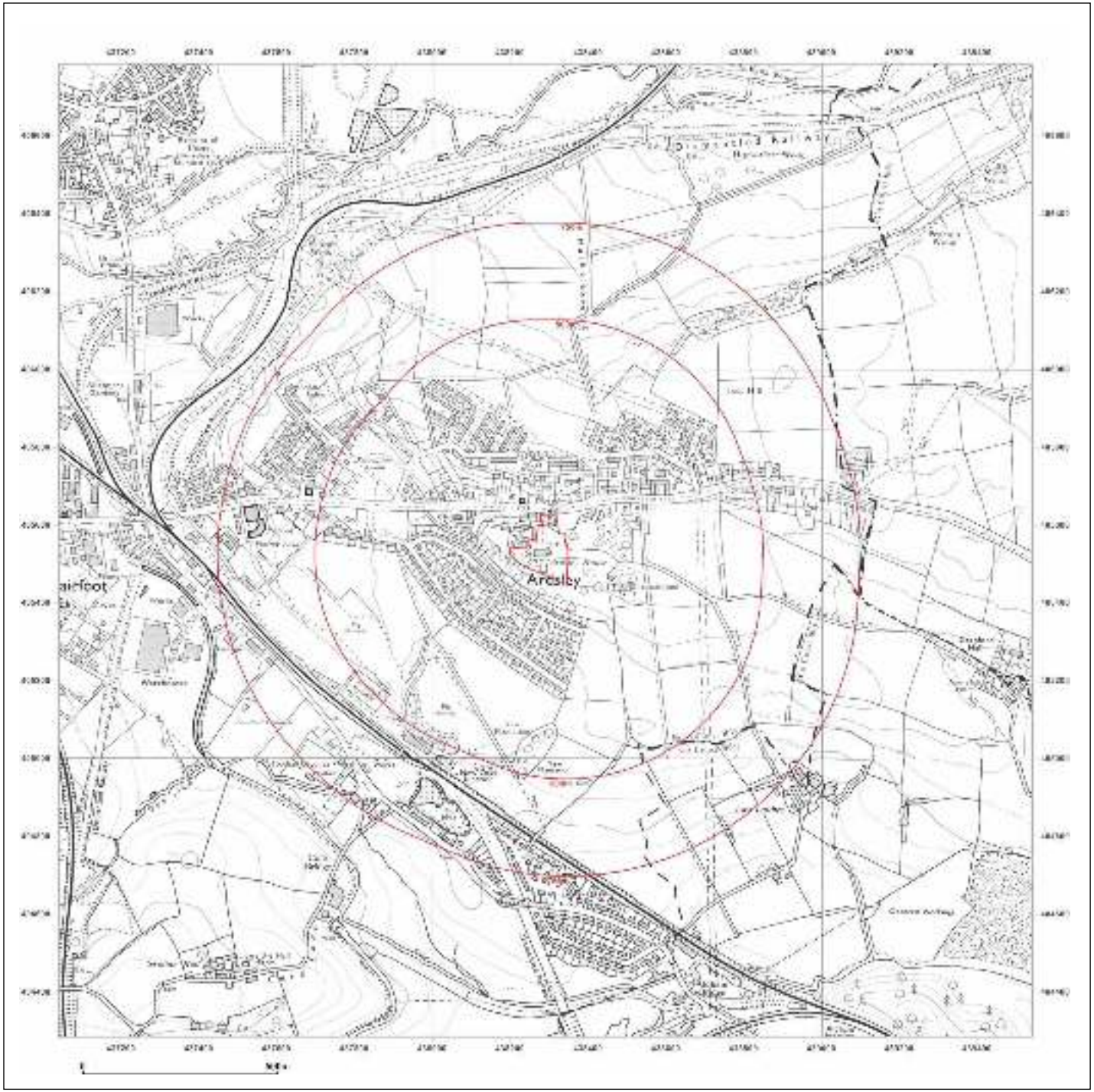
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **1974-1977**
Scale: 1:10,000
Printed at: 1:10,000



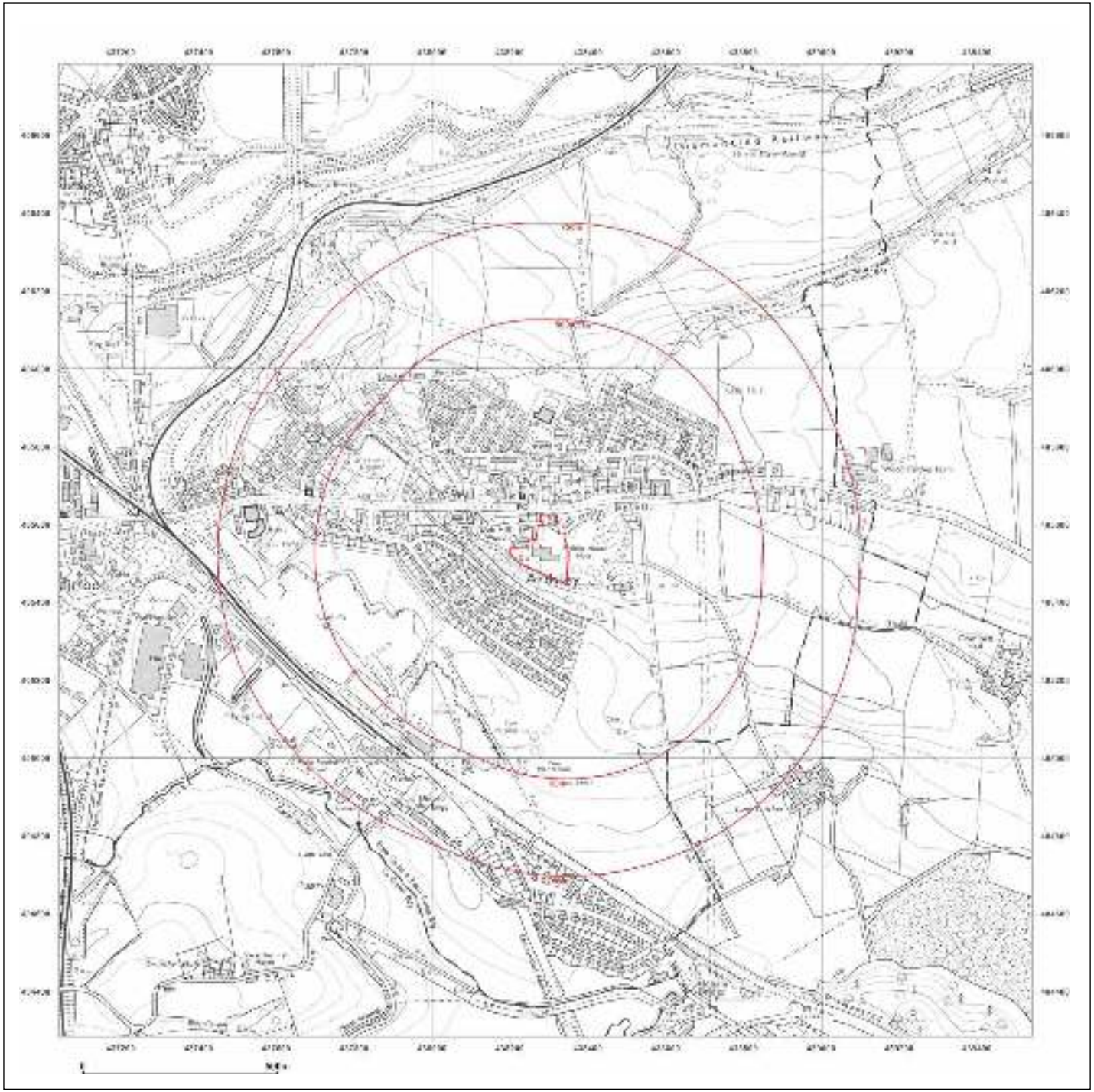
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid

Map date: **1982-1987**

Scale: 1:10,000

Printed at: 1:10,000



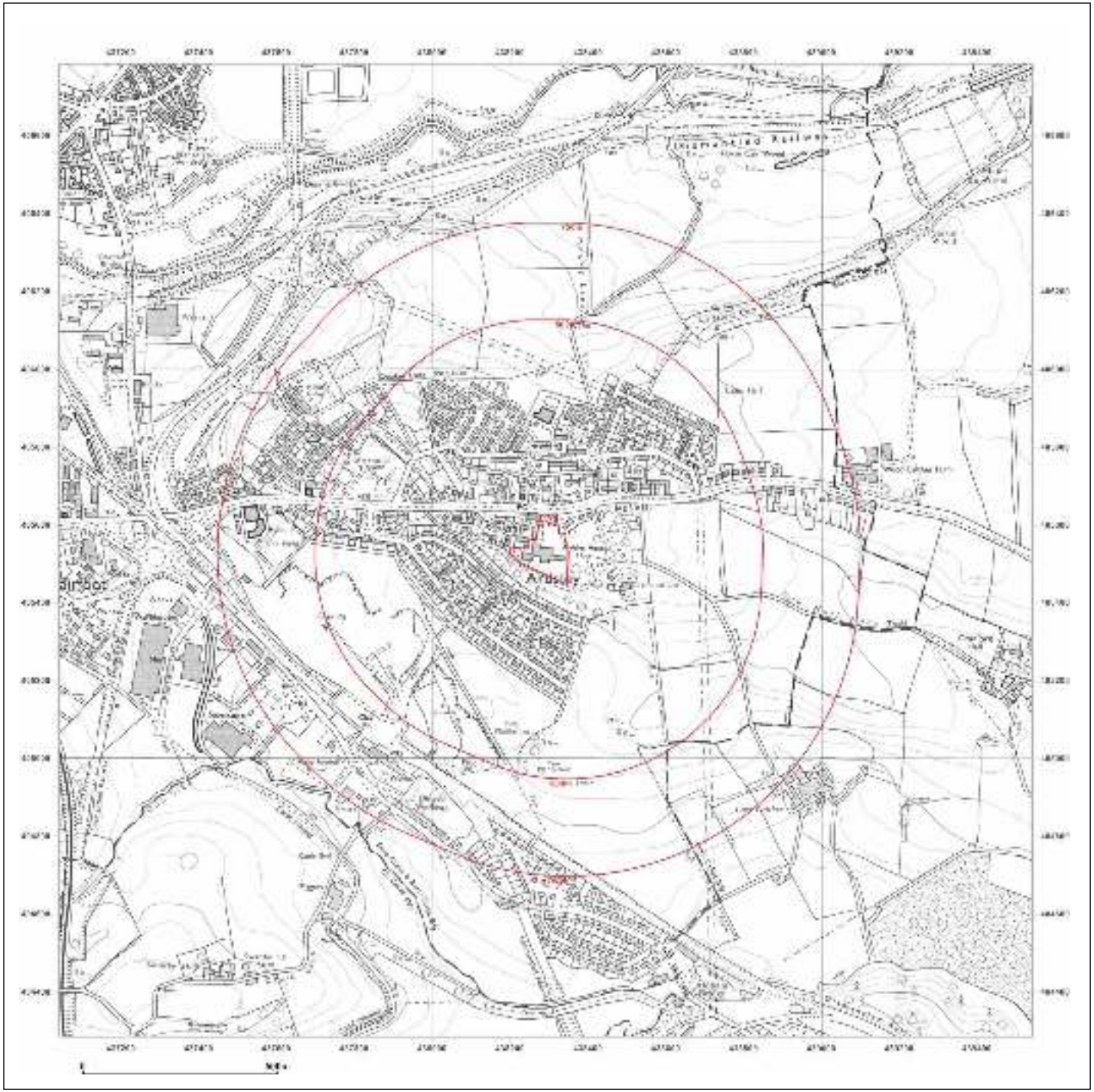
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:10,000

Printed at: 1:10,000



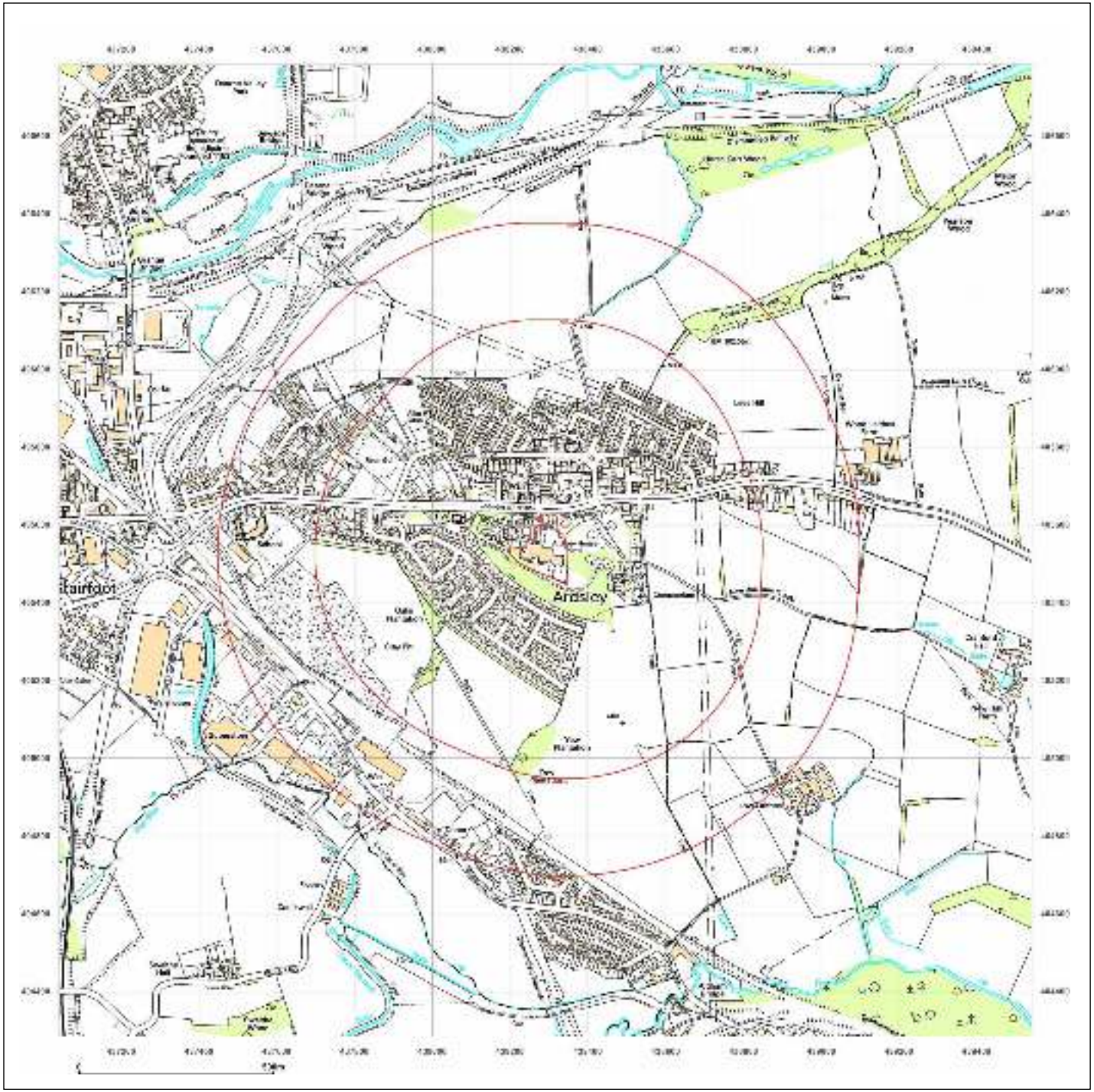
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: 1:10,000 Raster
Map date: **2002**
Scale: 1:10,000
Printed at: 1:10,000





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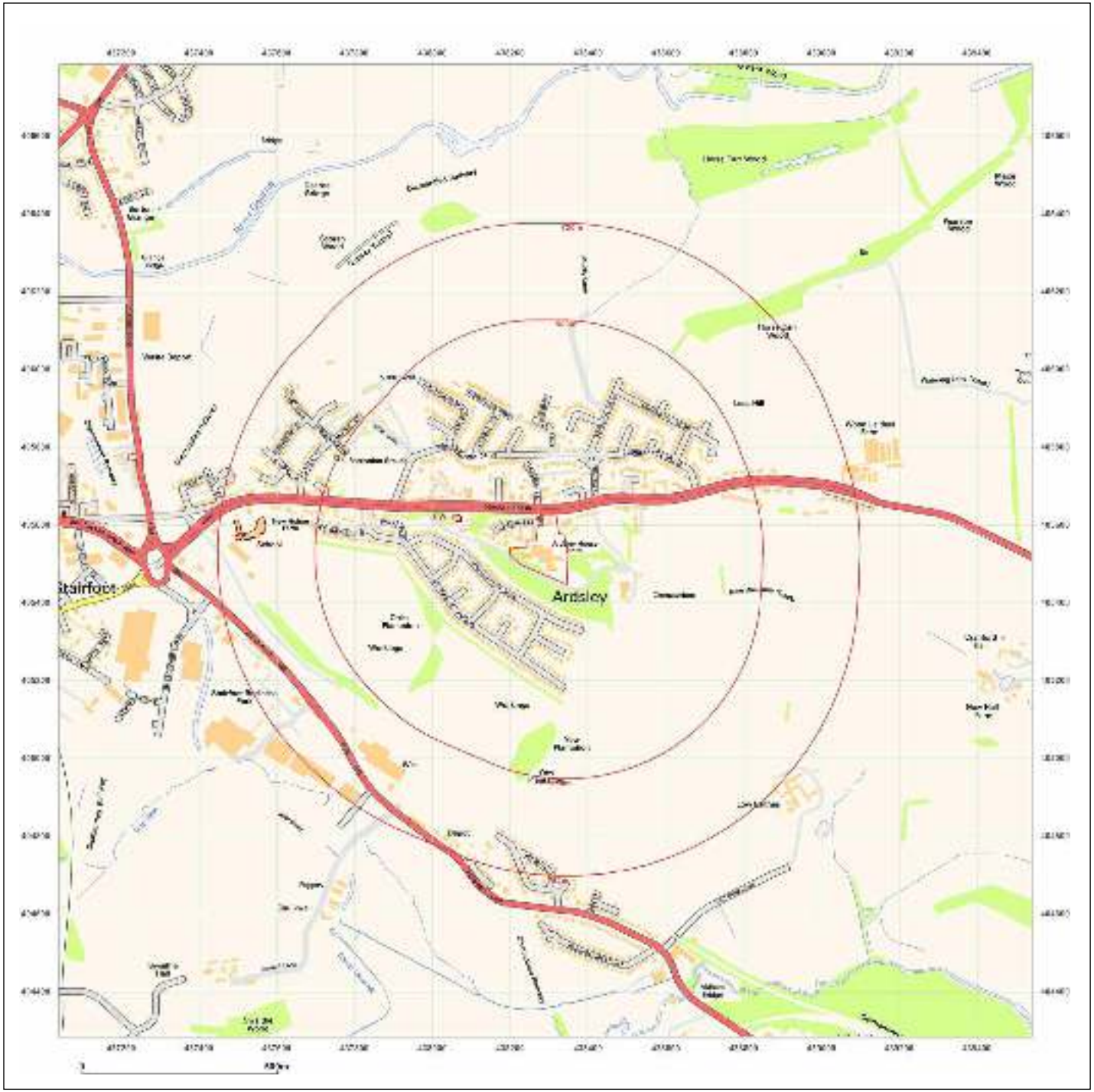
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Site Details:

Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000



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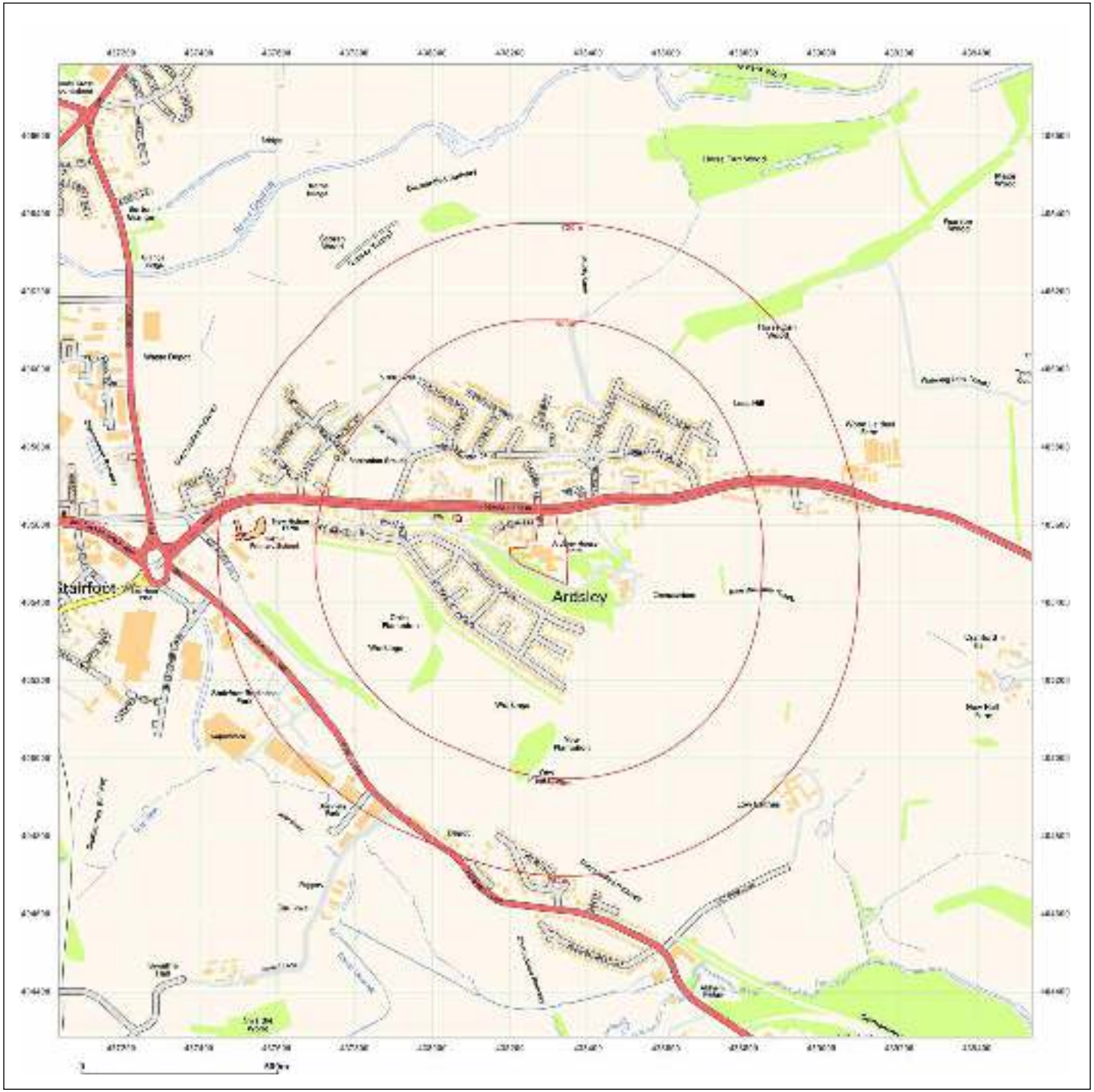
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Client Ref: EMS_273239_368424
Report Ref: EMS-273239_368424
Grid Ref: 438291, 405534

Map Name: National Grid
Map date: 2014
Scale: 1:10,000
Printed at: 1:10,000





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APPENDIX B

GroundSure EnviroInsight

Address:	,
Date:	**24 Oct 2014**
Reference:	**EMS-273239_368426**
Client:	**EmapSite**

NW N NE



W E

SW S SE

Aerial Photograph Capture date:	26-Mar-2012
Grid Reference:	438291,405534
Site Size:	1.45ha

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Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
1.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
1.1.1 Records of historic IPC Authorisations	0	0	0	0
1.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
1.1.3 Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0
1.1.4 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0
1.1.5 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
1.1.6 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
1.1.7 Records of Part A(2) and Part B Activities and Enforcements	0	0	1	0
1.1.8 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
1.1.9 Records of Licensed Discharge Consents	0	0	1	3
1.1.10 Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0
1.2 Records of COMAH and NIHHS sites	0	0	0	0
1.3 Environment Agency Recorded Pollution Incidents				
1.3.1 National Incidents Recording System, List 2	0	0	0	0
1.3.2 National Incidents Recording System, List 1	0	0	0	0
1.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 2: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-5000
2.1 Landfill Sites						
2.1.1 Environment Agency Registered Landfill Sites	0	0	0	1	0	Not searched
2.1.2 Environment Agency Historic Landfill Sites	0	0	0	5	4	5
2.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	1	0
2.1.4 GroundSure Local Authority Landfill Sites Data	0	0	0	2	0	1
2.2 Landfill and Other Waste Sites Findings						
2.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
2.2.2 Environment Agency Licensed Waste Sites	0	0	0	3	4	3

Section 3: Current Land Use

	On-site	0-50m	51-250	251-500
3.1 Current Industrial Sites Data	0	1	5	Not searched
3.2 Records of Petrol and Fuel Sites	0	0	0	0
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0

Section 4: Geology

4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	No
4.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	None
4.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 5: Hydrogeology and Hydrology

	0-500m
5.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	No
5.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
5.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	4	4
5.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
5.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
5.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
5.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
5.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	1	1	Not searched	Not searched

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
5.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	No	Yes
5.10 Detailed River Network entries within 500m of the site	0	0	0	0	Not searched	Not searched
5.11 Surface water features within 250m of the study site	No	No	No	Not searched	Not searched	Not searched

Section 6: Flooding

6.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	No
6.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site?	No
6.3 Are there any Flood Defences within 250m of the study site?	No
6.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
6.5 Are there any areas used for Flood Storage within 250m of the study site?	No
6.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Limited potential
6.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Low

Section 7: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	1	0
7.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
7.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
7.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
7.5 Records of Ramsar sites	0	0	0	0	0	0
7.6 Records of Ancient Woodlands	0	0	0	0	2	4
7.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
7.8 Records of World Heritage Sites	0	0	0	0	0	0
7.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
7.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
7.11 Records of National Parks	0	0	0	0	0	0
7.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
7.13 Records of Nitrate Vulnerable Zones	1	0	0	0	0	1

Section 8: Natural Hazards

8.1 What is the maximum risk of natural ground subsidence?	Very Low
8.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Negligible
8.1.2 What is the maximum Landslides hazard rating identified on the study site?	Very Low
8.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Negligible
8.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Negligible
8.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
8.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Negligible

Section 9: Mining

9.1 Are there any coal mining areas within 75m of the study site?	Yes
9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?	Low-Moderate
9.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

1. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

2. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

3. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

4. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

5. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

6. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

7. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

8. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence.

9. Mining

Provides information on areas of coal and shallow mining.

10. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

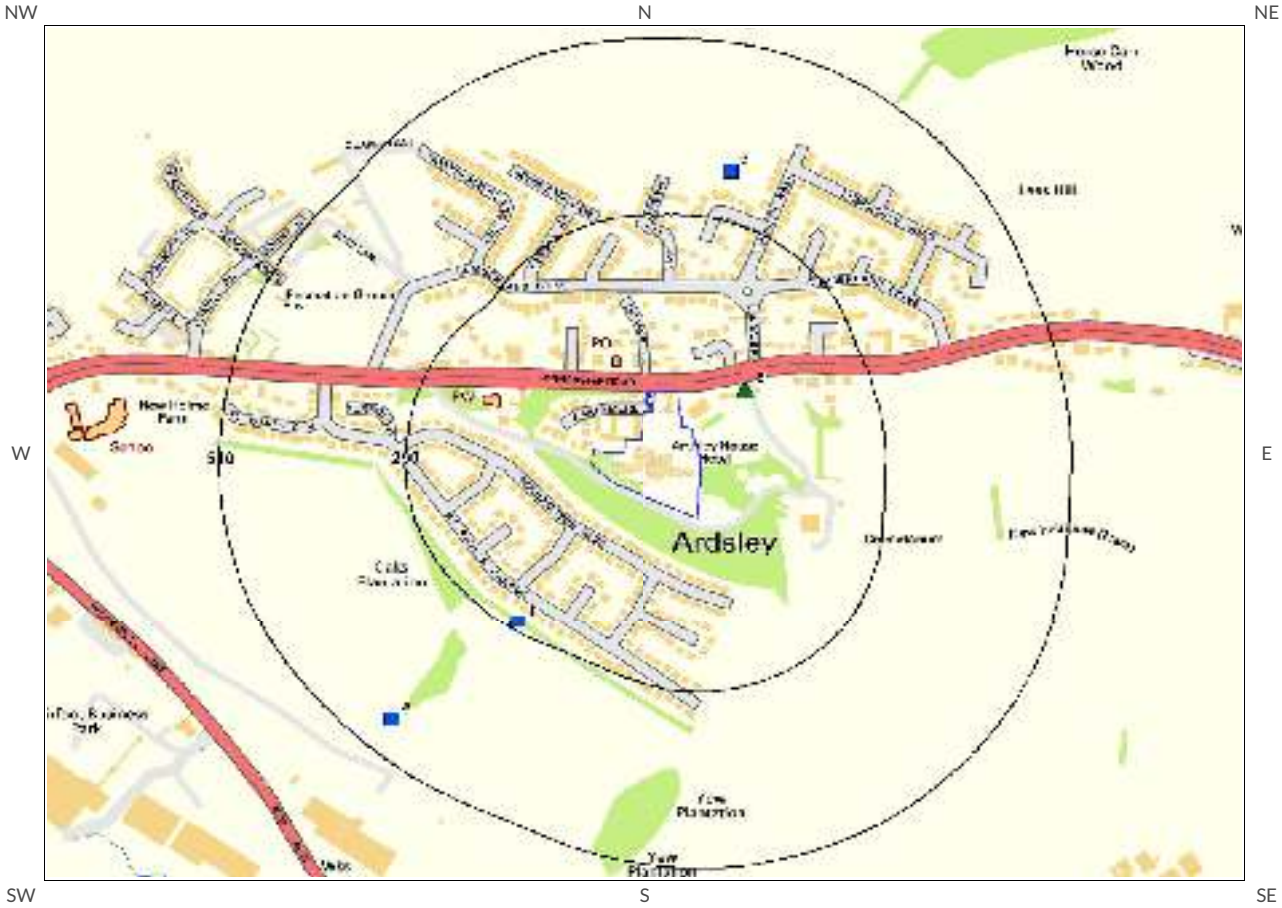
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Environmental Permits, Incidents and Registers Map



Environmental Permits, Incidents and Registers Legend

Mapping sourced from Ordnance Survey

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- Site Outline
- Search Buffers (m)
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements



1. Environmental Permits, Incidents and Registers

1.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

1.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

1.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

1.1.3 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

1.1.4 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

1.1.5 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.6 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.7 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance	Direction	NGR	Details	
5	88.0	NE	438409 405628	Address: Barnsley MBC Crematorium, Crematorium Lodge, Doncaster Road, Barnsley, S71 5EH Process: Crematoria Process Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

1.1.8 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

1.1.9 Records of Licensed Discharge Consents within 500m of the study site:

4

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance	Direction	NGR	Details	
1	236.0	SW	438100 405300	Address: St Pauls Parade Sewage Pumping Stn, Ardsley, Barnsley Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: C4870 Permit Version: 1	Receiving Water: Tributary Of Dob Dyke Status: Transferred From Copa 1974 Issue date: - Effective Date: - Revocation Date: 7/3/2002
2	319.0	N	438390 405940	Address: Penrhyn Walk Pumping Station, Ardsley, Barnsley, South Yorkshire, England Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: WRA7674 Permit Version: 1	Receiving Water: Tributary Of River Dearne Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 6/3/2001 Effective Date: 6/3/2001 Revocation Date: -
3A	450.0	SW	437930 405160	Address: St Pauls Parade Sewage Pumping Stn, Ardsley, Barnsley Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: C4870 Permit Version: 2	Receiving Water: Tributary Of Dob Dyke Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 8/3/2002 Effective Date: 8/3/2002 Revocation Date: 31/3/2005

ID	Distance	Direction	NGR	Details	
4A	450.0	SW	437930 405160	Address: St Pauls Parade Sewage Pumping Stn, Ardsley, Barnsley Effluent Type: Sewage Discharges - Pumping Station - Water Company Permit Number: C4870 Permit Version: 3	Receiving Water: Tributary Of Dob Dyke Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 8/3/2002 Effective Date: 1/4/2005 Revocation Date: -

1.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site: 0

Database searched and no data found.

1.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

1.3 Environment Agency Recorded Pollution Incidents

1.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site: 0

Database searched and no data found.

1.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site: 0

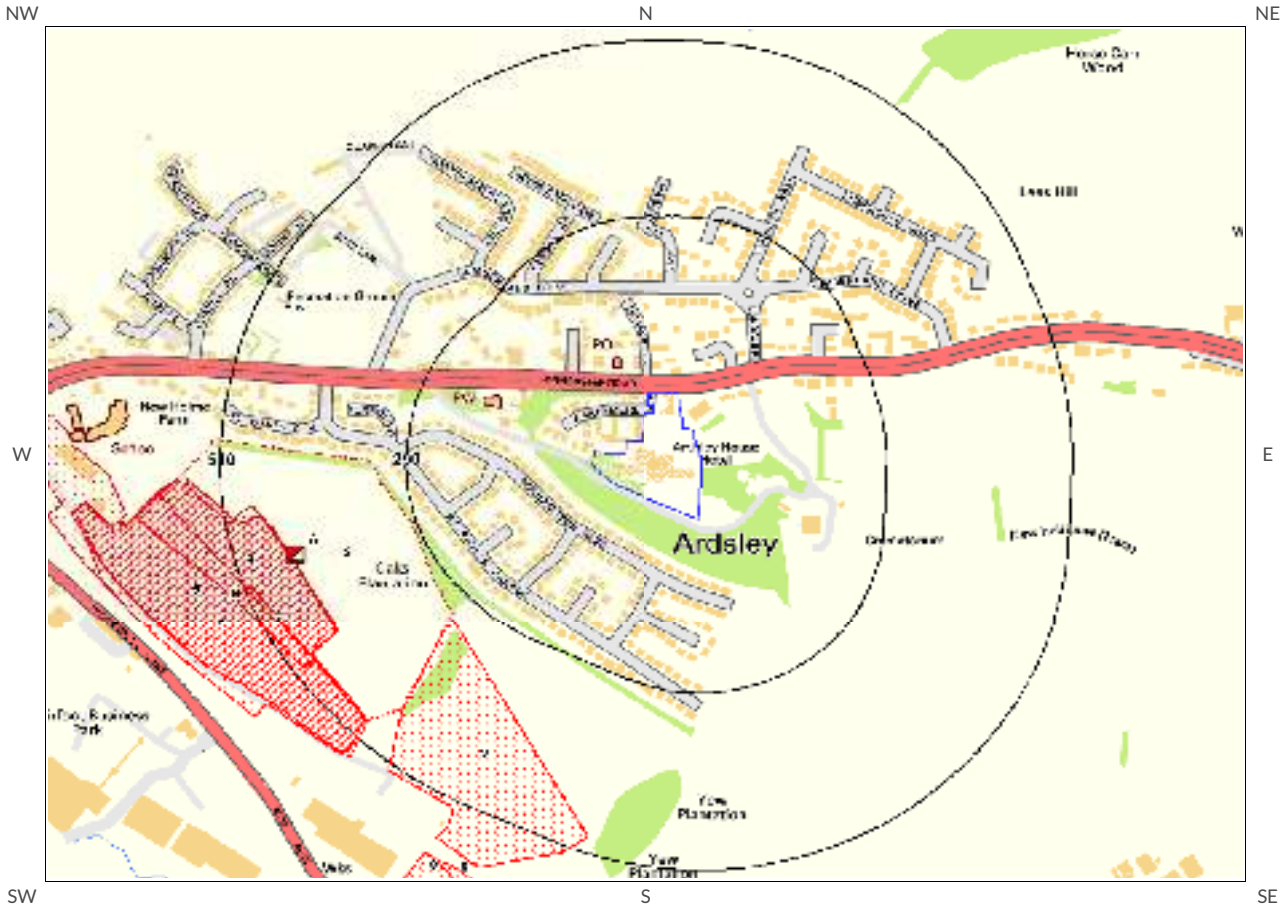
Database searched and no data found.

1.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

2. Landfill and Other Waste Sites Map



Landfill and Other Waste Sites Legend

Mapping sourced from Ordnance Survey

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2. Landfill and Other Waste Sites

2.1 Landfill Sites

2.1.1 Records from Environment Agency landfill data within 1000m of the study site:

1

The following Environment Agency landfill records are represented as polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
2	255.0	W	437800 405400	Address: Stairfoot North Quarry, Wombwell Lane, Stairfoot, Barnsley, South Yorkshire, S71 5BZ Landfill Reference: 60588.0 Environmental Permitting Regulations (Waste) Reference: BDR002 Landfill Type: A4 : Household, Commercial & Industrial Waste Landfill	Operator: B D R Waste Disposal Ltd Status: Issued IPPC Reference: EPR Reference:

2.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

14

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
3	289.0	SW	438000 405000	Site Address: Stairfoot Quarry No.2, Wombwell Lane, Stairfoot, Barnsley Waste Licence: Yes Site Reference: WD2 S9, WD2 B6, 2B6(2), 4400/B6 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 07-Apr-1982 Licence Surrendered: 31-Dec-1987 Licence Hold Address: - Operator: Barnsley Metropolitan Borough Council
4	417.0	SW	437700 405300	Site Address: Stairfoot North Quarry Phase 2, Wombwell Lane, Stairfoot, Barnsley Waste Licence: Yes Site Reference: WD20 B297, WD20 B772, 4400/B297, 20B297 Waste Type: Inert, Industrial, Commercial, Household, Special, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 29-Jul-1980 Licence Surrendered: 30-Apr-1988 Licence Hold Address: Wombwell Lane, Stairfoot, Barnsley Operator: -

ID	Distance (m)	Direction	NGR	Details	
5	468.0	SW	437600 405300	Site Address: Stairfoot Landfill Site, Stairfoot (North Quarry), Stairfoot, Barnsley Waste Licence: Yes Site Reference: WD2 B20, 4400/B20, WD2 S10, WD20 B772 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 03-Dec-1986 Licence Surrendered: 31-Dec-1990 Licence Hold Address: Cleansing Division, Smithies Lane, Barnsley Operator: Barnsley Metropolitan Borough Council
6	468.0	SW	437600 405200	Site Address: Stairfoot Brickworks, North Quarry Phase 2, Wombwell Lane, Stairfoot Waste Licence: Yes Site Reference: 4400/B266, 20B266, 20B772, WD2 B21, CD2, WD20 B772 Waste Type: Industrial, Commercial, Household, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Jul-1991 Licence Surrendered: Licence Hold Address: Public Services Department, Cleansing Division, Smithies Lane, Barnsley Operator: -
7	468.0	SW	437700 405200	Site Address: Stairfoot Quarry, Wombwell Lane, Stairfoot, Barnsley Waste Licence: Yes Site Reference: 4400/B266, WD20 B266 Waste Type: Commercial, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 04-Oct-1979 Licence Surrendered: 27-Aug-1980 Licence Hold Address: Wombwell Lane, Stairfoot, Barnsley Operator: -
8	584.0	SW	438000 404800	Site Address: Stairfoot Brickworks Quarry, Wombwell Lane, Stairfoot, Barnsley Waste Licence: Yes Site Reference: 2B9, 4400/B9, WD2 B9, WD255 Waste Type: Inert, Industrial, Commercial, Household, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Jan-1978 Licence Surrendered: 31-Dec-1982 Licence Hold Address: - Operator: Yorkshire Brick Company
9	586.0	SW	438100 404700	Site Address: Disused railway cutting to the rear of 39 Wombell Lane, Stairfoot, Barnsley Waste Licence: Yes Site Reference: 4400/B430, WD20 B430 Waste Type: Inert, Commercial, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 16-May-1984 Licence Surrendered: 29-May-1991 Licence Hold Address: 38 Wombwell Lane, Stairfoot, Barnsley Operator: William Gosney Limited
Not shown	958.0	NW	437400 406200	Site Address: Railway Embankment, Grange Lane, Barnsley Waste Licence: Yes Site Reference: 20B521(24), 4400/B521, WD20 B521 Waste Type: Inert, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 13-Jun-1986 Licence Surrendered: 21-Feb-1992 Licence Hold Address: Twibell Street, Barnsley Operator: M White and A Peace
Not shown	973.0	W	437200 405500	Site Address: Disused Canal - Doncaster Road, Stairfoot, Barnsley Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: -
Not shown	1210.0	W	436900 405700	Site Address: School Street, Stairfoot, Barnsley Waste Licence: Yes Site Reference: WD20 B205, 4400/B205, 20B205(73) Waste Type: Inert, Commercial, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 28-Nov-1977 Licence Surrendered: 27-Jan-1984 Licence Hold Address: School Street, Stairfoot, Barnsley Operator: Wilde and Hardy

ID	Distance (m)	Direction	NGR	Details	
Not shown	1221.0	NW	437100 406300	Site Address: Land adjacent to Priory Corn Mill, Grange Lane, Cundy Cross, Barnsley Waste Licence: Yes Site Reference: WD20 B478, 4400/B478, 20B478(50) Waste Type: Inert, Commercial, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 15-May-1985 Licence Surrendered: 15-May-1992 Licence Hold Address: Department of Architecture and Planning, Regent Street, Barnsley Operator: Barnsley Metropolitan Borough Council
Not shown	1304.0	SW	437400 403900	Site Address: C E Medlam, Swaithe House Farm, Worsbrough Dale, Barnsley, South Yorkshire Waste Licence: Yes Site Reference: WD20 B89, 60599, NE4239 Waste Type: Inert, Industrial, Commercial, Household, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 28-Feb-1979 Licence Surrendered: 31-Dec-1990 Licence Hold Address: - Operator: Mr C E Medlam
Not shown	1344.0	NW	436800 406100	Site Address: Beatson Clark and Company Limited, Hoyle Mill Road, Stairfoot, Barnsley Waste Licence: Yes Site Reference: WD20 B7, 4400/B7, 20B7(60) Waste Type: Inert, Industrial, Special, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Nov-1977 Licence Surrendered: 08-Jan-1985 Licence Hold Address: Hoyle Mill Road, Stairfoot, Barnsley Operator: Beaston Clark and Company Limited
Not shown	1449.0	SW	437500 403900	Site Address: Swaithe Tip, Warsborough Dale, Barnsley, Yorkshire Waste Licence: - Site Reference: - Waste Type: Commercial, Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: Worsbrough Urban District Council

2.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
Not shown	998.0	W	437200.0 405500.0	Address: Disused Canal, Doncaster Rd, Barnsley, Yorks BGS Number: 1891.0	Risk: No risk to aquifer Waste Type: N/A

2.1.4 Records of Local Authority landfill sites within 1500m of the study site:

3

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
27B	415.0	SW		Refuse Tip	1995 mapping	Polygon
28B	415.0	SW		Refuse Tip	1990 mapping	Polygon
Not shown	1306.0	W		Refuse Tip	1973 mapping	Polygon

2.2 Other Waste Sites

2.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

2.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

10

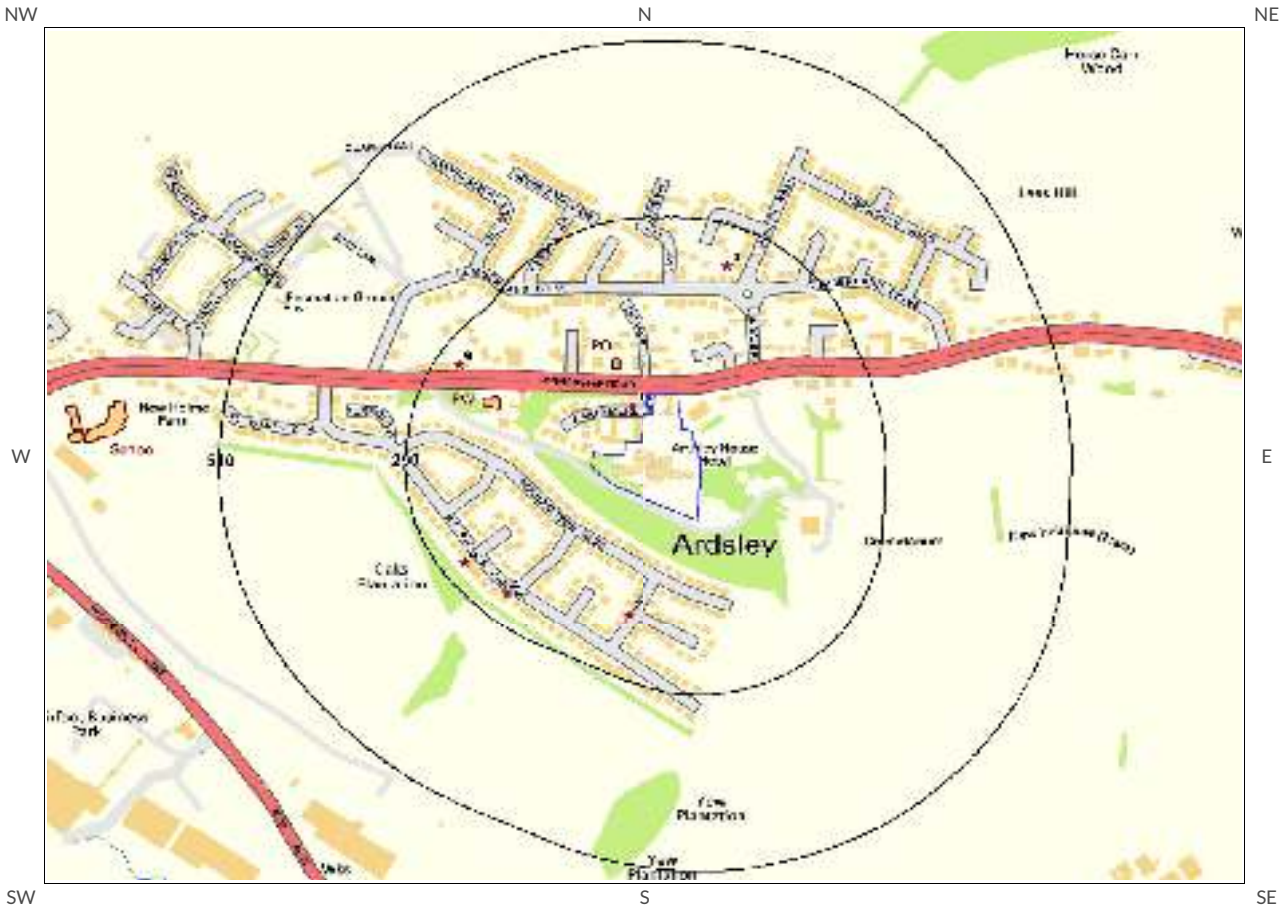
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
17A	418.0	W	437800 405400	Site Address: Stairfoot North Quarry, Wombwell Lane, Stairfoot, Barnsley, S Yorks Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR002 EPR reference: - Operator: B D R Waste Disposal Ltd Waste Management licence No: 60588 Annual Tonnage: 0.0	Issue Date: 17/07/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Stairfoot Landfill Correspondence Address: -, Thurcroft Heritage Centre, Thurcroft, Rotherham, South Yorks, S66 9AB
18A	418.0	W	437800 405400	Site Address: Stairfoot North Quarry, Wombwell Lane, Stairfoot, Barnsley, S Yorks Type: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR002 EPR reference: - Operator: B D R Waste Disposal Ltd Waste Management licence No: 60588 Annual Tonnage: 0.0	Issue Date: 17/07/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Stairfoot Landfill Correspondence Address: -, Thurcroft Heritage Centre, Thurcroft, Rotherham, South Yorks, S66 9AB
19A	418.0	W	437800 405400	Site Address: Stairfoot North Quarry, Wombwell Lane, Stairfoot, Barnsley, South Yorkshire, S71 5BZ Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR002 EPR reference: EA/EPR/YP3990ZT/A001 Operator: B D R Waste Disposal Ltd Waste Management licence No: 60588 Annual Tonnage: 5000.0	Issue Date: 17/07/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Stairfoot Landfill Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	775.0	W	437460 405290	Site Address: Land/premises At, Wombwell Lane, Stairfoot, Barnsley, South Yorkshire, S70 3NX Type: Metal Recycling Site (Vehicle Dismantler) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ARM002 EPR reference: EA/EPR/RP3098ZP/A001 Operator: Armitage Kathleen Waste Management licence No: 61967 Annual Tonnage: 4999.0	Issue Date: 24/09/1997 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: South Yorkshire Dismantlers Correspondence Address: -, -
Not shown	798.0	W	437400 405500	Site Address: Wombwell Lane, Stairfoot, Barnsley, South Yorkshire, S70 3NT Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WFS001 EPR reference: EA/EPR/RP3290ZC/A001 Operator: W F S Metals Ltd Waste Management licence No: 60568 Annual Tonnage: 548.0	Issue Date: 04/12/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: W F S Metals Ltd Correspondence Address: -, -
Not shown	974.0	NW	437400 406100	Site Address: Grange Lane Transfer Station, Grange Lane, Stairfoot, Barnsley, South Yorkshire, S71 5QQ Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR016 EPR reference: EA/EPR/TP3694ZX/A001 Operator: B D R Waste Disposal Ltd Waste Management licence No: 65004 Annual Tonnage: 75000.0	Issue Date: 24/12/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Grange Lane Transfer Station Correspondence Address: -, -
Not shown	974.0	NW	437400 406100	Site Address: Grange Lane Transfer Station, Grange Lane, Stairfoot, Barnsley, South Yorkshire, S71 5QQ Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDR016 EPR reference: EA/EPR/TP3694ZX/A001 Operator: B D R Waste Disposal Limited Waste Management licence No: 65004 Annual Tonnage: 75000.0	Issue Date: 24/12/1999 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Grange Lane Transfer Station Correspondence Address: -, -
Not shown	1204.0	N	438000 406800	Site Address: Lundwood Wwtw, Lund Lane, Barnsley, South Yorkshire, S71 5PA Type: Biological Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR039 EPR reference: EA/EPR/YP3392ZB/V003 Operator: Yorkshire Water Services Ltd Waste Management licence No: 65474 Annual Tonnage: 24999.0	Issue Date: 17/05/2006 Effective Date: - Modified: 22/04/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Lundwood Wwtw Correspondence Address: -, -
Not shown	1281.0	NW	437100 406200	Site Address: Land/premises At, Grange Lane, Barnsley, South Yorkshire, S71 5AD Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CSO001 EPR reference: RP3590ZA/A001 Operator: C Soar & Sons Waste Management licence No: 60565 Annual Tonnage: 25000.0	Issue Date: 08/05/1989 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: C Soar And Sons - Tank Row Works Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1281.0	NW	437100 406200	Site Address: Tank Row Works, Grange Lane, Barnsley, South Yorkshire, S71 5AD Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CSO004 EPR reference: EA/EPR/TP3396EG/V003 Operator: C Soar & Sons (U K) Ltd Waste Management licence No: 60565 Annual Tonnage: 25000.0	Issue Date: 08/05/1989 Effective Date: 02/03/2011 Modified: 06/03/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: C Soar And Sons - Tank Row Works Correspondence Address: -, -

3. Current Land Use Map



Current Land Use Legend

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3. Current Land Uses

3.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 6

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	22.0	NW	Electricity Sub Station	438253 405611	S71	Electrical Features	Infrastructure and Facilities
2	160.0	SW	Electricity Sub Station	438249 405315	S71	Electrical Features	Infrastructure and Facilities
3	193.0	N	Electricity Sub Station	438384 405810	S71	Electrical Features	Infrastructure and Facilities
4	210.0	SW	Electricity Sub Station	438084 405345	S71	Electrical Features	Infrastructure and Facilities
5	219.0	SW	Electricity Sub Station	438028 405389	S71	Electrical Features	Infrastructure and Facilities
6	220.0	NW	Trav-lynn	438019 405670	658, Doncaster Road, Barnsley, S71 5EF	Airlines and Airline Services	Transport, Storage and Delivery

3.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

3.3 Underground High Pressure Oil and Gas Pipelines

Records of high pressure underground pipelines within 500m of the study site: 0

Database searched and no data found.



4. Geology

4.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

4.2 Superficial Ground and Drift Geology

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

4.3 Bedrock and Solid Geology

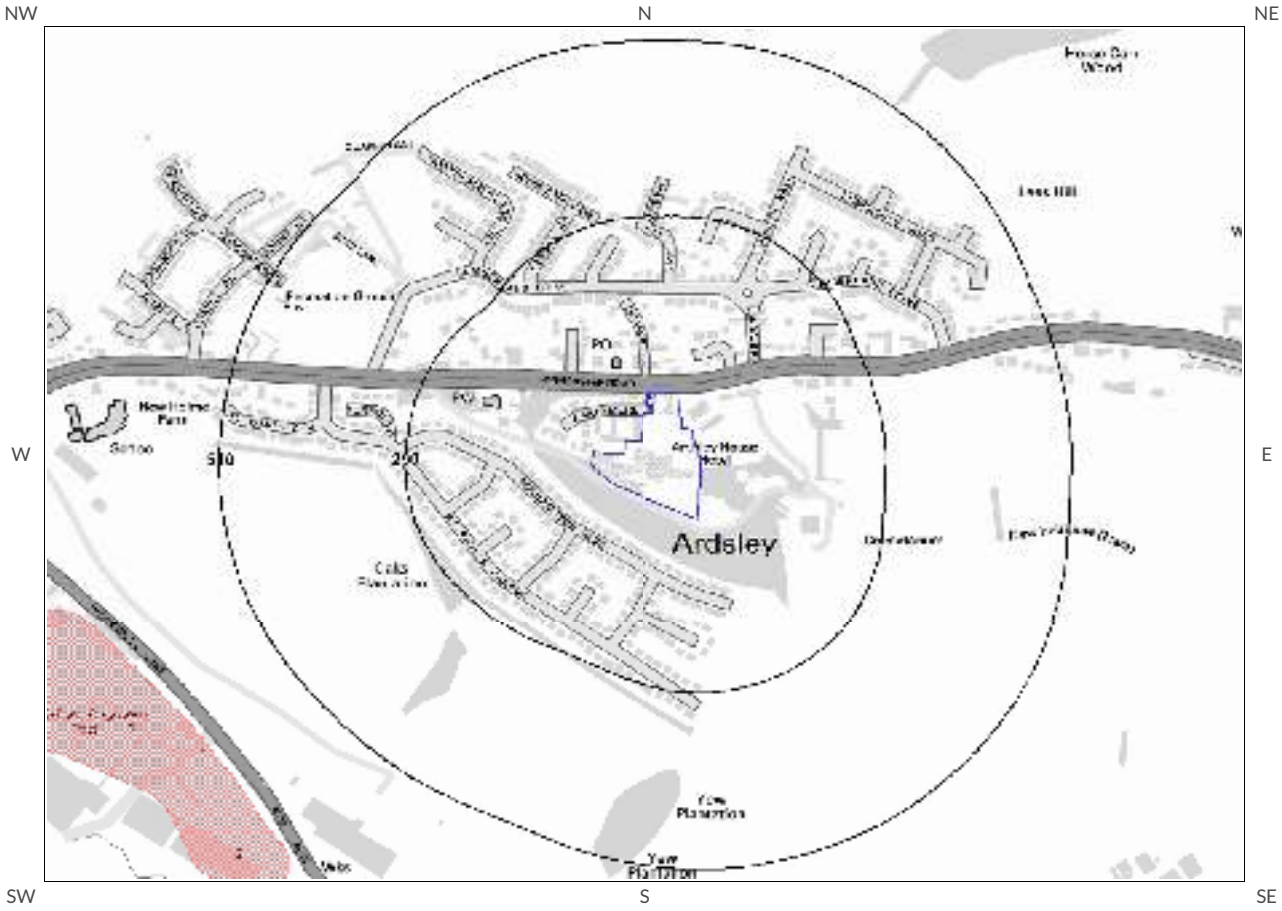
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
GH-SDST	GLASS HOUGHTON ROCK	SANDSTONE

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

5. Hydrogeology and Hydrology

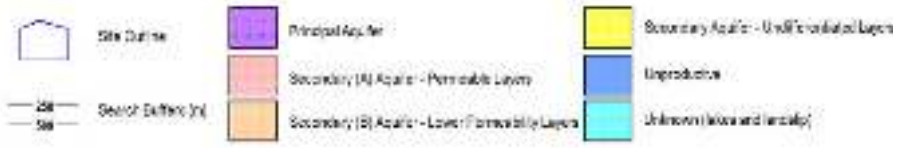
5a. Aquifer Within Superficial Geology



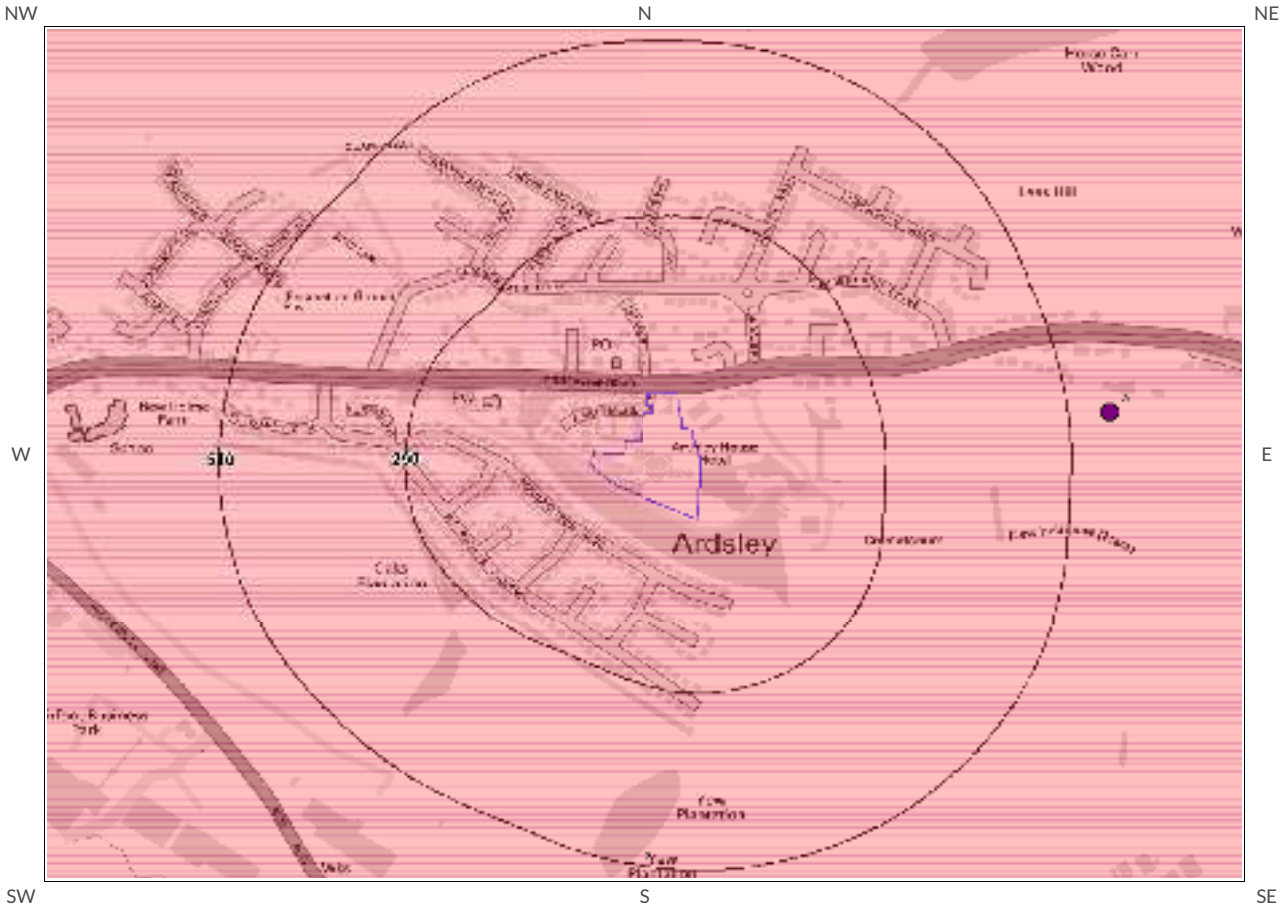
Aquifer Within Superficial Geology

Mapping sourced from Ordnance Survey

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5b. Aquifer Within Bedrock Geology and Abstraction Licenses



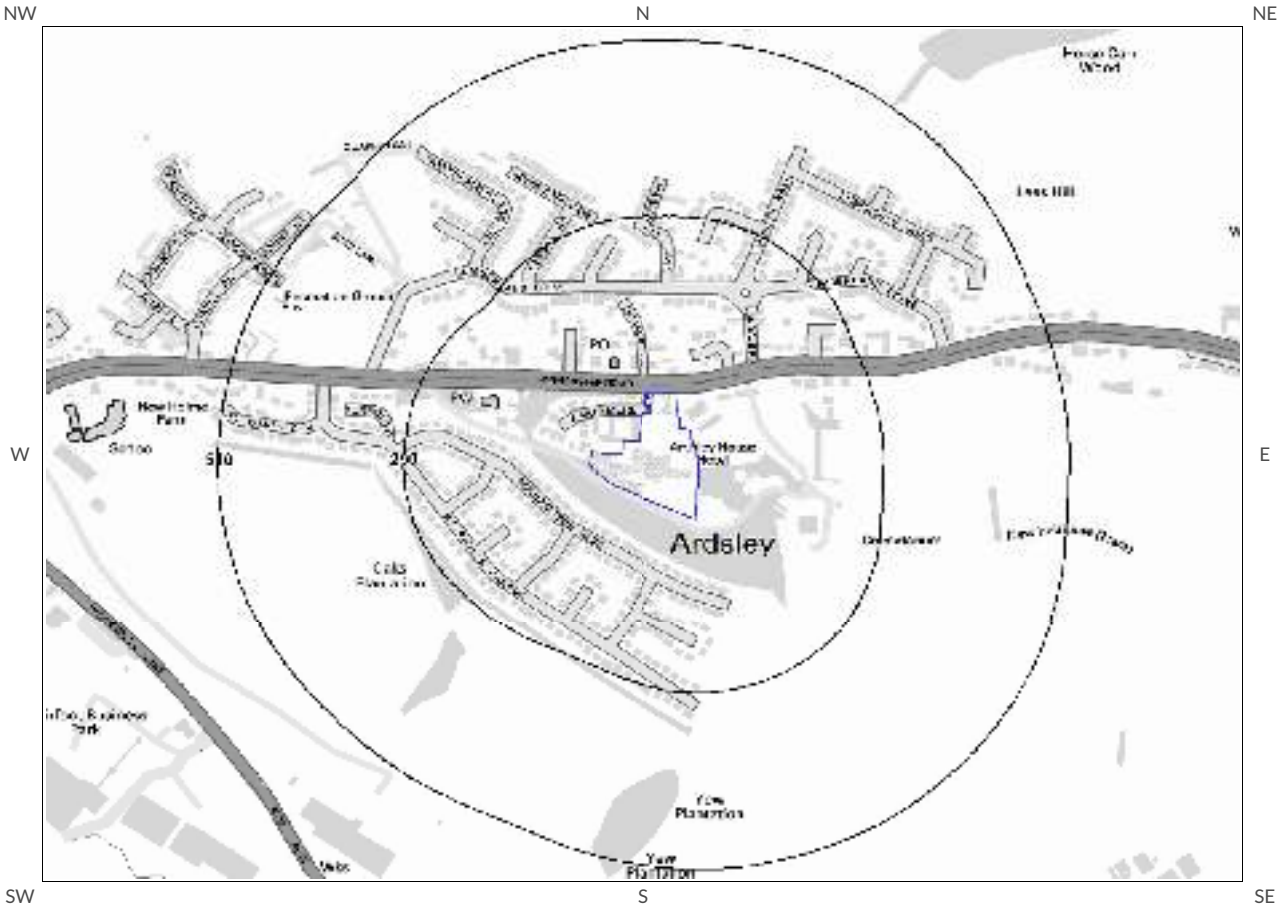
Aquifer Within Bedrock Geology and Abstraction Licenses

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5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



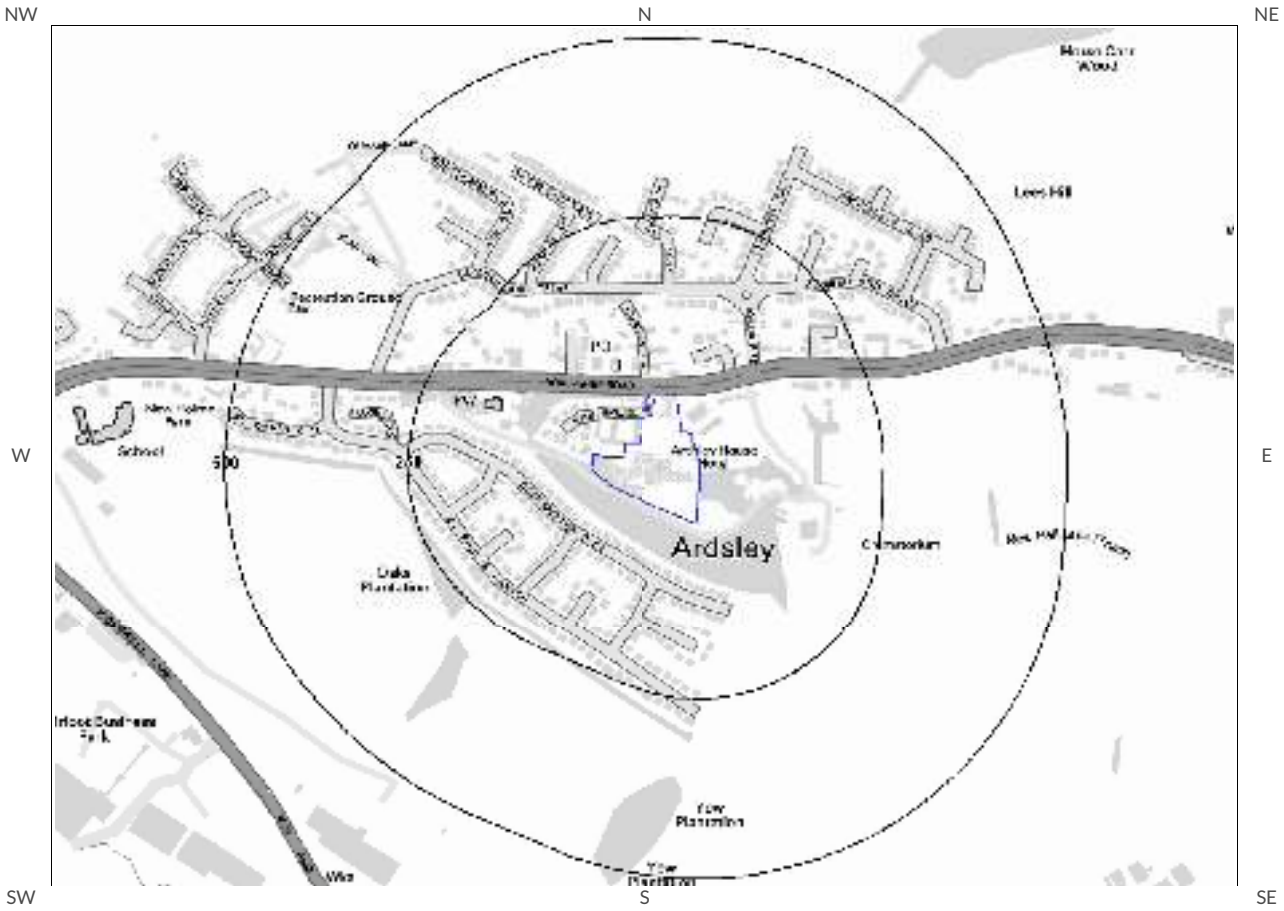
Map LegendSource Protection Zonesand PotableWater Abstraction Licenses

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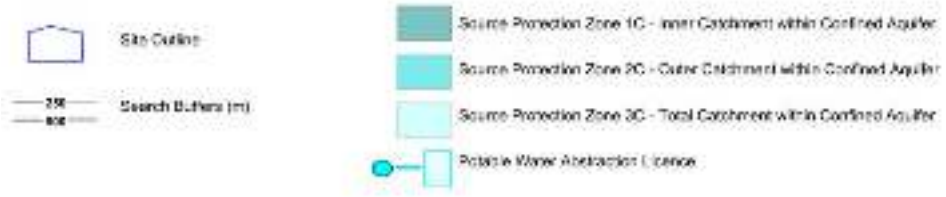
5d. Hydrology Source Protection Zones within confined aquifer



Hydrology Source Protection Zones

Mapping sourced from Ordnance Survey

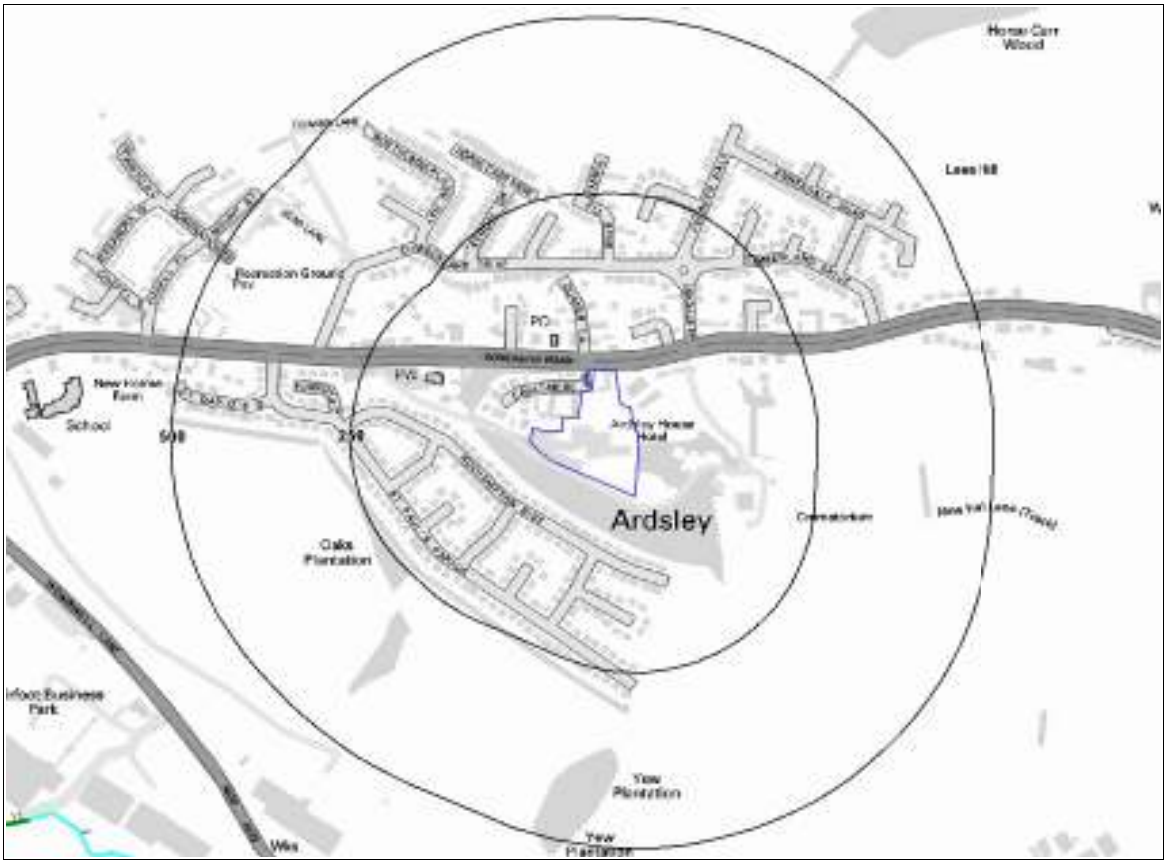
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5 e. Hydrology – Detailed River Network and River Quality

NW N NE

W E



SW S SE

Hydrology – Detailed River Network and River Quality

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5. Hydrogeology and Hydrology

5.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? No

Database searched and no data found.

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

5.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	Designation	Description
1	0.0	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	448.0	S	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

5.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	NGR	Details	
3A	554.0	E	438900 405600	Licence No: 2/27/08/029 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring No1 Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 01449 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1990 Version End Date:
4A	554.0	E	438900 405600	Licence No: 2/27/08/029 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring No1 - Low Laithes Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 01449 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1990 Version End Date:
Not shown	831.0	SE	439100 405100	Licence No: 2/27/08/029 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring No2 - Low Laithes Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 01449 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1990 Version End Date:
Not shown	831.0	SE	439100 405100	Licence No: 2/27/08/029 Details: General Farming & Domestic Direct Source: Groundwaters Point: Spring No2 Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 01449 Original Start Date: 20/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 9/1/1990 Version End Date:
Not shown	1203.0	NW	437150 406130	Licence No: 2/27/08/124 Details: General Washing/Process Washing Direct Source: Groundwaters Point: Well - Superficial Drift - Stairfoot Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 06925 Original Start Date: 14/7/1999 Expiry Date: - Issue No: 100 Version Start Date: 14/7/1999 Version End Date:
Not shown	1203.0	NW	437150 406130	Licence No: 2/27/08/124 Details: General Washing/Process Washing Direct Source: Groundwaters Point: Well - Superficial Drift - Stairfoot Data Type: Point	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: 6925 Original Start Date: 14/7/1999 Expiry Date: - Issue No: 100 Version Start Date: 14/7/1999 Version End Date:
Not shown	1537.0	NE	439584 406499	Licence No: NE/027/0008/011 Details: General Farming & Domestic Direct Source: Groundwaters Point: Borehole - Coal Measures - Tyers Hall - Barnsley Data Type: Point	Annual Volume (m^3): 30000 Max Daily Volume (m^3): 100 Original Application No: NPS/WR/010886 Original Start Date: 19/12/2012 Expiry Date: 31/3/2029 Issue No: 1 Version Start Date: 19/12/2012 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1537.0	NE	439584 406499	Licence No: NE/027/0008/011 Details: Heat Pump Direct Source: Groundwaters Point: Borehole - Coal Measures - Tyers Hall - Barnsley Data Type: Point	Annual Volume (m^3): 30000 Max Daily Volume (m^3): 100 Original Application No: NPS/WR/010886 Original Start Date: 19/12/2012 Expiry Date: 31/3/2029 Issue No: 1 Version Start Date: 19/12/2012 Version End Date:

5.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

5.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

5.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

5.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site?

No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

5.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
156	SE	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
265	N	Minor Aquifer/High Leaching Potential	H3	Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content.

5.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site? Yes

5.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (5d):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	1155.0	N	438507 406768	River Name: Dearne Reach: Lundwood Stw Cudworth Dyke End/Start of Stretch: Start of Stretch NGR	D	D	D	D	D

5.9.2 Chemical Quality:

Database searched and no data found.

5.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?	No

Database searched and no data found.

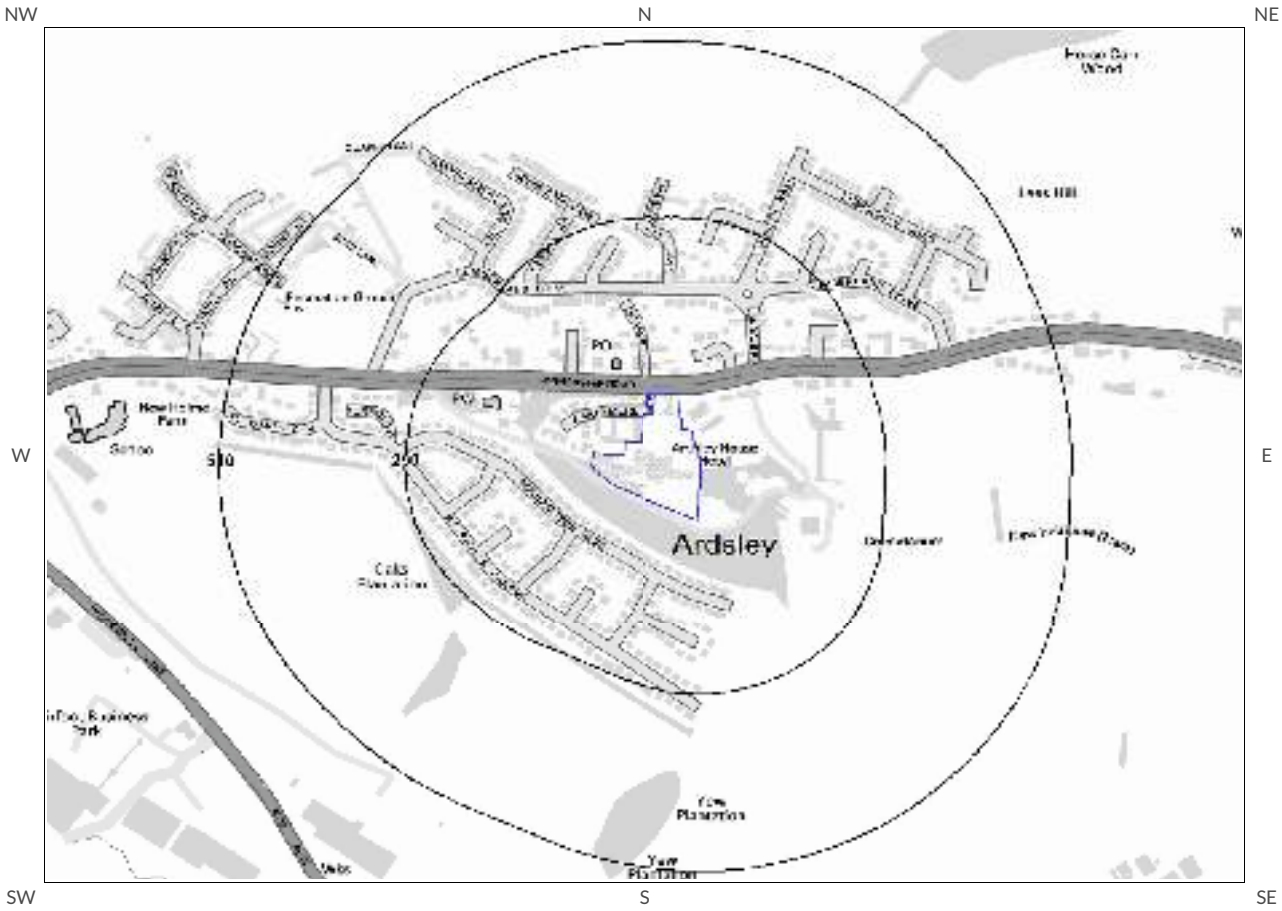
5.11 Surface Water Features

Are there any surface water features within 250m of the study site?	No

Database searched and no data found.

---

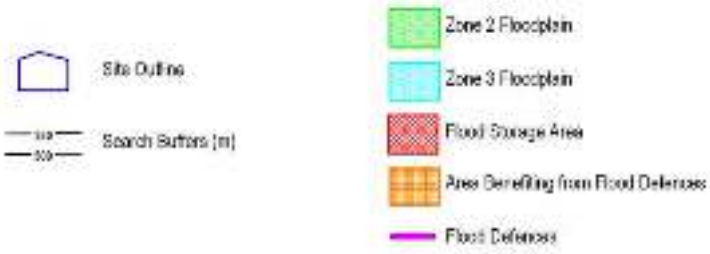
6. Environment Agency Flood Map for planning (from rivers and the sea)



Environment Agency Flood Map for planning (from rivers and the sea)

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6. Flooding

6.1 Zone 2 Flooding

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 1 – Environment Agency Flood Map for Planning:

Is the site within 250m of an Environment Agency Zone 2 floodplain?	No

Database searched and no data found.

6.2 Zone 3 Flooding

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 1 – Environment Agency Flood Map for Planning.

Is the site within 250m of an Environment Agency Zone 3 floodplain?	No

Database searched and no data found.

6.3 Flood Defences

Are there any Flood Defences within 250m of the study site?	No

Database searched and no data found.

6.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?	No

6.5 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?	No

6.6 Groundwater Flooding Susceptibility Areas

6.6.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site?

Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

6.6.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

6.7 Groundwater Flooding Confidence Areas

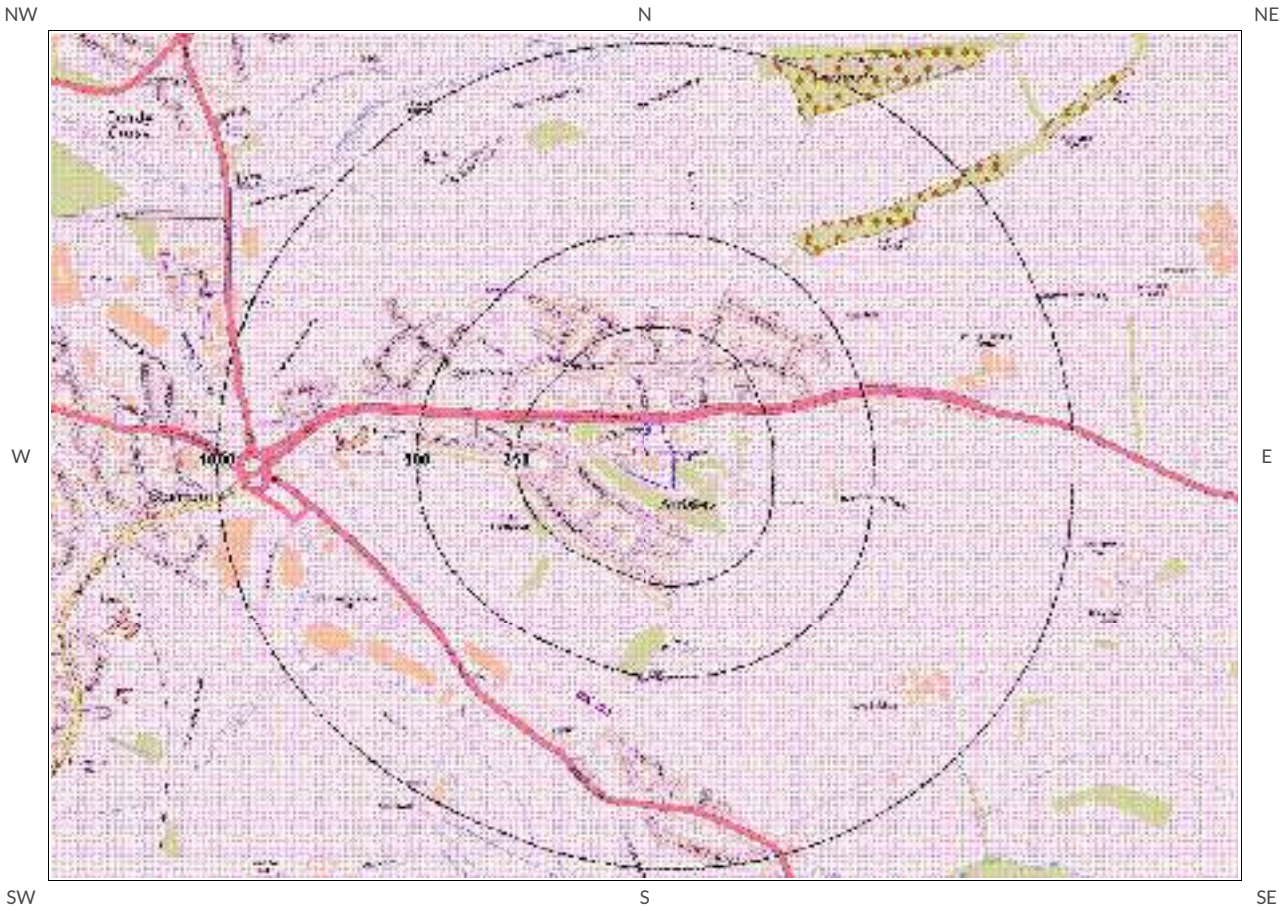
What is the British Geological Survey confidence rating in this result? Low

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

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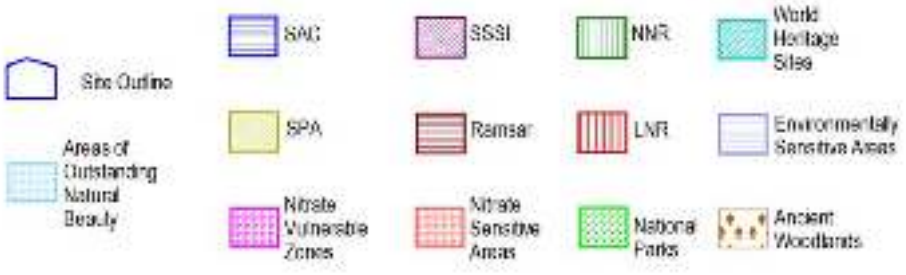
7. Designated Environmentally Sensitive Sites Map



Designated Environmentally Sensitive Sites Map

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7. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

7.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

1

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SSSI Name	Data Source
1	587.0	SW	Stairfoot Brickworks	Natural England

7.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

7.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

7.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

7.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

7.6 Records of Ancient Woodland within 2000m of the study site:

6

The following Ancient Woodland records are supplied by English Nature/Scottish Natural Heritage/Countryside Council for Wales and are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
5	581.0	NE	UNKNOWN	Ancient and Semi-Natural Woodland
6	876.0	NE	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1198.0	N	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1216.0	N	UNKNOWN	Ancient and Semi-Natural Woodland
9	1223.0	NE	UNKNOWN	Ancient and Semi-Natural Woodland
Not shown	1885.0	NE	STORRS WOOD	Ancient and Semi-Natural Woodland

7.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

1

The following Local Nature Reserve (LNR) records provided by Natural England/Countryside Council for Wales and Scottish Natural Heritage are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
Not shown	1740.0	NW	Dearne Valley Park	Natural England

7.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

7.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

7.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

7.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

7.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

7.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

2

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
3	0.0	On Site	NVZ Area	DEFRA
Not shown	1651.0	E	NVZ Area	DEFRA



8. Natural Hazards Findings

8.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a GroundSure GeoInsight, available from our website. The following information has been found:

8.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

8.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

* This indicates an automatically generated 50m buffer and site.

8.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

8.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

8.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

8.1.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

* This indicates an automatically generated 50m buffer and site.



9. Mining

9.1 Coal Mining

Are there any coal mining areas within 75m of the study site? Yes

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance	Direction	Details
0.0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

9.2 Shallow Mining

What is the subsidence hazard relating to shallow mining on-site*? Low-Moderate

*Please note this data is searched with a 150m buffer.

9.3 Brine Affected Areas

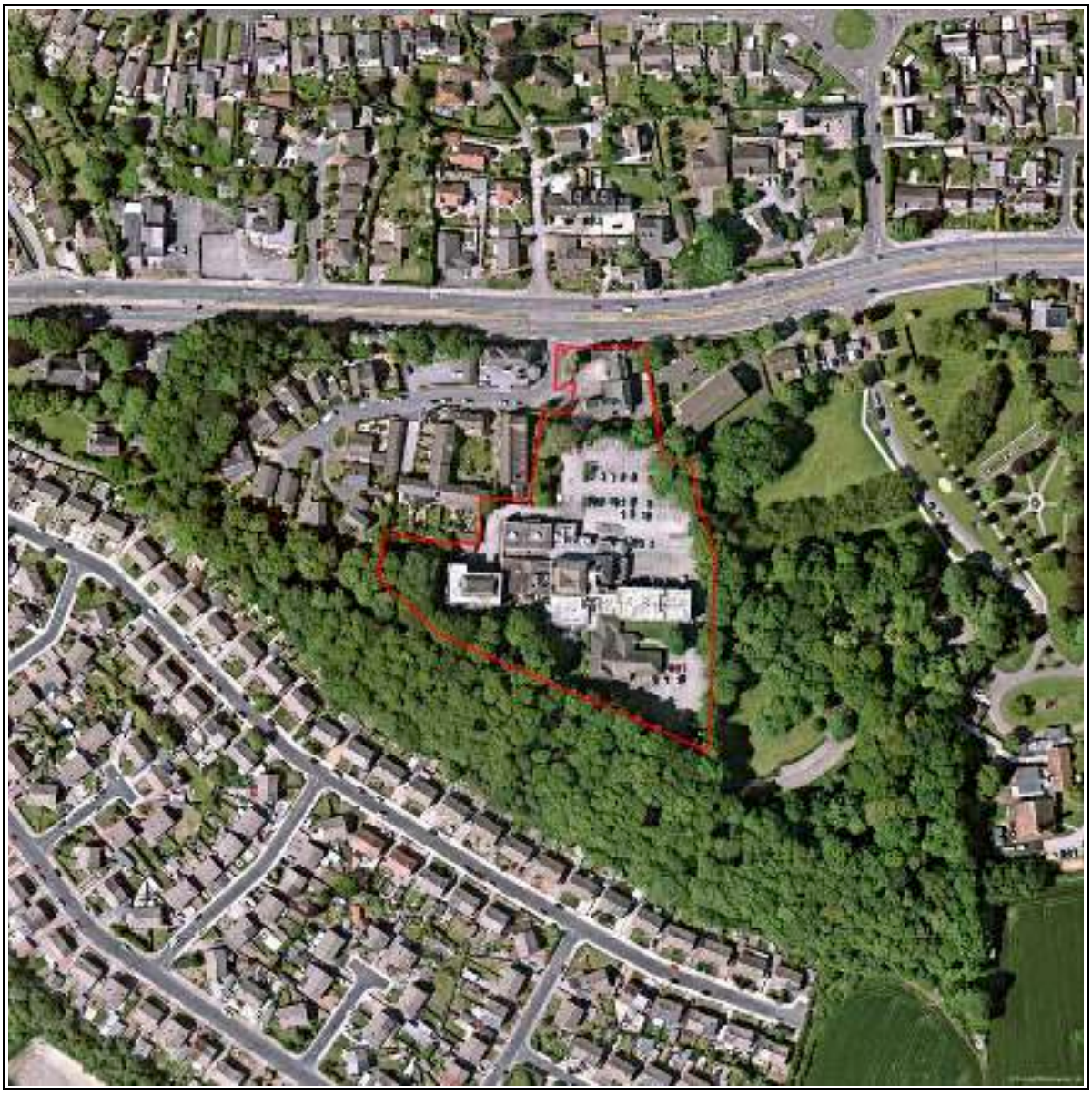
Are there any brine affected areas within 75m of the study site? No

Guidance: No Guidance Required.

GroundSure GeoInsight

Address:	**,**
Date:	**24 Oct 2014**
Reference:	**EMS-273239_368425**
Client:	**EmapSite**

NW N NE



W E

SW S SE

Aerial Photograph Capture date:	26-Mar-2012
Grid Reference:	438291,405534
Site Size:	1.45ha

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Overview of Findings

The GroundSure GeoInsight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and GroundSure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Geology		
1.1 Artificial Ground	1.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?	No
	1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary?	No
1.2 Superficial Geology and Landslips	1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?	No
	1.2.2 Are there any records relating to permeability of superficial geology within the study site boundary?	No
	1.2.3 Are there any records of landslip within 500m of the study site boundary?	No
	1.2.4 Are there any records relating to permeability of landslips within the study site boundary?	No
1.3 Bedrock, Solid Geology & Faults	1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.	
	1.3.2 Are there any records relating to permeability of bedrock within the study site boundary?	Yes
	1.3.3 Are there any records of faults within 500m of the study site boundary?	Yes
1.4 Radon data	1.4.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level
	1.4.2 Is the property in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	No radon protective measures are necessary

Section 2: Ground Workings	On-site	0-50m	51-250	251-500	501-1000
2.1 Historical Surface Ground Working Features from Small Scale Mapping	0	0	0	Not Searched	Not Searched
2.2 Historical Underground Workings from Small Scale Mapping	0	0	0	1	8
2.3 Current Ground Workings	0	0	0	1	4

Section 3: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
3.1 Historical Mining	0	0	0	1	1

Section 3: Mining, Extraction & Natural Cavities	On-site	0-50m	51-250	251-500	501-1000
3.2 Coal Mining	1	0	0	0	0
3.3 Johnson Poole and Bloomer Mining Area	0	0	0	0	0
3.4 Non-Coal Mining	1	0	0	2	8
3.5 Non-Coal Mining Cavities	0	0	0	1	0
3.6 Natural Cavities	0	0	0	0	0
3.7 Brine Extraction	0	0	0	0	0
3.8 Gypsum Extraction	0	0	0	0	0
3.9 Tin Mining	0	0	0	0	0
3.10 Clay Mining	0	0	0	0	0

Section 4: Natural Ground Subsidence	On-site
4.1 Shrink Swell Clay	Negligible
4.2 Landslides	Very Low
4.3 Ground Dissolution of Soluble Rocks	Negligible
4.4 Compressible Deposits	Negligible
4.5 Collapsible Deposits	Very Low
4.6 Running Sand	Negligible

Section 5: Borehole Records	On-site	0-50m	51-250
5 BGS Recorded Boreholes	1	4	10

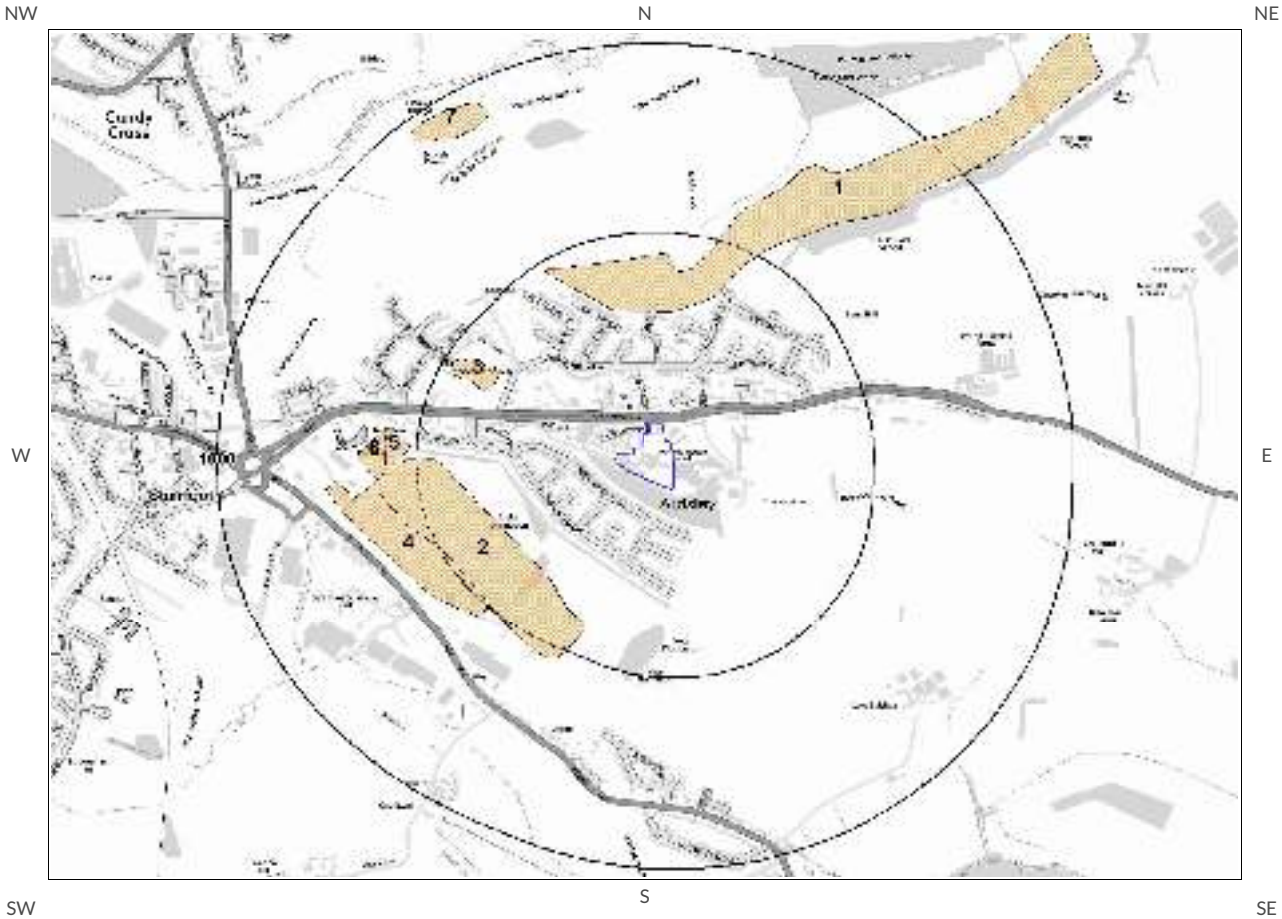
Section 6: Estimated Background Soil Chemistry	On-site	0-50m	51-250
6 Records of Background Soil Chemistry	1	0	7

Section 7: Railways and Tunnels	On-site	0-50m	51-250	251-500
7.1 Tunnels	0	0	0	Not Searched
7.2 Historical Railway and Tunnel Features	0	0	0	Not Searched
7.3 Historical Railways	0	0	0	Not Searched
7.4 Active Railways	0	0	0	Not Searched

Section 7: Railways and Tunnels	On-site	0-50m	51-250	251-500
7.5 Railway Projects	0	0	1	1

1 Geology

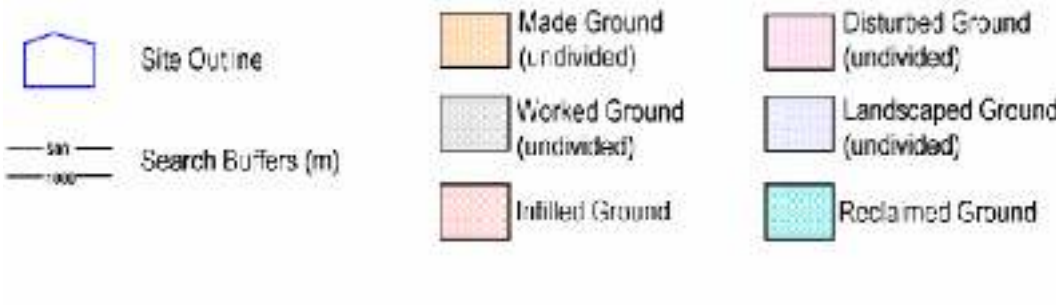
1.1 Artificial Ground Map



Artificial Ground Legend

Mapping sourced from Ordnance Survey

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1 Geology

1.1 Artificial Ground

1.1.1Artificial/ Made Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:087

Are there any records of Artificial/Made Ground within 500m of the study site boundary? Yes

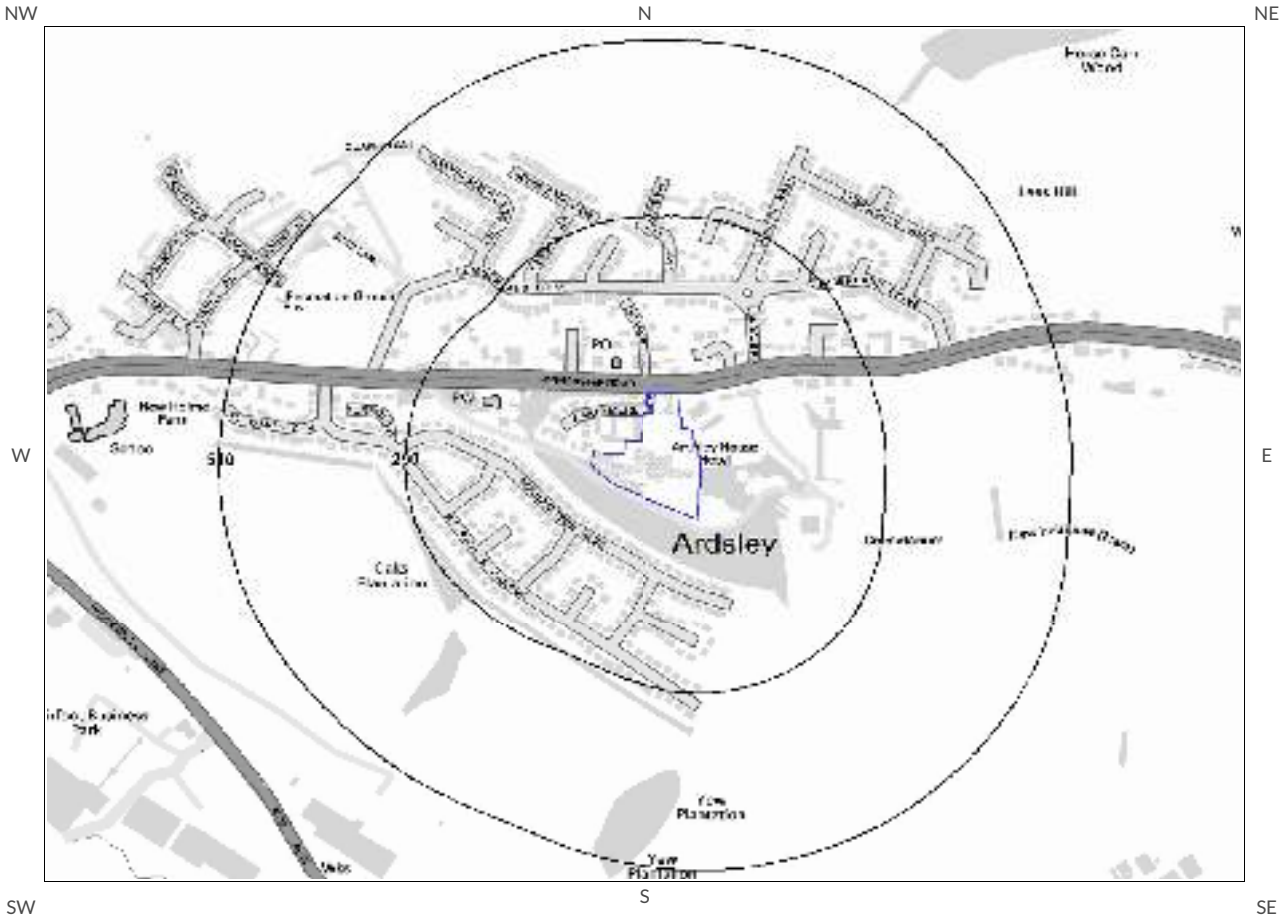
ID	Distance (m)	Direction	LEX Code	Description	Rock Description
1	292.0	N	WMGR-MGRD	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	331.0	SW	WMGR-MGRD	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	360.0	NW	MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	486.0	SW	MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

1.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

1.2 Superficial Deposits and Landslips Map



Superficial Deposits and Landslips Legend

Mapping sourced from Ordnance Survey

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Site Outline

Search Buffers (m)

1.2 Superficial Deposits and Landslips

1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? No

Database searched and no data found.

1.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? No

Database searched and no data found.

1.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site* boundary? No

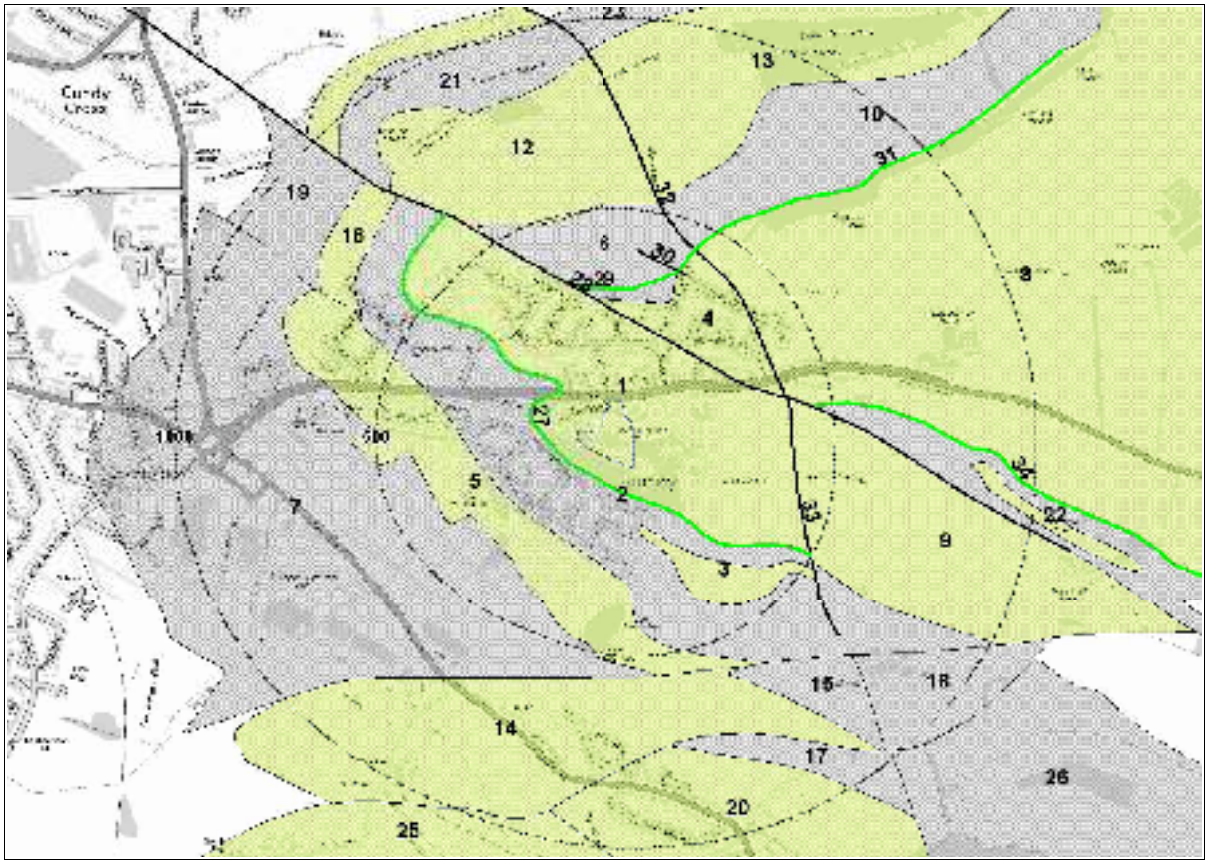
Database searched and no data found.

---

* This includes an automatically generated 50m buffer zone around the site

1.3 Bedrock and Faults Map

NW N NE



SW S SE

Bedrock and Faults Legend

Mapping sourced from Ordnance Survey

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Site Outline

Search Buffers (m)

1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:087

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary:

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	GH-SDST	Glass Houghton Rock - Sandstone	Bolsovian (westphalian C)
2	55.0	SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
3	150.0	S	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
4	193.0	NE	MXR-SDST	Mexborough Rock - Sandstone	Bolsovian (westphalian C)
5	229.0	SW	ACR-SDST	Ackton Rock - Sandstone	Bolsovian (westphalian C)
6	260.0	N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
7	331.0	SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
8	380.0	E	MXR-SDST	Mexborough Rock - Sandstone	Bolsovian (westphalian C)
9	390.0	E	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
10	433.0	NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
11	441.0	E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian (westphalian C) / Duckmantian (westphalian B)
12	487.0	N	GH-SDST	Glass Houghton Rock - Sandstone	Bolsovian (westphalian C)

1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site* boundary? Yes

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Fracture	High	Moderate

1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary? Yes

ID	Distance (m)	Direction	Category Description	Feature Description
27	55.0	SW	ROCK	Coal seam, inferred
28	193.0	NE	FAULT	Normal fault, inferred
29	292.0	N	ROCK	Coal seam, inferred

* This includes an automatically generated 50m buffer zone around the site

ID	Distance (m)	Direction	Category Description	Feature Description
30	364.0	NE	FAULT	Normal fault, inferred
31	365.0	NE	ROCK	Coal seam, inferred
32	380.0	E	FAULT	Normal fault, inferred
33	390.0	E	FAULT	Normal fault, inferred
34	441.0	E	ROCK	Coal seam, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

1.4 Radon Data

1.4.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level

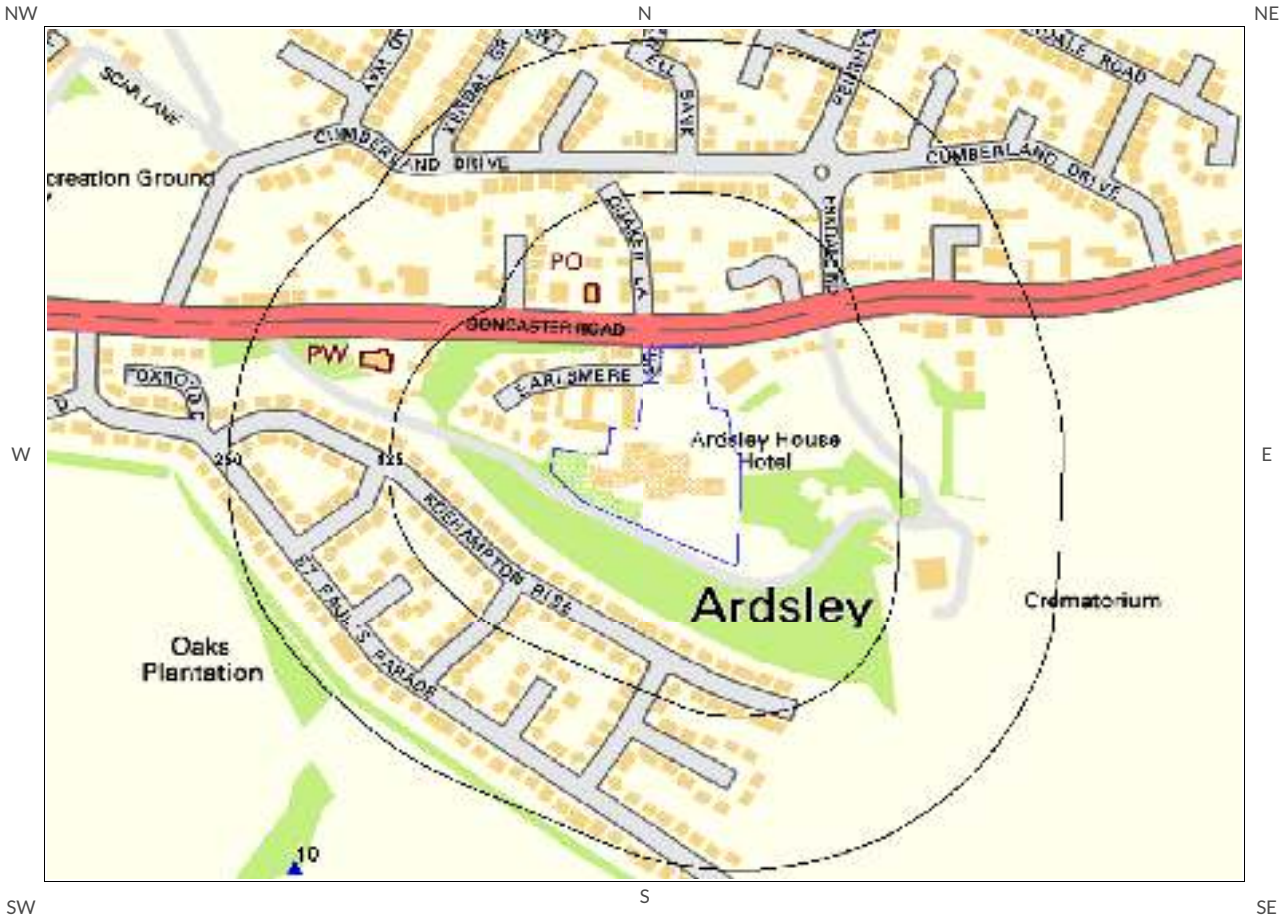
---

1.4.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary

---

2 Ground Workings Map



Ground Workings Legend

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Site Outline

Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings



2 Ground Workings

2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on GroundSure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? No

Database searched and no data found.

2.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the GroundSure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by GroundSure:

ID	Distance (m)	Direction	NGR	Use	Date
Not shown	489.0	SW	437600 405309	Colliery	1904
Not shown	519.0	SW	437627 405316	Colliery	1890
Not shown	815.0	NW	437822 406322	Tunnel	1992
Not shown	815.0	NW	437822 406322	Tunnel	1982
Not shown	815.0	NW	437822 406322	Tunnel	1974
Not shown	815.0	NW	437822 406322	Tunnel	1966
Not shown	821.0	NW	437816 406320	Tunnel	1951
Not shown	824.0	NW	437820 406322	Tunnel	1948
Not shown	824.0	NW	437820 406322	Tunnel	1904

2.3 Current Ground Workings

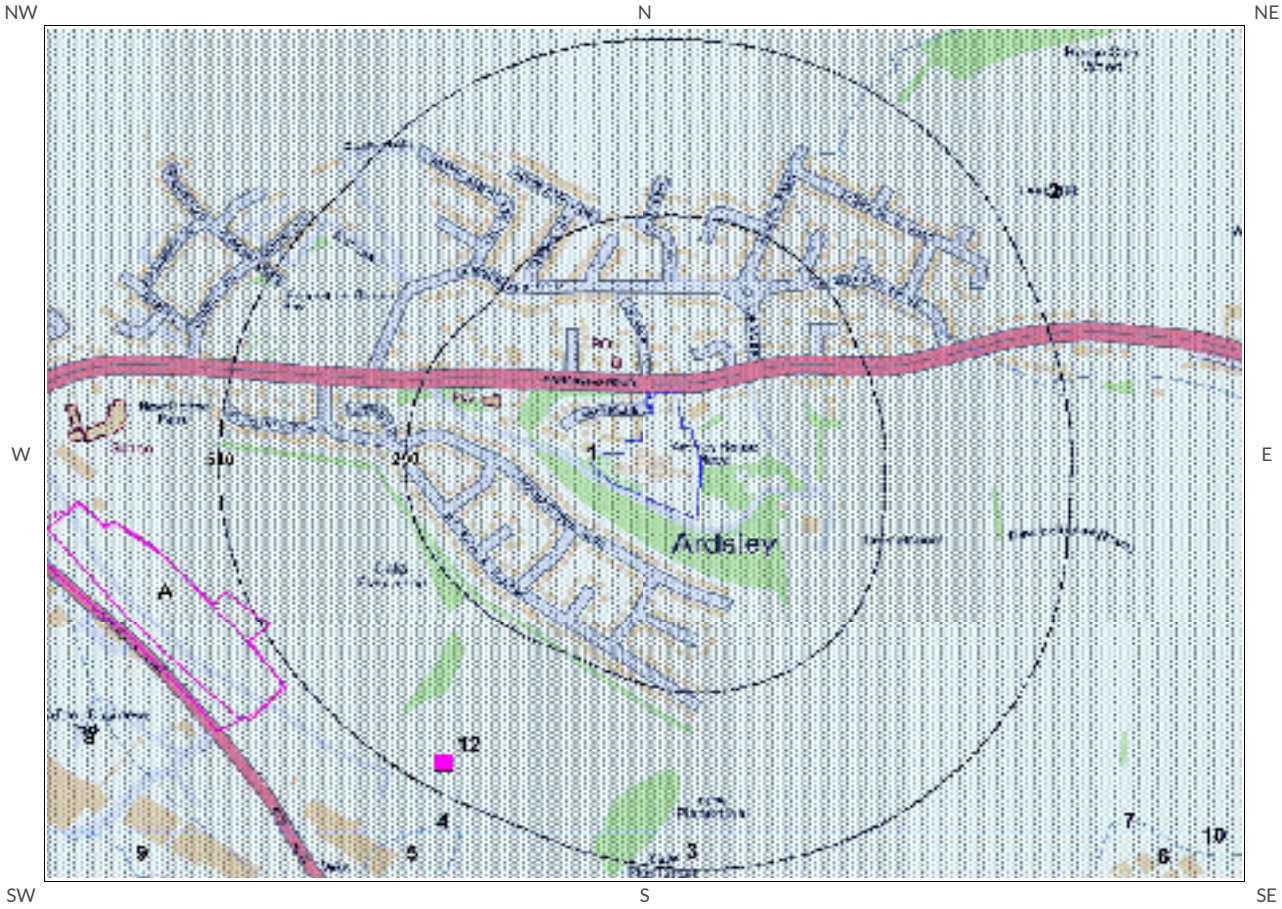
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
10	375.0	SW	438000 405200	Clay & Shale	Stairfoot Brickworks No 2	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Inactive
Not shown	642.0	SW	437950 404920	Clay & Shale	Stairfoot Brickworks	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Inactive
Not shown	655.0	W	437565 405360	Coal, Deep	New Oaks Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	676.0	W	437532 405640	Mineral	Ardsley	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	902.0	N	438213 406529	Sandstone	Brodilley Wood	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

3 Mining, Extraction & Natural Cavities Map



Mining, Extraction and Natural Cavities Legend

Mapping sourced from Ordnance Survey

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Site Outline

Search Buffers (m)

Historical Mining

Non-Coal Mining Cavities

Natural Cavities

Non-Coal Mining

Highly likely

Likely

Unlikely

Highly unlikely

Rare



3 Mining, Extraction & Natural Cavities

3.1 Historical Mining

This dataset is derived from GroundSure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by GroundSure:

ID	Distance (m)	Direction	NGR	Details	Date
13A	489.0	SW	437600 405309	Colliery	1904
14A	519.0	SW	437627 405316	Colliery	1890

3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0.0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

3.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
1	0.0	On Site	Not available	Iron Ore (Bedded)	Rare and localised small scale mining may have occurred.
2	258.0	NE	Sheffield Area	Iron Ore	Rare and localised small scale mining may have occurred.
3	448.0	S	Not available	Iron Ore (Bedded)	Rare and localised small scale mining may have occurred.
4	531.0	SW	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
5	539.0	SW	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
6	675.0	S	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
7	705.0	SE	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
8	733.0	W	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
9	734.0	SW	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.
10	763.0	SE	Not available	Iron Ore (Bedded)	Rare and localised small scale mining may have occurred.
Not shown	928.0	SW	Sheffield Area	Vein Mineral/Iron ore	Rare and localised small scale mining may have occurred.

3.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? Yes

The following Non-Coal Mining Cavities information provided by Peter Brett Associates:

ID	Distance (m)	Direction	NGR	Address	Superficial Deposits	Bedrock Deposits	Extracted Mineral
12	459.0	SW	438000 405100	STAIRFOOT, South Yorkshire	-	-	Shale

3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

3.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

3.10 Clay Mining

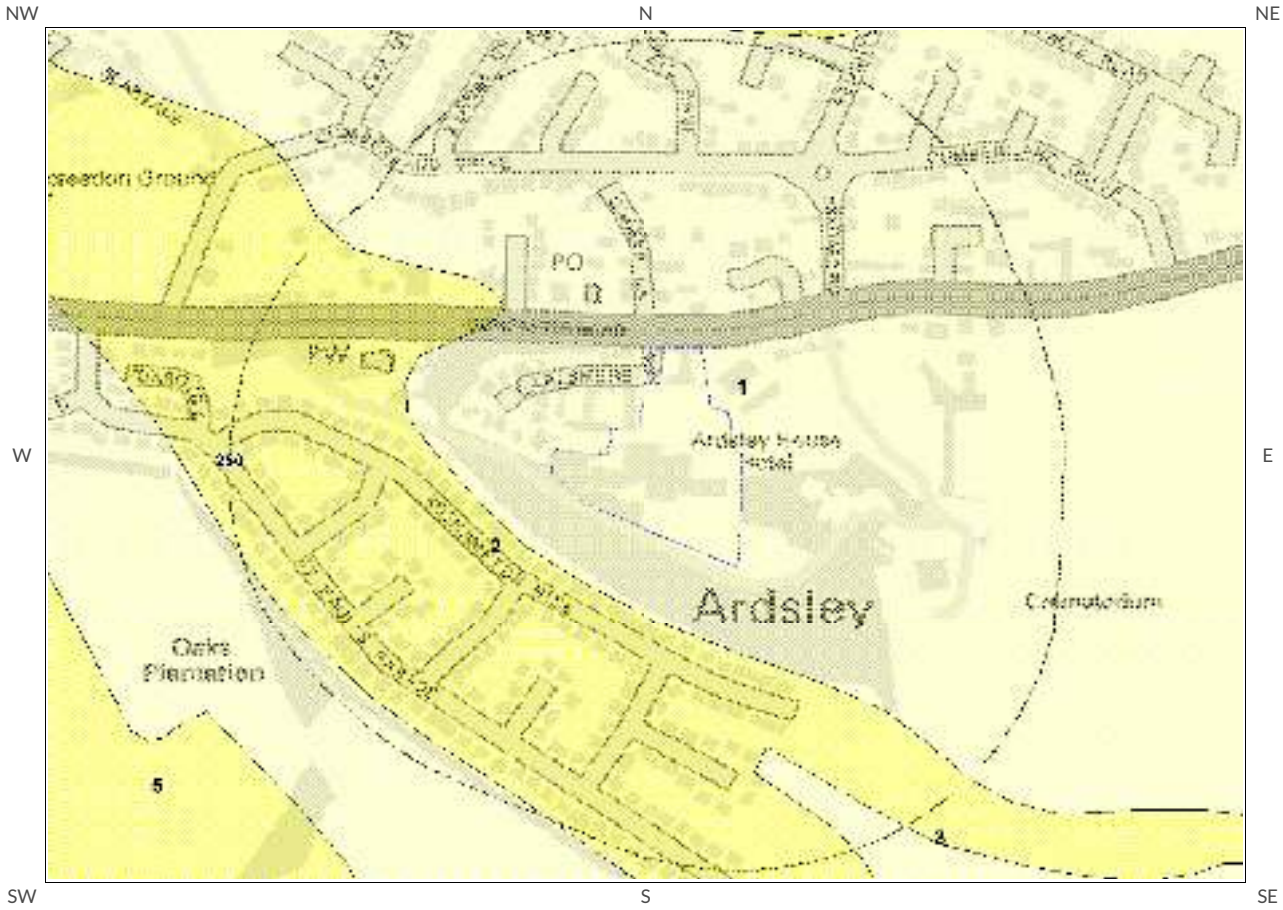
This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

4 Natural Ground Subsidence
4.1 Shrink-Swell Clay Map



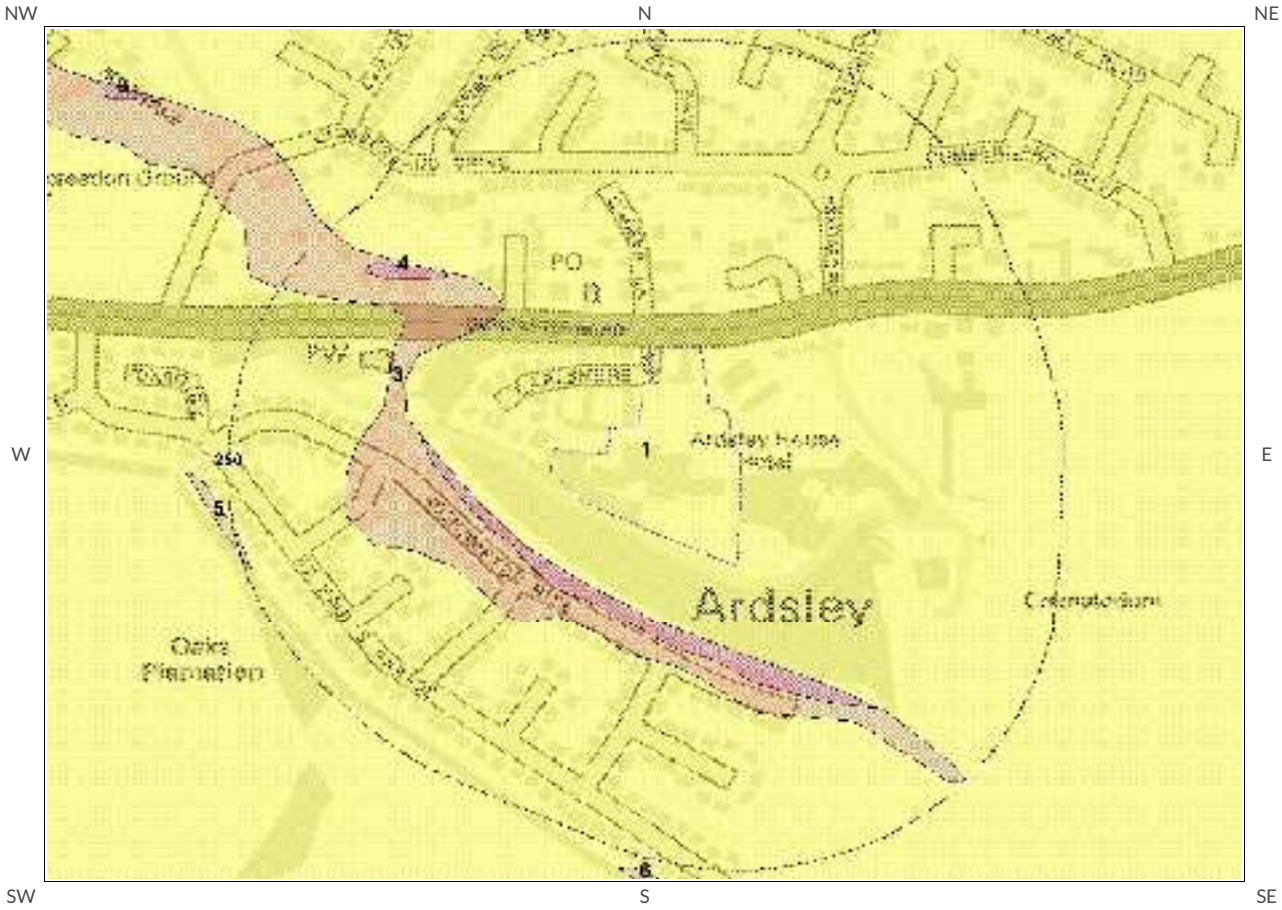
Shrink Swell Clay Legend

Mapping sourced from Ordnance Survey®

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4.2 Landslides Map



Landslides Legend

Mapping sourced from Ordnance Survey

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Site Outline

Search Buffers (m)

No Date / Null

Negligible

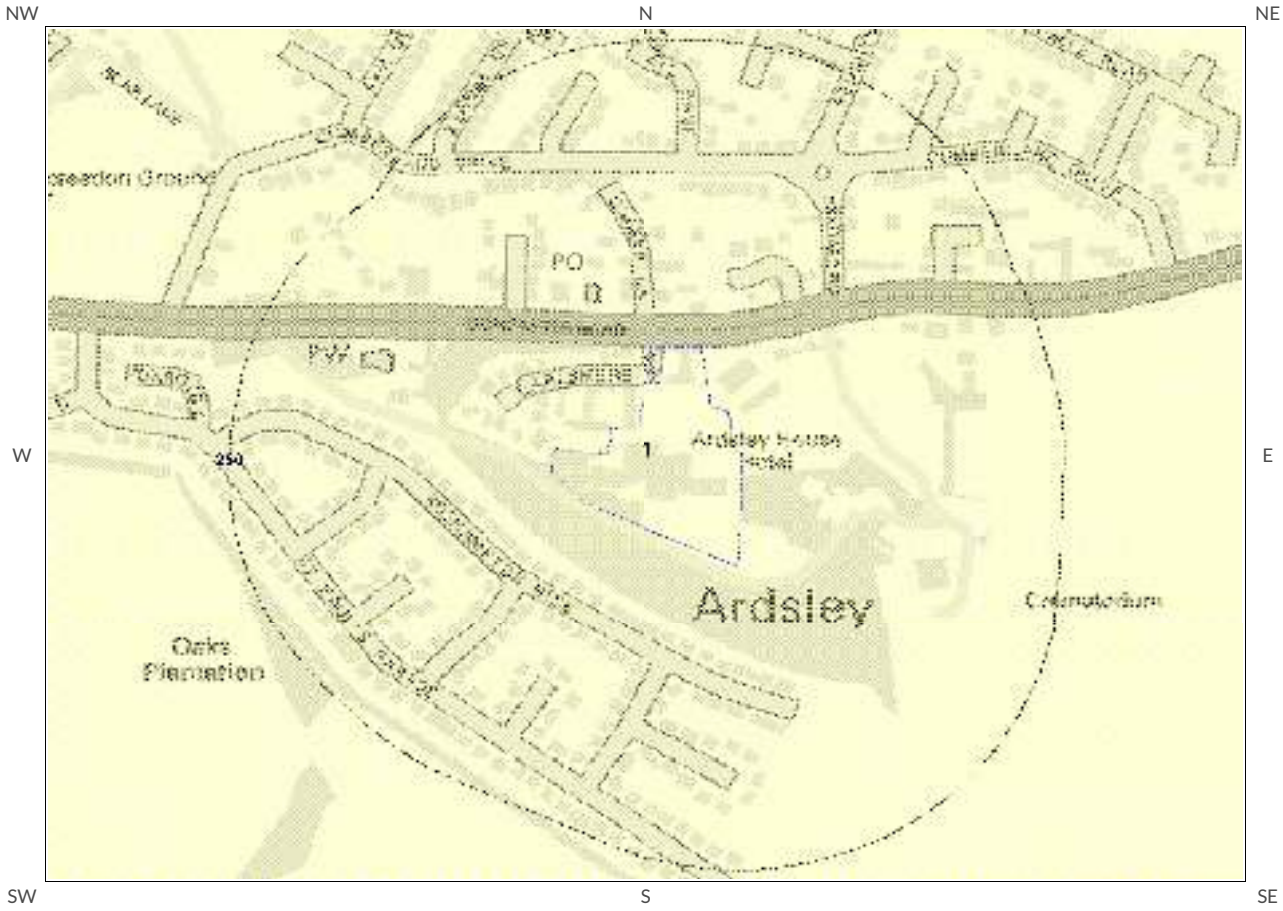
Very Low

Low

Moderate

High

4.3 Ground Dissolution Soluble Rocks Map



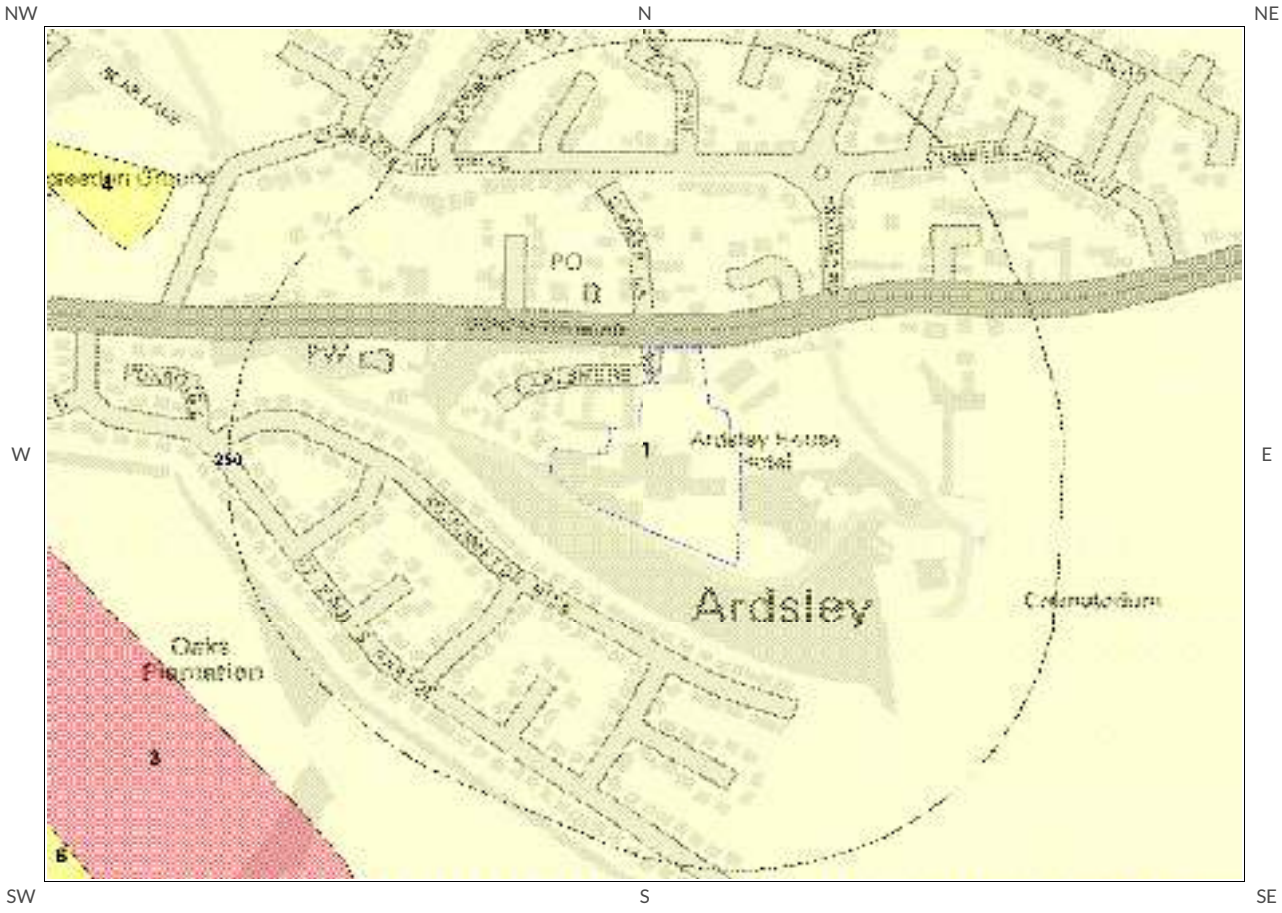
Ground Dissolution Soluble Rocks Legend

Mapping sourced from Ordnance Survey

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4.4 Compressible Deposits Map



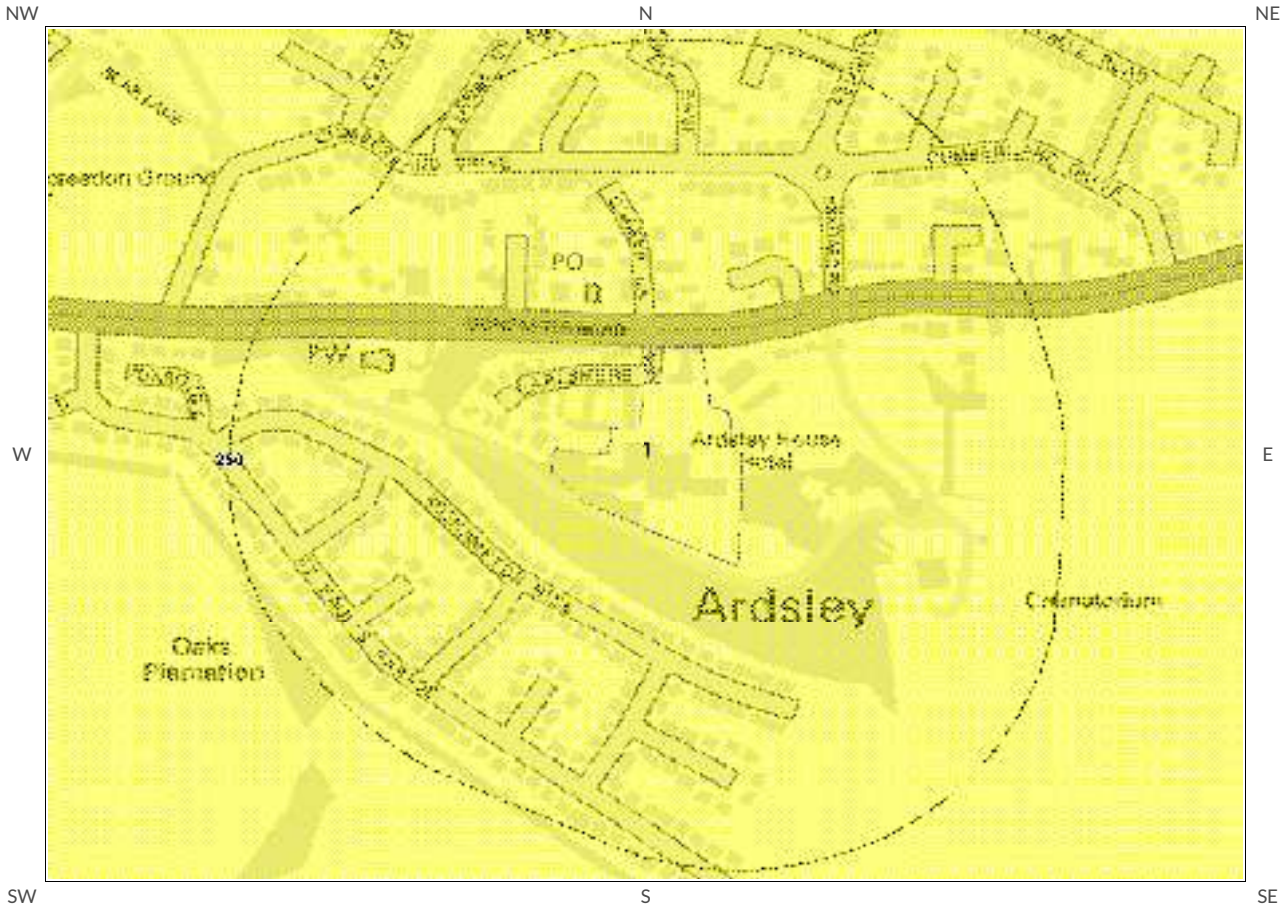
Compressible Deposits Legend

Mapping sourced from Ordnance Survey

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4.5 Collapsible Deposits Map



Collapsible Deposits Legend

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Site Outline

Search Buffers (m)

No Data / Null

Negligible

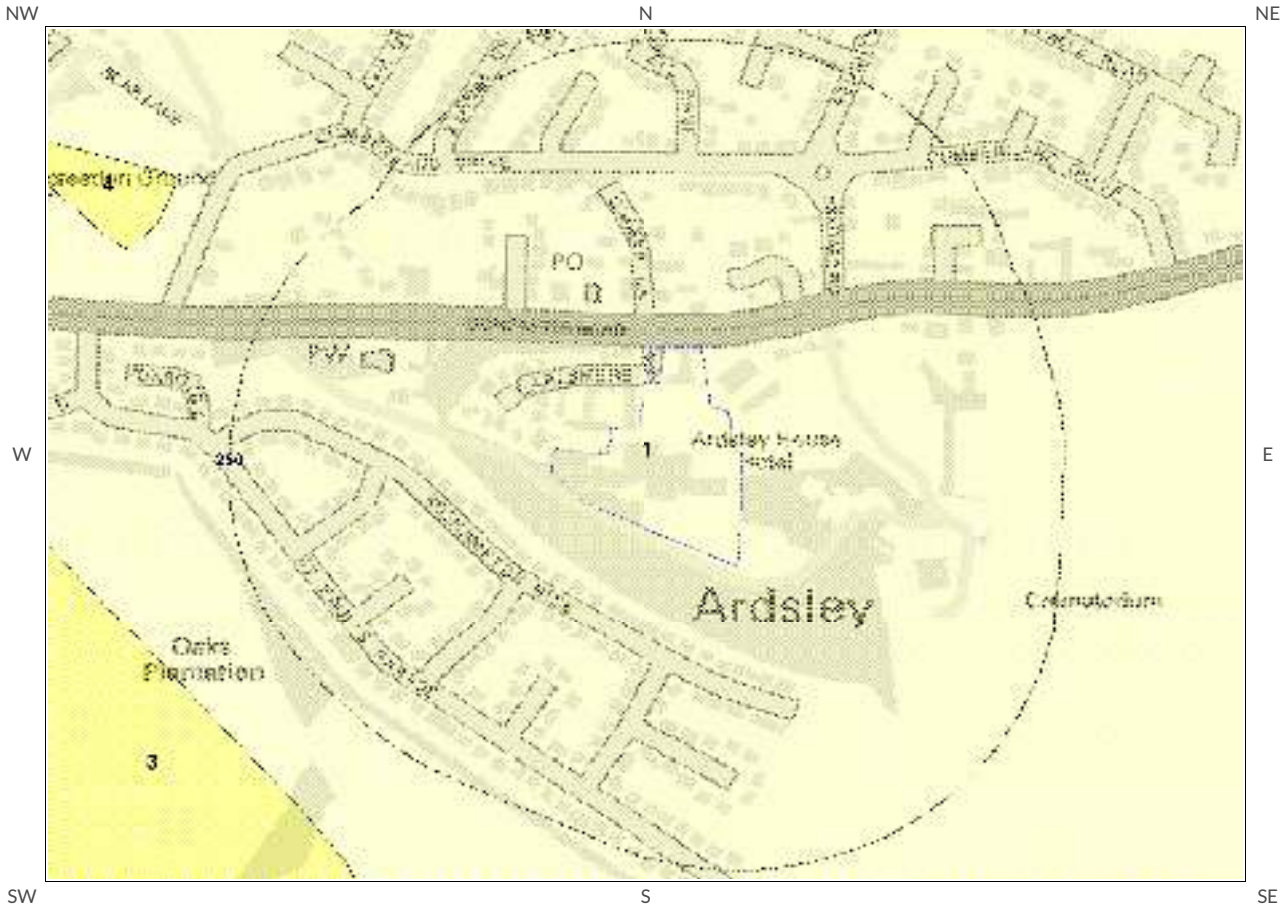
Very Low

Low

Moderate

High

4.6 Running Sand Map



Running Sand Legend

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4 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site* boundary? Very Low

4.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

4.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

4.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This includes an automatically generated 50m buffer zone around the site

4.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

4.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

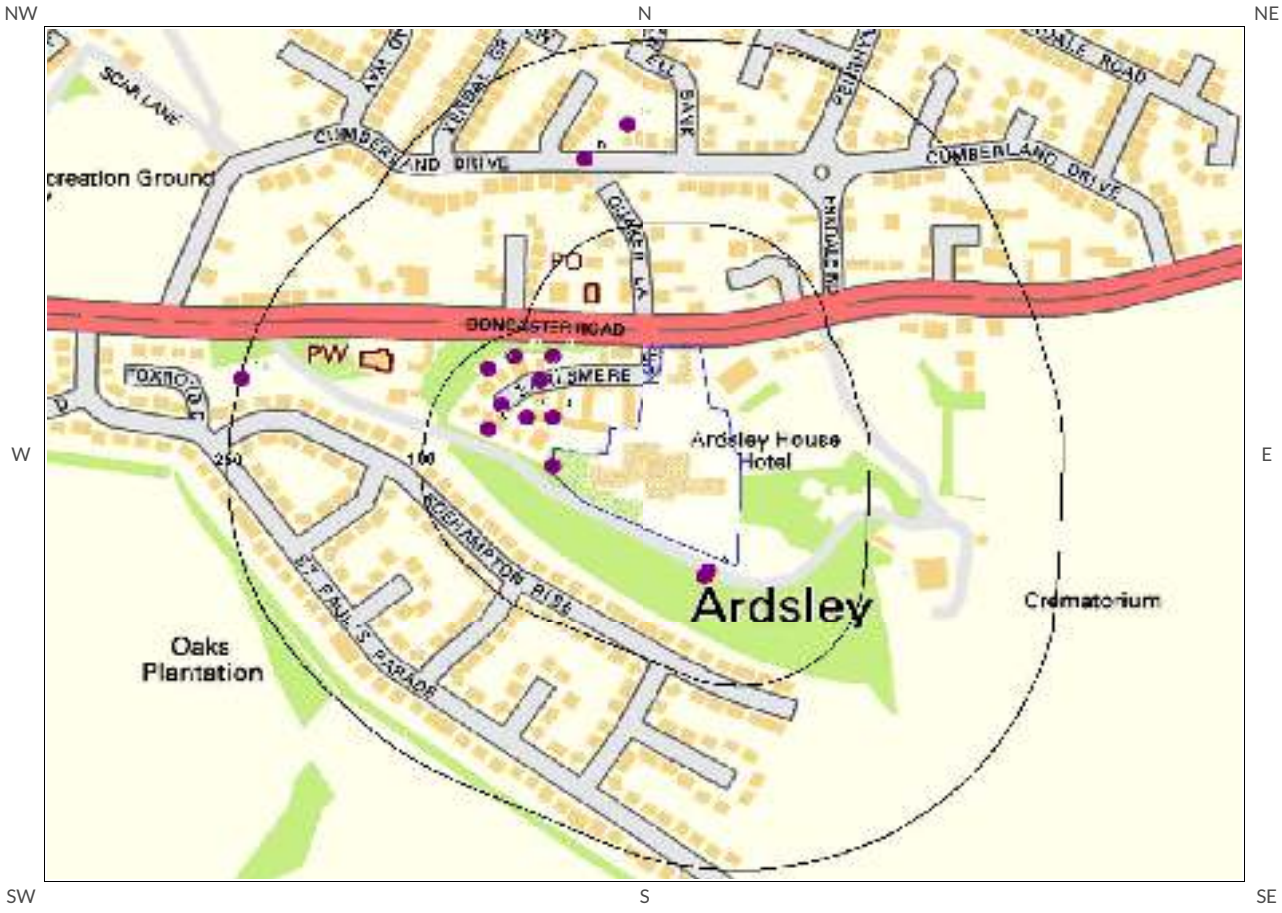
ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

4.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

5 Borehole Records Map



Borehole Records Legend

Mapping sourced from Ordnance Survey

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Site Outline

Borehole Locations

Search Buffers (m)



5 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 15

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	0.0	On Site	438200 405530	SE30NE572	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP9
2A	13.0	SW	438323 405444	SE30NE80	-1.0	BARROW COLL FENTON DE-WATERING UGBH U/B POSITION A
3A	17.0	SW	438320 405440	SE30NE79	-1.0	BARROW COLLIERY NO.22 UGBH
4	25.0	N	438200 405570	SE30NE571	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP8
5	33.0	NW	438180 405570	SE30NE570	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP7
6	53.0	W	438150 405560	SE30NE568	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP5
7	54.0	NW	438160 405580	SE30NE569	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP6
8	56.0	N	438190 405600	SE30NE567	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP4
9	74.0	NW	438200 405620	SE30NE566	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP3
10	81.0	N	438170 405620	SE30NE565	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP2
11	83.0	NW	438150 405610	SE30NE564	-1.0	ARDSLEY HOUSE ARDSLEY BARNSLEY TP1
12B	161.0	N	438225 405781	SE30NE84	58.52	BARROW COLLIERY NO.25 UGBH
13B	161.0	N	438225 405781	SE30NE85	82.19	BARROW COLLIERY NO.26 UGBH (UP)
14	182.0	N	438258 405810	SE30NE95	-1.0	T07'S MAIN GATE AT 100M INBYE
15	249.0	W	437959 405602	SE30NE68	3.66	BARROW UGBH NO.13

Additional online information is available for the following boreholes listed above:

#3A: scans.bgs.ac.uk/sobi_scans/boreholes/83595
#12B: scans.bgs.ac.uk/sobi_scans/boreholes/83600
#13B: scans.bgs.ac.uk/sobi_scans/boreholes/83601
#14: scans.bgs.ac.uk/sobi_scans/boreholes/83611
#15: scans.bgs.ac.uk/sobi_scans/boreholes/83575